

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\
 Data File : VD059791.D
 Acq On : 15 Aug 2018 5:05
 Operator : VA/AP
 Sample : J3762-01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Quant Time: Aug 15 17:50:46 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	288632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	373852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	319072	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	170175	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.02	65	206390	55.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.30%	
35) Dibromofluoromethane	5.55	113	186872	57.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.72%	
50) Toluene-d8	8.71	98	429394	55.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.30%	
62) 4-Bromofluorobenzene	11.93	95	179408	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.35	85	8641	2.46	ug/l	98
3) Chloromethane	1.49	50	4514	2.34	ug/l	92
4) Vinyl Chloride	1.57	62	4289	2.10	ug/l	95
5) Bromomethane	1.80	94	1996	3.07	ug/l	86
6) Chloroethane	1.90	64	1961	2.30	ug/l #	43
7) Trichlorofluoromethane	2.10	101	6651	2.07	ug/l	89
8) Diethyl Ether	2.35	74	897	1.45	ug/l	55
9) 1,1,2-Trichlorotrifluoroet	2.56	101	3891	2.16	ug/l	90
10) Methyl Iodide	2.70	142	3459	4.64	ug/l #	76
11) Tert butyl alcohol	3.20	59	2150	16.39	ug/l #	74
12) 1,1-Dichloroethene	2.55	96	2286	1.76	ug/l #	85
13) Acrolein	2.48	56	873	25.79	ug/l	83
14) Allyl chloride	2.93	41	7174	2.19	ug/l #	91
15) Acrylonitrile	3.37	53	5764	12.54	ug/l #	88
16) Acetone	2.61	43	7153	12.22	ug/l	93
17) Carbon Disulfide	2.77	76	9286	2.13	ug/l	99
18) Methyl Acetate	2.94	43	3275	2.62	ug/l #	86
19) Methyl tert-butyl Ether	3.42	73	15423	2.43	ug/l	99
20) Methylene Chloride	3.07	84	10419	3.70	ug/l	90
21) trans-1,2-Dichloroethene	3.40	96	6245	2.43	ug/l	93
22) Diisopropyl ether	4.07	45	21065	2.39	ug/l	89
23) Vinyl Acetate	4.03	43	56423	11.29	ug/l	98
24) 1,1-Dichloroethane	3.98	63	13159	2.51	ug/l #	88
25) 2-Butanone	4.84	43	10837	12.10	ug/l	98
26) 2,2-Dichloropropane	4.80	77	11024	2.30	ug/l	93
27) cis-1,2-Dichloroethene	4.81	96	6299	2.24	ug/l	97
28) Bromochloromethane	5.16	49	3771	1.84	ug/l	96
29) Tetrahydrofuran	5.19	42	4081	10.68	ug/l	94
30) Chloroform	5.33	83	14553	2.31	ug/l	97
31) Cyclohexane	5.64	56	15896	4.22	ug/l #	13
32) 1,1,1-Trichloroethane	5.52	97	11986	2.17	ug/l	95
36) 1,1-Dichloropropene	5.75	75	8980	2.34	ug/l	97
37) Ethyl Acetate	4.93	43	5280	2.75	ug/l #	72
38) Carbon Tetrachloride	5.74	117	10592	2.29	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.29	83	8183	2.47	ug/l	93
40) Benzene	6.02	78	20369	2.50	ug/l	99
41) Methacrylonitrile	5.13	41	1905	2.08	ug/l #	75
42) 1,2-Dichloroethane	6.13	62	10810	2.46	ug/l	82
43) Isopropyl Acetate	7.63	43	4747	1.96	ug/l	97
44) Trichloroethene	6.99	130	6614	2.37	ug/l	97
45) 1,2-Dichloropropane	7.35	63	5295	2.50	ug/l #	83
46) Dibromomethane	7.47	93	3758	2.17	ug/l #	80
47) Bromodichloromethane	7.75	83	9490	2.24	ug/l	95
48) Methyl methacrylate	7.51	41	3757	2.38	ug/l	94
51) 4-Methyl-2-Pentanone	8.60	43	20475	11.18	ug/l	93
52) Toluene	8.81	92	14044	2.69	ug/l	93
53) t-1,3-Dichloropropene	9.19	75	7630	2.17	ug/l	100
54) cis-1,3-Dichloropropene	8.36	75	8208	2.16	ug/l	89
55) 1,1,2-Trichloroethane	9.46	97	5738	2.98	ug/l #	89
56) Ethyl methacrylate	9.32	69	4341	2.08	ug/l	94
57) 1,3-Dichloropropane	9.67	76	7524	2.50	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.19	63	10528	10.22	ug/l #	90
59) 2-Hexanone	9.79	43	13548	10.32	ug/l	96
60) Dibromochloromethane	9.96	129	5887	2.11	ug/l	89
61) 1,2-Dibromoethane	10.10	107	4809	2.26	ug/l	98
64) Tetrachloroethene	9.51	164	7189	2.62	ug/l	96
65) Chlorobenzene	10.72	112	15993	2.48	ug/l	94
66) 1,1,1,2-Tetrachloroethane	10.85	131	6167	2.37	ug/l	96
67) Ethyl Benzene	10.86	91	28544	2.57	ug/l	99
68) m/p-Xylenes	11.01	106	19811	5.25	ug/l	84
69) o-Xylene	11.40	106	9307	2.57	ug/l	96
70) Stvrene	11.43	104	15224	2.37	ug/l	98
71) Bromoform	11.60	173	3493	1.85	ug/l	93
73) Isopropylbenzene	11.78	105	27570	2.56	ug/l	94
74) N-amyl acetate	11.65	43	7039	2.13	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.08	83	5354	2.45	ug/l	97
76) 1,2,3-Trichloropropane	12.11	75	6262	2.59	ug/l	97
77) Bromobenzene	12.04	156	8356	2.71	ug/l	87
78) n-propylbenzene	12.15	91	36009	2.68	ug/l	90
79) 2-Chlorotoluene	12.22	91	21505	2.65	ug/l	81
80) 1,3,5-Trimethylbenzene	12.32	105	24357	2.82	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.93	75	90656	160.48	ug/l #	1
82) 4-Chlorotoluene	12.33	91	24889	2.71	ug/l	98
83) tert-Butylbenzene	12.57	119	22397	2.35	ug/l	92
84) 1,2,4-Trimethylbenzene	12.62	105	22806	2.45	ug/l	98
85) sec-Butylbenzene	12.76	105	27314	2.47	ug/l	99
86) p-Isopropyltoluene	12.89	119	23336	2.52	ug/l	90
87) 1,3-Dichlorobenzene	12.84	146	14584	2.64	ug/l	95
88) 1,4-Dichlorobenzene	12.93	146	15023	2.74	ug/l	96
89) n-Butylbenzene	13.19	91	25151	2.69	ug/l	98
90) Hexachloroethane	13.40	117	4485	1.93	ug/l	76
91) 1,2-Dichlorobenzene	13.19	146	12208	2.69	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.77	75	713	1.83	ug/l	67
93) 1,2,4-Trichlorobenzene	14.34	180	10192	2.68	ug/l	92

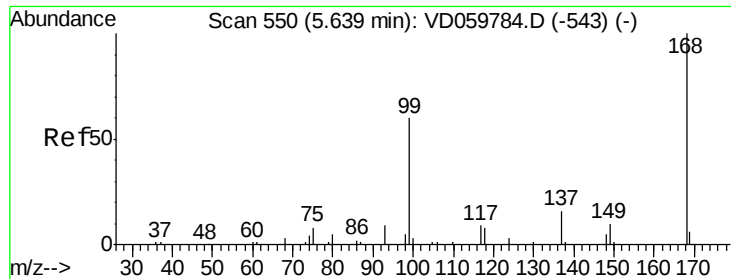
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.43	225	6843	2.44	ug/l	91
95) Naphthalene	14.52	128	13412	2.31	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.66	180	8079	2.41	ug/l	88

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

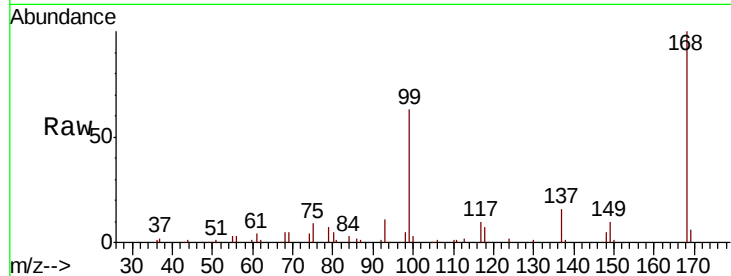
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:168 Resp: 288632

Ion Ratio Lower Upper

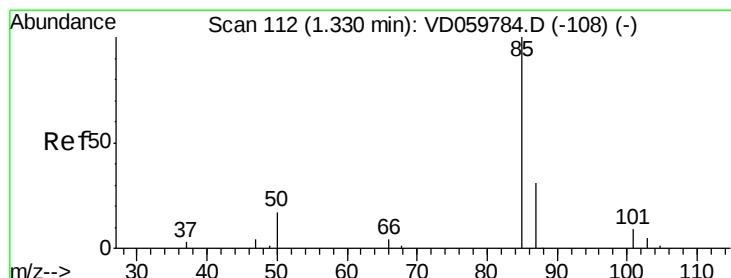
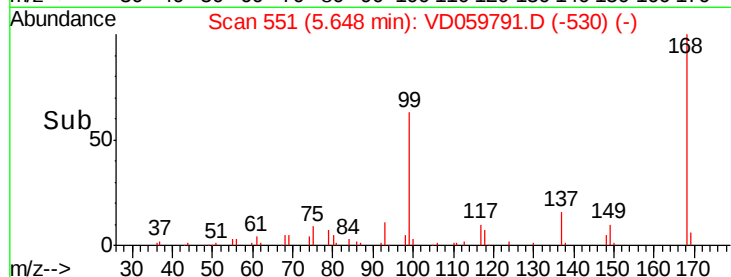
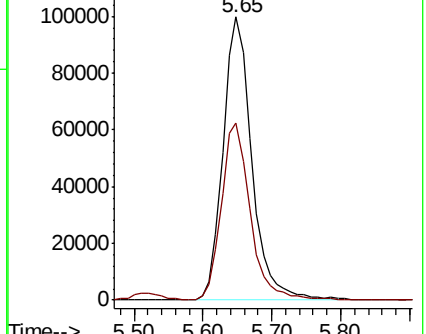
168 100

99 62.7 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: 2.46 ug/l

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD059791.D

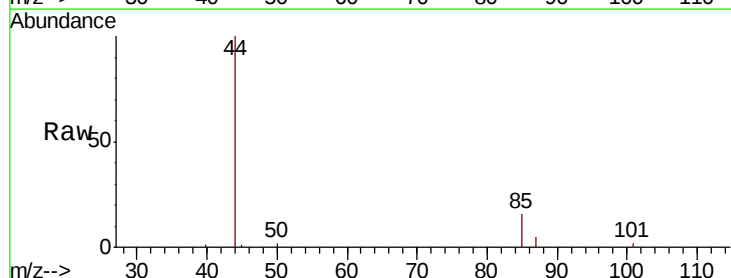
Acq: 15 Aug 2018 5:05

Tgt Ion: 85 Resp: 8641

Ion Ratio Lower Upper

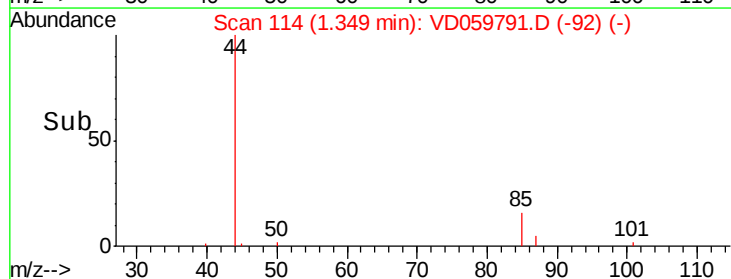
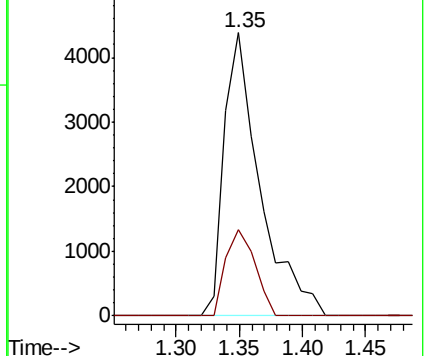
85 100

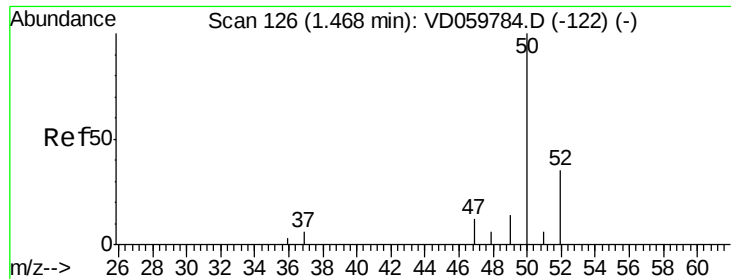
87 30.3 15.7 47.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 2.34 ug/l

RT: 1.49 min Scan# 128

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

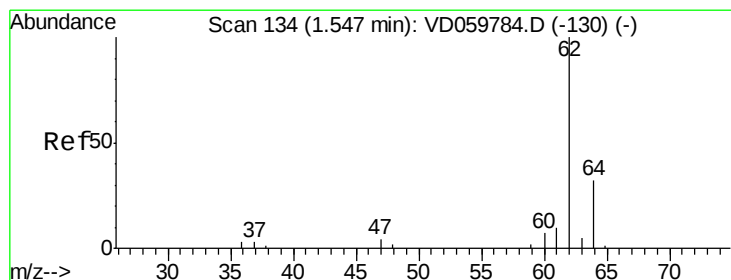
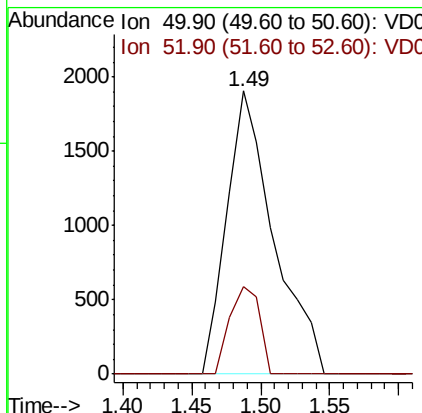
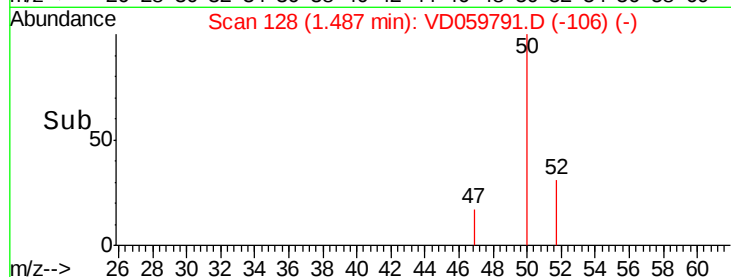
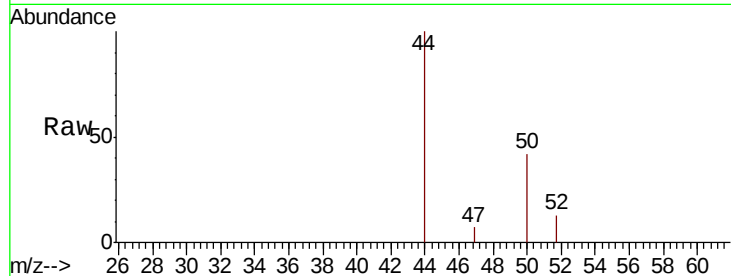
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 50 Resp: 4514

Ion Ratio Lower Upper

50 100

52 31.0 28.4 42.6



#4

Vinyl Chloride

Concen: 2.10 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.02 min

Lab File: VD059791.D

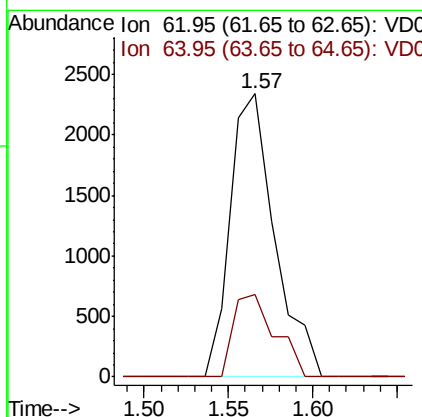
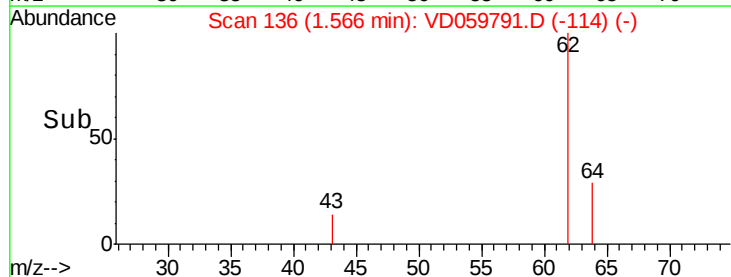
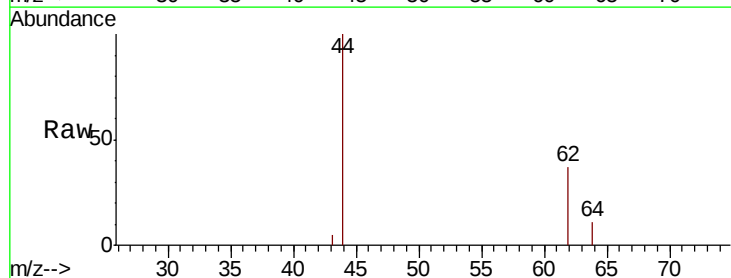
Acq: 15 Aug 2018 5:05

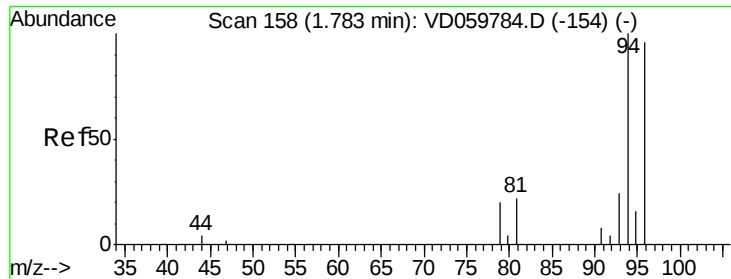
Tgt Ion: 62 Resp: 4289

Ion Ratio Lower Upper

62 100

64 29.0 25.5 38.3





#5

Bromomethane

Concen: 3.07 ug/l

RT: 1.80 min Scan# 160

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

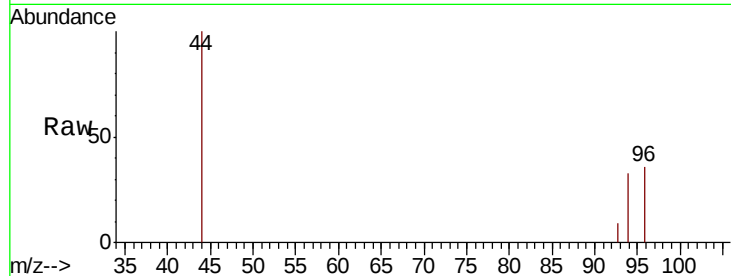
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 94 Resp: 1996

Ion Ratio Lower Upper

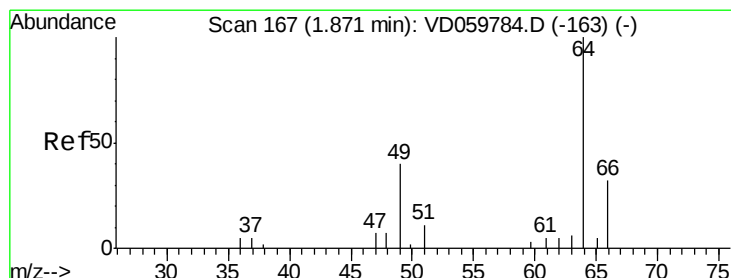
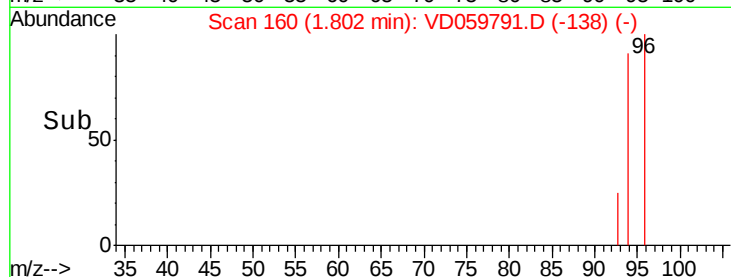
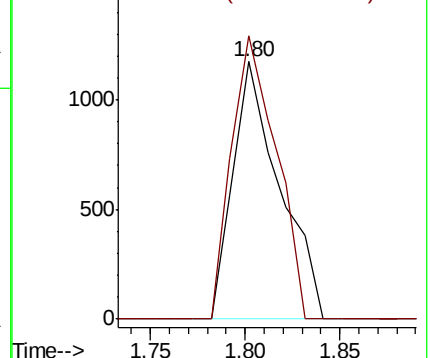
94 100

96 110.0 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: 2.30 ug/l

RT: 1.90 min Scan# 170

Delta R.T. 0.03 min

Lab File: VD059791.D

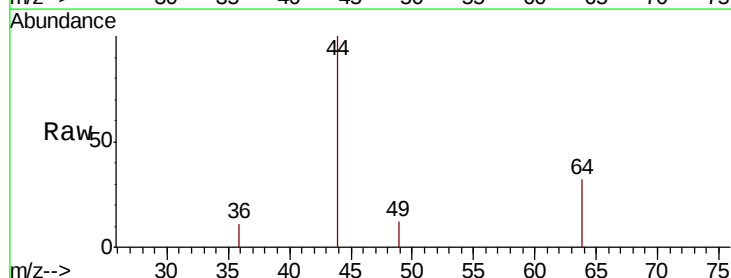
Acq: 15 Aug 2018 5:05

Tgt Ion: 64 Resp: 1961

Ion Ratio Lower Upper

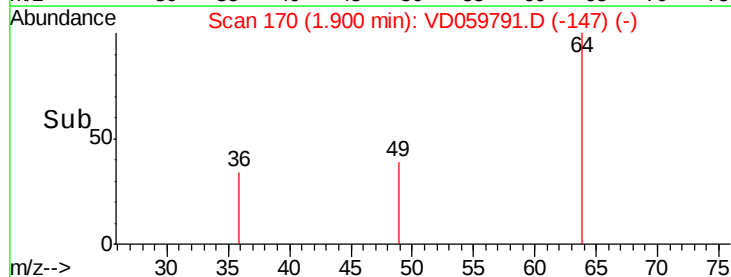
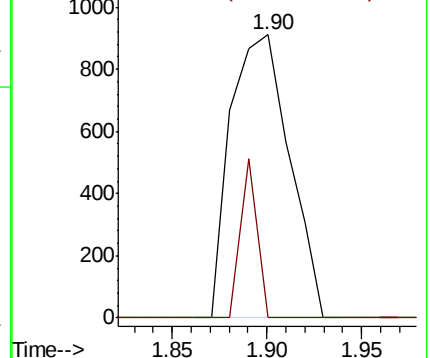
64 100

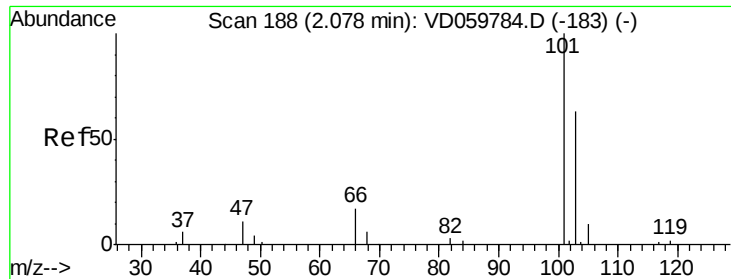
66 0.0 25.4 38.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 2.07 ug/l

RT: 2.10 min Scan# 190

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

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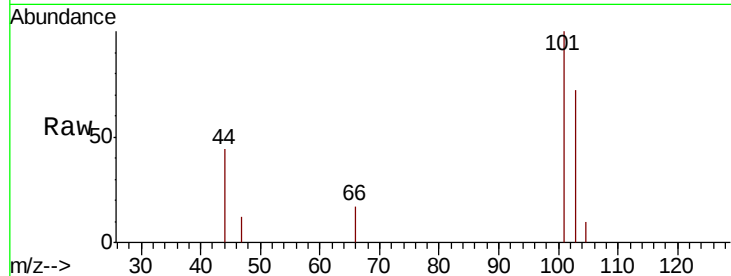
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:101 Resp: 6651

Ion Ratio Lower Upper

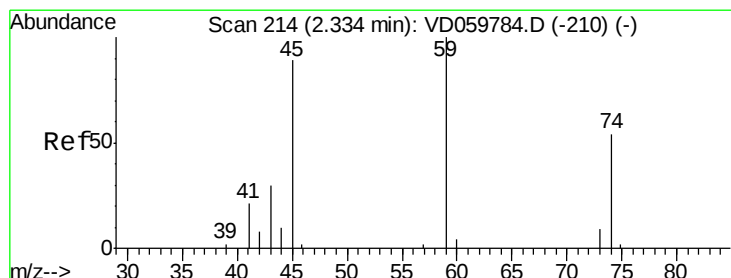
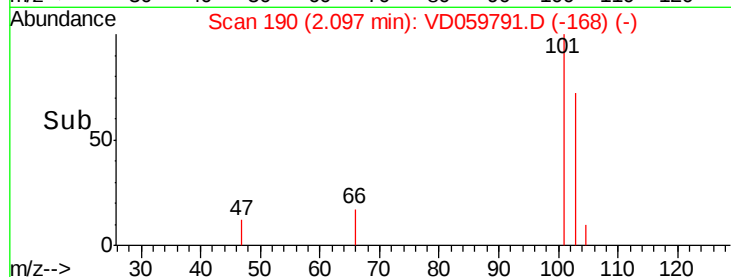
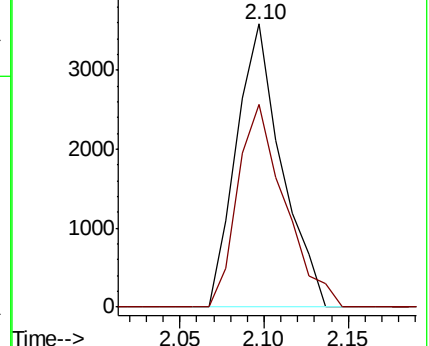
101 100

103 71.8 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: 1.45 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.02 min

Lab File: VD059791.D

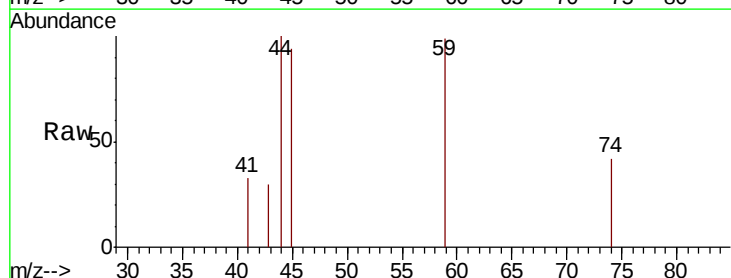
Acq: 15 Aug 2018 5:05

Tgt Ion: 74 Resp: 897

Ion Ratio Lower Upper

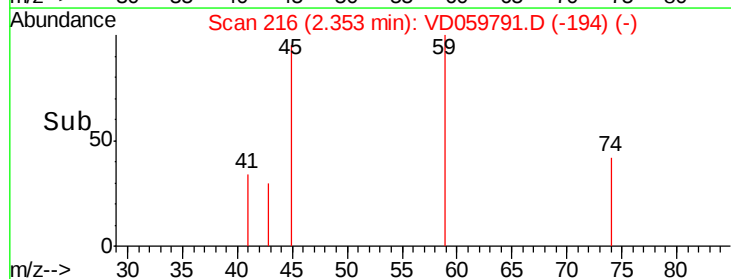
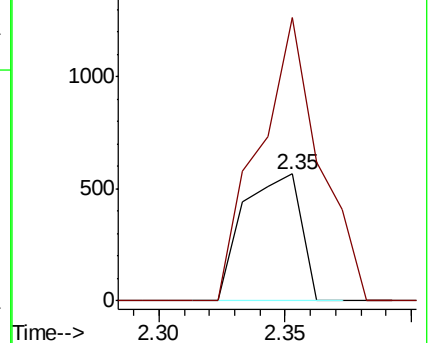
74 100

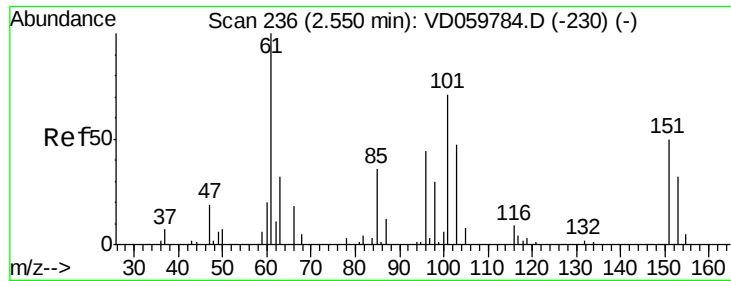
45 223.5 81.6 244.8



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: 2.16 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

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ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

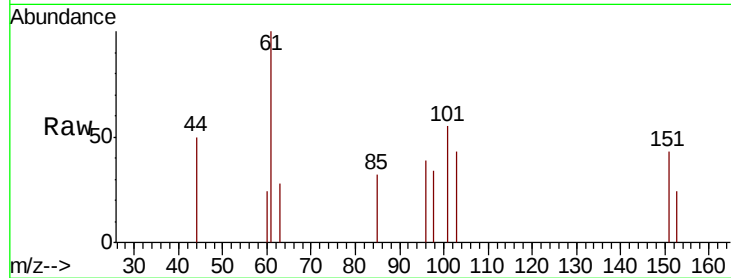
Tot Ion:101 Resp: 3891

Ion Ratio Lower Upper

101 100

85 58.3 40.6 61.0

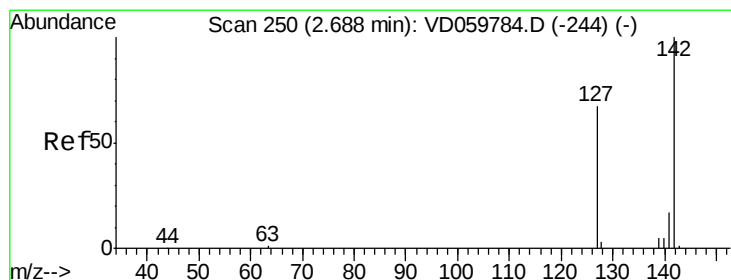
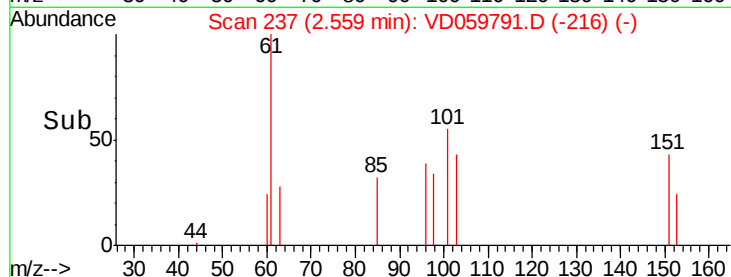
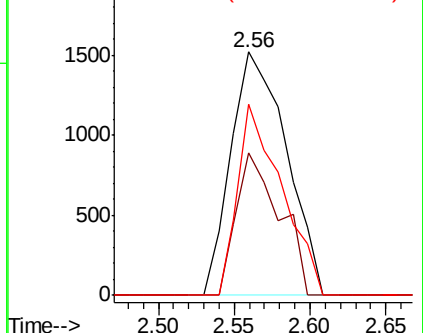
151 78.7 57.1 85.7



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: 4.64 ug/l

RT: 2.70 min Scan# 251

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

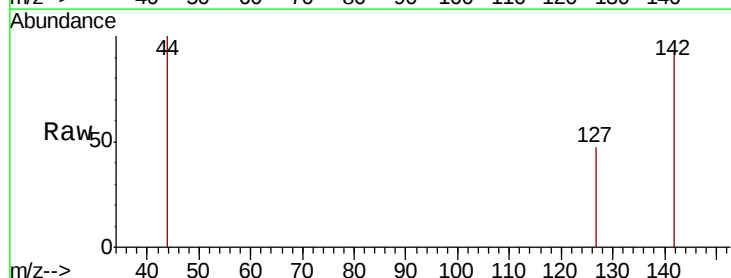
Tgt Ion:142 Resp: 3459

Ion Ratio Lower Upper

142 100

127 51.4 54.0 81.0#

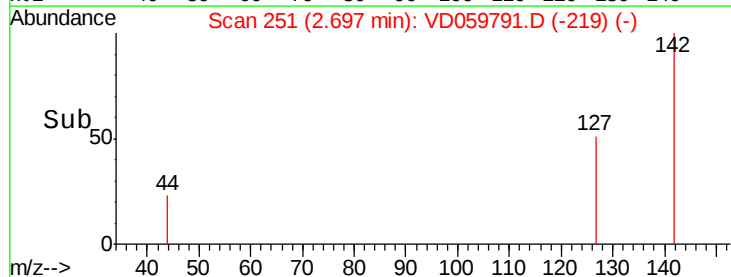
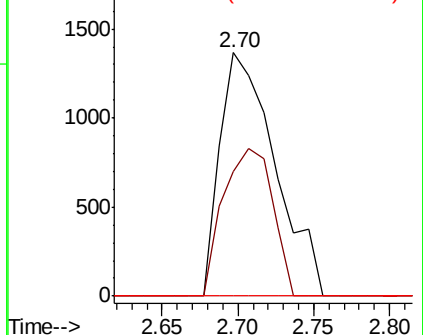
141 0.0 13.3 19.9#

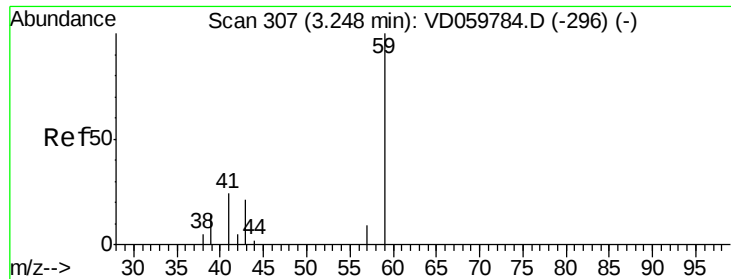


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

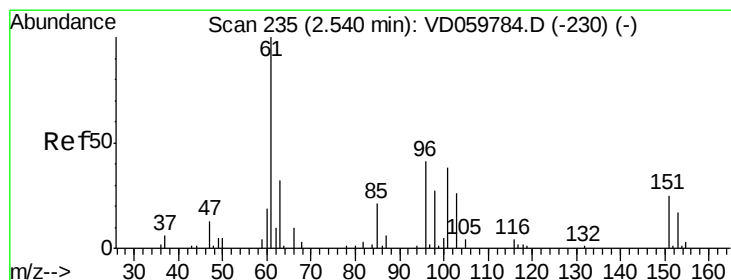
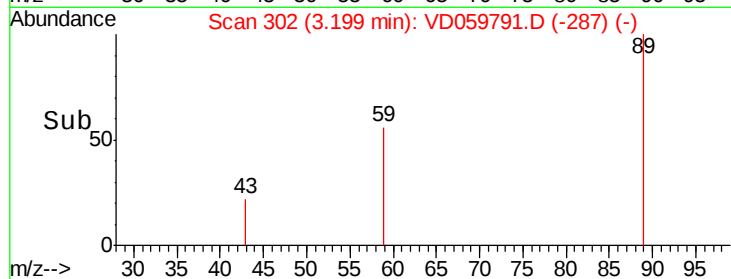
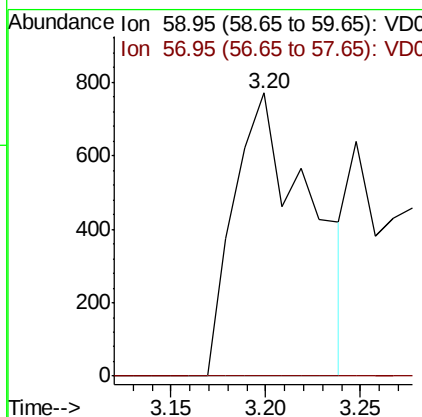
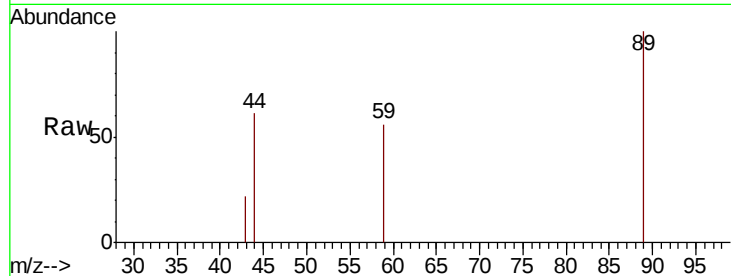




#11
Tert butyl alcohol
Concen: 16.39 ug/l
RT: 3.20 min Scan# 302
Delta R.T. -0.05 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

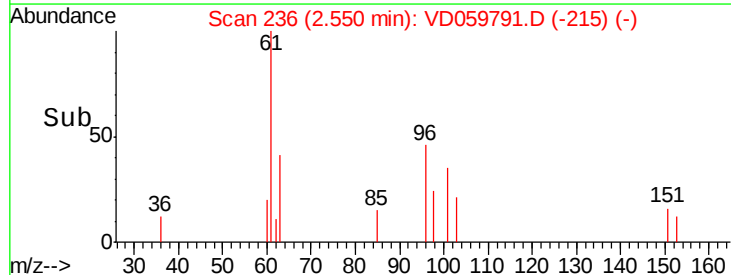
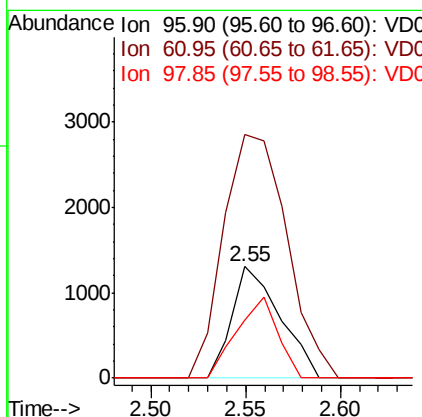
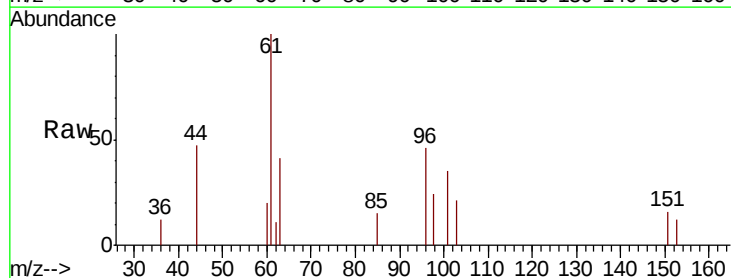
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

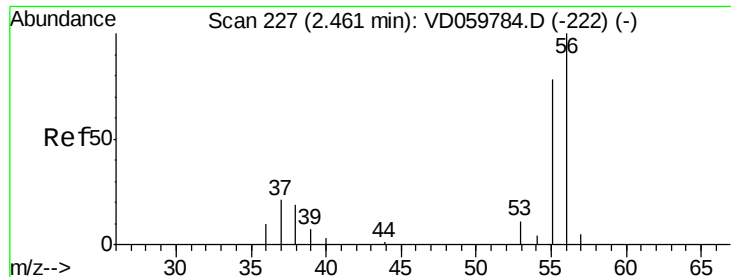
Tot Ion: 59 Resp: 2150
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#12
1,1-Dichloroethene
Concen: 1.76 ug/l
RT: 2.55 min Scan# 236
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 96 Resp: 2286
Ion Ratio Lower Upper
96 100
61 218.5 194.1 291.1
98 51.9 52.3 78.5#





#13

Acrolein

Concen: 25.79 ug/l

RT: 2.48 min Scan# 229

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

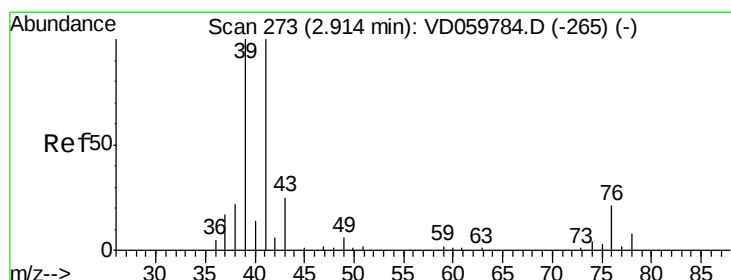
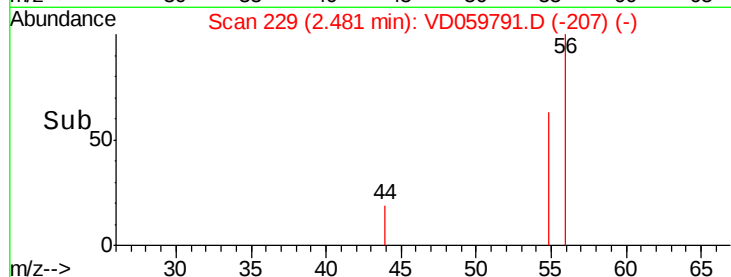
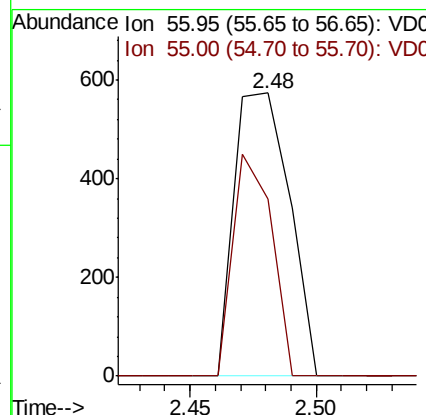
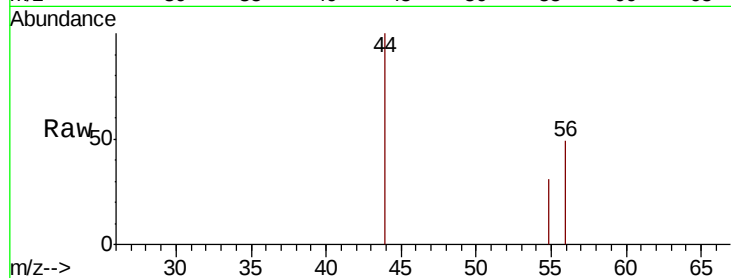
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 56 Resp: 873

Ion Ratio Lower Upper

56 100

55 62.8 62.2 93.2



#14

Allyl chloride

Concen: 2.19 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

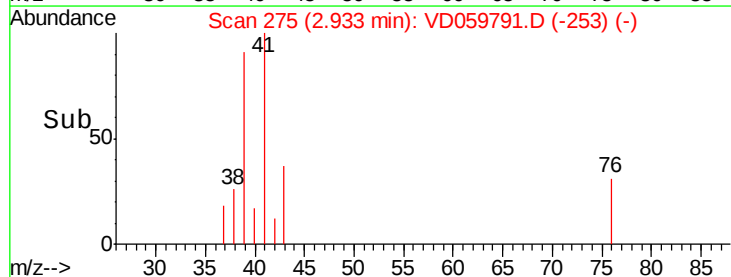
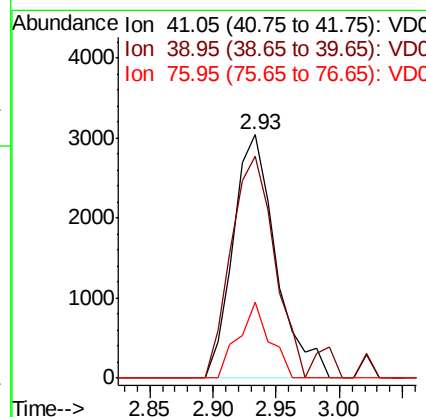
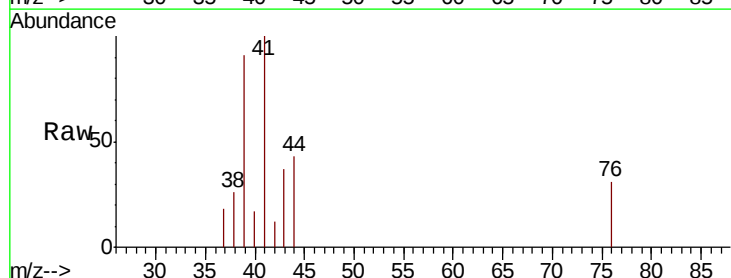
Tgt Ion: 41 Resp: 7174

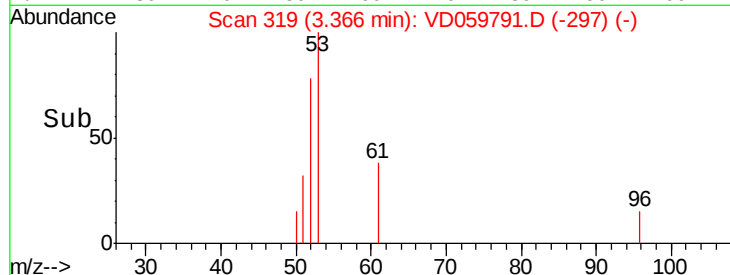
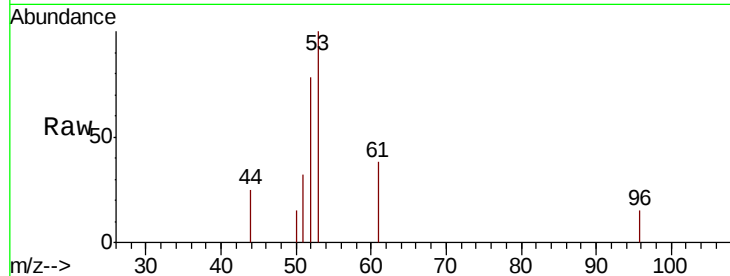
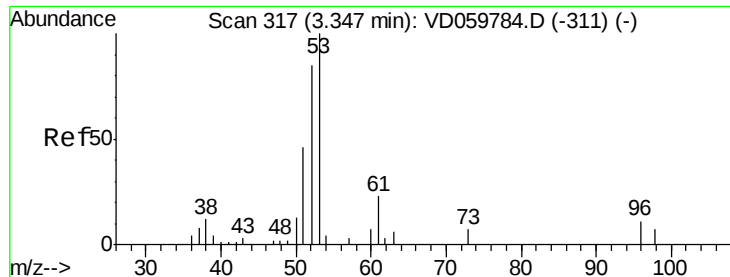
Ion Ratio Lower Upper

41 100

39 91.0 79.8 119.6

76 31.0 20.4 30.6#





#15

Acrylonitrile

Concen: 12.54 ug/l

RT: 3.37 min Scan# 319

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

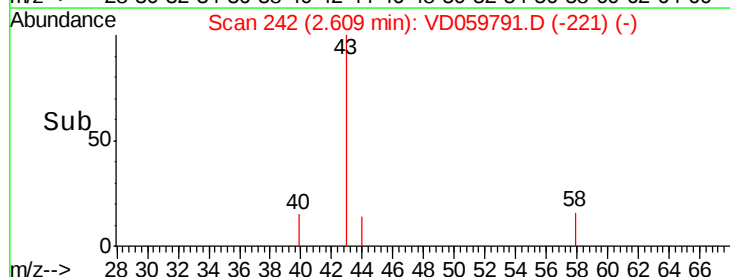
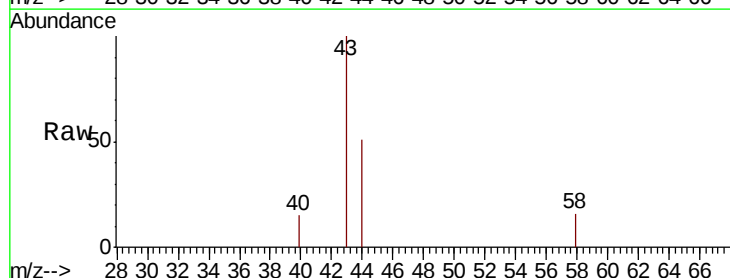
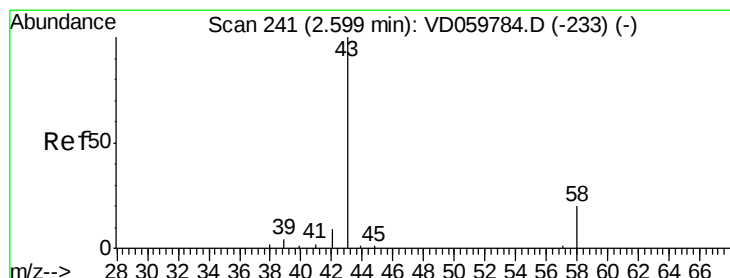
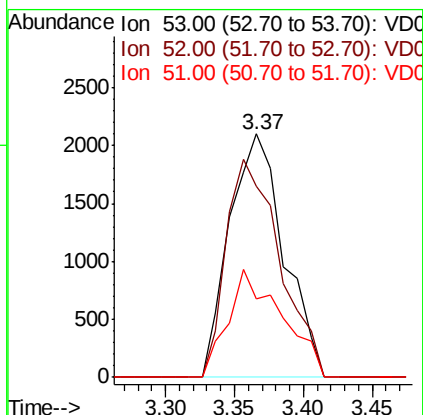
Tot Ion: 53 Resp: 5764

Ion Ratio Lower Upper

53 100

52 78.3 68.2 102.2

51 32.1 36.6 54.8#



#16

Acetone

Concen: 12.22 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD059791.D

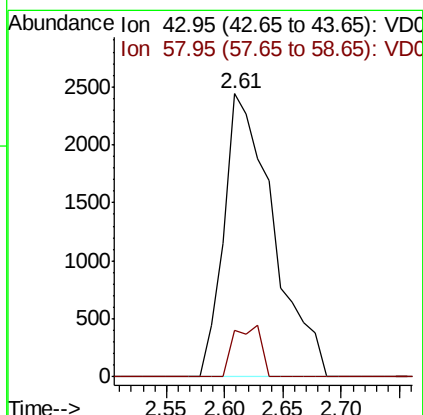
Acq: 15 Aug 2018 5:05

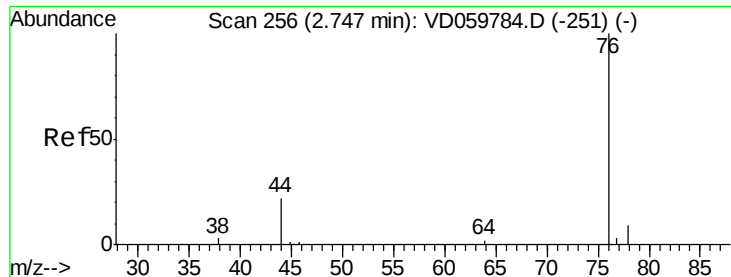
Tgt Ion: 43 Resp: 7153

Ion Ratio Lower Upper

43 100

58 16.4 15.7 23.5





#17

Carbon Disulfide

Concen: 2.13 ug/l

RT: 2.77 min Scan# 258

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

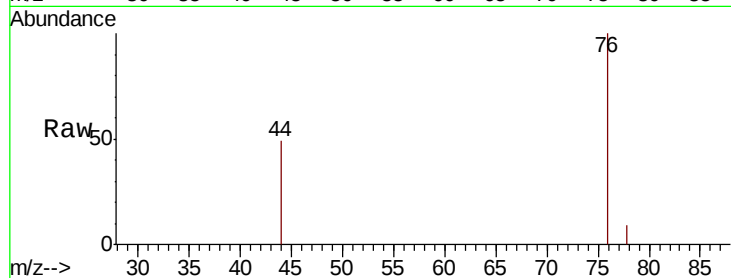
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 76 Resp: 9286

Ion Ratio Lower Upper

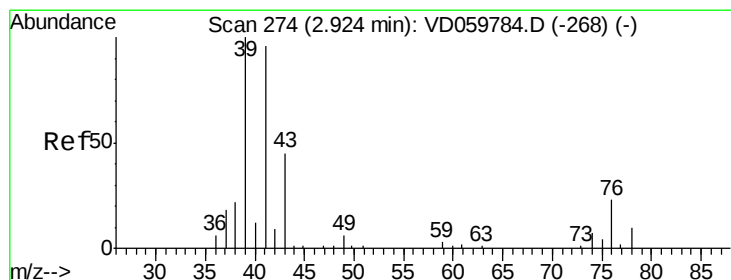
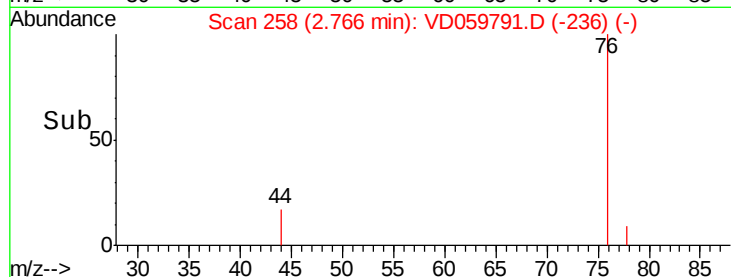
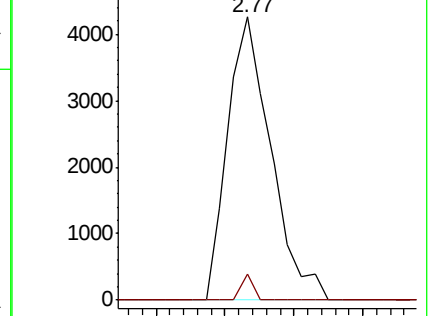
76 100

78 9.0 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: 2.62 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.02 min

Lab File: VD059791.D

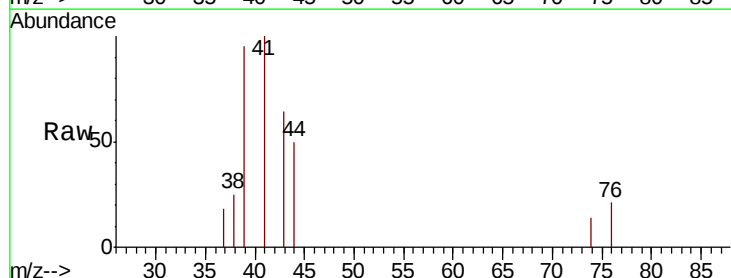
Acq: 15 Aug 2018 5:05

Tgt Ion: 43 Resp: 3275

Ion Ratio Lower Upper

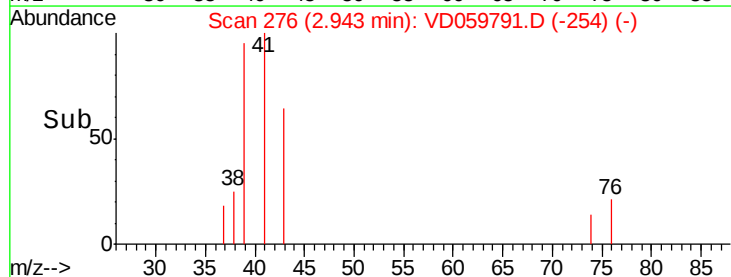
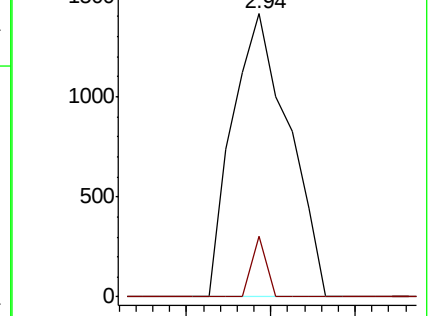
43 100

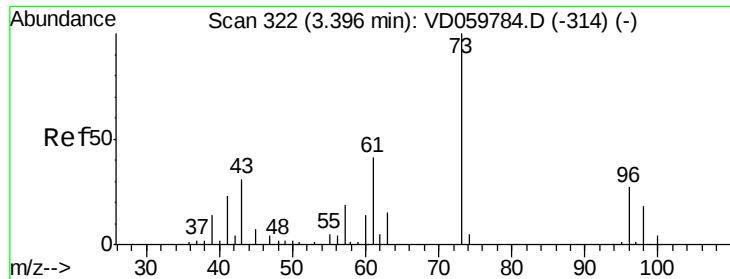
74 21.5 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

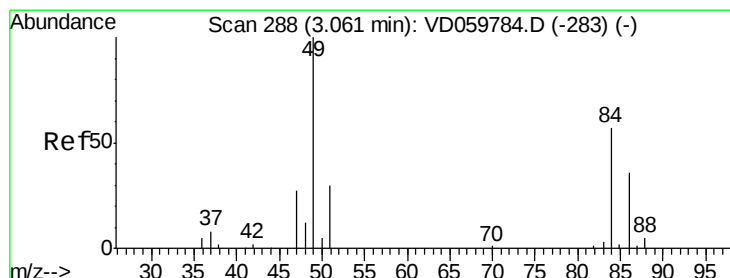
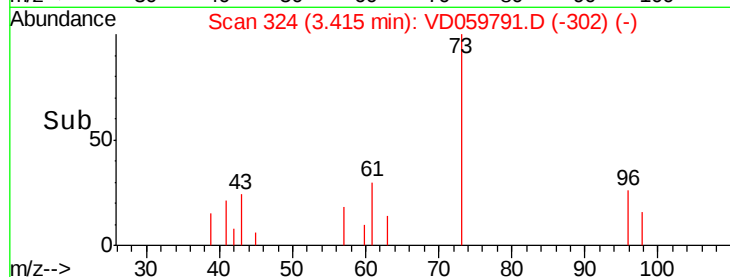
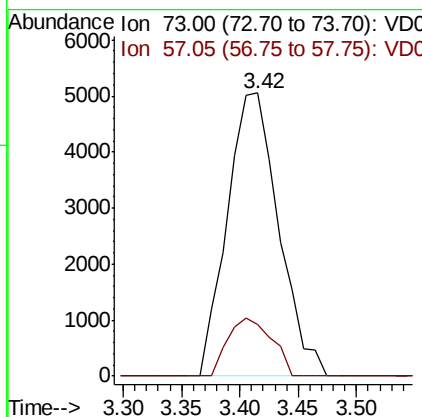
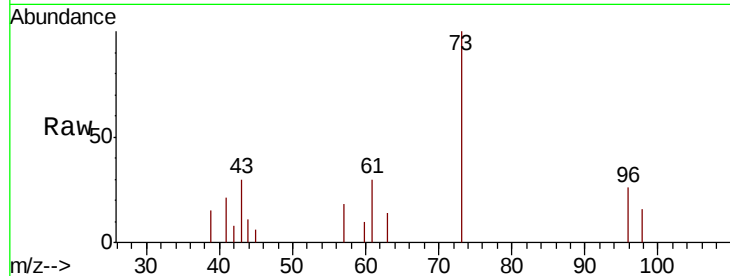




#19
Methyl tert-butyl Ether
Concen: 2.43 ug/l
RT: 3.42 min Scan# 324
Delta R.T. 0.02 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

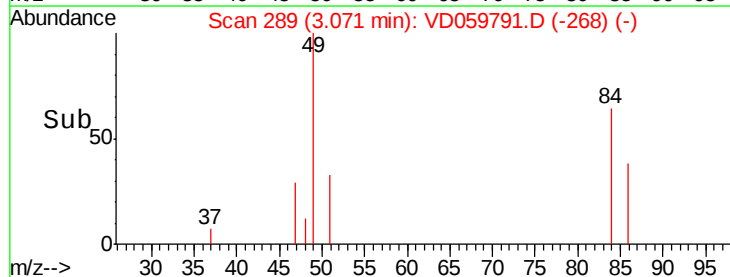
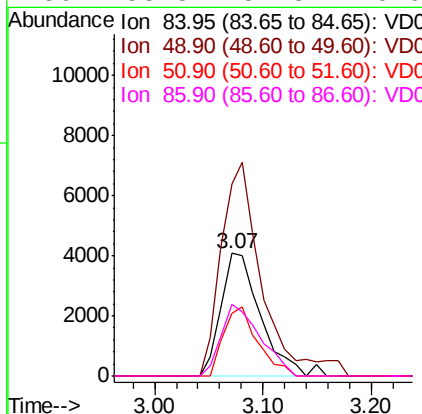
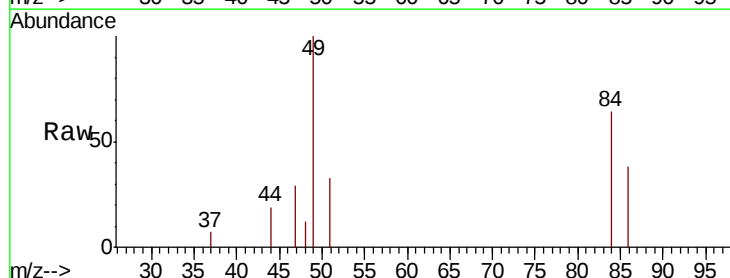
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

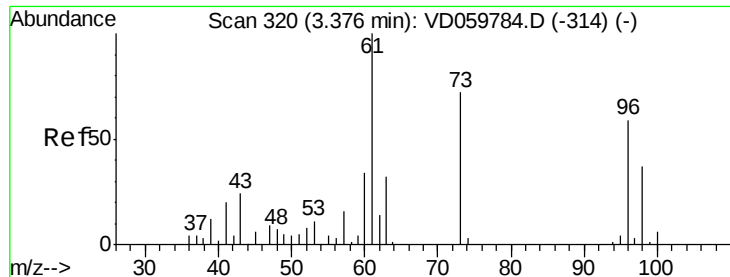
Tot Ion: 73 Resp: 15423
Ion Ratio Lower Upper
73 100
57 18.2 14.8 22.2



#20
Methylene Chloride
Concen: 3.70 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 84 Resp: 10419
Ion Ratio Lower Upper
84 100
49 156.5 140.9 211.3
51 51.0 42.8 64.2
86 58.8 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 2.43 ug/l

RT: 3.40 min Scan# 322

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

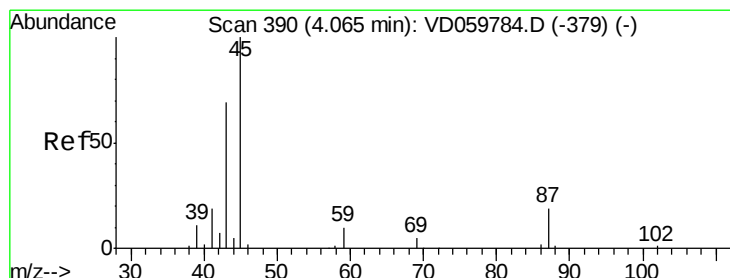
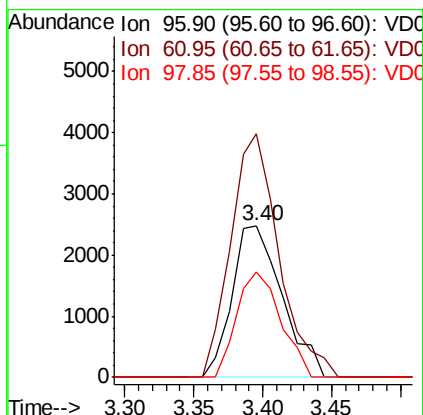
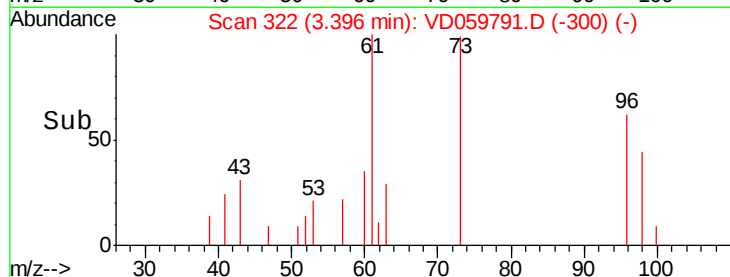
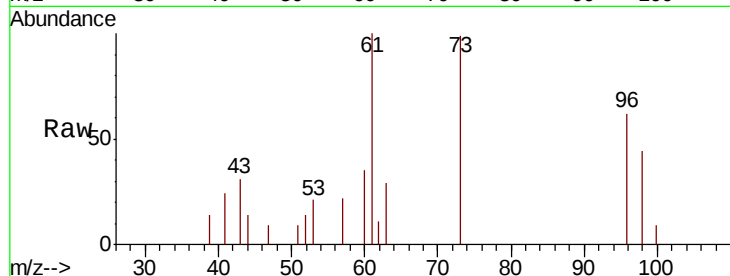
Tot Ion: 96 Resp: 6245

Ion Ratio Lower Upper

96 100

61 160.5 134.8 202.2

98 69.9 50.0 75.0



#22

Diisopropyl ether

Concen: 2.39 ug/l

RT: 4.07 min Scan# 391

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Tgt Ion: 45 Resp: 21065

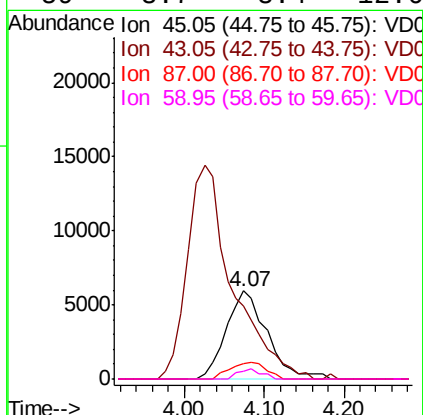
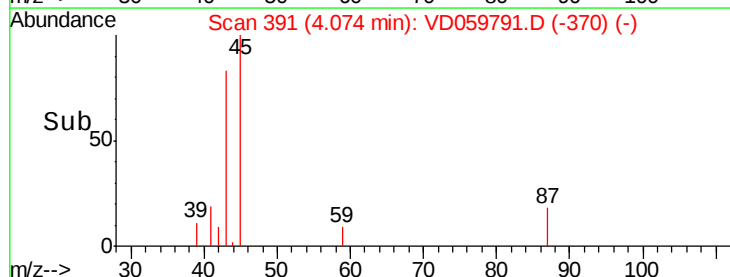
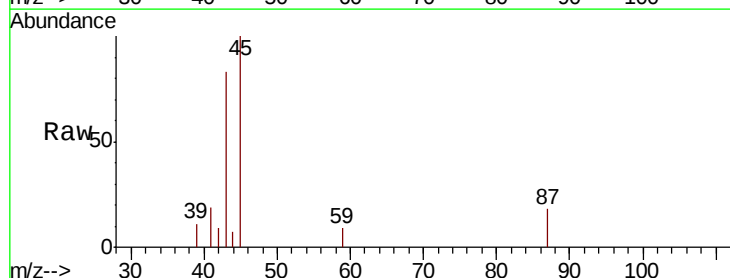
Ion Ratio Lower Upper

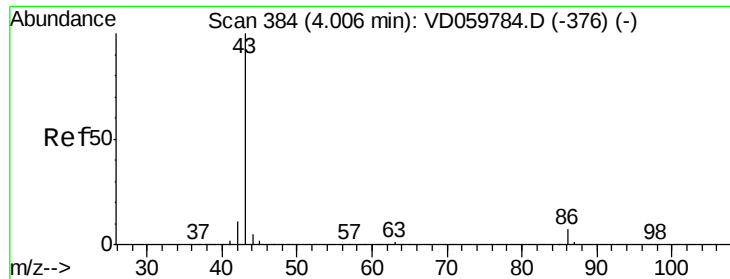
45 100

43 83.5 57.5 86.3

87 17.5 16.1 24.1

59 8.7 8.4 12.6

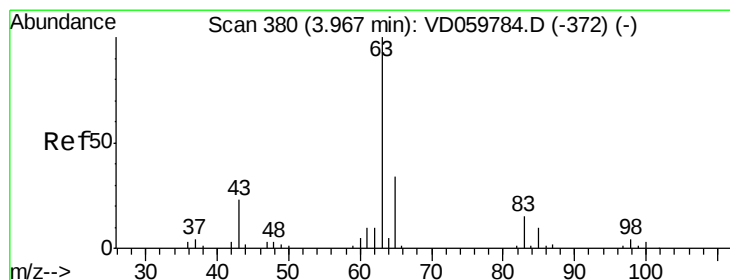
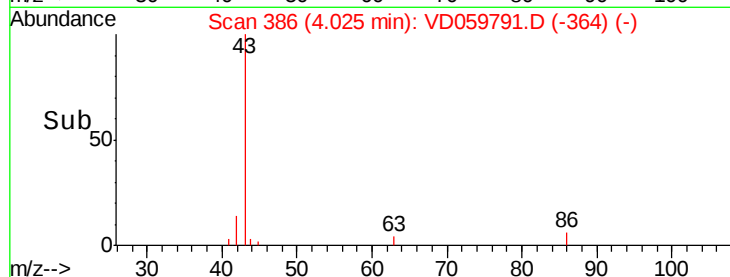
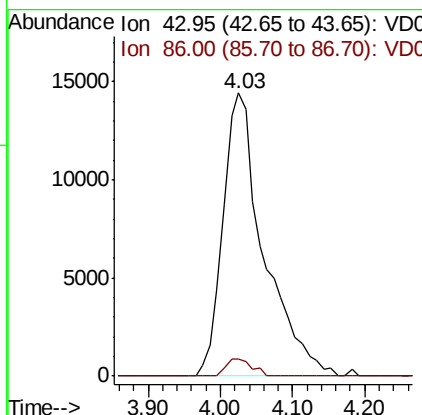
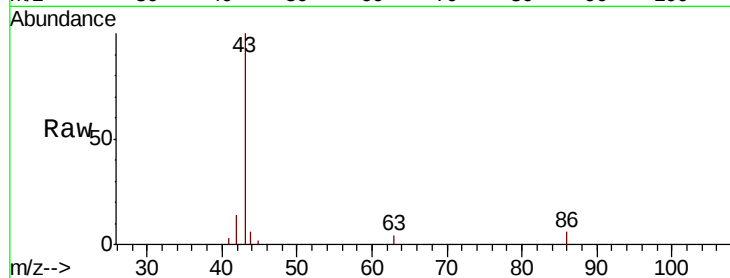




#23
 Vinyl Acetate
 Concen: 11.29 ug/l
 RT: 4.03 min Scan# 386
 Delta R.T. 0.02 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

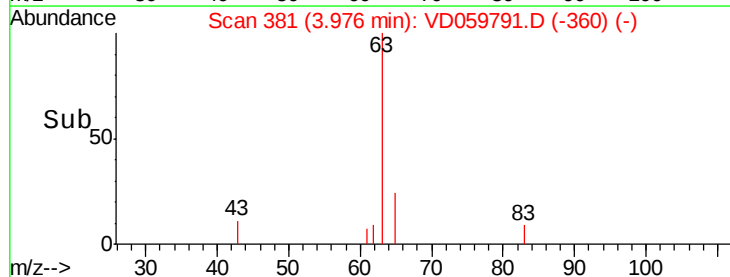
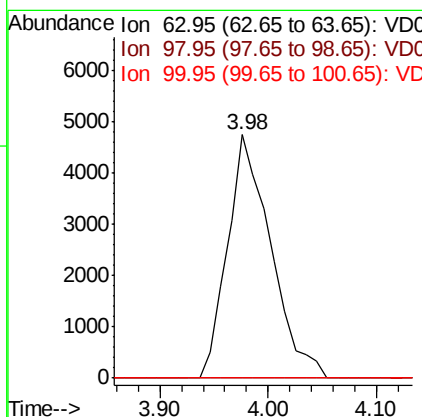
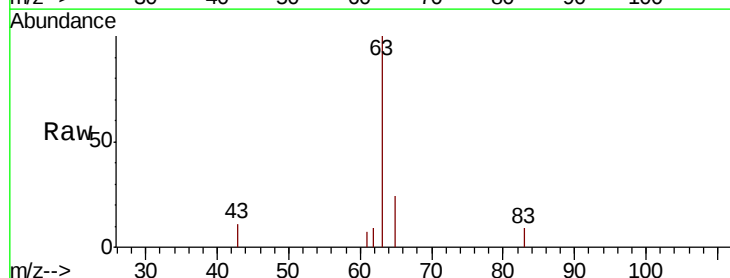
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

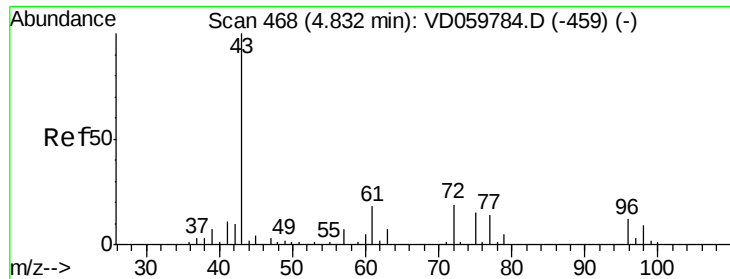
Tot Ion: 43 Resp: 56423
 Ion Ratio Lower Upper
 43 100
 86 6.1 5.4 8.0



#24
 1,1-Dichloroethane
 Concen: 2.51 ug/l
 RT: 3.98 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 63 Resp: 13159
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.2 6.6#
 100 0.0 1.6 4.7#





#25

2-Butanone

Concen: 12.10 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

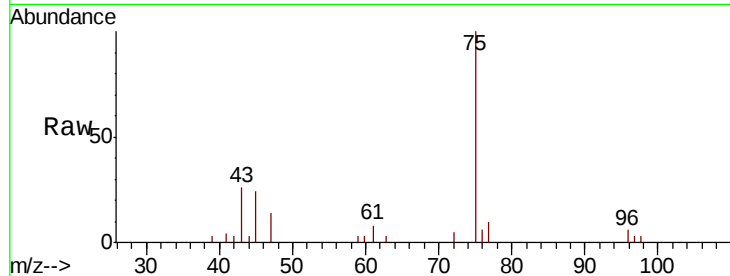
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 10837

Ion Ratio Lower Upper

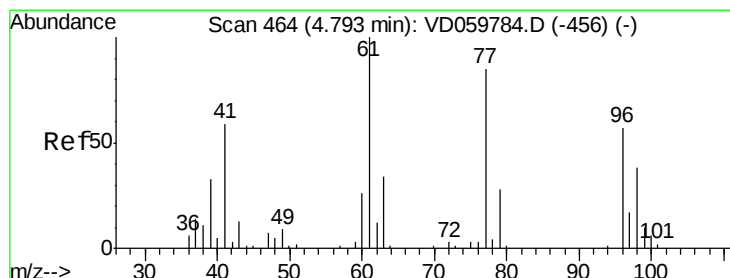
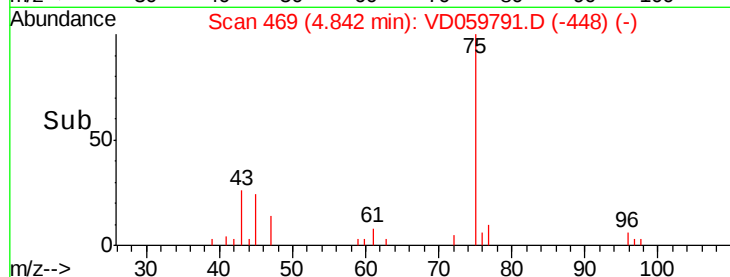
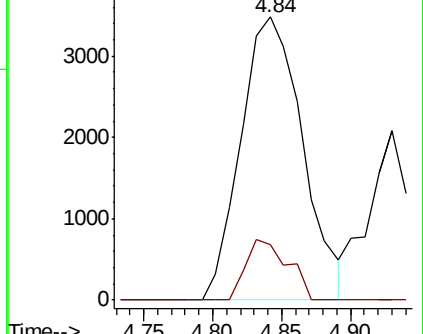
43 100

72 19.5 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: 2.30 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.01 min

Lab File: VD059791.D

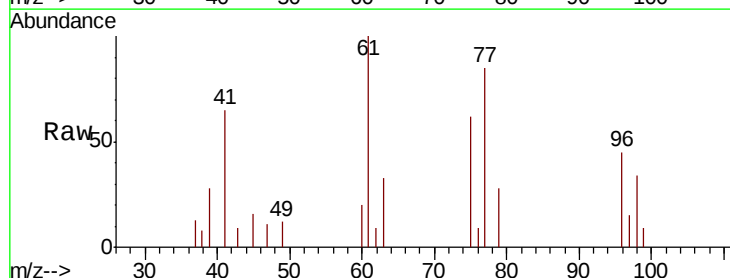
Acq: 15 Aug 2018 5:05

Tgt Ion: 77 Resp: 11024

Ion Ratio Lower Upper

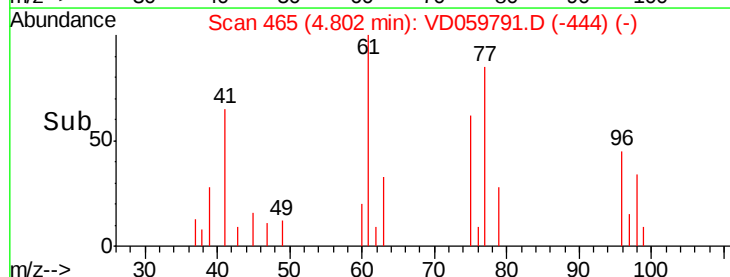
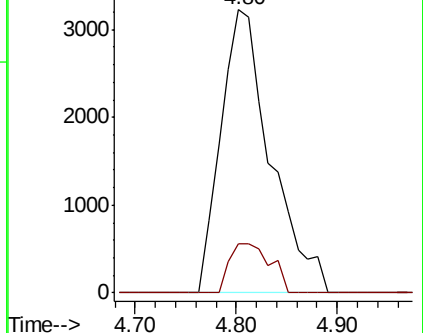
77 100

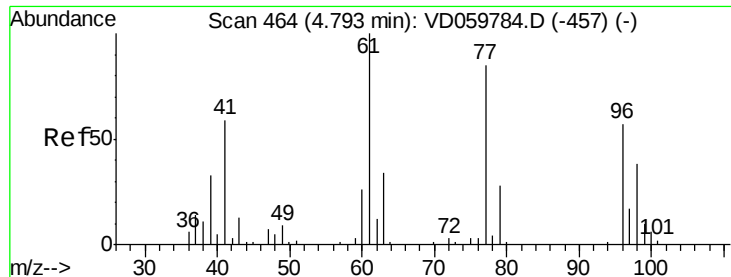
97 17.2 10.3 30.8



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: 2.24 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

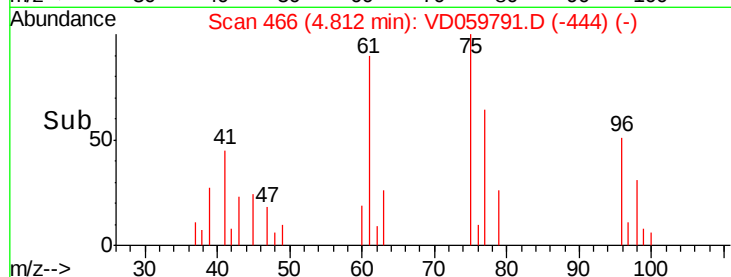
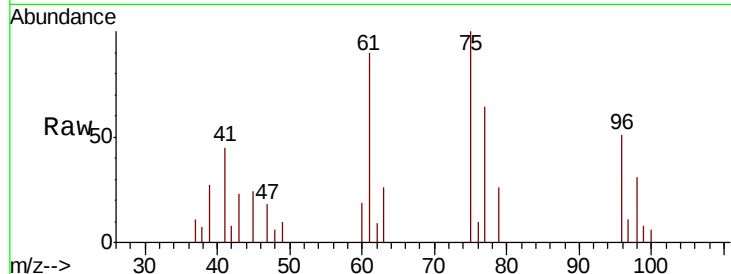
Tot Ion: 96 Resp: 6299

Ion Ratio Lower Upper

96 100

61 176.2 0.0 351.6

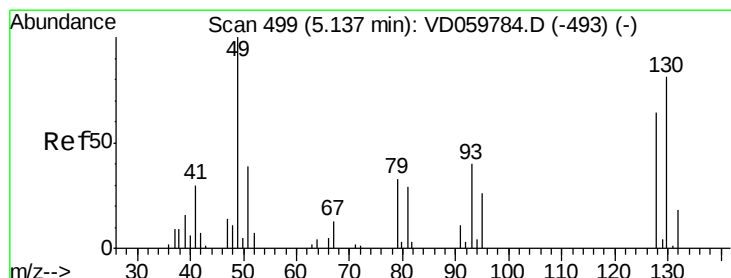
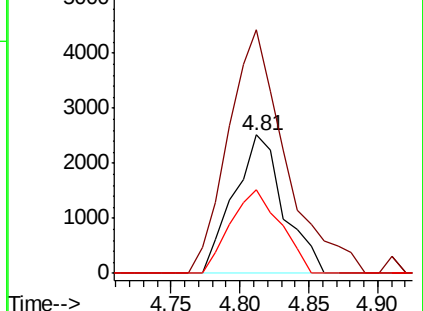
98 60.7 0.0 135.2



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: 1.84 ug/l

RT: 5.16 min Scan# 501

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

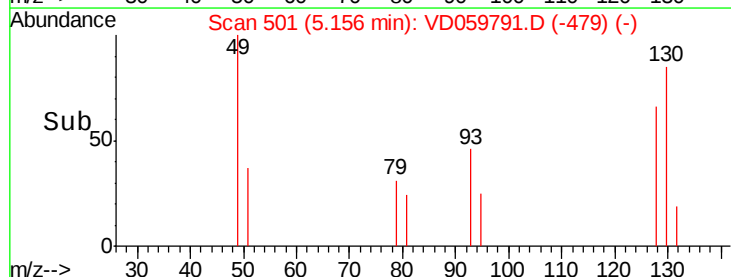
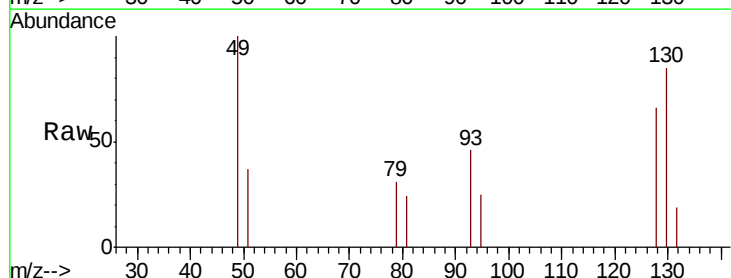
Tgt Ion: 49 Resp: 3771

Ion Ratio Lower Upper

49 100

129 0.0 0.0 7.0

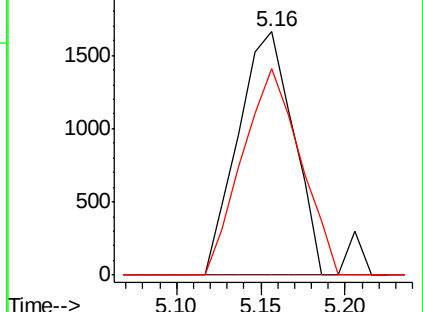
130 84.7 64.8 97.2

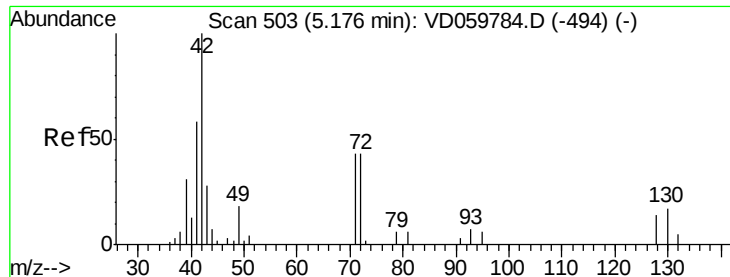


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 10.68 ug/l

RT: 5.19 min Scan# 504

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

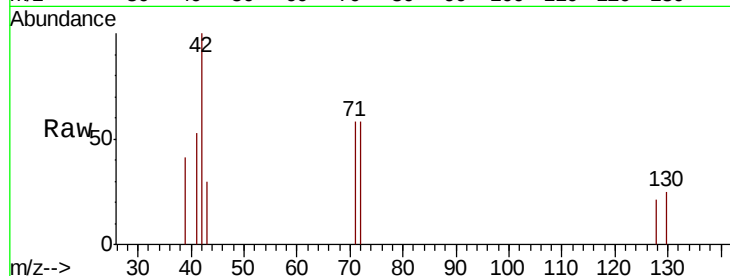
Tot Ion: 42 Resp: 4081

Ion Ratio Lower Upper

42 100

72 49.6 34.3 51.5

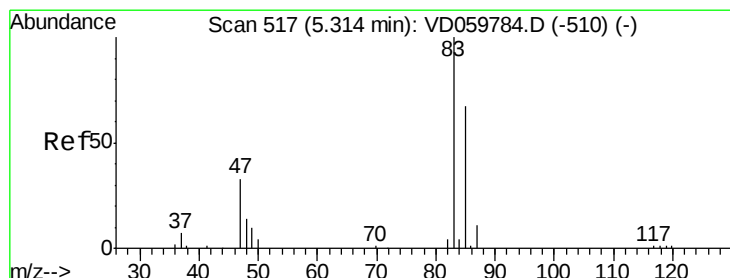
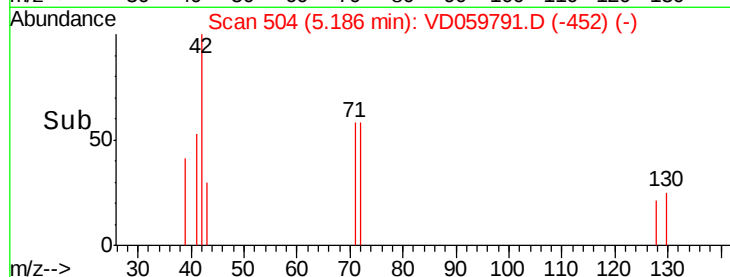
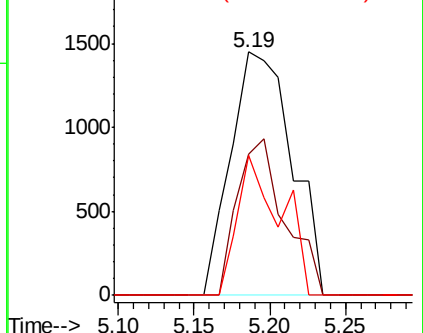
71 40.6 33.0 49.6



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: 2.31 ug/l

RT: 5.33 min Scan# 519

Delta R.T. 0.02 min

Lab File: VD059791.D

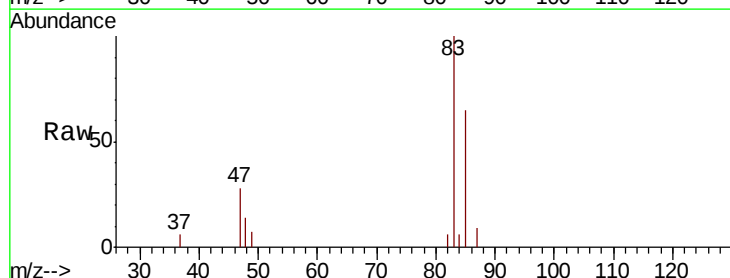
Acq: 15 Aug 2018 5:05

Tgt Ion: 83 Resp: 14553

Ion Ratio Lower Upper

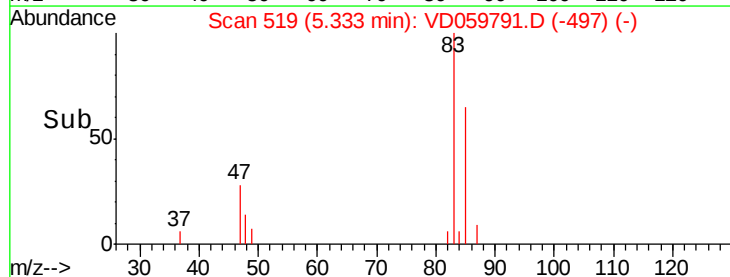
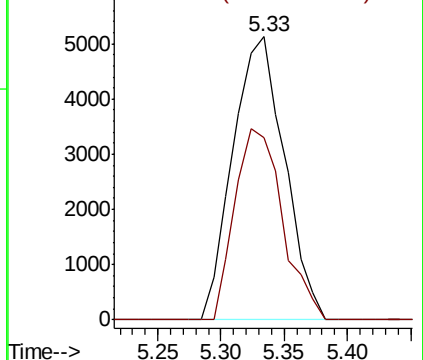
83 100

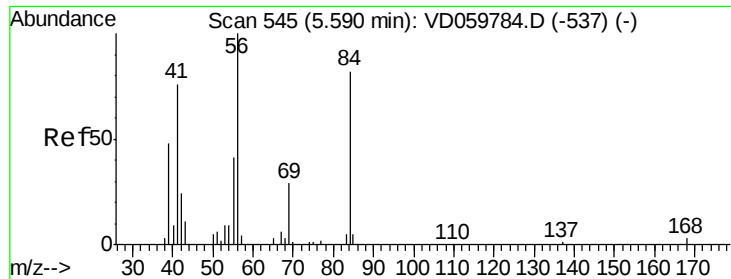
85 64.6 53.4 80.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

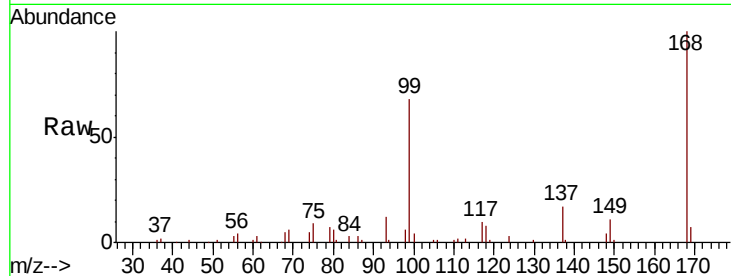




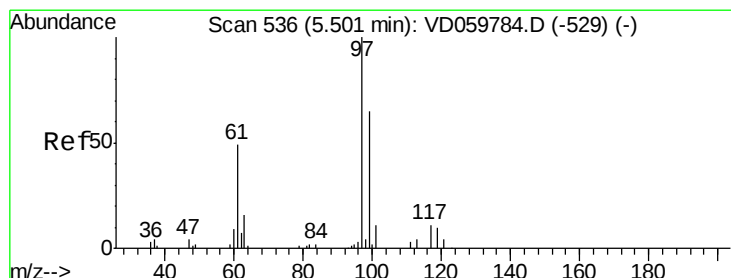
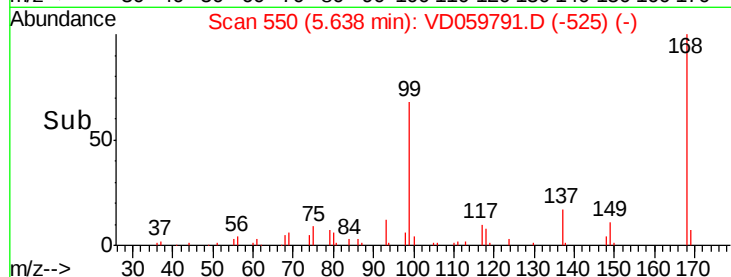
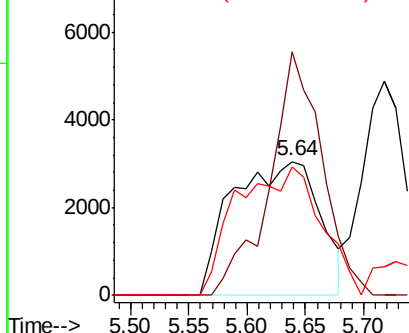
#31
Cyclohexane
Concen: 4.22 ug/l
RT: 5.64 min Scan# 550
Delta R.T. 0.05 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 56 Resp: 15896
Ion Ratio Lower Upper
56 100
69 182.1 23.4 35.2#
84 95.9 65.4 98.2

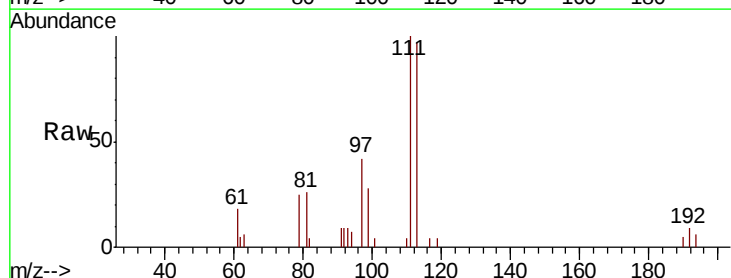


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

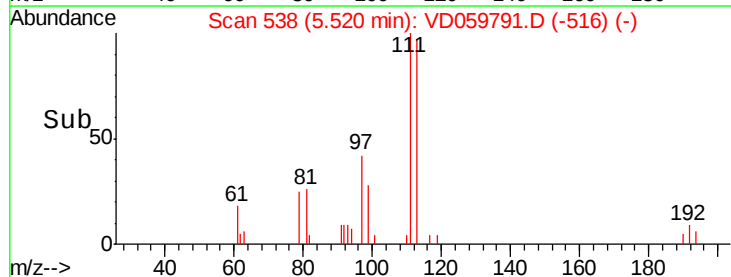
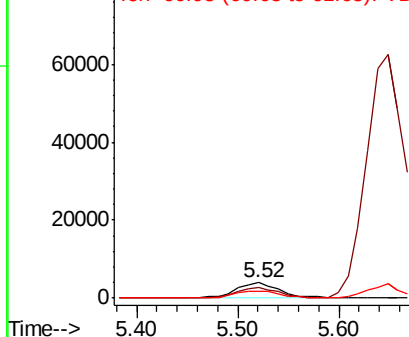


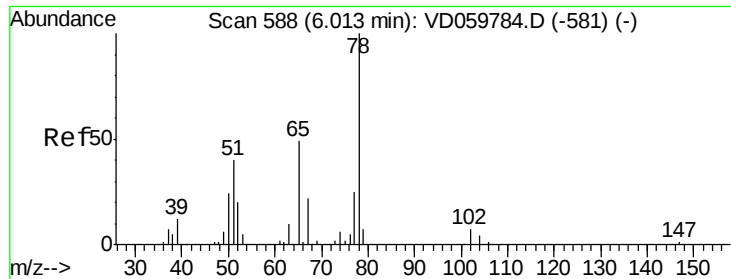
#32
1,1,1-Trichloroethane
Concen: 2.17 ug/l
RT: 5.52 min Scan# 538
Delta R.T. 0.02 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 97 Resp: 11986
Ion Ratio Lower Upper
97 100
99 66.0 52.2 78.2
61 42.1 39.6 59.4



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

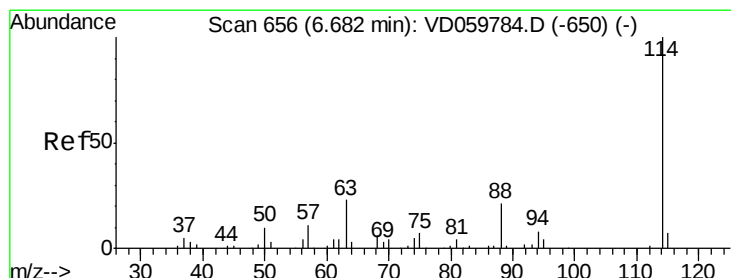
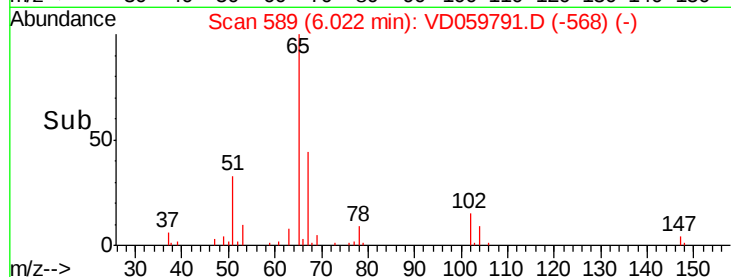
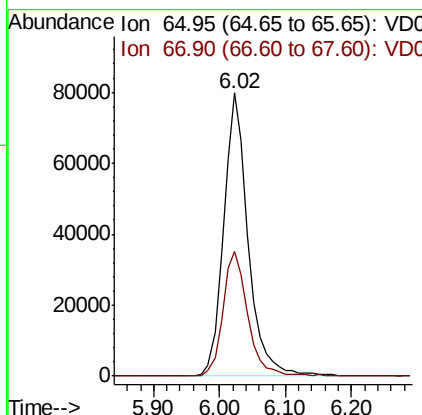
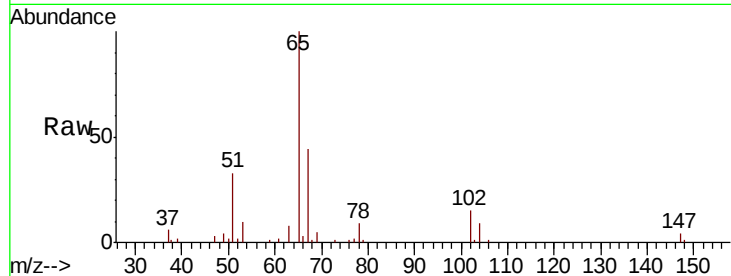




#33
 1,2-Dichloroethane-d4
 Concen: 2.17 ug/l
 RT: 6.02 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

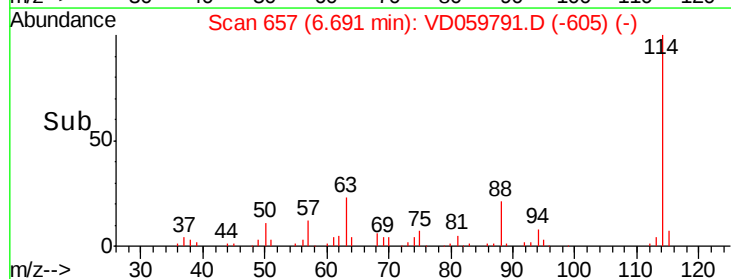
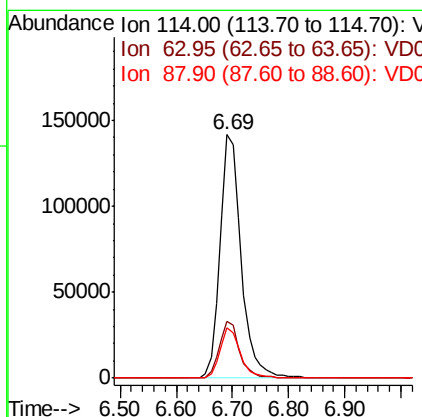
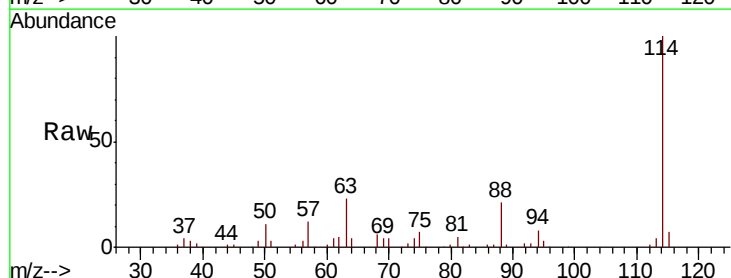
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

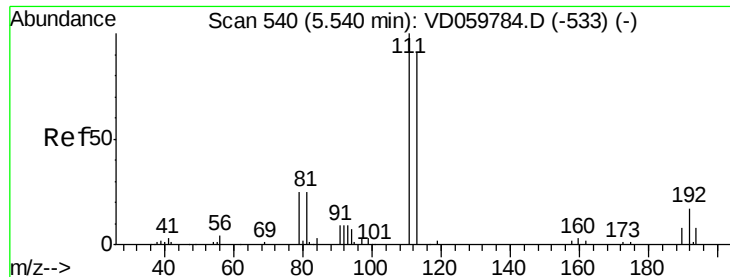
Tot Ion: 65 Resp: 206390
 Ion Ratio Lower Upper
 65 100
 67 43.8 0.0 87.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 114 Resp: 373852
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.0
 88 20.9 0.0 41.2

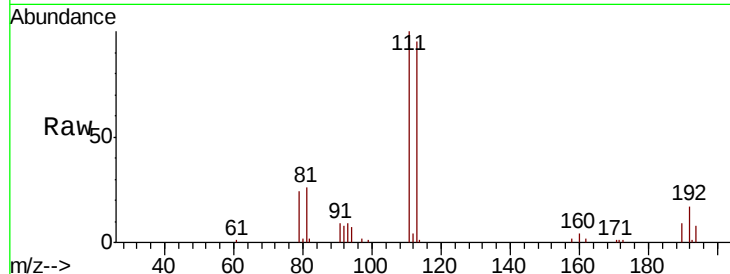




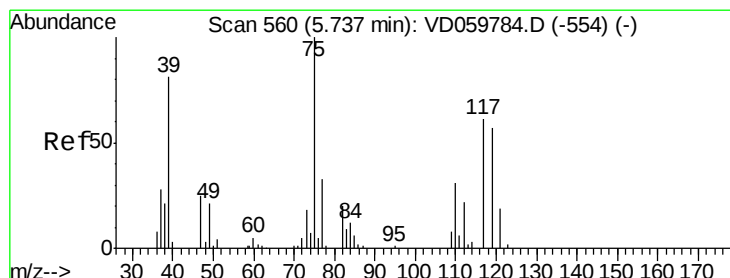
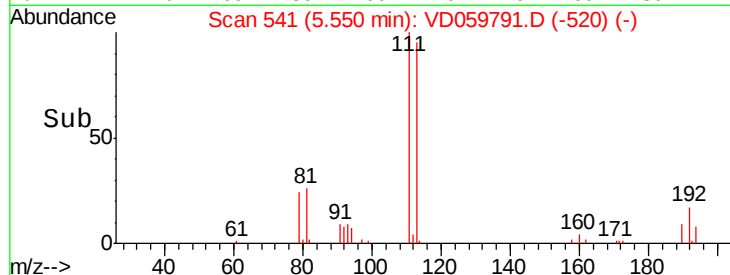
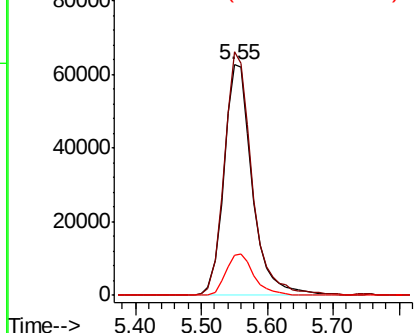
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion:113 Resp: 186872
 Ion Ratio Lower Upper
 113 100
 111 105.5 87.7 131.5
 192 17.5 14.6 21.8

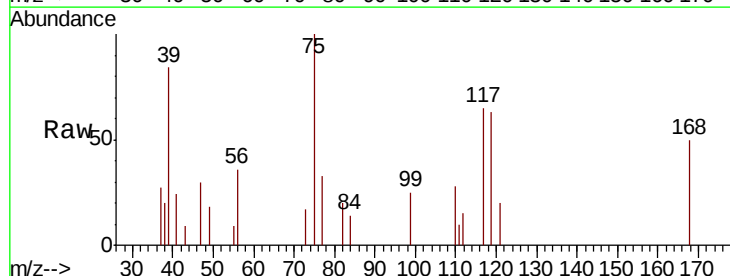


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

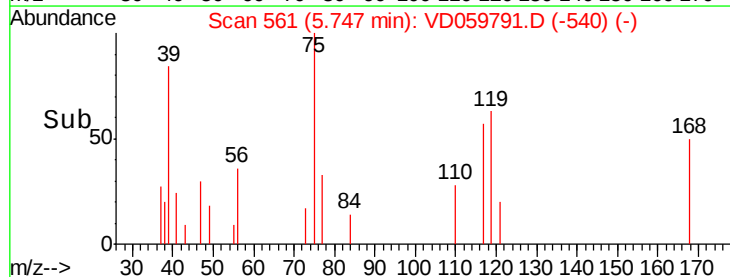
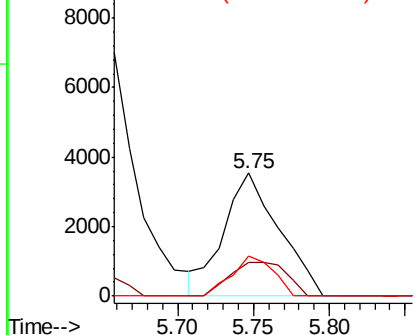


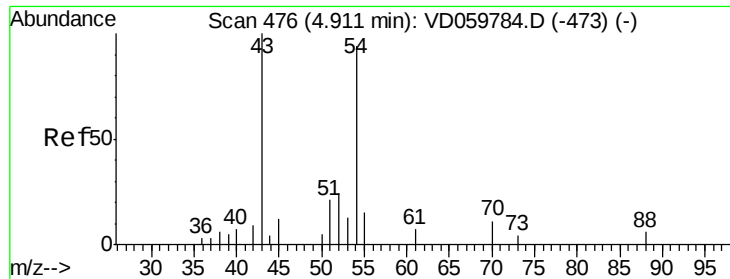
#36
 1,1-Dichloropropene
 Concen: 2.34 ug/l
 RT: 5.75 min Scan# 561
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 75 Resp: 8980
 Ion Ratio Lower Upper
 75 100
 110 27.7 15.3 45.8
 77 33.0 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC

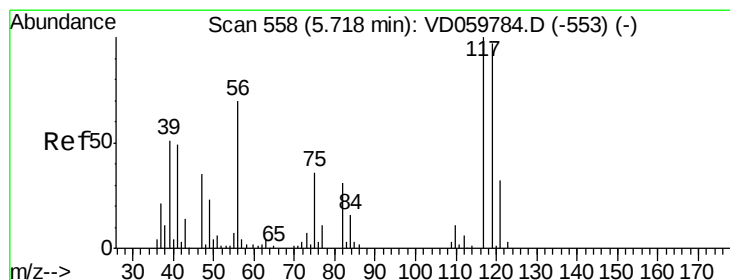
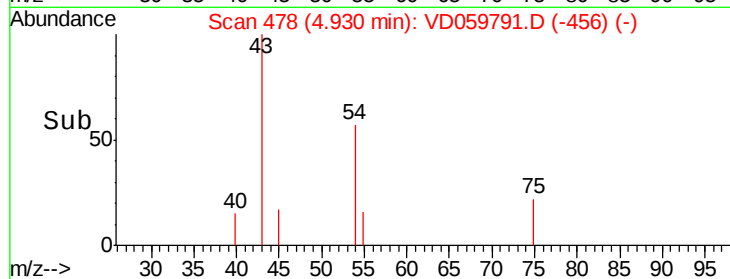
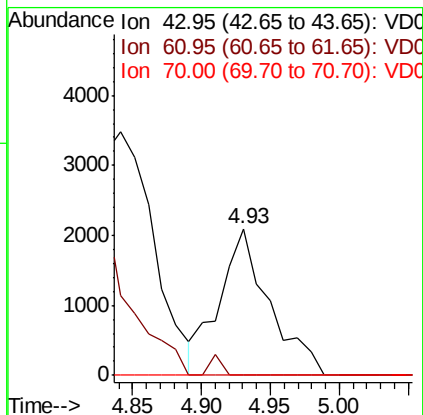
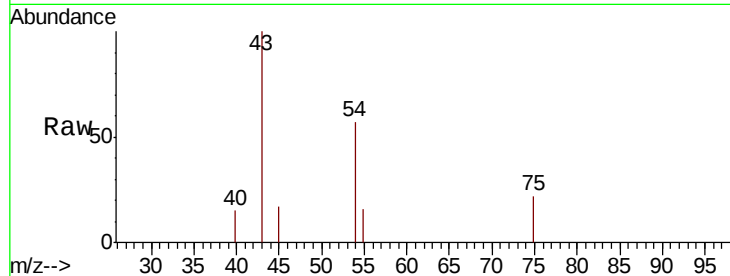




#37
Ethyl Acetate
Concen: 2.75 ug/l
RT: 4.93 min Scan# 478
Delta R.T. 0.02 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

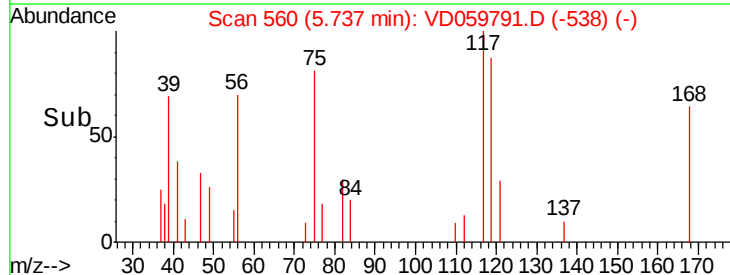
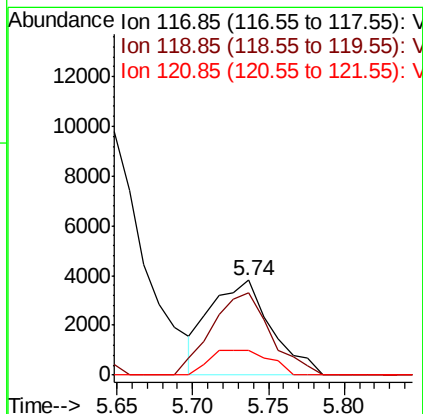
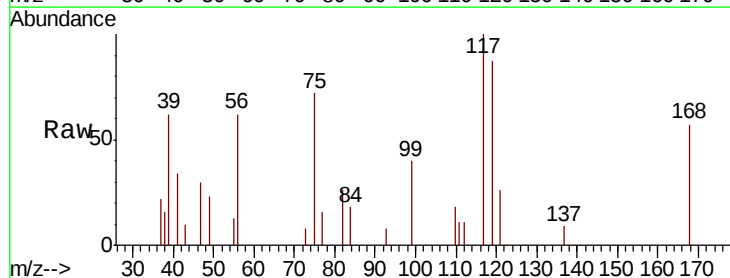
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

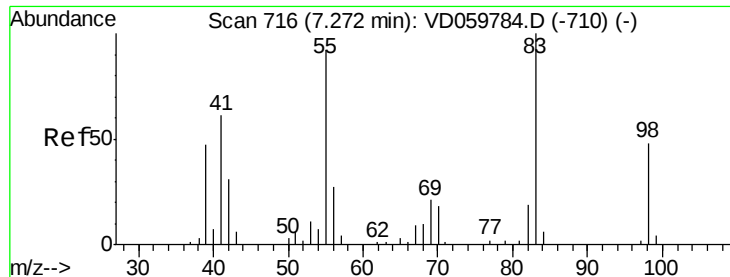
Tot Ion: 43 Resp: 5280
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 5.8 8.8#



#38
Carbon Tetrachloride
Concen: 2.29 ug/l
RT: 5.74 min Scan# 560
Delta R.T. 0.02 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 117 Resp: 10592
Ion Ratio Lower Upper
117 100
119 87.3 75.7 113.5
121 25.7 24.7 37.1

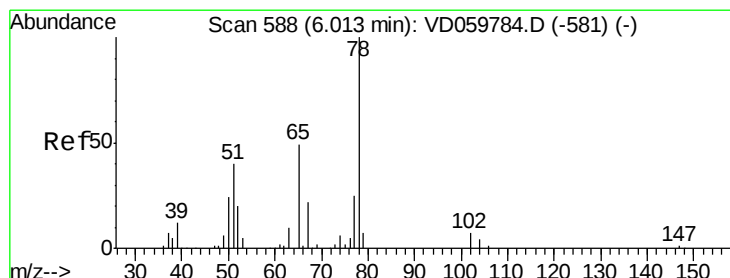
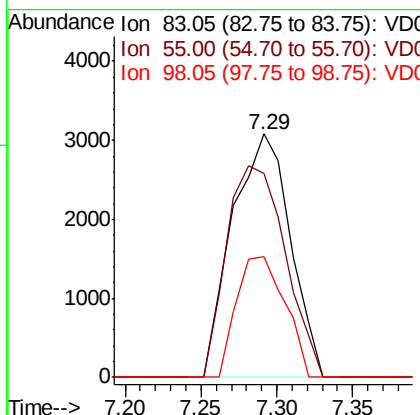
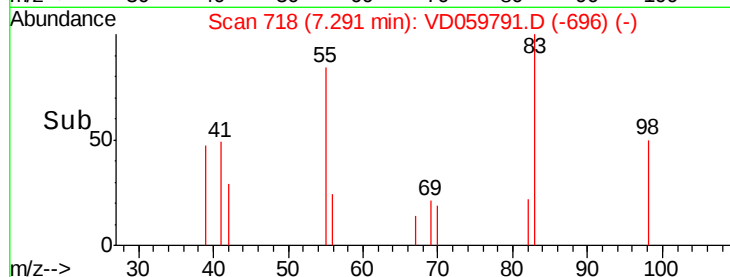
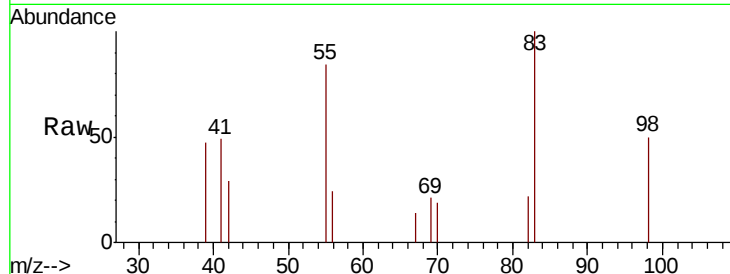




#39
Methylcyclohexane
Concen: 2.47 ug/l
RT: 7.29 min Scan# 718
Delta R.T. 0.02 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

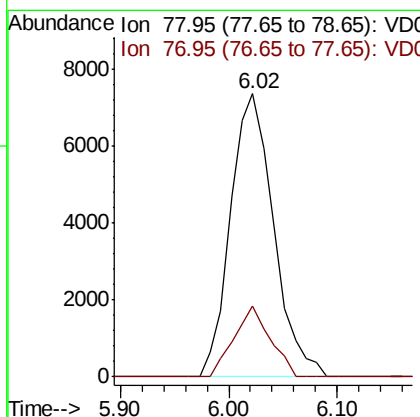
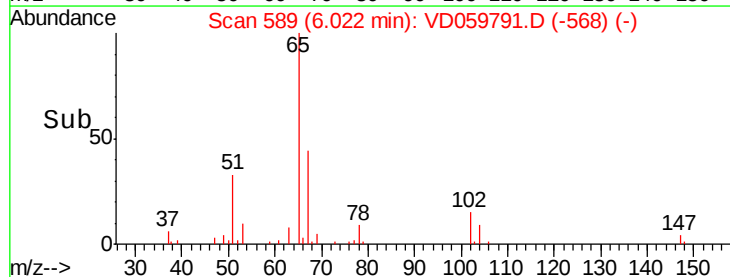
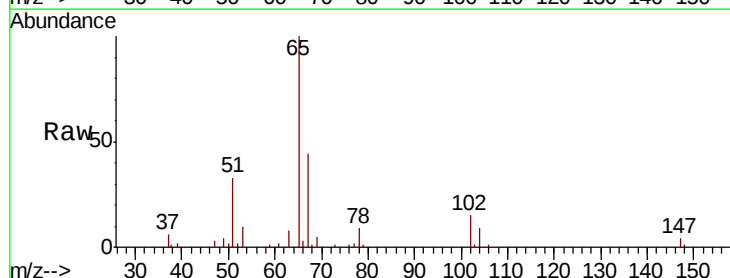
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

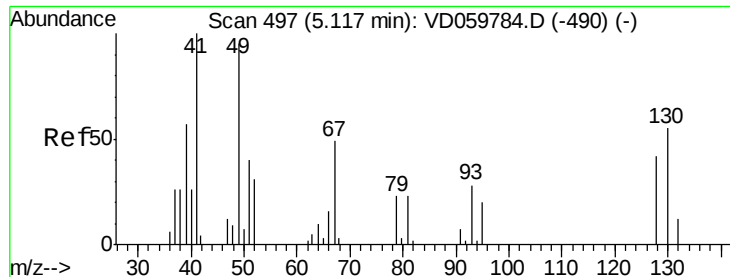
Tot Ion: 83 Resp: 8183
Ion Ratio Lower Upper
83 100
55 83.7 73.8 110.6
98 49.6 38.4 57.6



#40
Benzene
Concen: 2.50 ug/l
RT: 6.02 min Scan# 589
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 78 Resp: 20369
Ion Ratio Lower Upper
78 100
77 24.9 19.6 29.4





#41

Methacrylonitrile

Concen: 2.08 ug/l

RT: 5.13 min Scan# 498

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 41 Resp: 1905

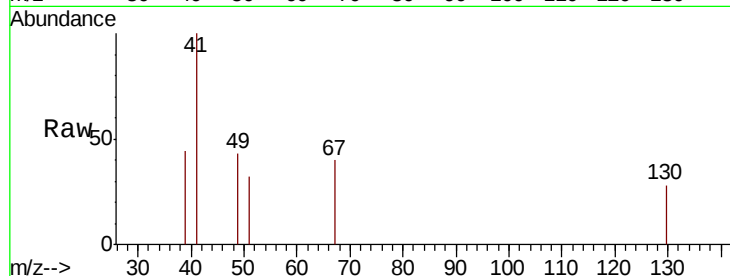
Ion Ratio Lower Upper

41 100

39 43.8 45.4 68.2#

67 39.7 39.5 59.3

52 0.0 24.8 37.2#

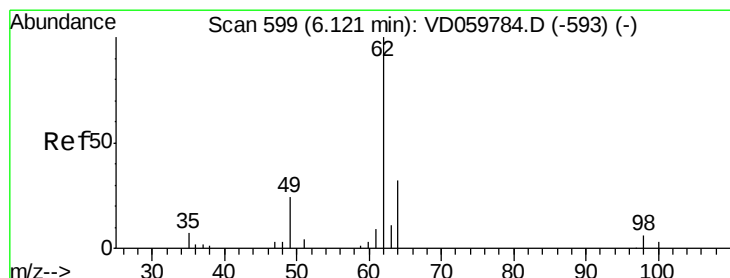
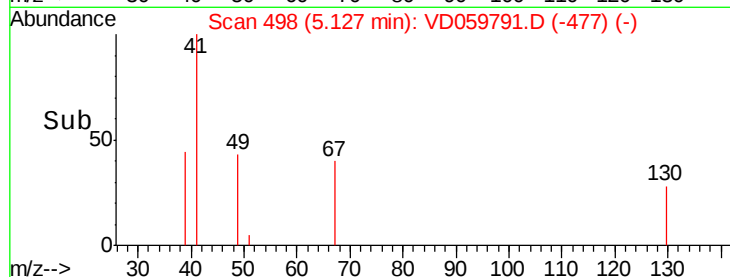
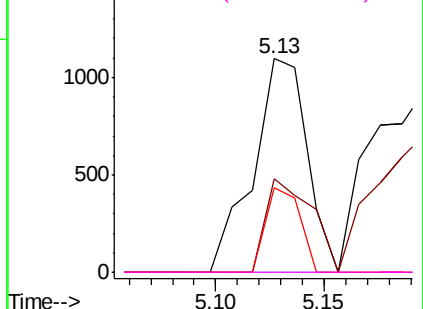


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 2.46 ug/l

RT: 6.13 min Scan# 600

Delta R.T. 0.01 min

Lab File: VD059791.D

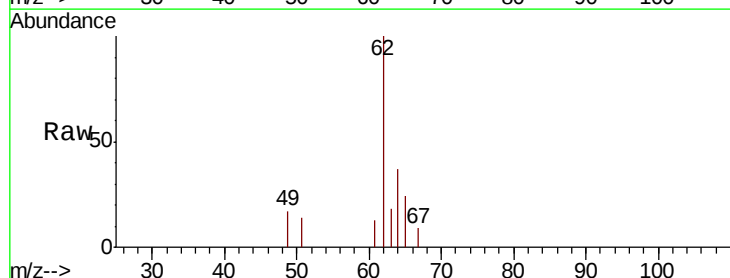
Acq: 15 Aug 2018 5:05

Tgt Ion: 62 Resp: 10810

Ion Ratio Lower Upper

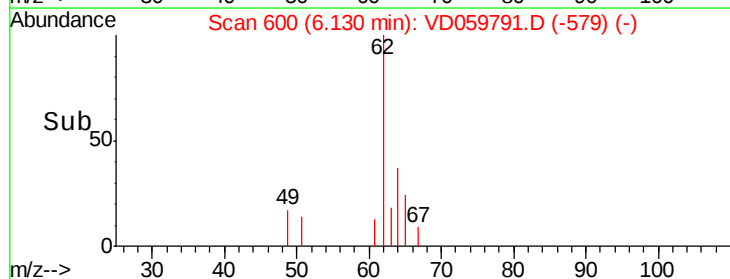
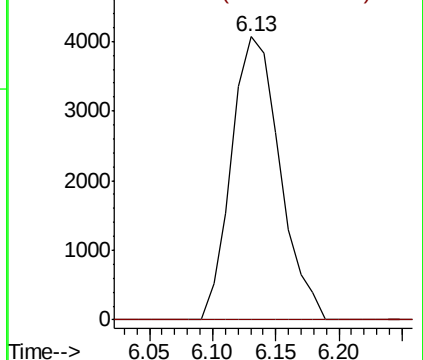
62 100

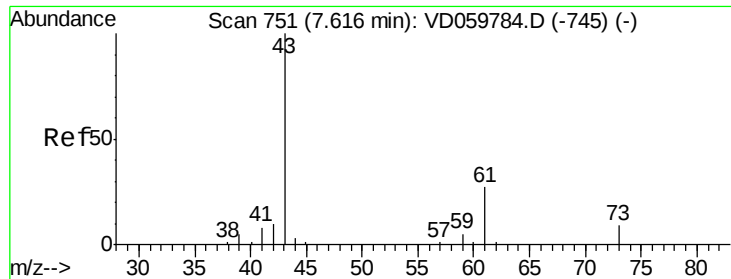
98 0.0 0.0 12.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 1.96 ug/l

RT: 7.63 min Scan# 752

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

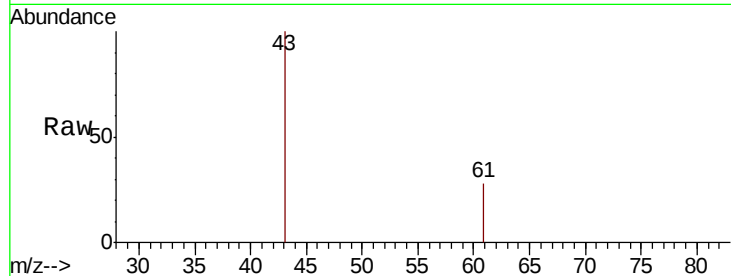
Tot Ion: 43 Resp: 4747

Ion Ratio Lower Upper

43 100

61 27.8 21.2 31.8

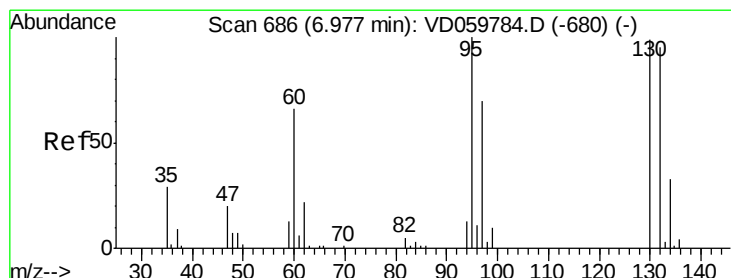
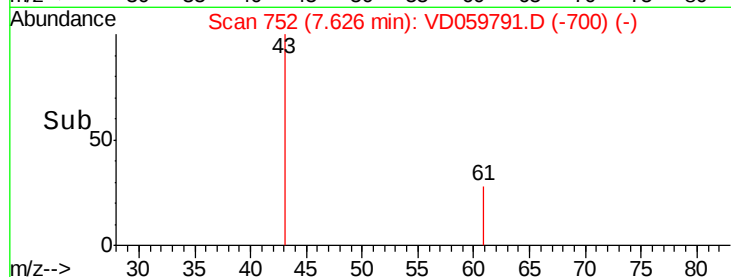
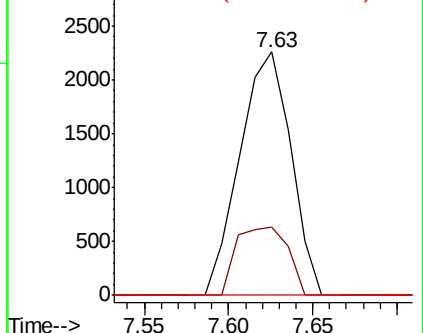
87 0.0 0.0 0.0



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: 2.37 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD059791.D

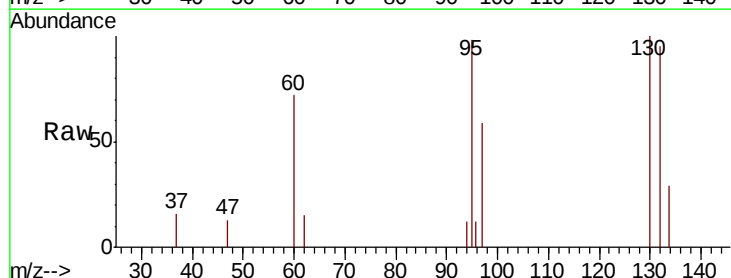
Acq: 15 Aug 2018 5:05

Tgt Ion: 130 Resp: 6614

Ion Ratio Lower Upper

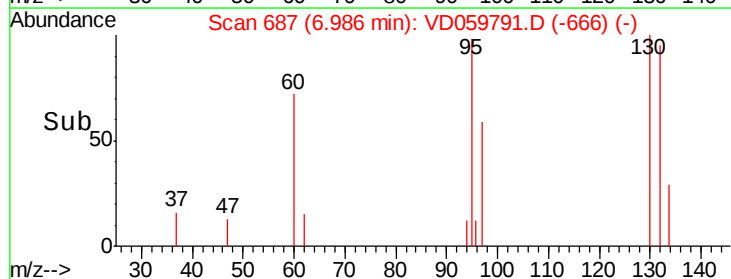
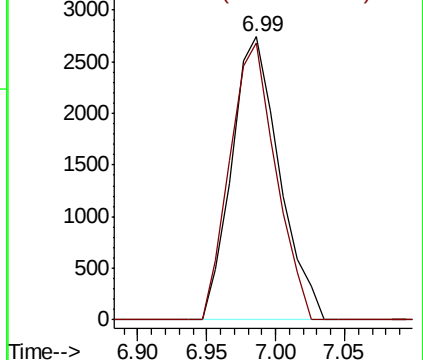
130 100

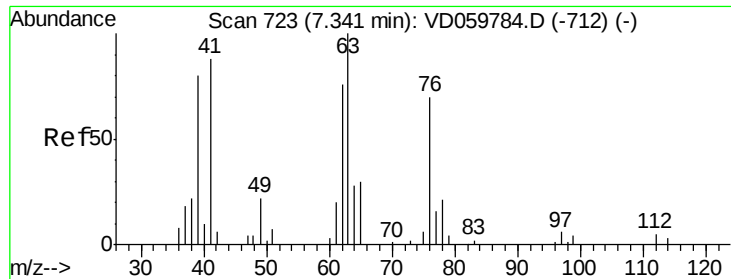
95 97.7 0.0 201.2



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.50 ug/l

RT: 7.35 min Scan# 724

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

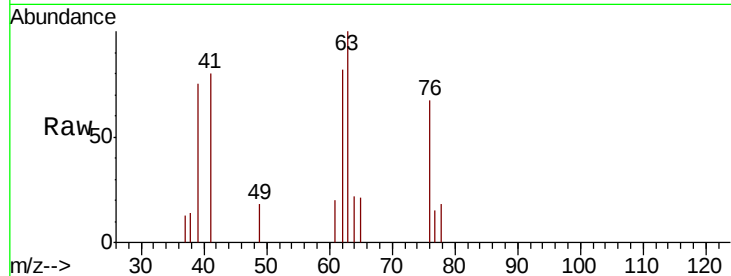
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 63 Resp: 5295

Ion Ratio Lower Upper

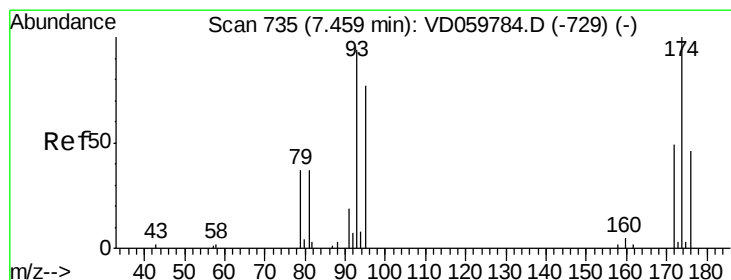
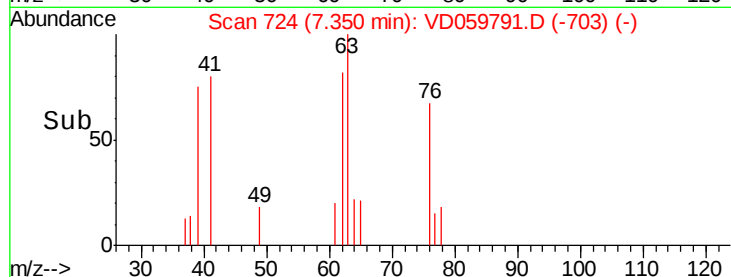
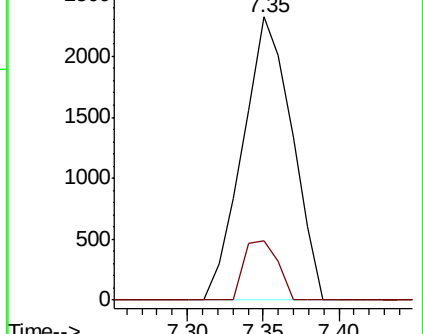
63 100

65 21.1 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: 2.17 ug/l

RT: 7.47 min Scan# 736

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

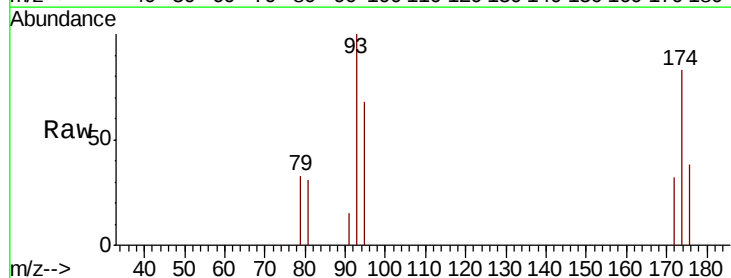
Tgt Ion: 93 Resp: 3758

Ion Ratio Lower Upper

93 100

95 67.6 66.2 99.4

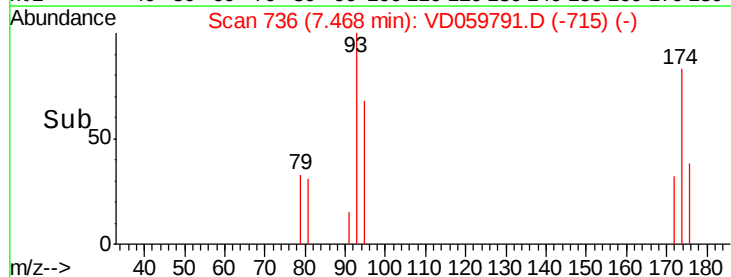
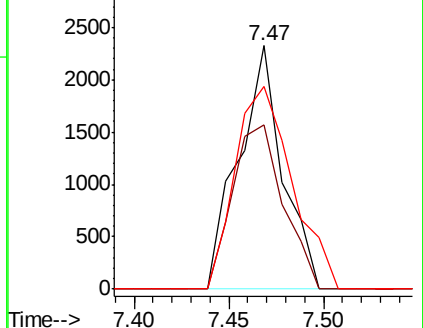
174 83.1 85.5 128.3#

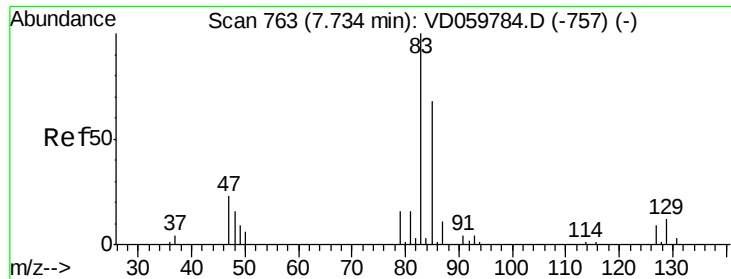


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 2.24 ug/l

RT: 7.75 min Scan# 765

Delta R.T. 0.02 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

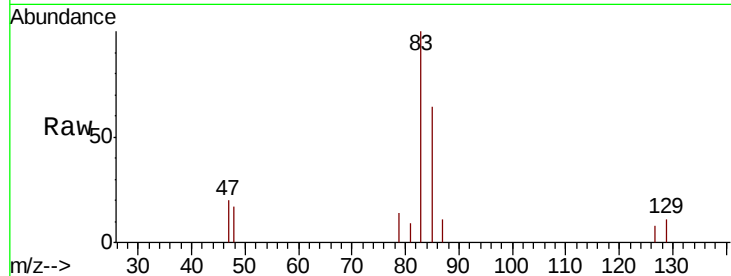
Tot Ion: 83 Resp: 9490

Ion Ratio Lower Upper

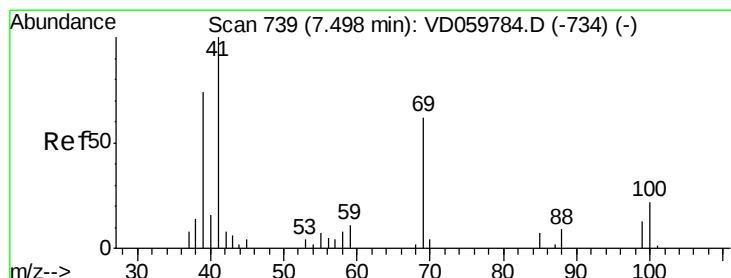
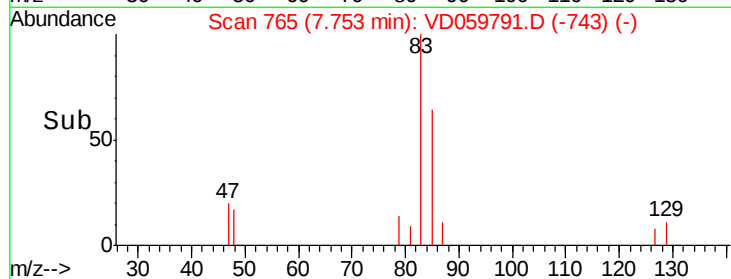
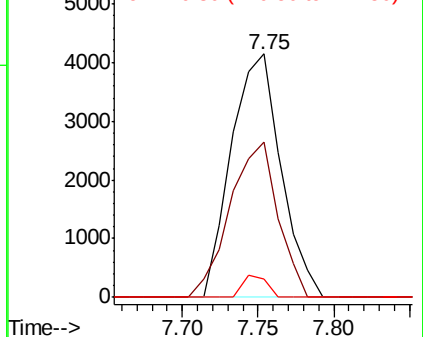
83 100

85 63.5 54.1 81.1

127 7.6 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: 2.38 ug/l

RT: 7.51 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

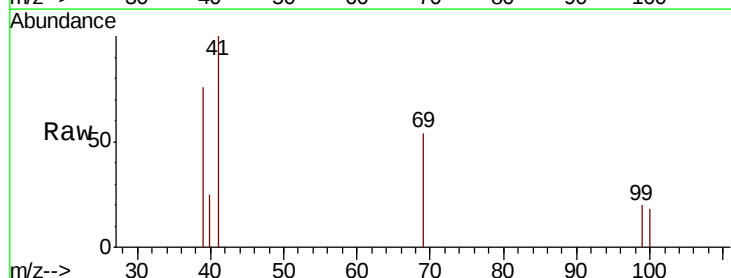
Tgt Ion: 41 Resp: 3757

Ion Ratio Lower Upper

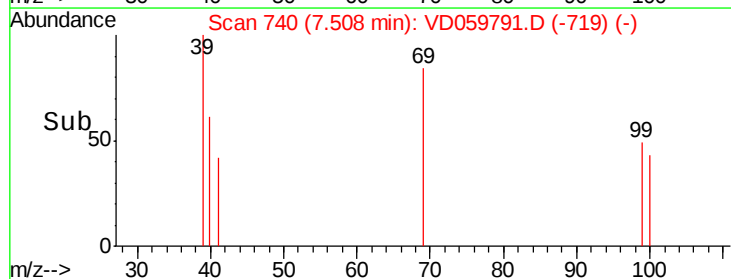
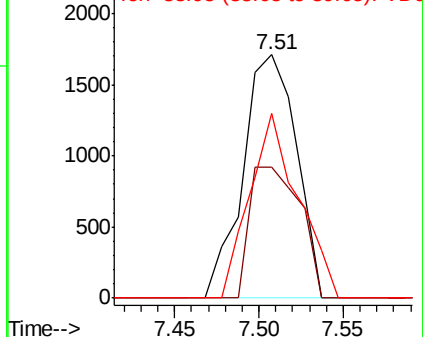
41 100

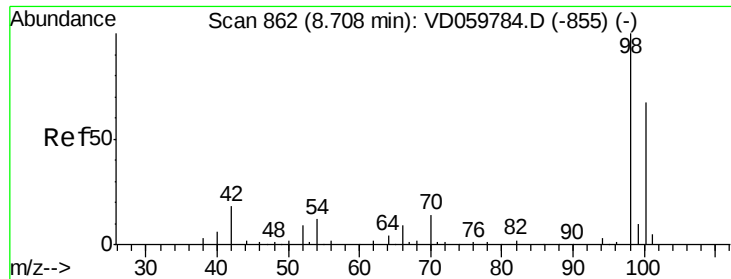
69 53.7 49.8 74.8

39 75.7 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

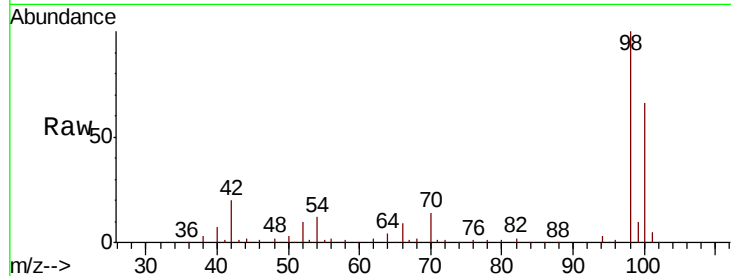




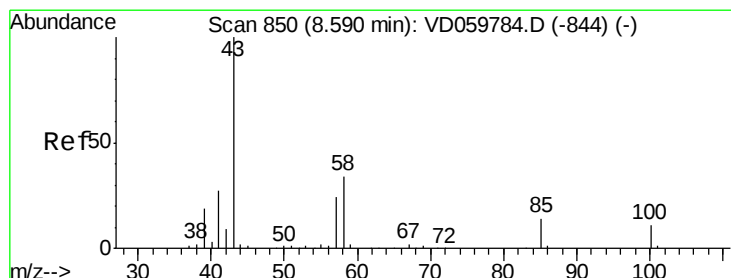
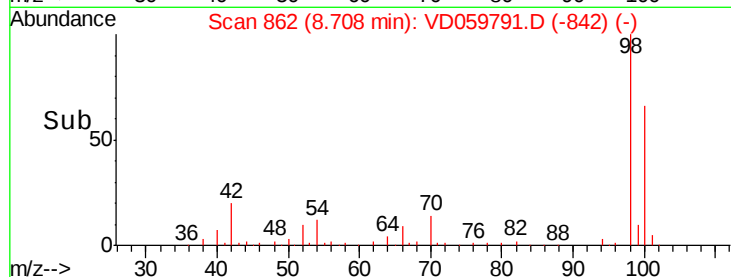
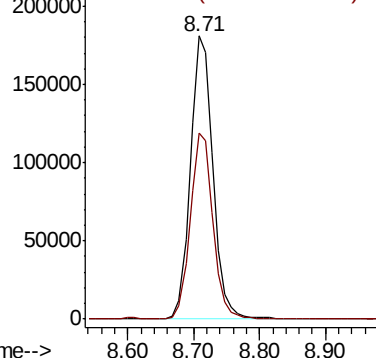
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 98 Resp: 429394
Ion Ratio Lower Upper
98 100
100 65.9 54.2 81.4

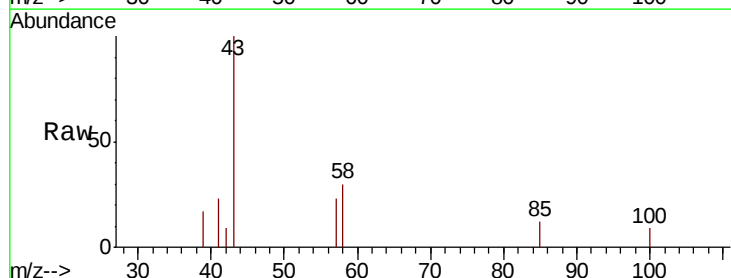


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

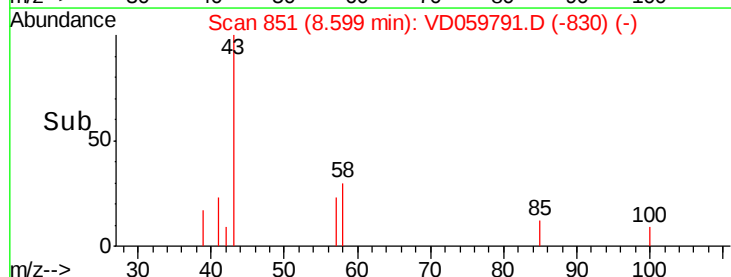
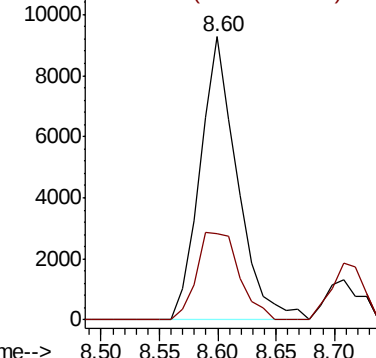


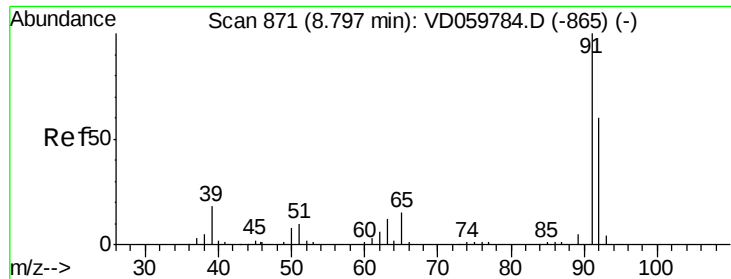
#51
4-Methyl-2-Pentanone
Concen: 11.18 ug/l
RT: 8.60 min Scan# 851
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 43 Resp: 20475
Ion Ratio Lower Upper
43 100
58 30.5 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: 2.69 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

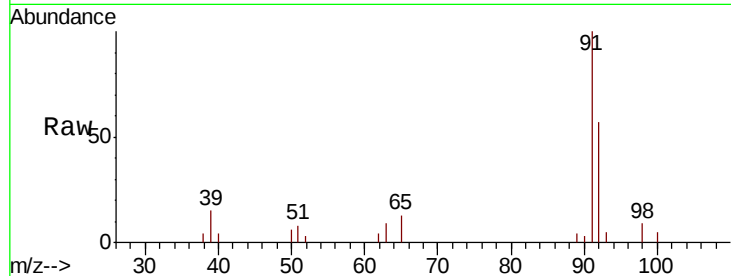
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 92 Resp: 14044

Ion Ratio Lower Upper

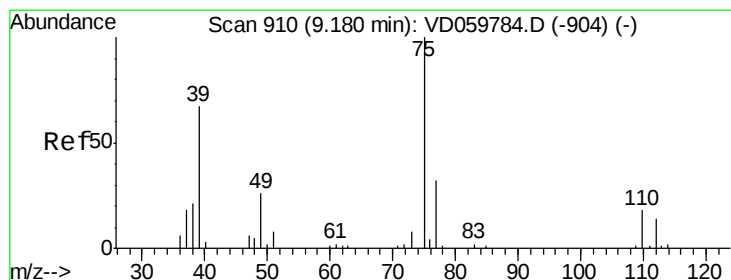
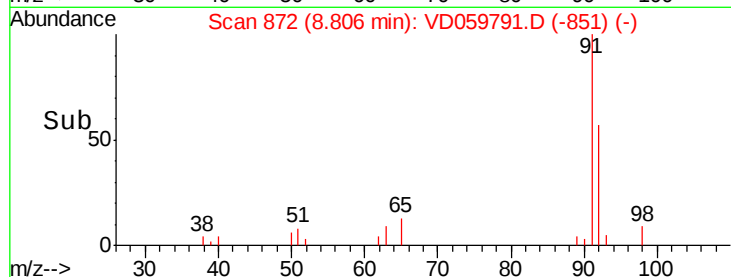
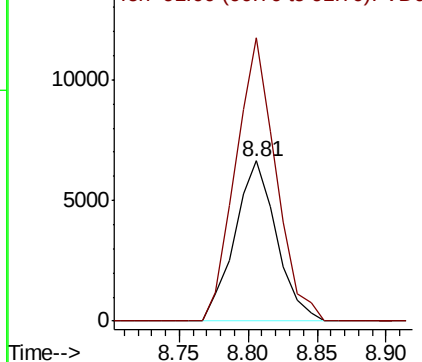
92 100

91 176.5 133.1 199.7



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: 2.17 ug/l

RT: 9.19 min Scan# 911

Delta R.T. 0.01 min

Lab File: VD059791.D

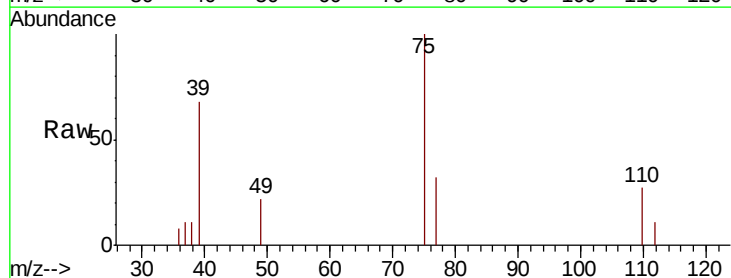
Acq: 15 Aug 2018 5:05

Tgt Ion: 75 Resp: 7630

Ion Ratio Lower Upper

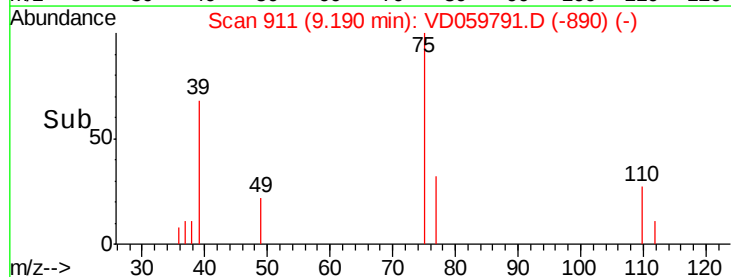
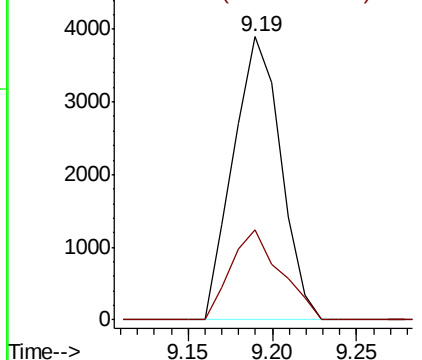
75 100

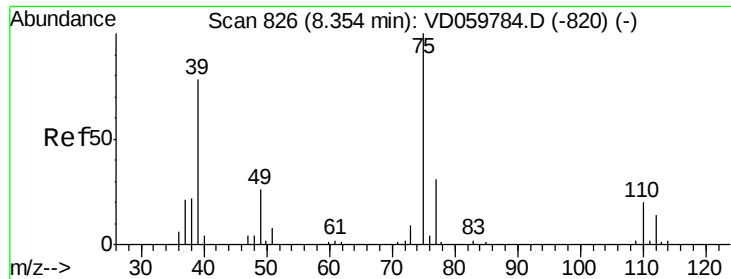
77 31.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#54

cis-1,3-Dichloropropene

Concen: 2.16 ug/l

RT: 8.36 min Scan# 827

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

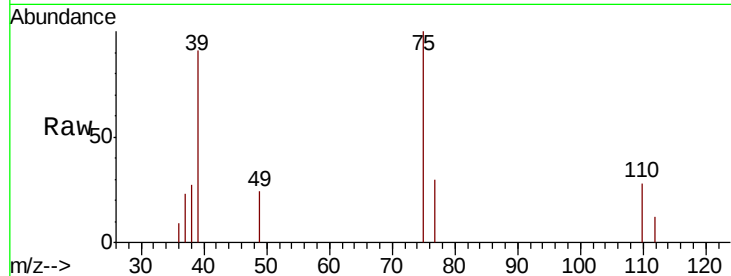
Tot Ion: 75 Resp: 8208

Ion Ratio Lower Upper

75 100

77 30.0 24.8 37.2

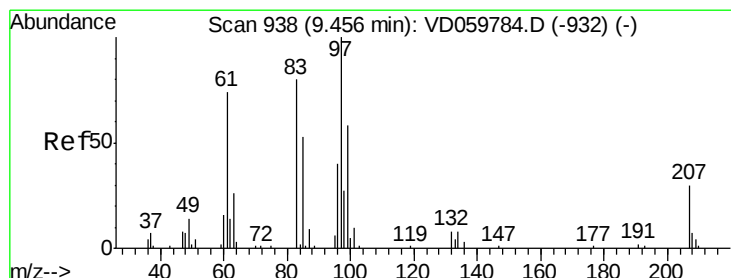
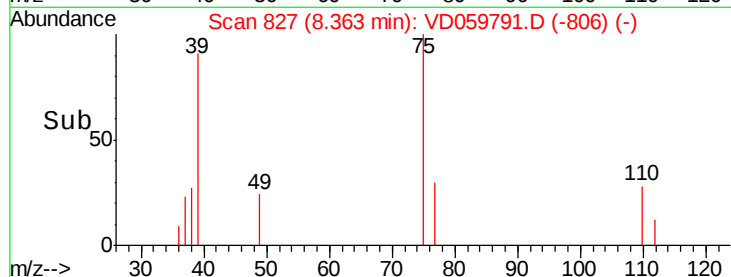
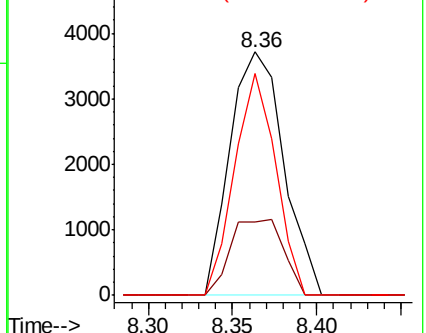
39 91.0 62.5 93.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC



#55

1,1,2-Trichloroethane

Concen: 2.98 ug/l

RT: 9.46 min Scan# 938

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Tgt Ion: 97 Resp: 5738

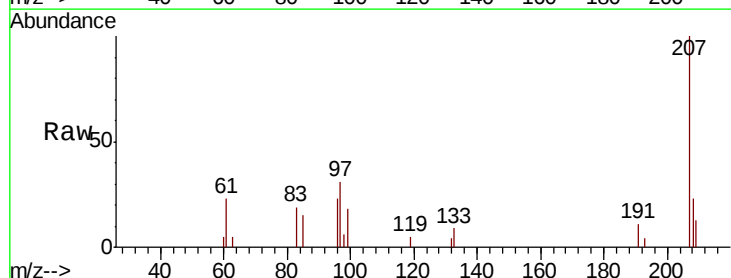
Ion Ratio Lower Upper

97 100

83 62.4 63.8 95.8#

85 48.1 42.5 63.7

99 56.6 46.2 69.4

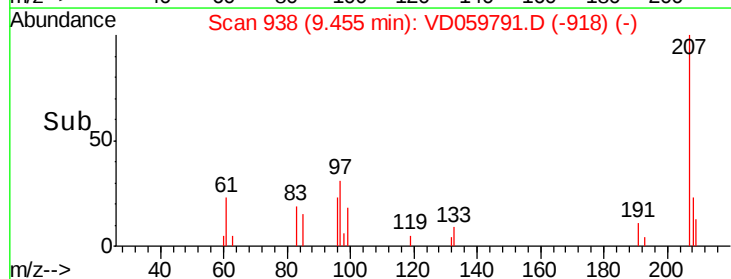
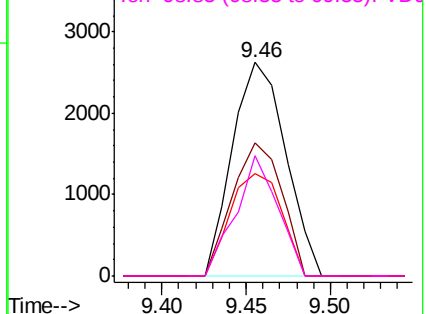


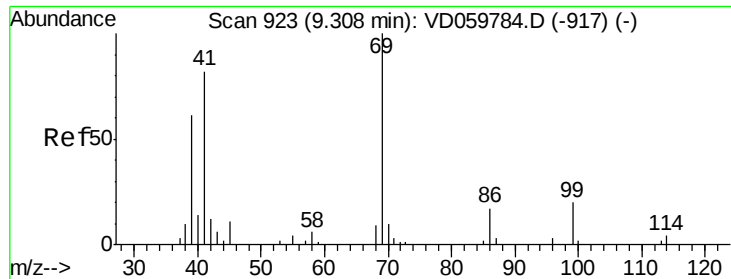
Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 2.08 ug/l

RT: 9.32 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

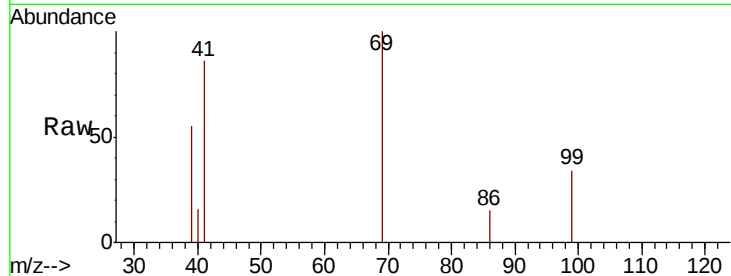
Tot Ion: 69 Resp: 4341

Ion Ratio Lower Upper

69 100

41 85.7 65.8 98.8

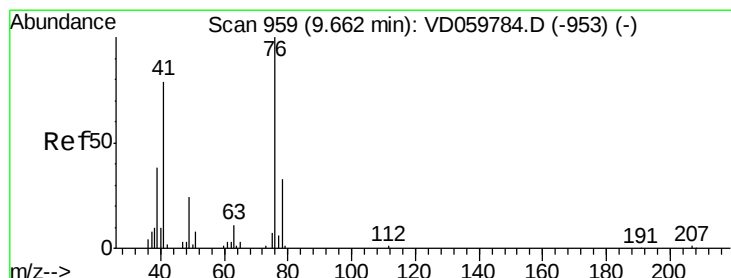
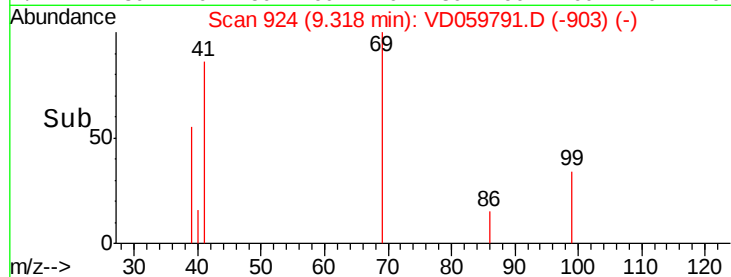
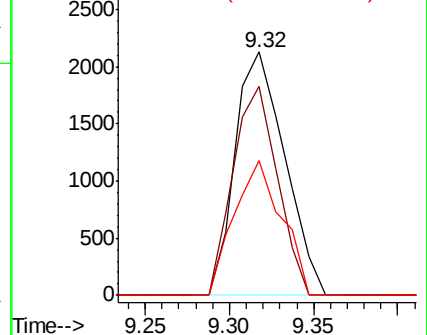
39 55.1 49.7 74.5



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: 2.50 ug/l

RT: 9.67 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD059791.D

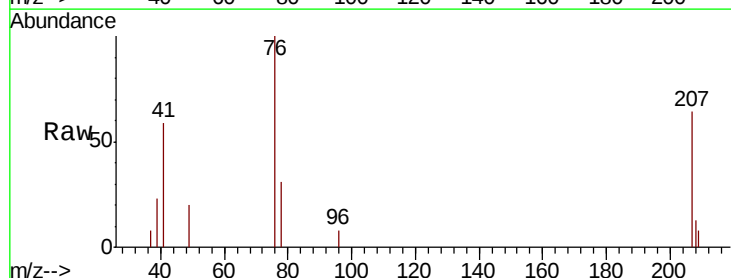
Acq: 15 Aug 2018 5:05

Tgt Ion: 76 Resp: 7524

Ion Ratio Lower Upper

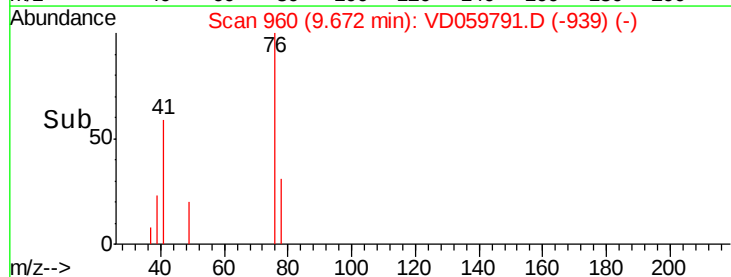
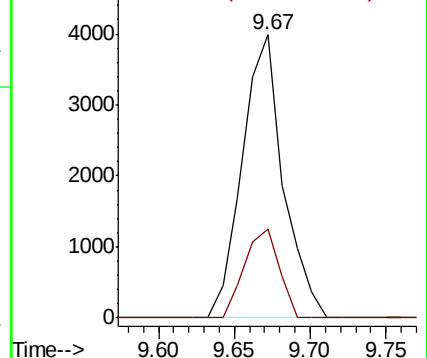
76 100

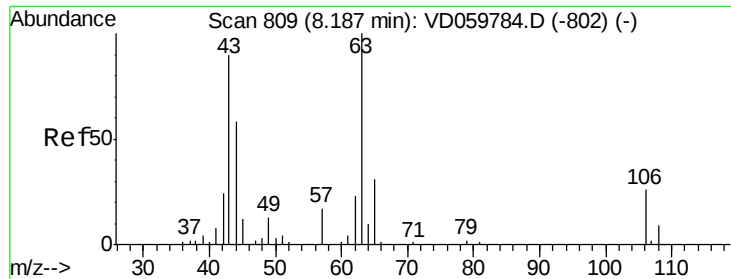
78 31.5 26.4 39.6



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

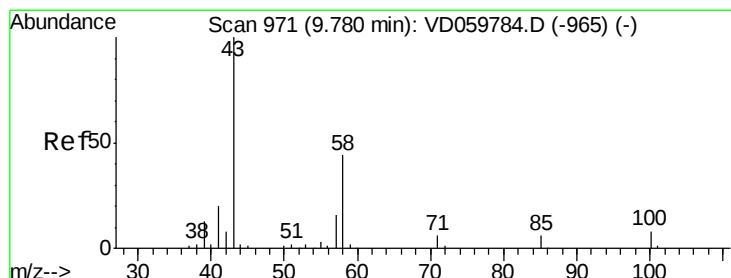
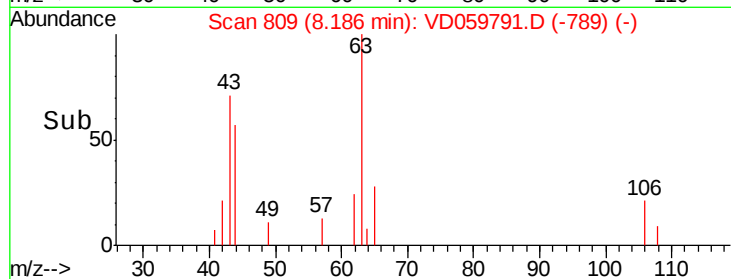
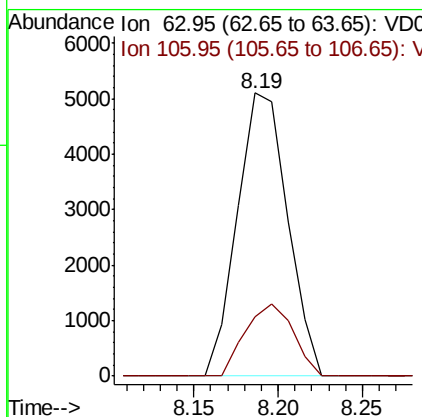
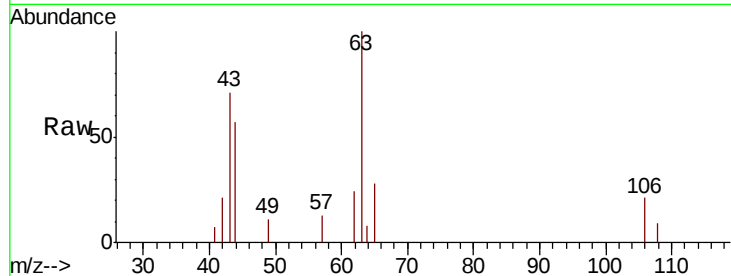




#58
2-Chloroethyl Vinyl ether
Concen: 10.22 ug/l
RT: 8.19 min Scan# 809
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

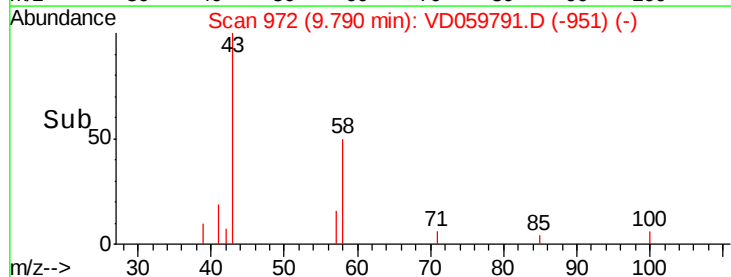
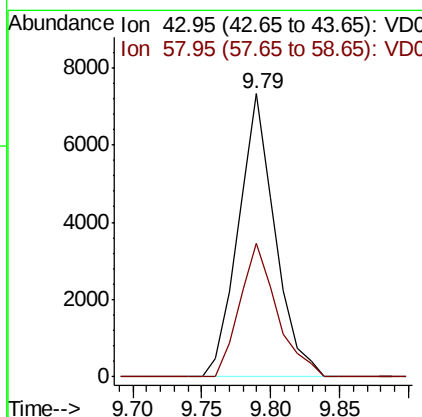
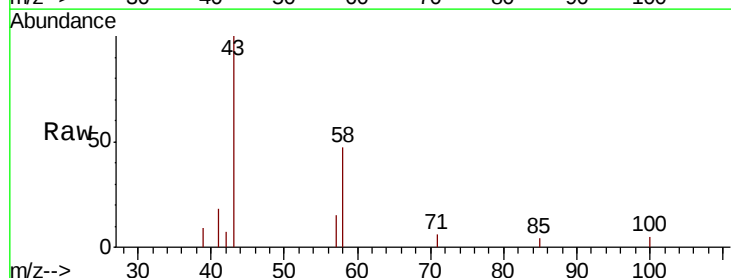
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

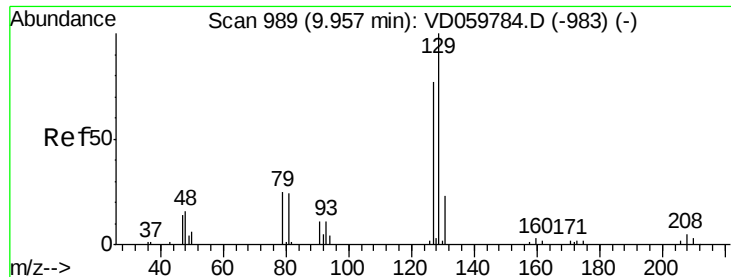
Tot Ion: 63 Resp: 10528
Ion Ratio Lower Upper
63 100
106 21.1 21.1 31.7#



#59
2-Hexanone
Concen: 10.32 ug/l
RT: 9.79 min Scan# 972
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 43 Resp: 13548
Ion Ratio Lower Upper
43 100
58 47.0 22.3 66.8





#60

Dibromochloromethane

Concen: 2.11 ug/l

RT: 9.96 min Scan# 989

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

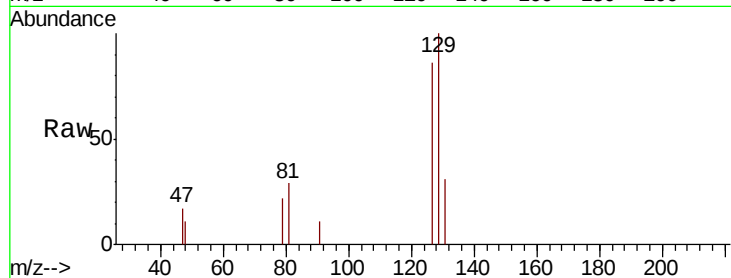
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:129 Resp: 5887

Ion Ratio Lower Upper

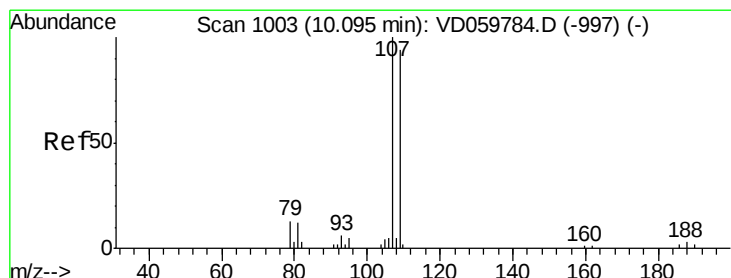
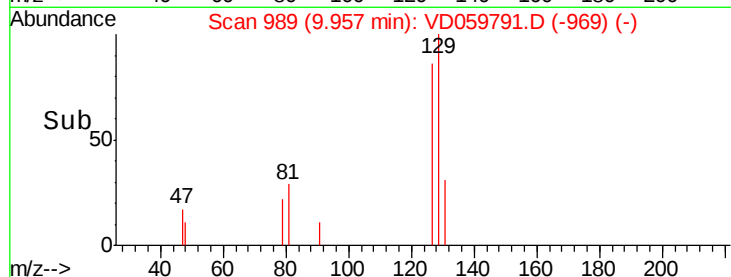
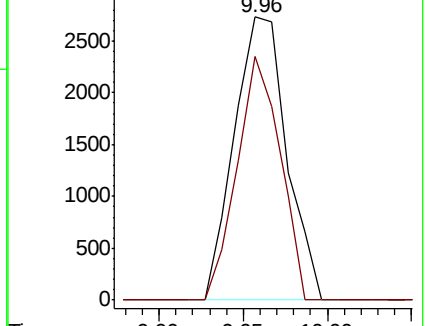
129 100

127 86.3 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: 2.26 ug/l

RT: 10.10 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VD059791.D

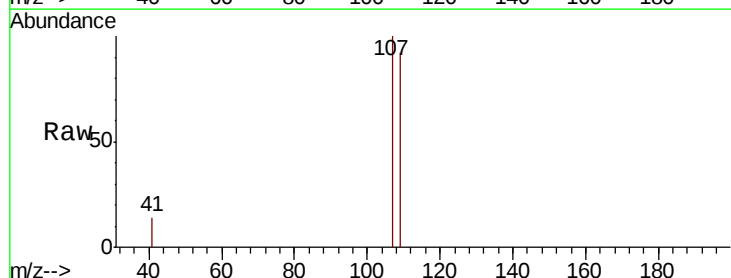
Acq: 15 Aug 2018 5:05

Tgt Ion:107 Resp: 4809

Ion Ratio Lower Upper

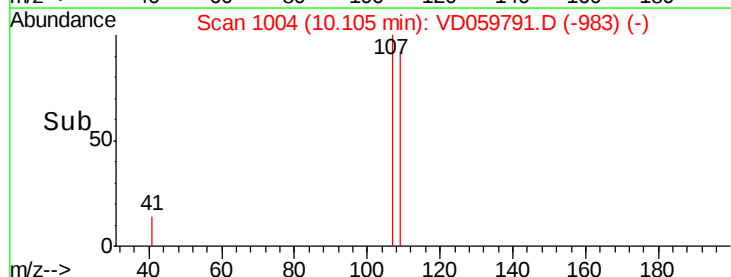
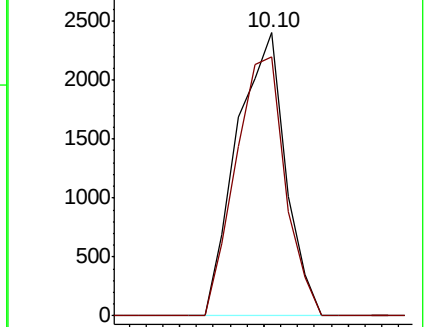
107 100

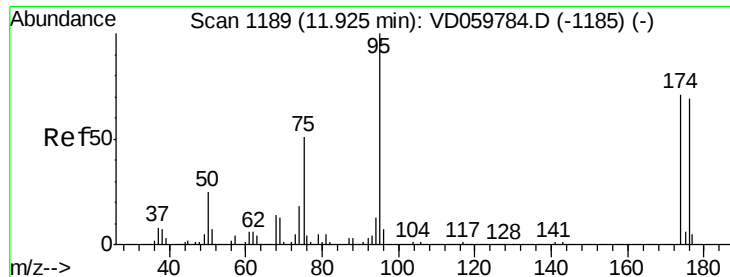
109 91.6 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

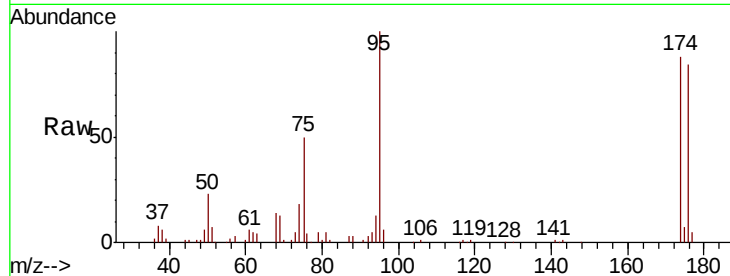




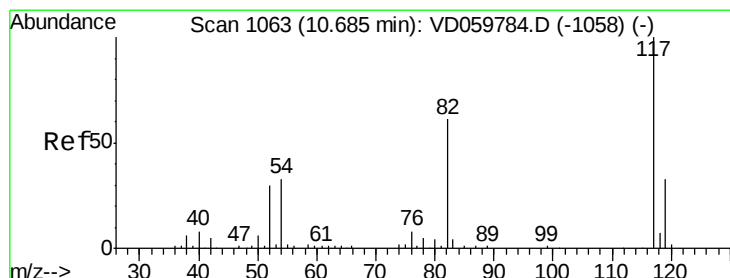
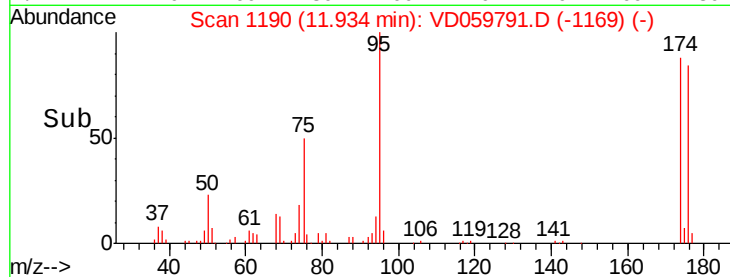
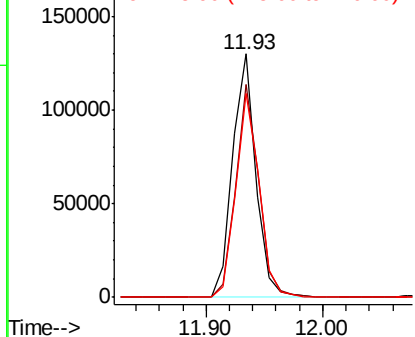
#62
4-Bromofluorobenzene
Concen: 2.26 ug/l
RT: 11.93 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 95 Resp: 179408
Ion Ratio Lower Upper
95 100
174 87.7 0.0 142.2
176 83.8 0.0 137.4

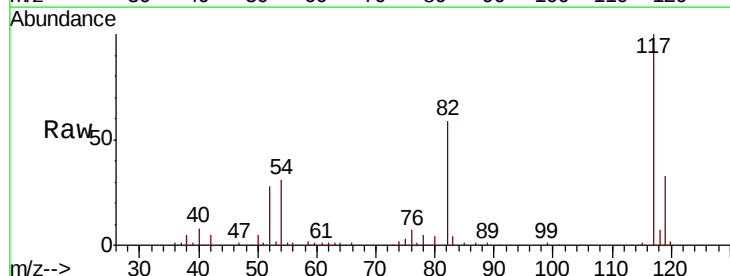


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

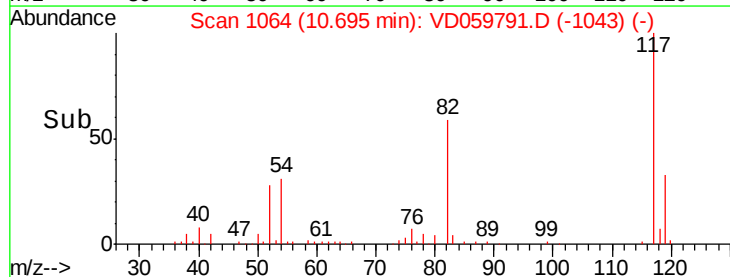
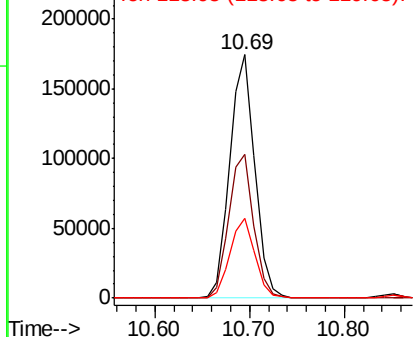


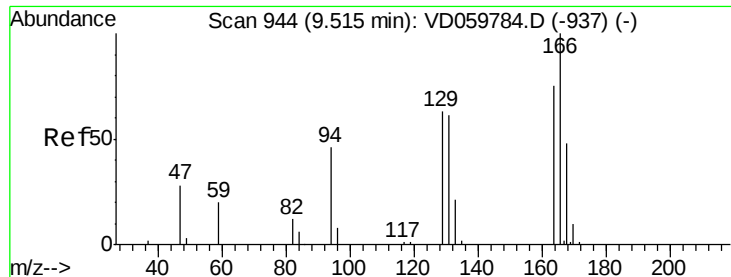
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.69 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 117 Resp: 319072
Ion Ratio Lower Upper
117 100
82 58.9 49.0 73.6
119 32.7 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: 2.62 ug/l

RT: 9.51 min Scan# 944

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:164 Resp: 7189

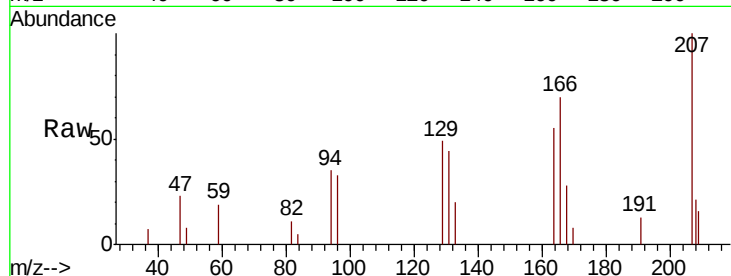
Ion Ratio Lower Upper

164 100

166 128.5 106.8 160.2

129 89.1 67.2 100.8

131 80.0 64.7 97.1

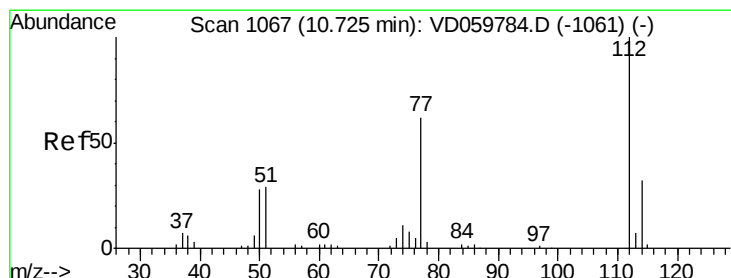
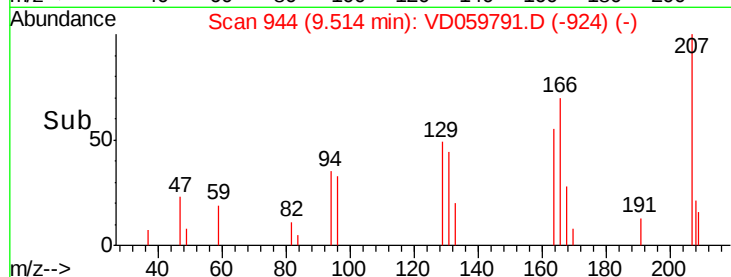
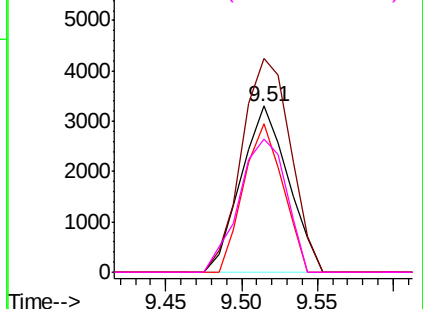


Abundance Ion 163.85 (163.55 to 164.55): V

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: 2.48 ug/l

RT: 10.72 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VD059791.D

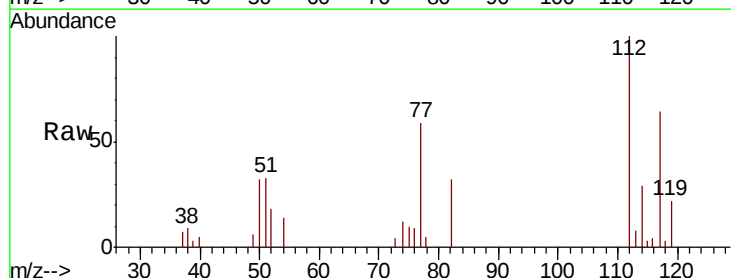
Acq: 15 Aug 2018 5:05

Tgt Ion:112 Resp: 15993

Ion Ratio Lower Upper

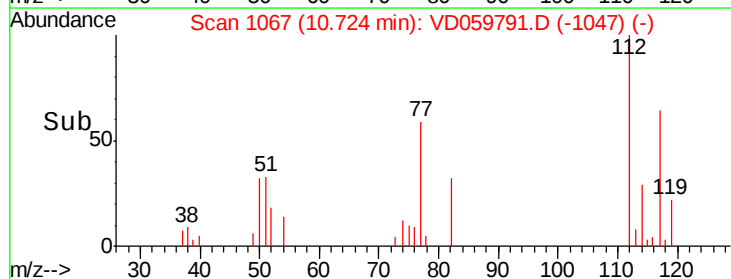
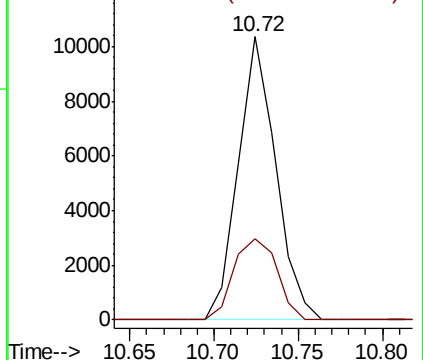
112 100

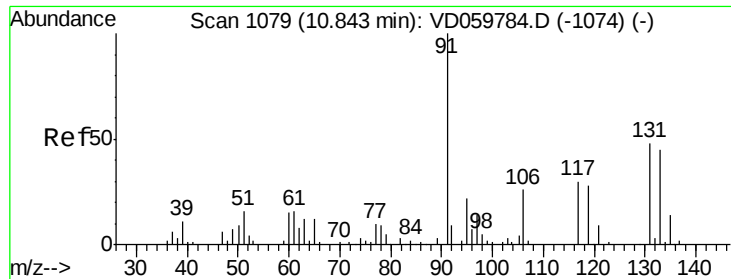
114 28.7 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V

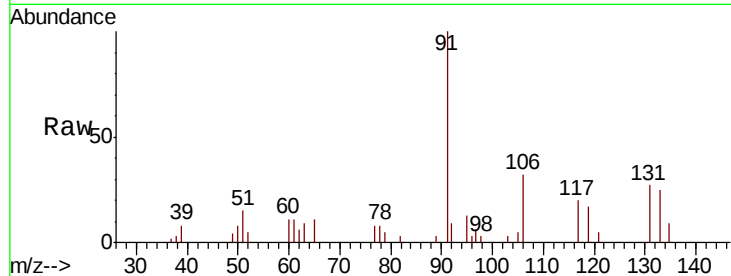




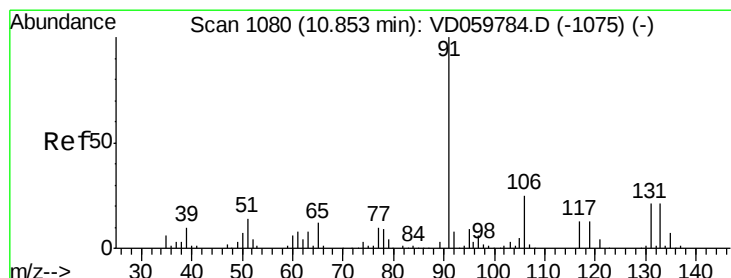
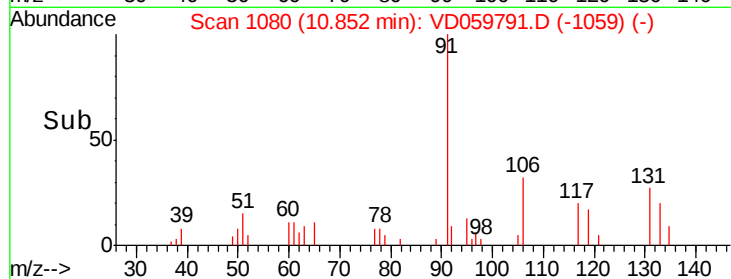
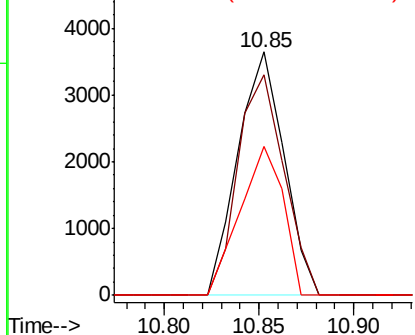
#66
 1,1,1,2-Tetrachloroethane
 Concen: 2.37 ug/l
 RT: 10.85 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion:131 Resp: 6167
 Ion Ratio Lower Upper
 131 100
 133 90.7 47.0 141.0
 119 61.4 29.0 87.1

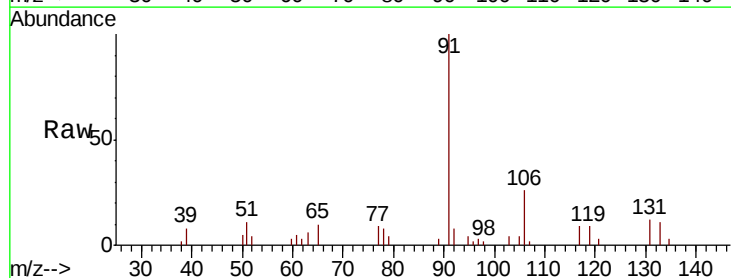


Abundance Ion 130.90 (130.60 to 131.60): V
 Ion 132.90 (132.60 to 133.60): V
 Ion 118.85 (118.55 to 119.55): V

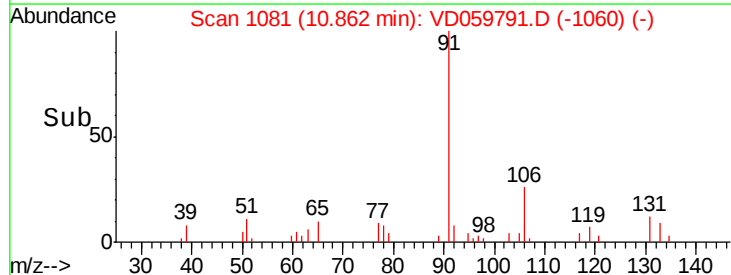
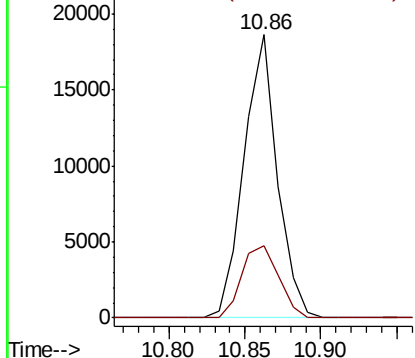


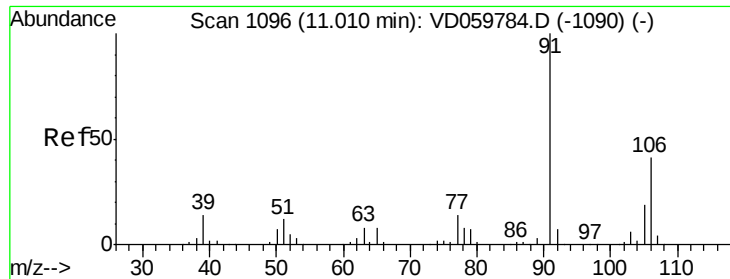
#67
 Ethyl Benzene
 Concen: 2.57 ug/l
 RT: 10.86 min Scan# 1081
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 91 Resp: 28544
 Ion Ratio Lower Upper
 91 100
 106 25.5 20.1 30.1



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

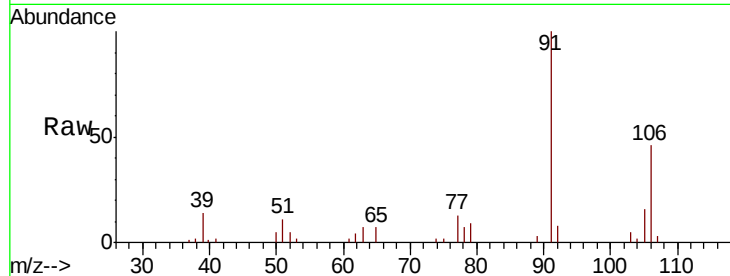




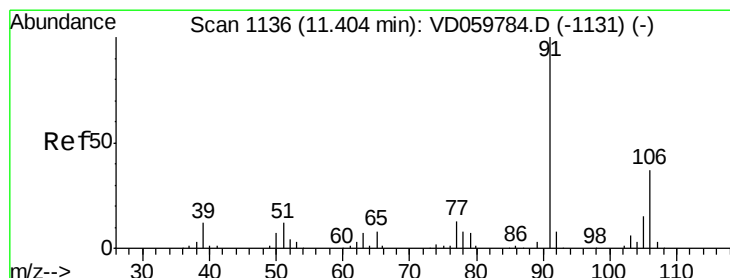
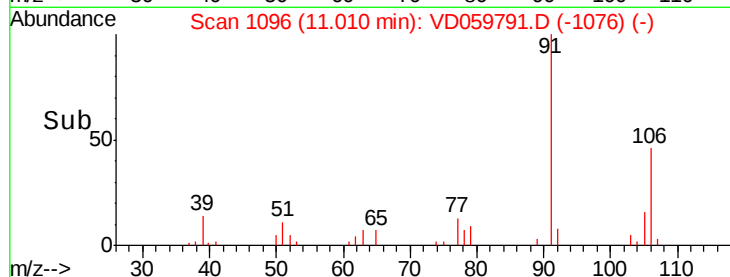
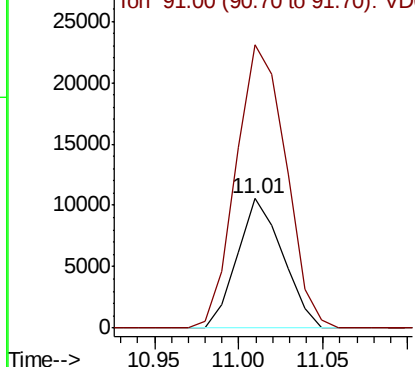
#68
m/p-Xylenes
Concen: 5.25 ug/l
RT: 11.01 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:106 Resp: 19811
Ion Ratio Lower Upper
106 100
91 218.2 197.4 296.0

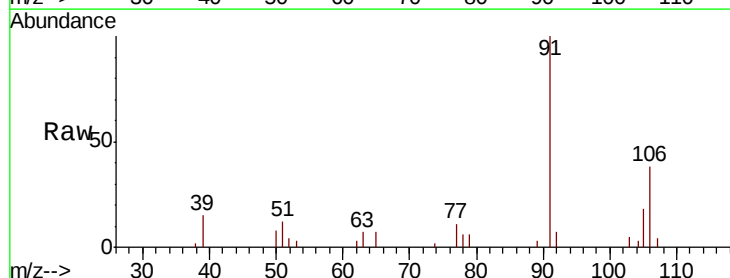


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

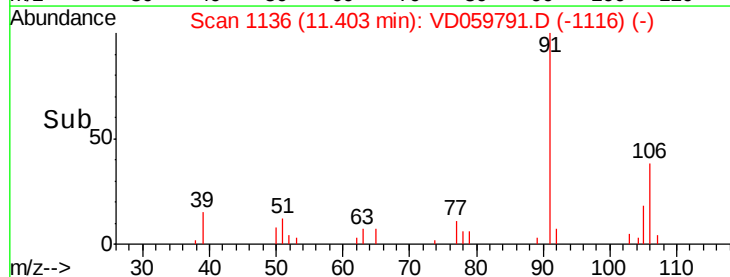
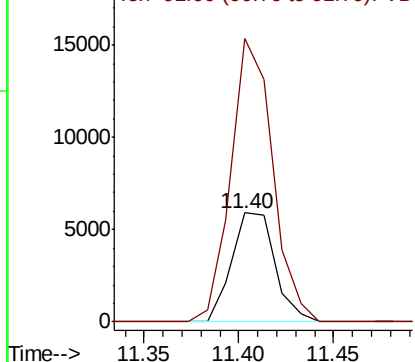


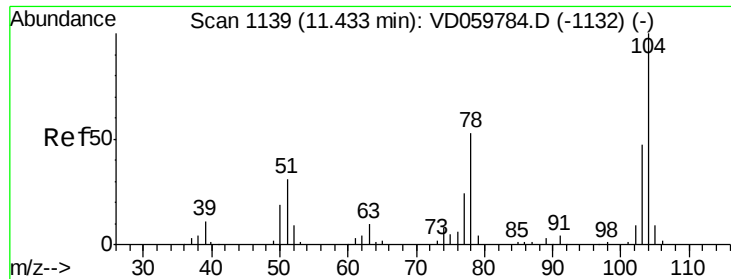
#69
o-Xylene
Concen: 2.57 ug/l
RT: 11.40 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion:106 Resp: 9307
Ion Ratio Lower Upper
106 100
91 260.1 133.7 401.1



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

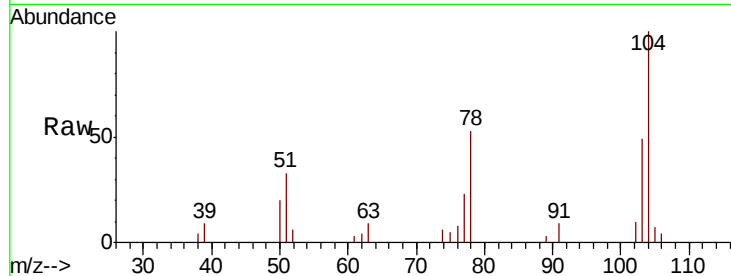




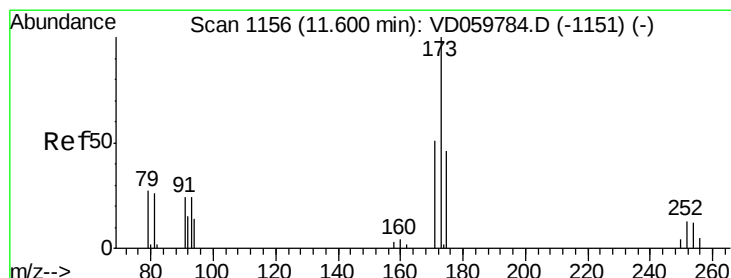
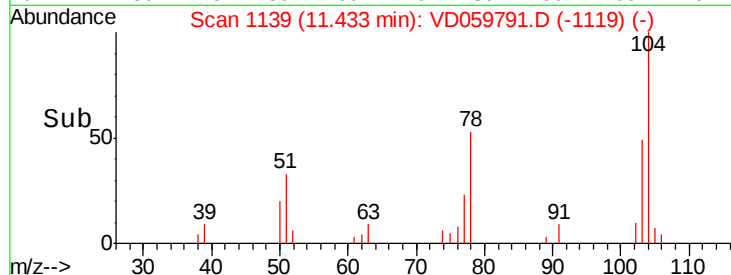
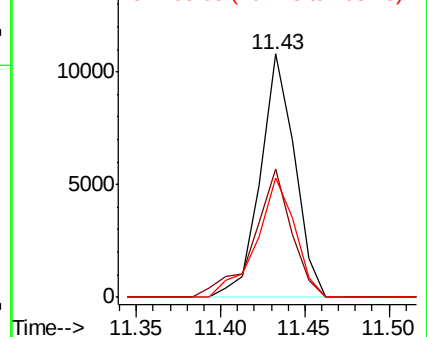
#70
Stvrene
Concen: 2.37 ug/l
RT: 11.43 min Scan# 1139
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:104 Resp: 15224
Ion Ratio Lower Upper
104 100
78 52.6 42.6 64.0
103 49.2 37.8 56.6

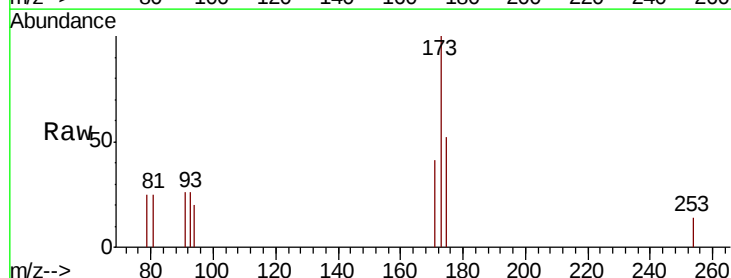


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V

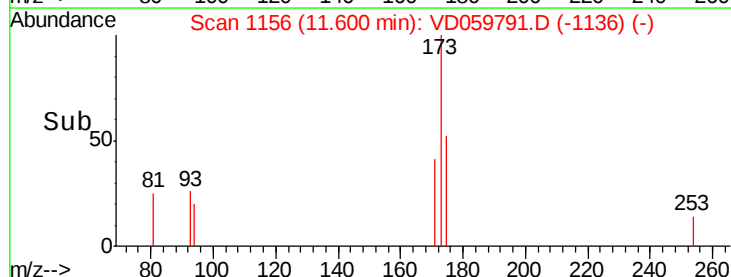
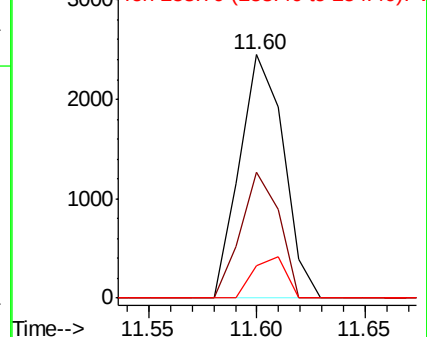


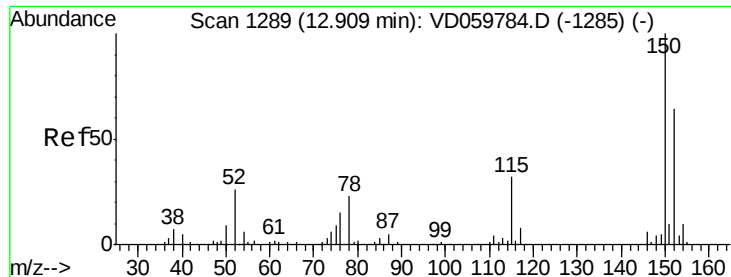
#71
Bromoform
Concen: 1.85 ug/l
RT: 11.60 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion:173 Resp: 3493
Ion Ratio Lower Upper
173 100
175 51.5 23.1 69.2
254 13.6 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: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

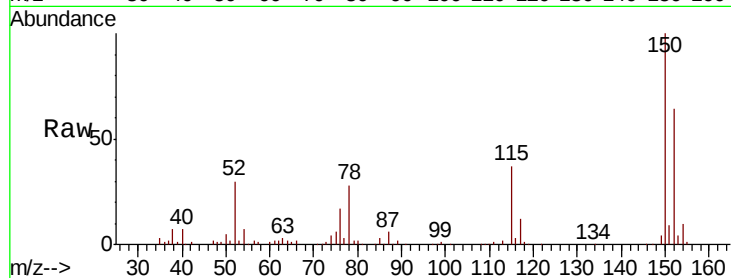
Tot Ion:152 Resp: 170175

Ion Ratio Lower Upper

152 100

115 57.5 27.2 81.5

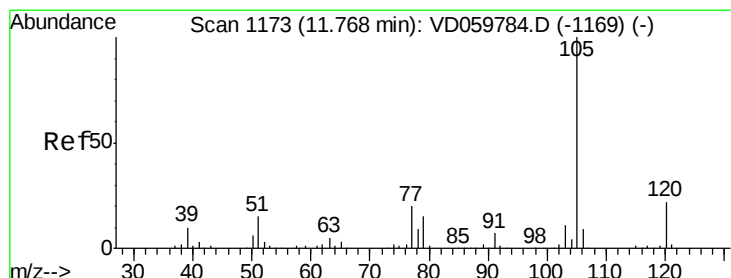
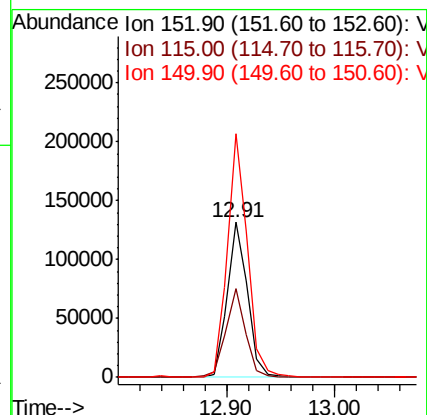
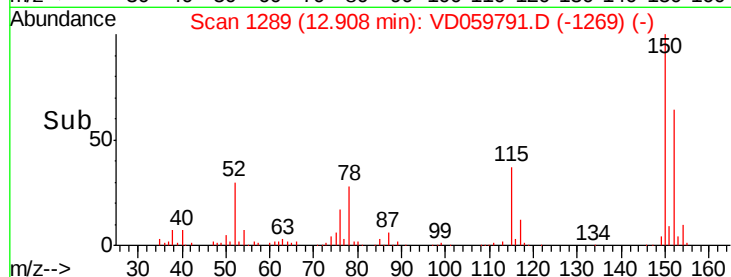
150 156.9 0.0 312.4



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: 2.56 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD059791.D

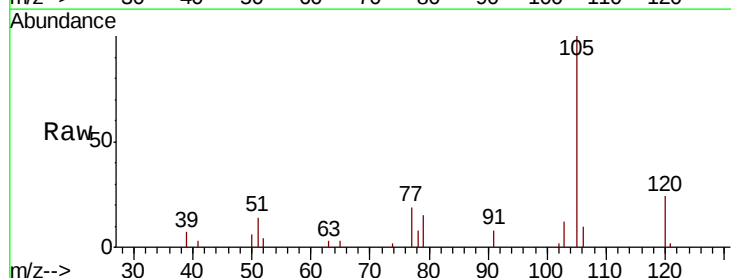
Acq: 15 Aug 2018 5:05

Tgt Ion:105 Resp: 27570

Ion Ratio Lower Upper

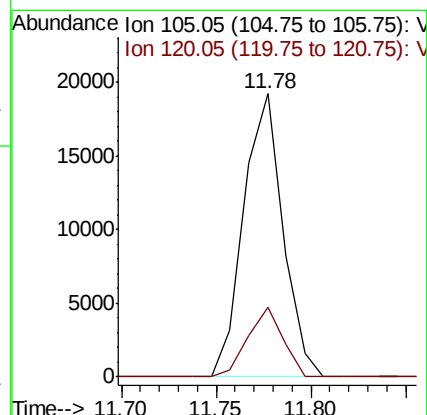
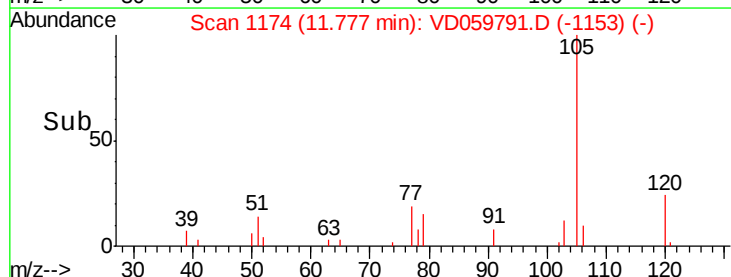
105 100

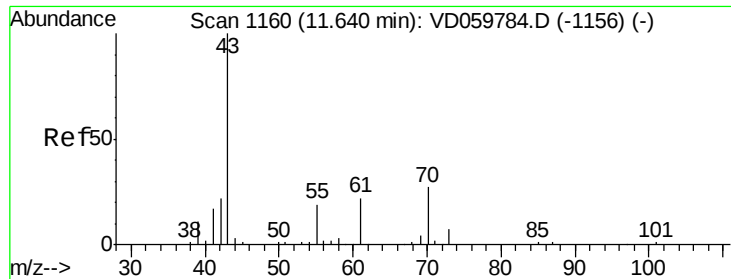
120 24.4 10.9 32.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 2.13 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

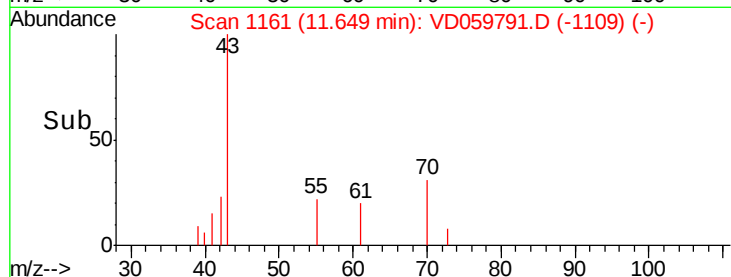
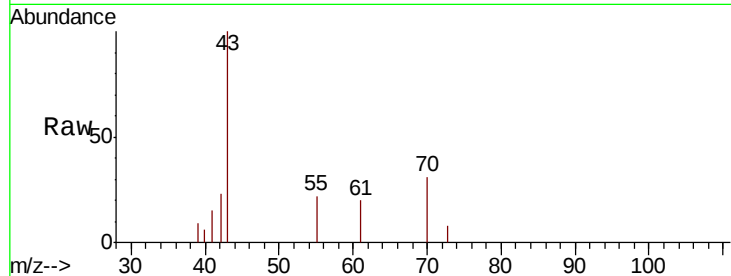
MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 7039

Ion	Ratio	Lower	Upper
43	100		
70	30.8	21.8	32.6
55	22.1	15.1	22.7
61	20.0	18.0	27.0

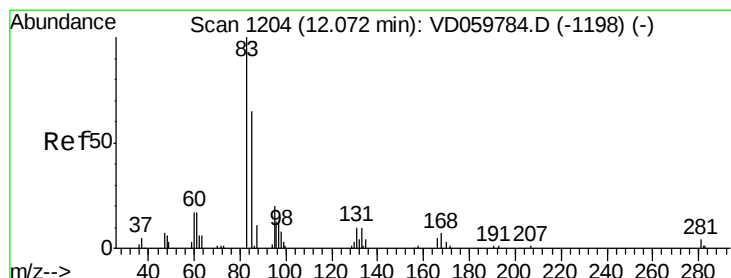


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 2.45 ug/l

RT: 12.08 min Scan# 1205

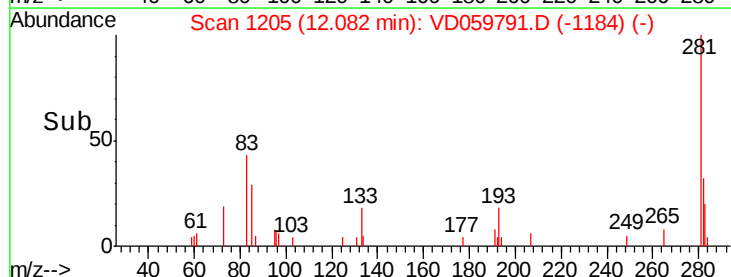
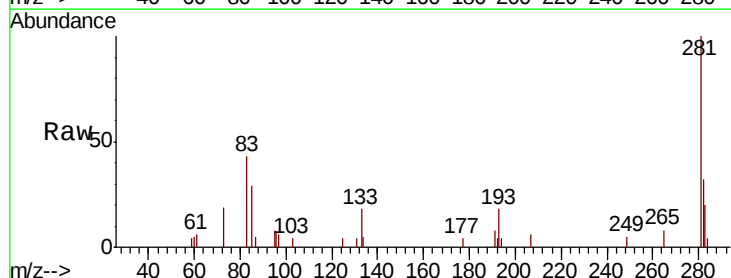
Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Tgt Ion: 83 Resp: 5354

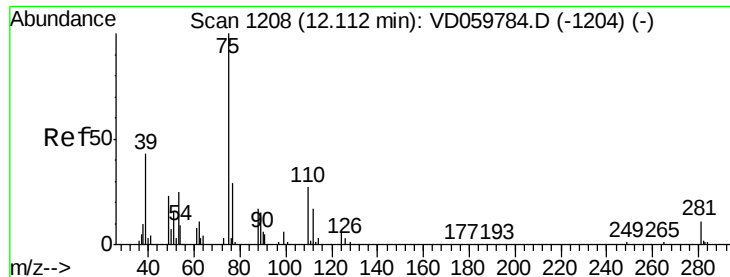
Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.0	15.0
85	68.1	32.8	98.3



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.59 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

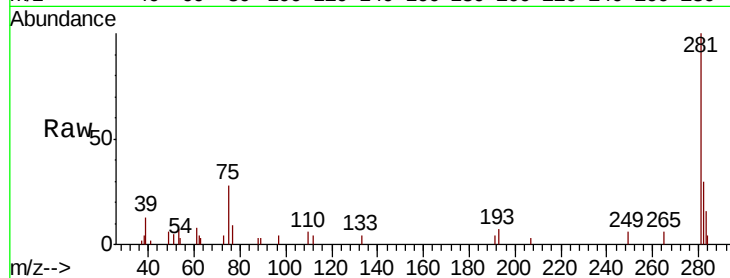
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 75 Resp: 6262

Ion Ratio Lower Upper

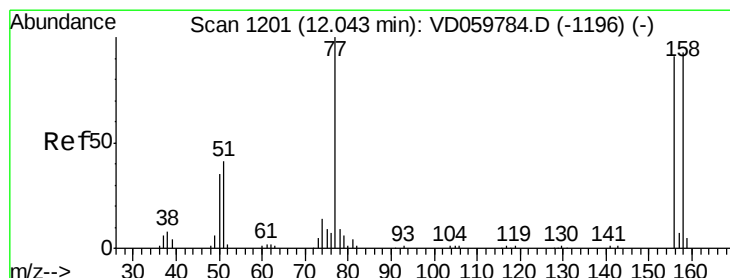
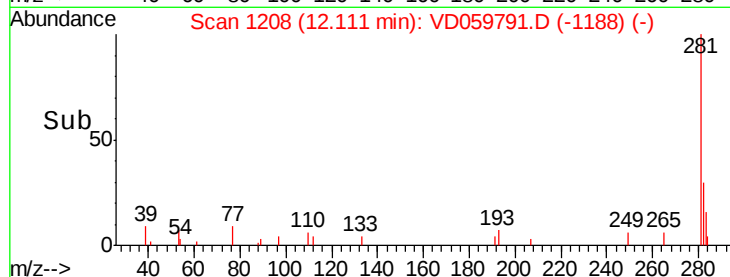
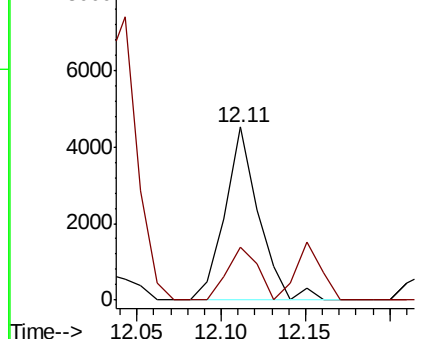
75 100

77 31.0 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: 2.71 ug/l

RT: 12.04 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

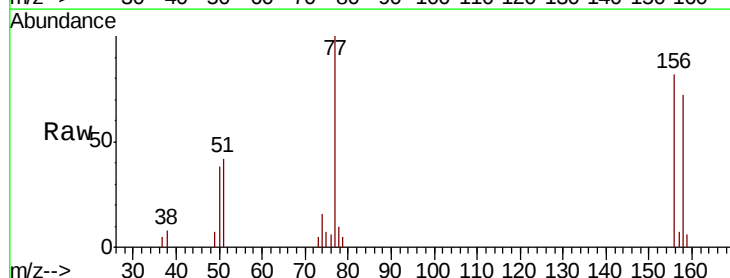
Tgt Ion: 156 Resp: 8356

Ion Ratio Lower Upper

156 100

77 122.1 54.9 164.8

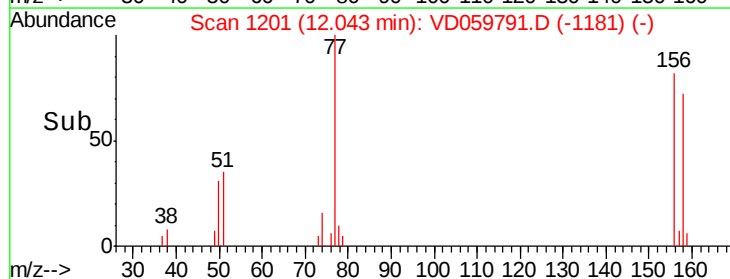
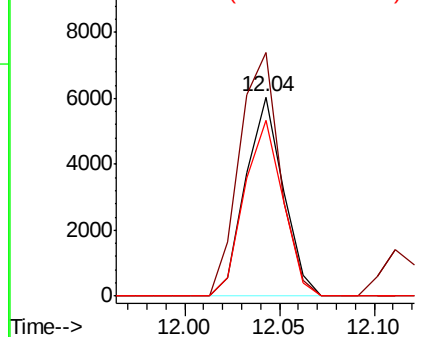
158 88.2 51.2 153.6

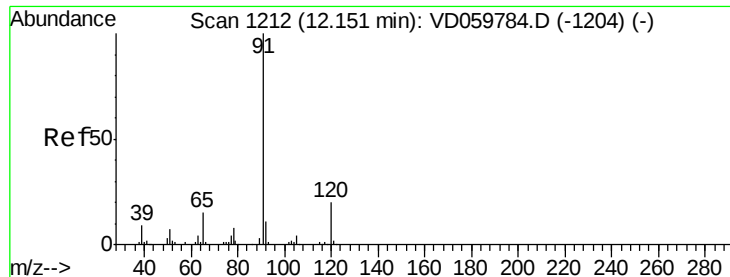


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V

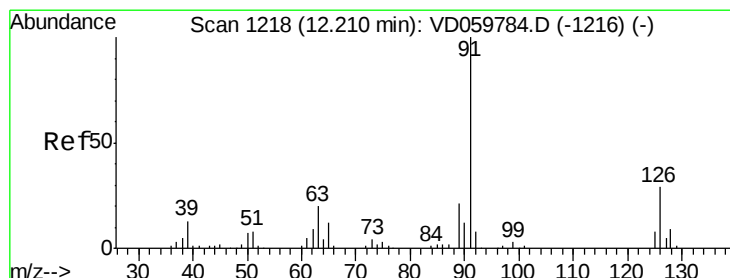
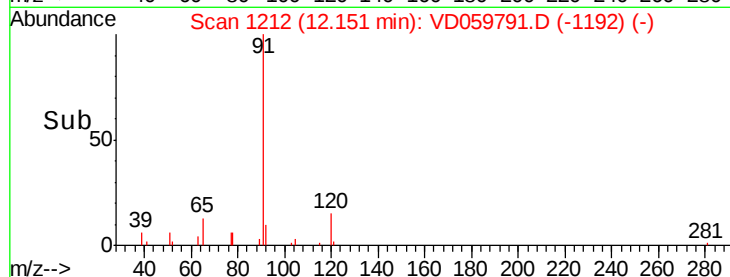
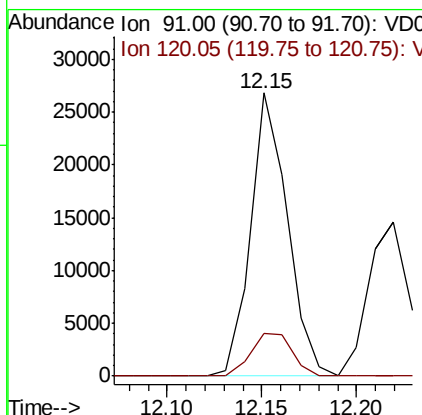
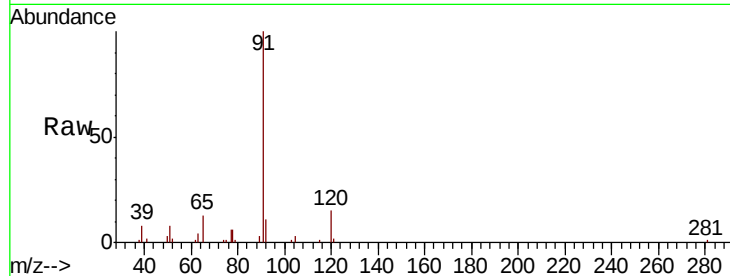




#78
n-propylbenzene
Concen: 2.68 ug/l
RT: 12.15 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

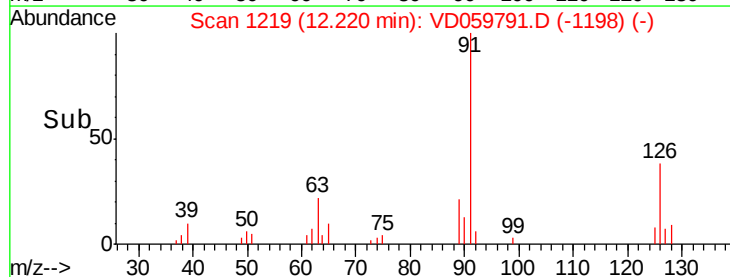
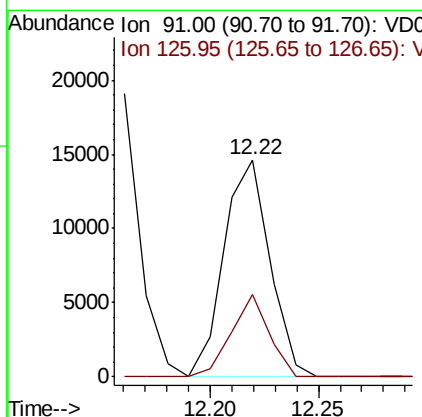
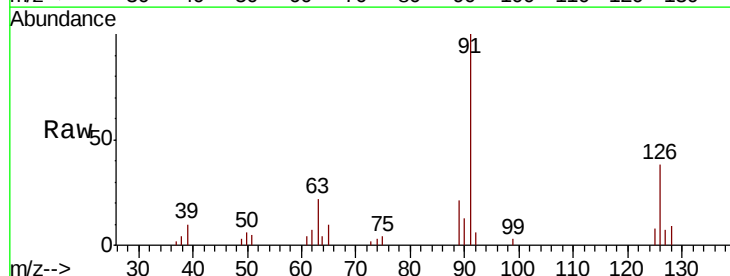
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

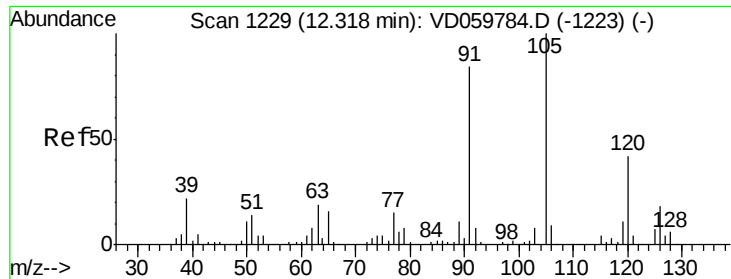
Tot Ion: 91 Resp: 36009
Ion Ratio Lower Upper
91 100
120 15.1 9.8 29.4



#79
2-Chlorotoluene
Concen: 2.65 ug/l
RT: 12.22 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion: 91 Resp: 21505
Ion Ratio Lower Upper
91 100
126 38.0 14.0 41.9

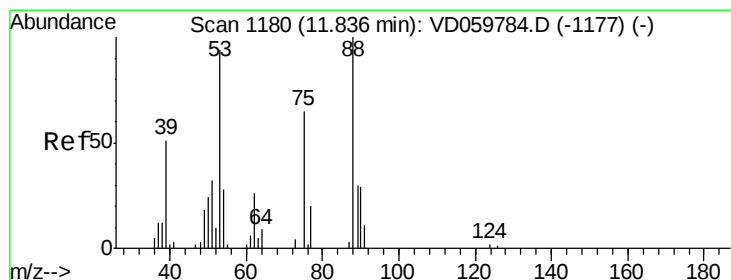
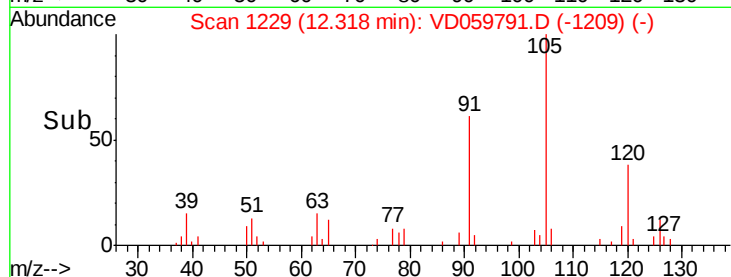
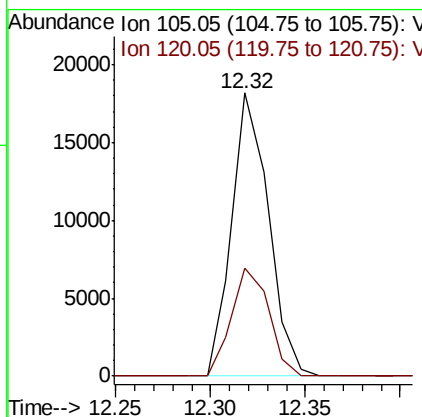
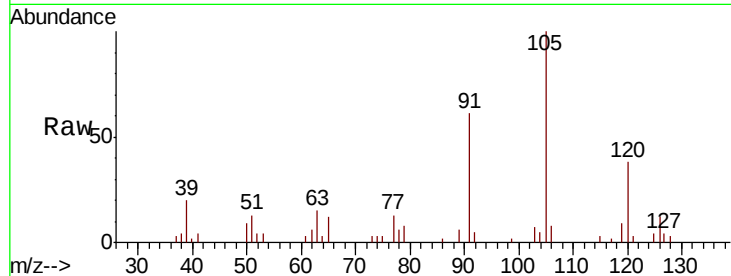




#80
 1,3,5-Trimethylbenzene
 Concen: 2.82 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

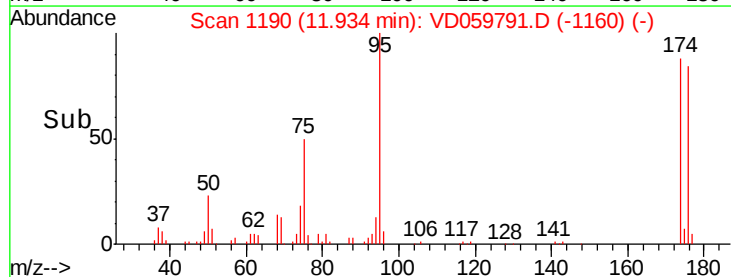
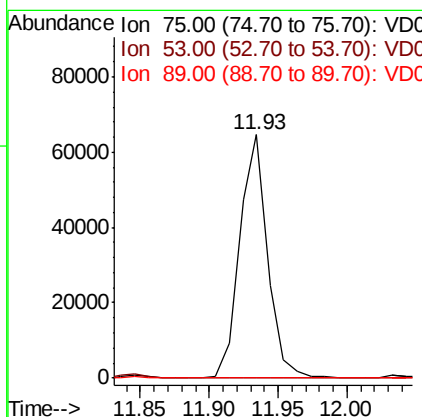
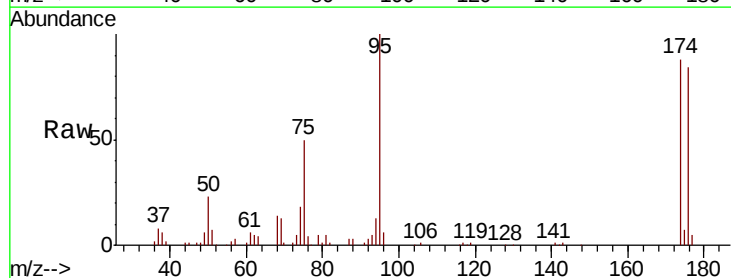
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

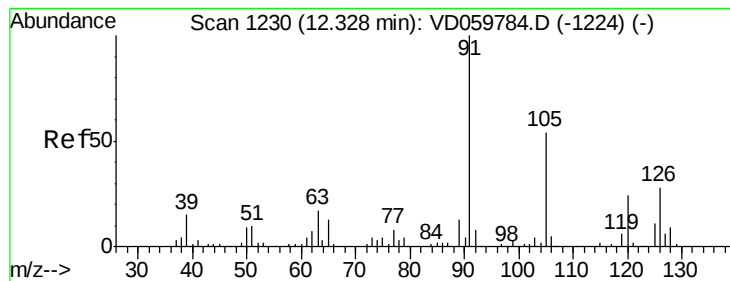
Tot Ion:105 Resp: 24357
 Ion Ratio Lower Upper
 105 100
 120 38.0 20.8 62.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 160.48 ug/l
 RT: 11.93 min Scan# 1190
 Delta R.T. 0.10 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 75 Resp: 90656
 Ion Ratio Lower Upper
 75 100
 53 0.0 116.2 174.2#
 89 0.0 37.0 55.6#





#82

4-Chlorotoluene

Concen: 2.71 ug/l

RT: 12.33 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

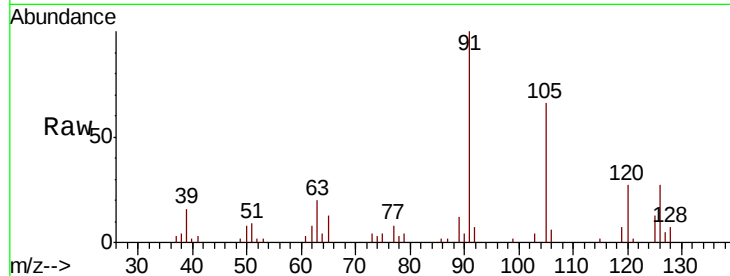
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 91 Resp: 24889

Ion Ratio Lower Upper

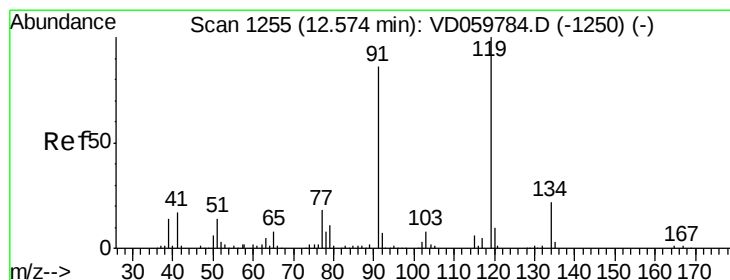
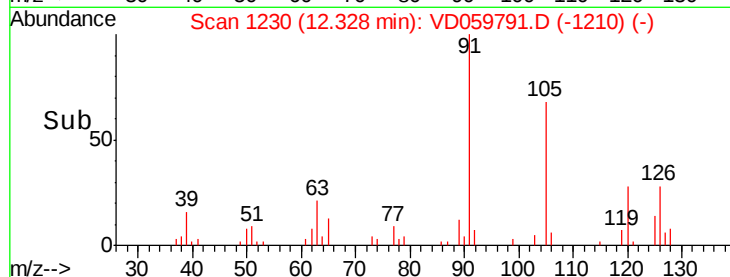
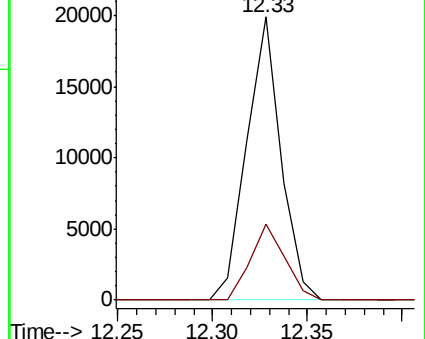
91 100

126 26.8 13.9 41.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#83

tert-Butylbenzene

Concen: 2.35 ug/l

RT: 12.57 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

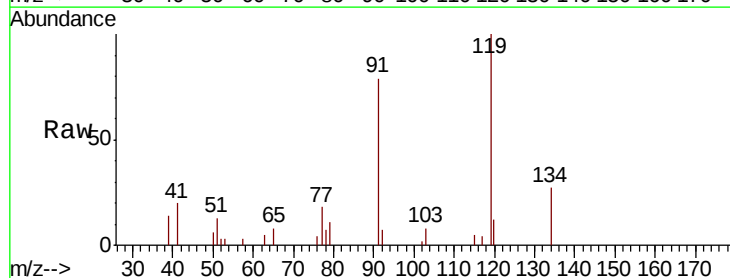
Tgt Ion: 119 Resp: 22397

Ion Ratio Lower Upper

119 100

91 79.3 43.1 129.3

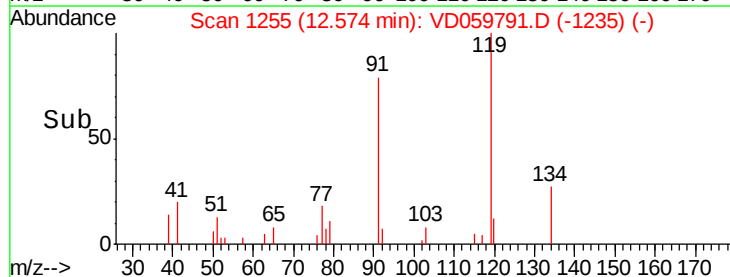
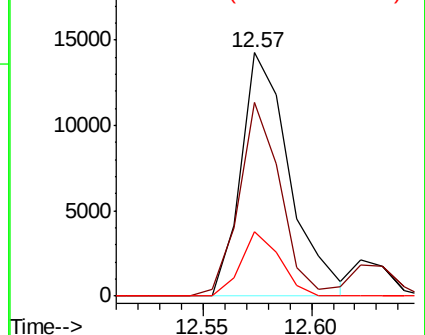
134 26.6 11.2 33.5

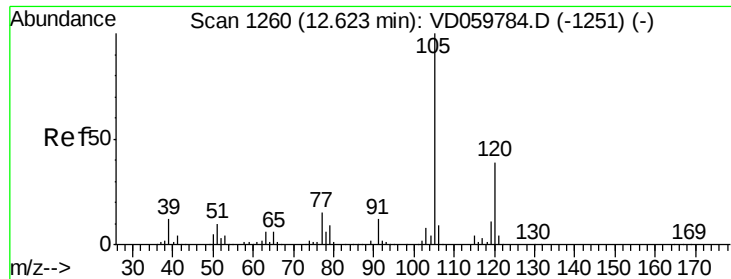


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

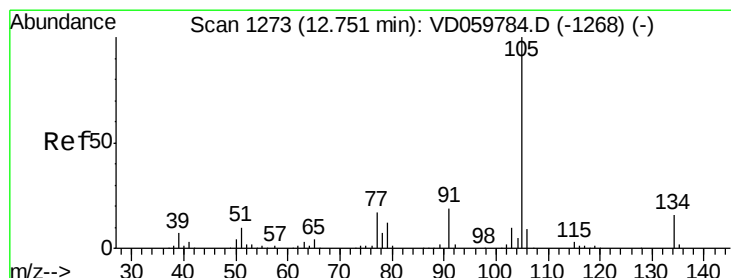
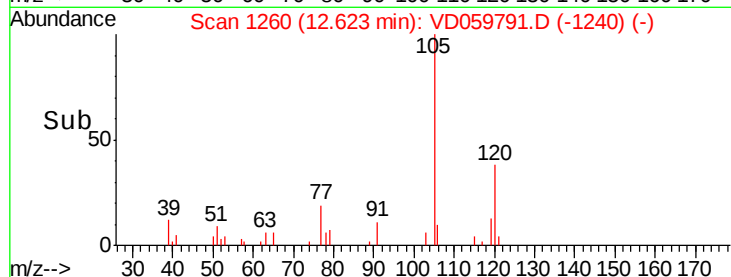
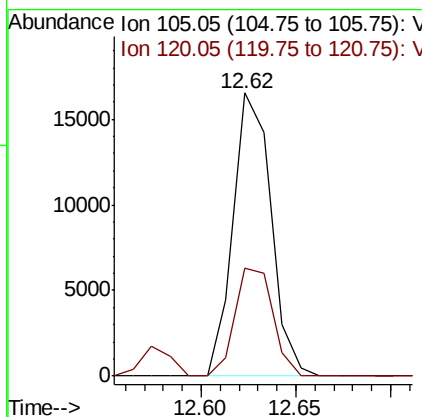
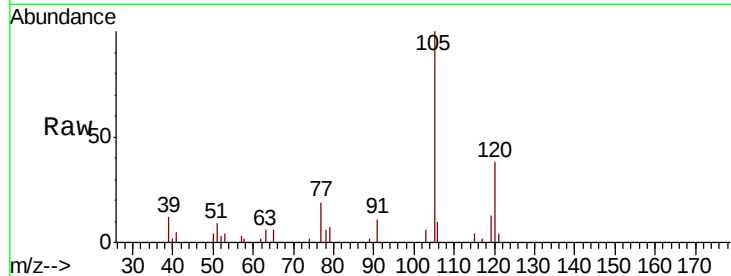




#84
 1,2,4-Trimethylbenzene
 Concen: 2.45 ug/l
 RT: 12.62 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

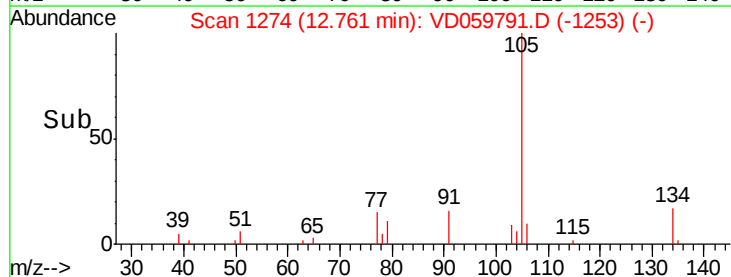
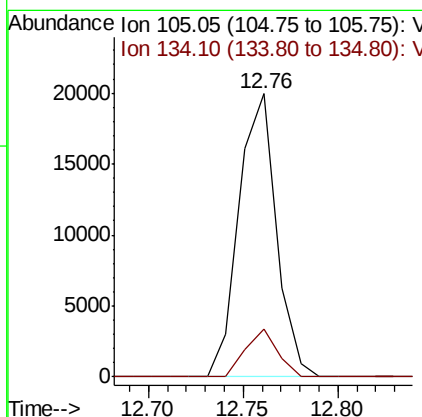
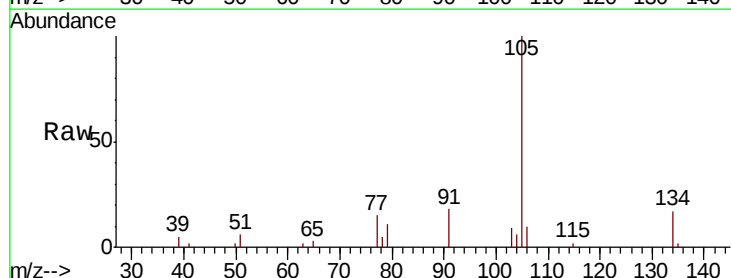
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

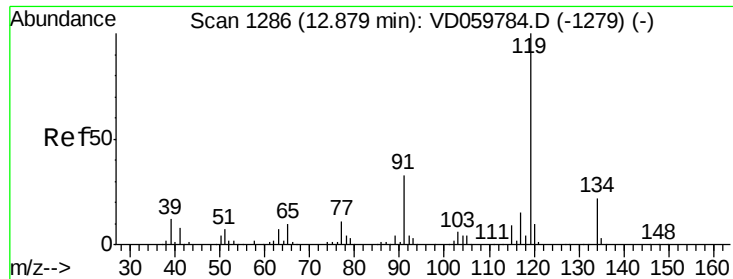
Tot Ion:105 Resp: 22806
 Ion Ratio Lower Upper
 105 100
 120 38.0 19.6 58.8



#85
 sec-Butylbenzene
 Concen: 2.47 ug/l
 RT: 12.76 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion:105 Resp: 27314
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.2 24.4

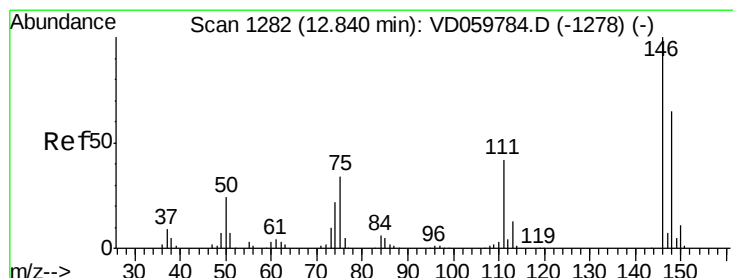
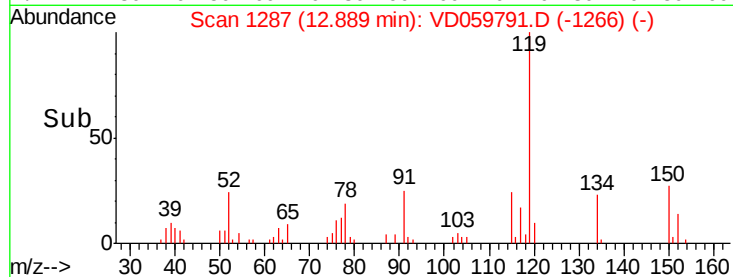
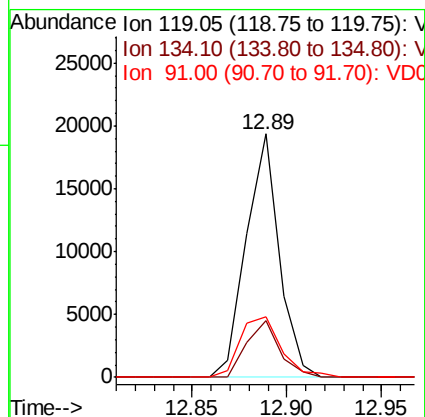
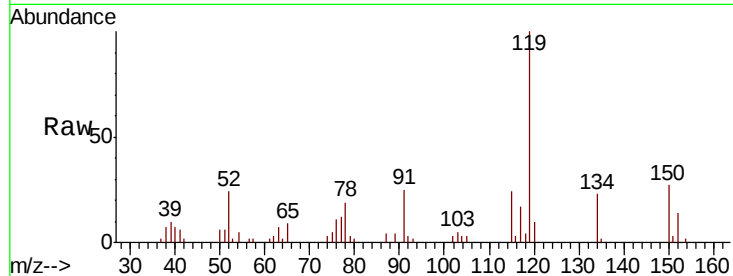




#86
 p-Isopropyltoluene
 Concen: 2.52 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

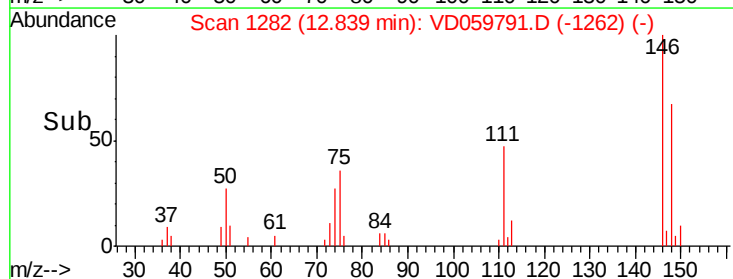
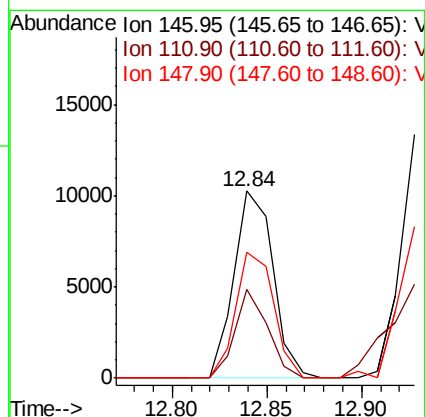
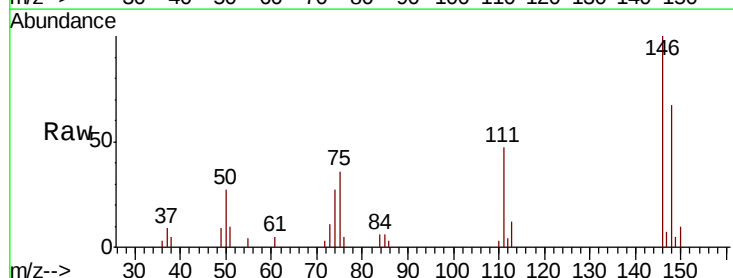
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

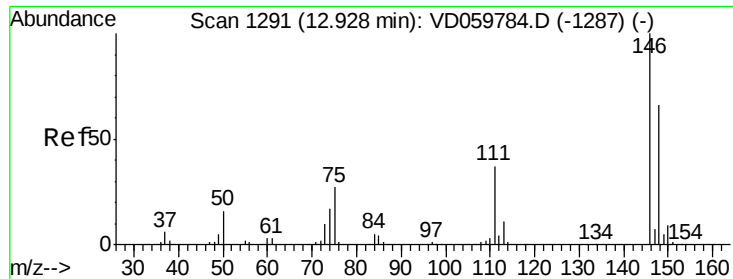
Tot Ion	Ratio	Lower	Upper
119	100		
134	23.0	10.9	32.6
91	24.8	16.4	49.4



#87
 1,3-Dichlorobenzene
 Concen: 2.64 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.3	20.9	62.8
148	67.3	32.6	97.8

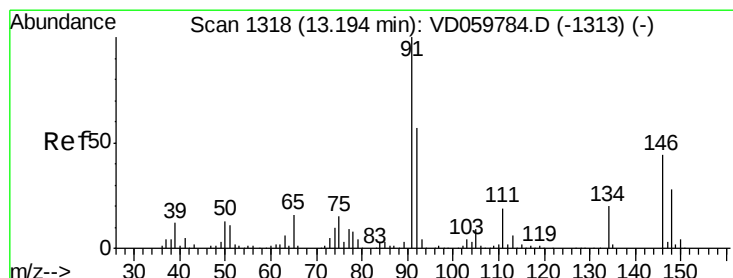
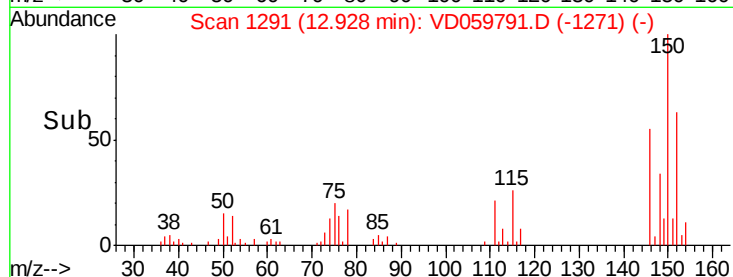
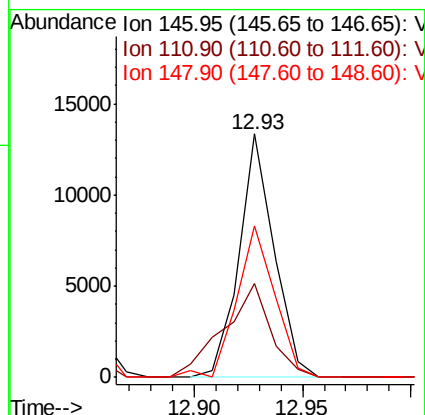
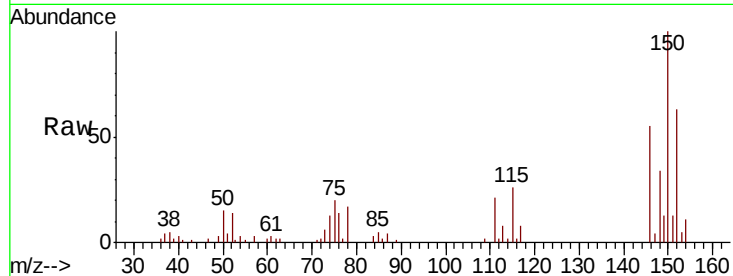




#88
 1,4-Dichlorobenzene
 Concen: 2.74 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. -0.00 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

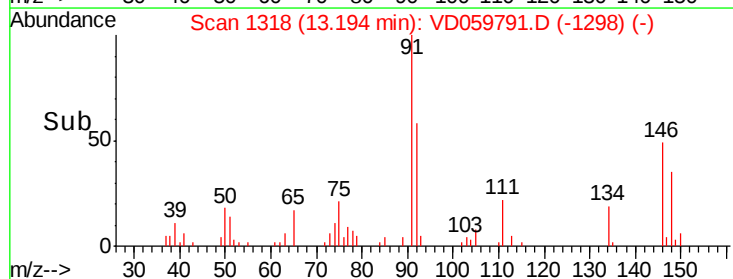
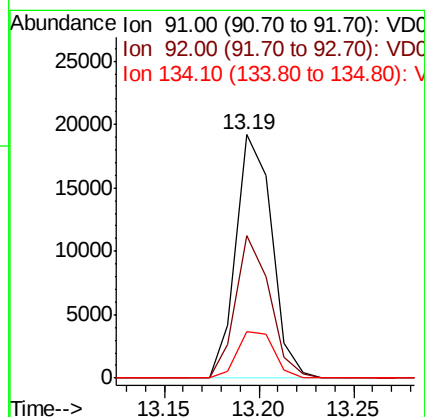
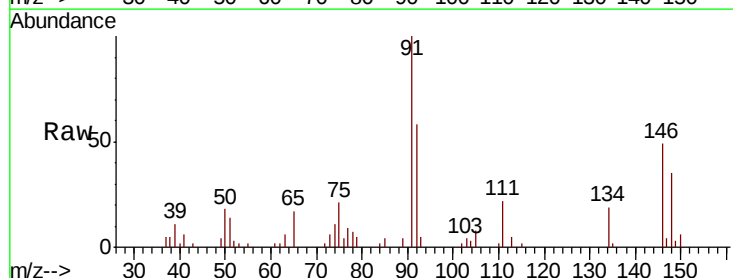
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

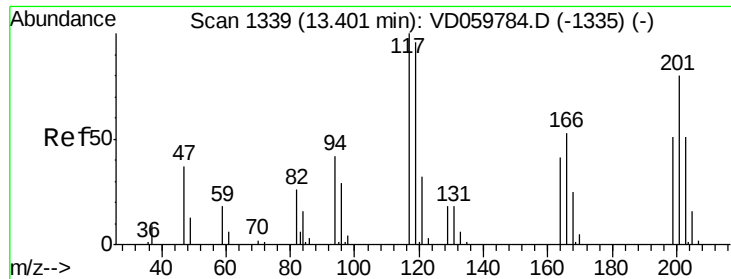
Tot Ion:146 Resp: 15023
 Ion Ratio Lower Upper
 146 100
 111 38.6 18.6 55.6
 148 62.0 33.0 99.0



#89
 n-Butylbenzene
 Concen: 2.69 ug/l
 RT: 13.19 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD059791.D
 Acq: 15 Aug 2018 5:05

Tgt Ion: 91 Resp: 25151
 Ion Ratio Lower Upper
 91 100
 92 58.5 28.4 85.3
 134 19.1 10.2 30.4

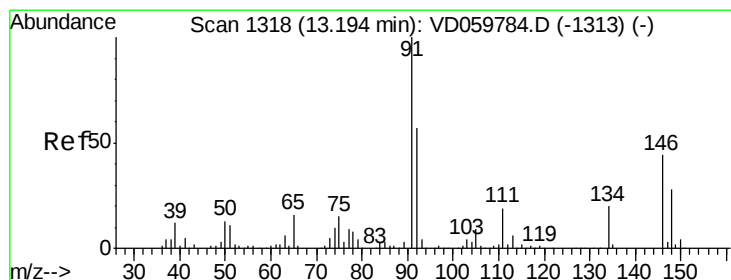
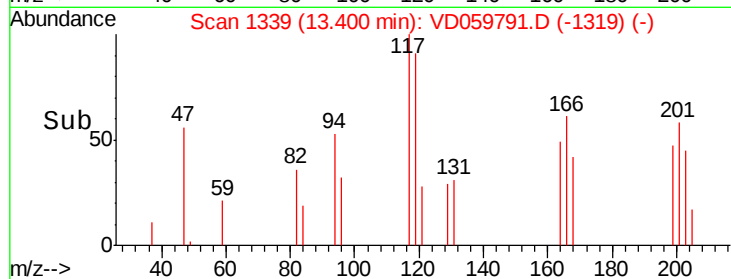
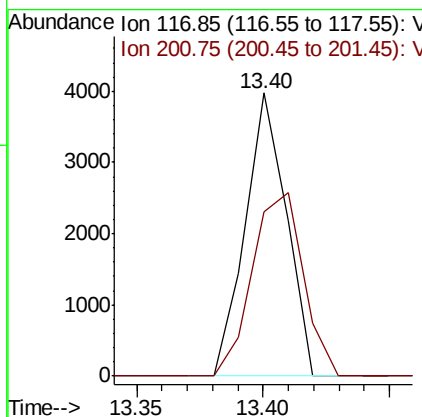
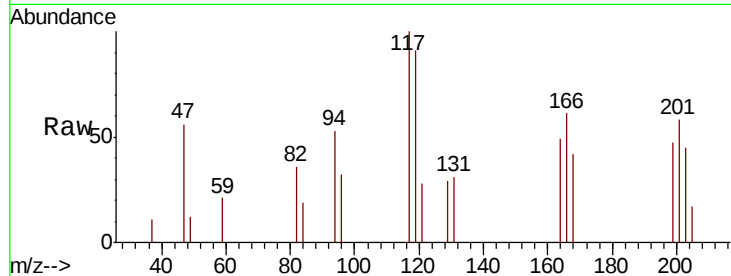




#90
Hexachloroethane
Concen: 1.93 ug/l
RT: 13.40 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

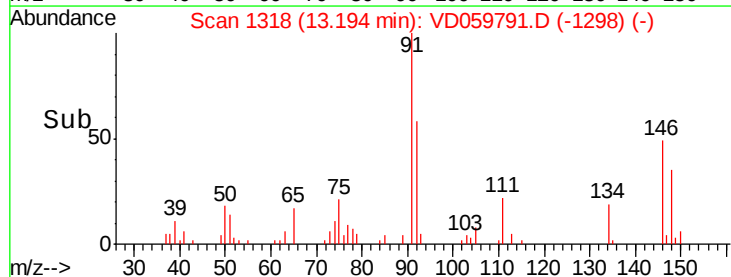
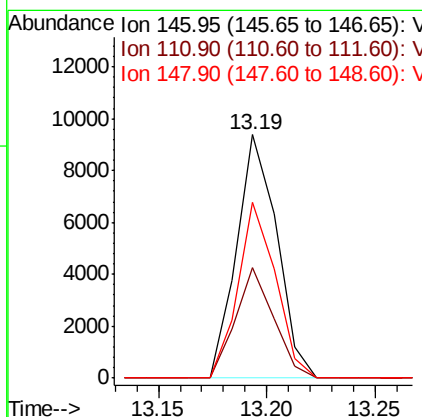
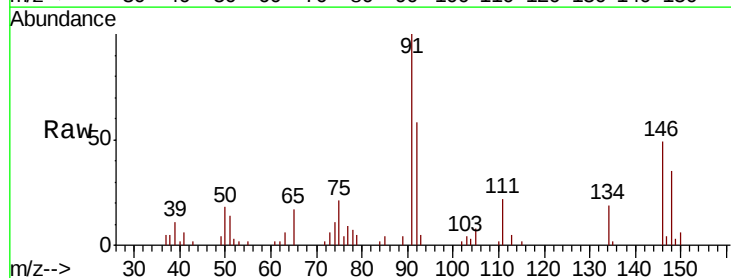
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

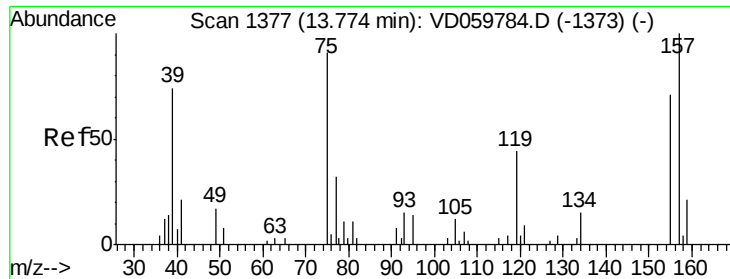
Tot Ion:117 Resp: 4485
Ion Ratio Lower Upper
117 100
201 58.2 39.9 119.7



#91
1,2-Dichlorobenzene
Concen: 2.69 ug/l
RT: 13.19 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VD059791.D
Acq: 15 Aug 2018 5:05

Tgt Ion:146 Resp: 12208
Ion Ratio Lower Upper
146 100
111 45.1 21.1 63.1
148 72.4 32.0 96.2





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.83 ug/l

RT: 13.77 min Scan# 1377

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

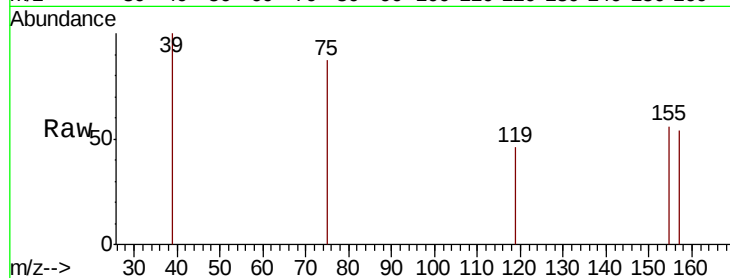
Tot Ion: 75 Resp: 713

Ion Ratio Lower Upper

75 100

155 64.5 39.0 117.0

157 62.4 54.8 164.3

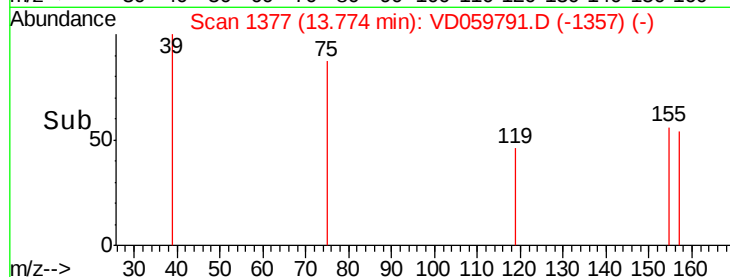


Abundance Ion 75.00 (74.70 to 75.70): V

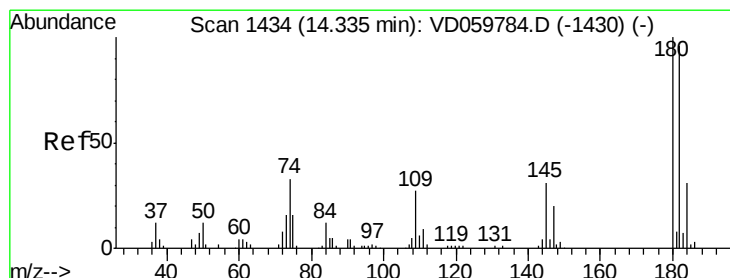
Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.68 ug/l

RT: 14.34 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

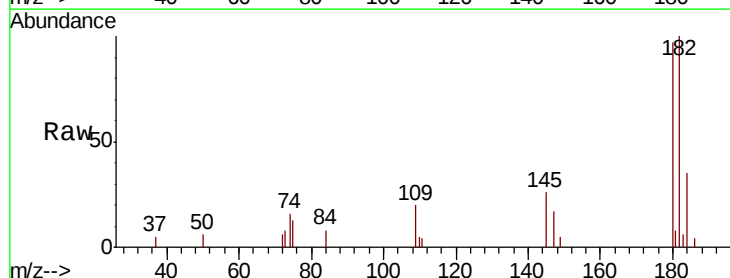
Tgt Ion: 180 Resp: 10192

Ion Ratio Lower Upper

180 100

182 103.6 48.0 144.0

145 27.3 15.5 46.5

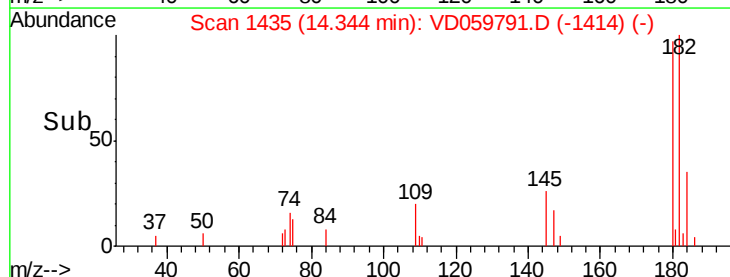


Abundance Ion 179.85 (179.55 to 180.55): V

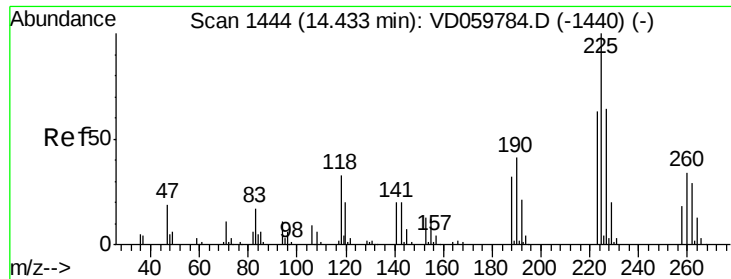
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

Time-->



Time-->



#94

Hexachlorobutadiene

Concen: 2.44 ug/l

RT: 14.43 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

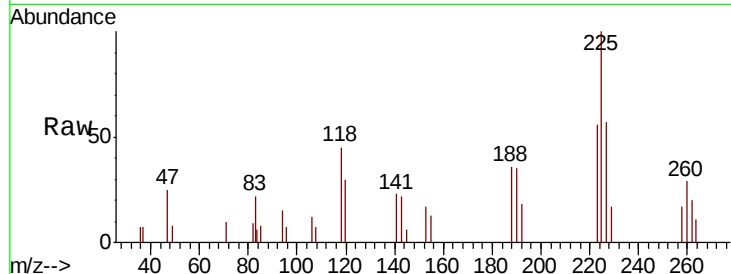
Tot Ion:225 Resp: 6843

Ion Ratio Lower Upper

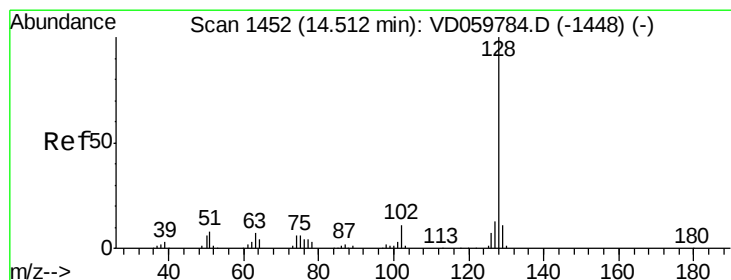
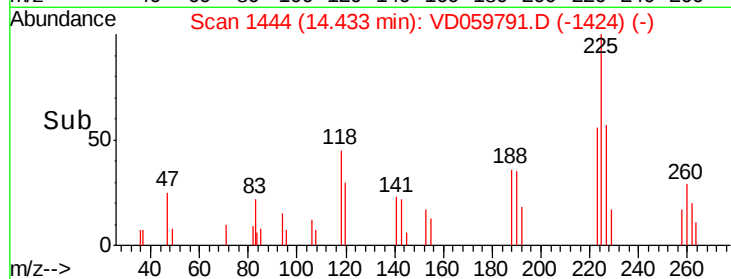
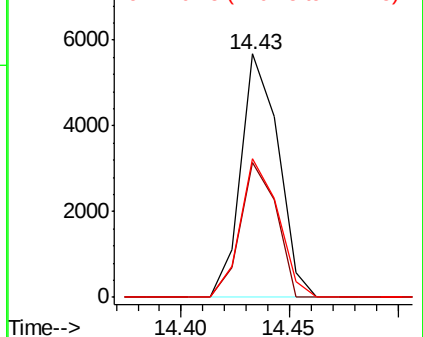
225 100

223 55.6 31.4 94.2

227 57.0 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: 2.31 ug/l

RT: 14.52 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

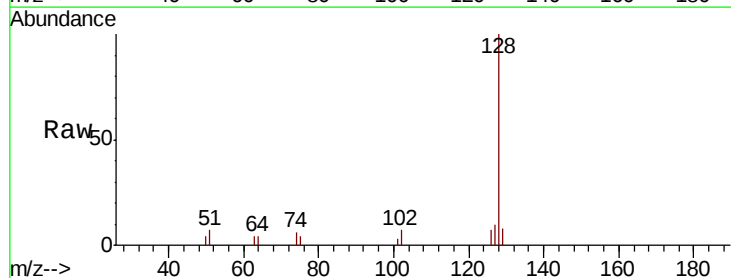
Tgt Ion:128 Resp: 13412

Ion Ratio Lower Upper

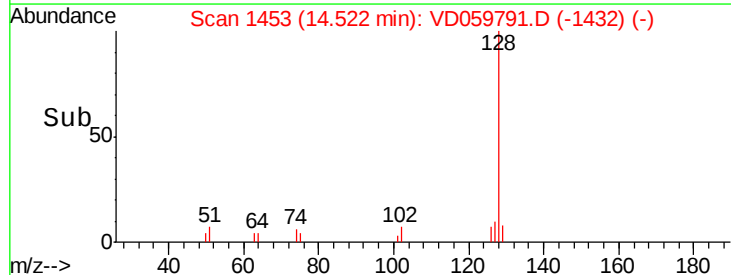
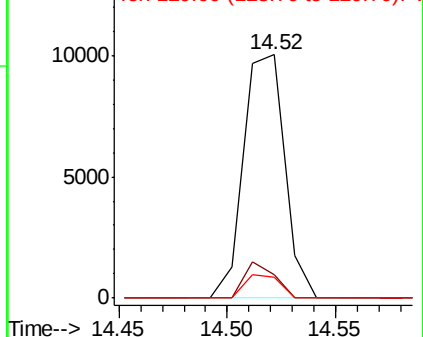
128 100

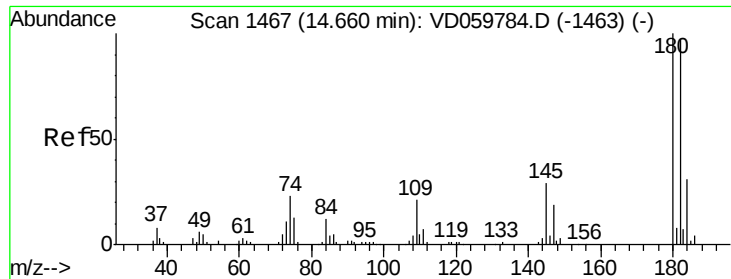
127 9.7 10.3 15.5#

129 8.5 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: 2.41 ug/l

RT: 14.66 min Scan# 1467

Delta R.T. -0.00 min

Lab File: VD059791.D

Acq: 15 Aug 2018 5:05

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

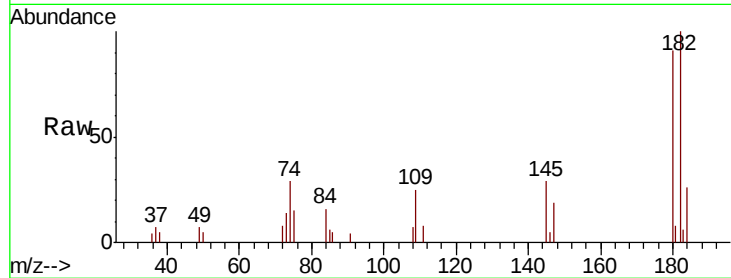
Tot Ion:180 Resp: 8079

Ion Ratio Lower Upper

180 100

182 109.9 48.5 145.5

145 32.2 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

