

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
 Data File : VD059520.D
 Acq On : 3 Jul 2018 00:15
 Operator : VA/AP
 Sample : J3762-03
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Quant Time: Jul 03 09:08:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 03 09:04:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	635660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.66	114	861512	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.67	117	761743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	384814	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.99	65	437331	52.68	ug/l	0.01
Spiked Amount			Recovery	=	105.36%	
35) Dibromofluoromethane	5.52	113	407372	56.22	ug/l	0.01
Spiked Amount			Recovery	=	112.44%	
50) Toluene-d8	8.68	98	936540	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	
62) 4-Bromofluorobenzene	11.92	95	396482	55.32	ug/l	0.00
Spiked Amount			Recovery	=	110.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.32	85	28993	3.581	ug/l	90
3) Chloromethane	1.47	50	17019	4.436	ug/l #	87
4) Vinyl Chloride	1.53	62	14674	3.834	ug/l #	86
5) Bromomethane	1.78	94	7767	5.361	ug/l	94
6) Chloroethane	1.86	64	7104	4.125	ug/l	91
7) Trichlorofluoromethane	2.07	101	24636	3.892	ug/l	90
8) Diethyl Ether	2.32	74	5708	4.709	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.54	101	16257	4.221	ug/l #	71
10) Methyl Iodide	2.67	142	12718	3.313	ug/l #	89
11) Tert butyl alcohol	3.24	59	5969	21.715	ug/l #	72
12) 1,1-Dichloroethene	2.52	96	11405	3.876	ug/l	86
13) Acrolein	2.45	56	4641	29.633	ug/l	84
14) Allyl chloride	2.89	41	24244	3.732	ug/l #	92
15) Acrylonitrile	3.33	53	14274	18.787	ug/l #	93
16) Acetone	2.59	43	26698	23.933	ug/l #	80
17) Carbon Disulfide	2.73	76	27444	5.627	ug/l	97
18) Methyl Acetate	2.90	43	12841	3.161	ug/l #	78
19) Methyl tert-butyl Ether	3.37	73	24917	3.276	ug/l #	85
20) Methylene Chloride	3.04	84	35708	8.262	ug/l	92
21) trans-1,2-Dichloroethene	3.36	96	12056	3.710	ug/l	83
22) Diisopropyl ether	4.03	45	92557	3.908	ug/l	99
23) Vinyl Acetate	3.99	43	223329	17.088	ug/l	97
24) 1,1-Dichloroethane	3.94	63	51250	3.822	ug/l	99
25) 2-Butanone	4.80	43	47514	20.478	ug/l	96
26) 2,2-Dichloropropane	4.76	77	39485	3.602	ug/l	98
27) cis-1,2-Dichloroethene	4.77	96	24938	3.544	ug/l	90
28) Bromochloromethane	5.12	49	24700	4.801	ug/l	89
29) Tetrahydrofuran	5.16	42	22359	18.923	ug/l	97
30) Chloroform	5.29	83	55435	3.919	ug/l	93
31) Cyclohexane	5.56	56	53037	3.171	ug/l	97
32) 1,1,1-Trichloroethane	5.48	97	39691	3.541	ug/l	95
36) 1,1-Dichloropropene	5.72	75	36908	3.990	ug/l	92
37) Ethyl Acetate	4.90	43	20806	4.043	ug/l #	95
38) Carbon Tetrachloride	5.70	117	34433	3.786	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	7.26	83	35677	4.234	ug/l	88
40) Benzene	5.98	78	89829	4.219	ug/l	98
41) Methacrylonitrile	5.10	41	10437	3.999	ug/l #	92
42) 1,2-Dichloroethane	6.10	62	35966	3.776	ug/l	89
43) Isopropyl Acetate	7.60	43	24084	3.537	ug/l #	98
44) Trichloroethene	6.96	130	22994	3.558	ug/l	69
45) 1,2-Dichloropropane	7.32	63	24830	4.172	ug/l #	88
46) Dibromomethane	7.44	93	14736	3.659	ug/l	91
47) Bromodichloromethane	7.72	83	35483	3.785	ug/l #	94
48) Methyl methacrylate	7.48	41	16308	3.840	ug/l	89
49) 1,4-Dioxane	7.48	88	2369	59.868	ug/l #	84
51) 4-Methyl-2-Pentanone	8.57	43	91796	20.644	ug/l	94
52) Toluene	8.78	92	49833	4.240	ug/l	97
53) t-1,3-Dichloropropene	9.17	75	29715	3.639	ug/l	97
54) cis-1,3-Dichloropropene	8.34	75	34627	3.657	ug/l	94
55) 1,1,2-Trichloroethane	9.43	97	19630	4.554	ug/l #	91
56) Ethyl methacrylate	9.29	69	20945	3.879	ug/l	91
57) 1,3-Dichloropropane	9.65	76	28998	3.735	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.17	63	57035	21.836	ug/l	100
59) 2-Hexanone	9.76	43	62058	18.975	ug/l	95
60) Dibromochloromethane	9.94	129	21838	3.630	ug/l	95
61) 1,2-Dibromoethane	10.08	107	19085	4.000	ug/l #	80
64) Tetrachloroethene	9.49	164	26830	4.095	ug/l	93
65) Chlorobenzene	10.71	112	61990	4.224	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.84	131	22229	3.720	ug/l	95
67) Ethyl Benzene	10.84	91	108751	4.179	ug/l	92
68) m/p-Xylenes	10.99	106	64413	7.504	ug/l	88
69) o-Xylene	11.39	106	34575	4.180	ug/l	99
70) Styrene	11.42	104	53591	3.865	ug/l	97
71) Bromoform	11.59	173	13397	2.970	ug/l	94
73) Isopropylbenzene	11.76	105	98789	4.296	ug/l	98
74) N-amyl acetate	11.63	43	33253	3.426	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.07	83	22804	3.827	ug/l	98
76) 1,2,3-Trichloropropane	12.10	75	23809	3.834	ug/l	98
77) Bromobenzene	12.03	156	27893	3.864	ug/l	91
78) n-propylbenzene	12.14	91	128393	4.168	ug/l	95
79) 2-Chlorotoluene	12.21	91	71183	3.929	ug/l	100
80) 1,3,5-Trimethylbenzene	12.30	105	78066	4.177	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.92	75	212437	125.110	ug/l #	4
82) 4-Chlorotoluene	12.31	91	87243	4.249	ug/l	91
83) tert-Butylbenzene	12.56	119	79635	3.745	ug/l	94
84) 1,2,4-Trimethylbenzene	12.62	105	84915	4.229	ug/l	96
85) sec-Butylbenzene	12.75	105	102392	4.196	ug/l	98
86) p-Isopropyltoluene	12.87	119	85631	4.183	ug/l	95
87) 1,3-Dichlorobenzene	12.83	146	51944	4.203	ug/l	99
88) 1,4-Dichlorobenzene	12.91	146	48993	4.039	ug/l	92
89) n-Butylbenzene	13.19	91	90099	4.316	ug/l	95
90) Hexachloroethane	13.39	117	18956	3.574	ug/l	99
91) 1,2-Dichlorobenzene	13.18	146	46085	4.433	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.76	75	3131	3.049	ug/l #	65

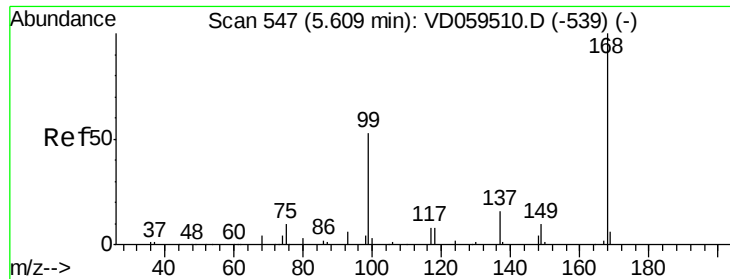
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	37627	4.084	ug/l	96
94) Hexachlorobutadiene	14.43	225	27723	3.934	ug/l	90
95) Naphthalene	14.51	128	50584	3.691	ug/l	96
96) 1,2,3-Trichlorobenzene	14.66	180	32013	3.951	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

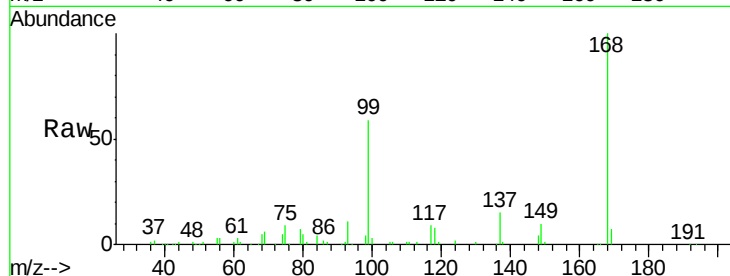
MDL-SOIL-03-QT3-2018

Tot Ion:168 Resp: 635660

Ion Ratio Lower Upper

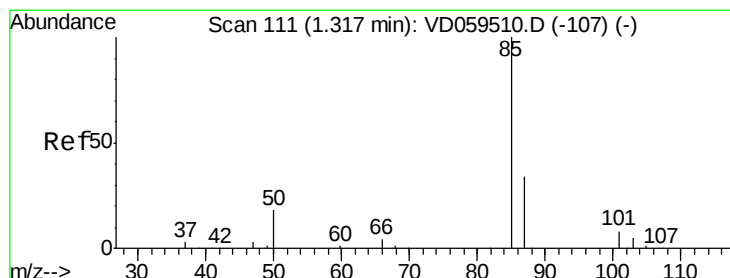
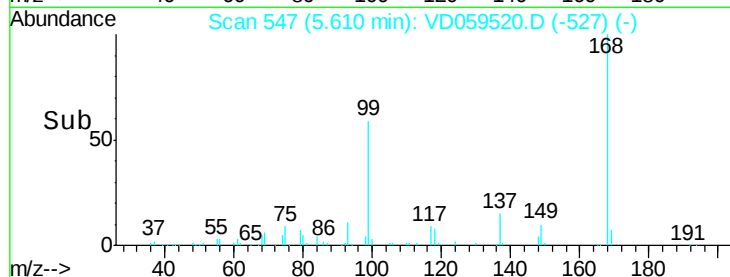
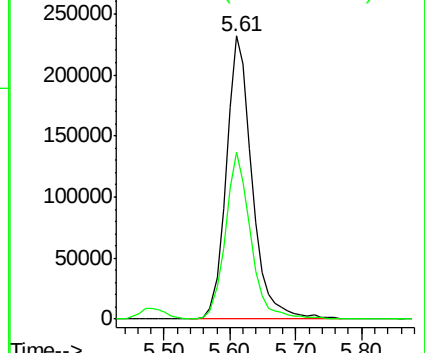
168 100

99 58.8 45.1 67.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 3.581 ug/l

RT: 1.32 min Scan# 111

Delta R.T. 0.00 min

Lab File: VD059520.D

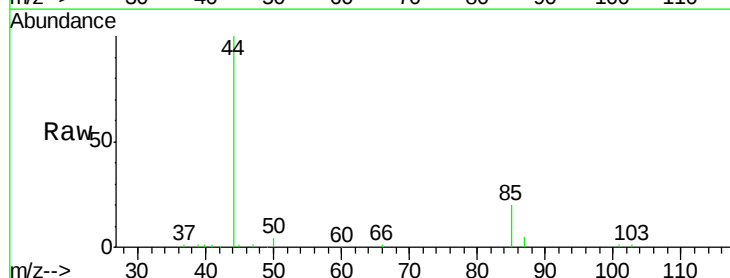
Acq: 3 Jul 2018 00:15

Tgt Ion: 85 Resp: 28993

Ion Ratio Lower Upper

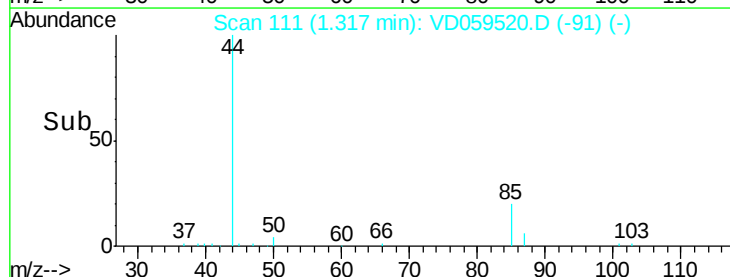
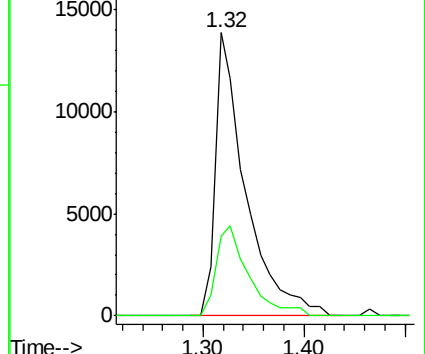
85 100

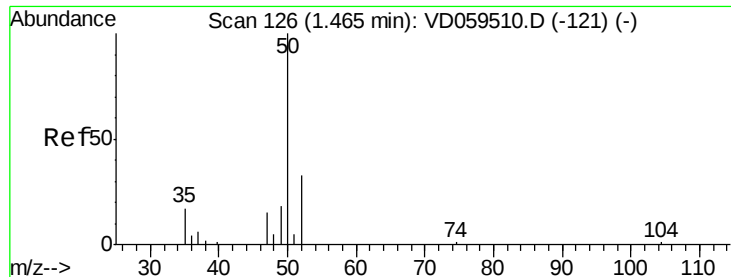
87 28.0 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.436 ug/l

RT: 1.47 min Scan# 127

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

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ClientSampleId :

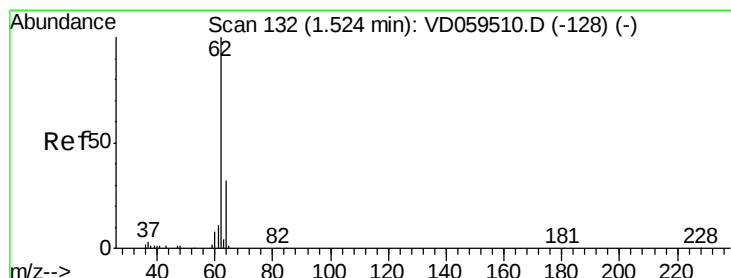
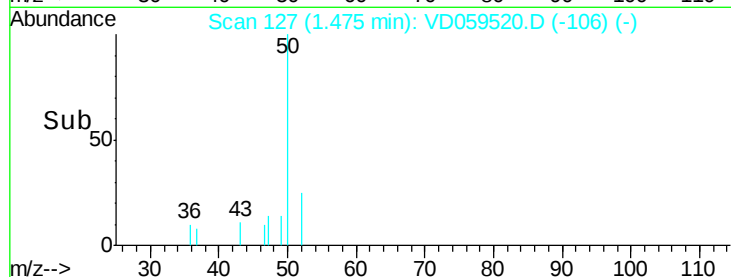
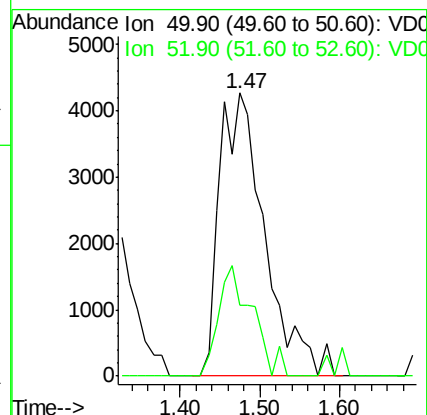
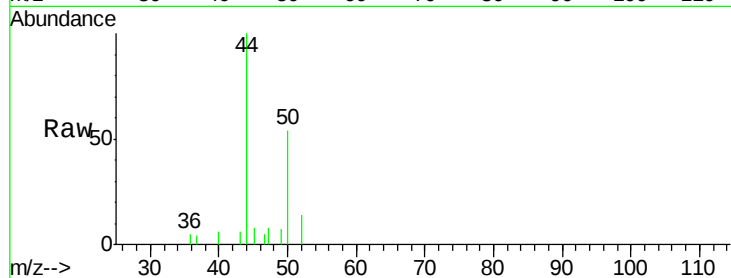
MDL-SOIL-03-QT3-2018

Tot Ion: 50 Resp: 17019

Ion Ratio Lower Upper

50 100

52 25.1 25.8 38.6#



#4

Vinyl Chloride

Concen: 3.834 ug/l

RT: 1.53 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059520.D

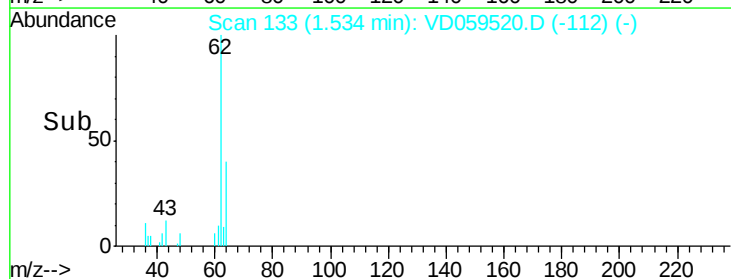
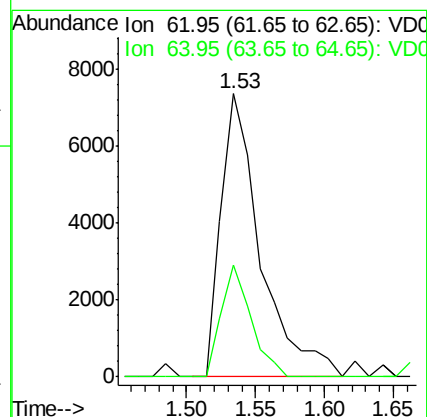
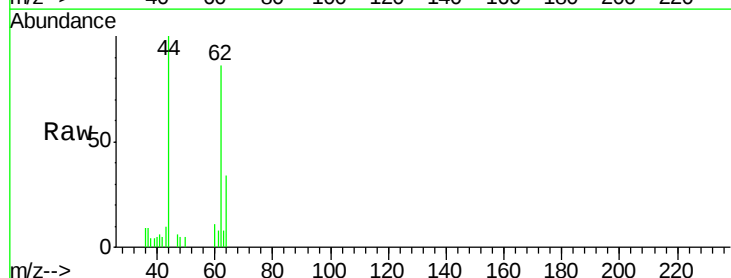
Acq: 3 Jul 2018 00:15

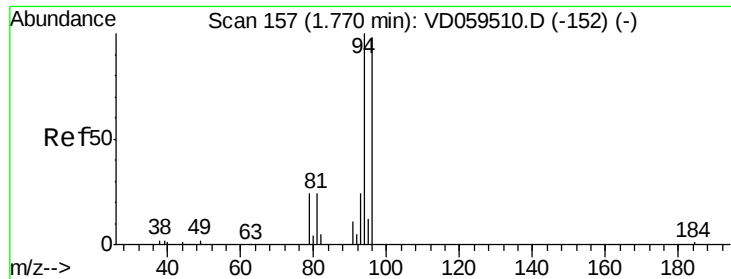
Tgt Ion: 62 Resp: 14674

Ion Ratio Lower Upper

62 100

64 39.6 25.4 38.2#





#5

Bromomethane

Concen: 5.361 ug/l

RT: 1.78 min Scan# 158

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

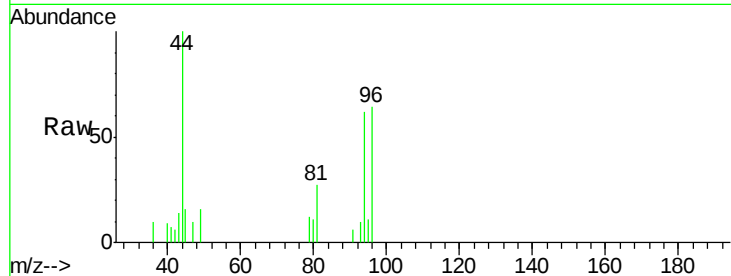
MDL-SOIL-03-QT3-2018

Tot Ion: 94 Resp: 7767

Ion Ratio Lower Upper

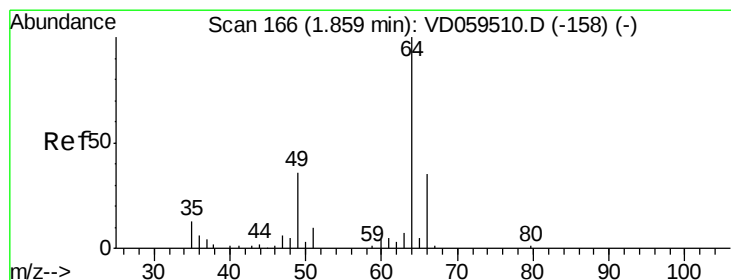
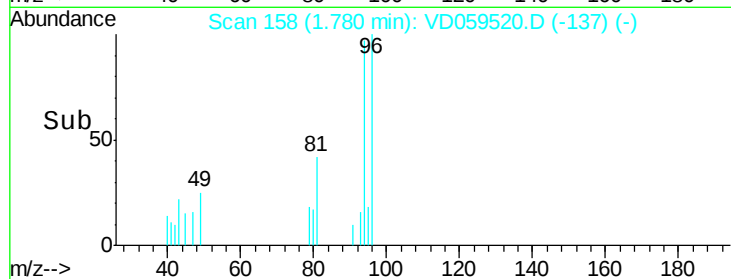
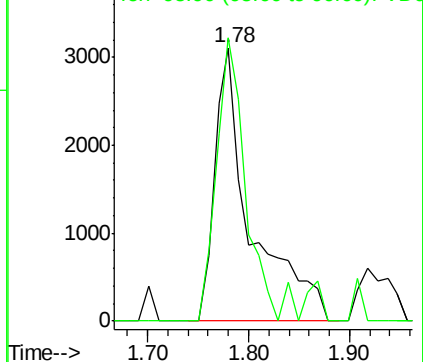
94 100

96 103.5 78.2 117.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.125 ug/l

RT: 1.86 min Scan# 166

Delta R.T. 0.00 min

Lab File: VD059520.D

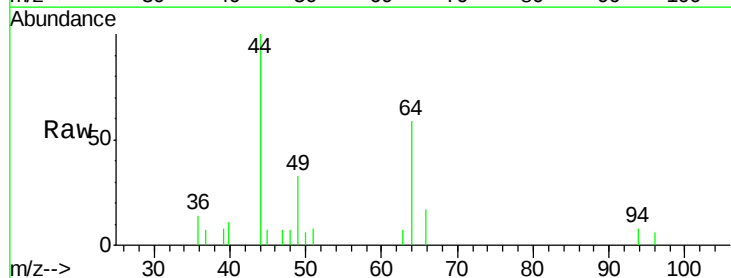
Acq: 3 Jul 2018 00:15

Tgt Ion: 64 Resp: 7104

Ion Ratio Lower Upper

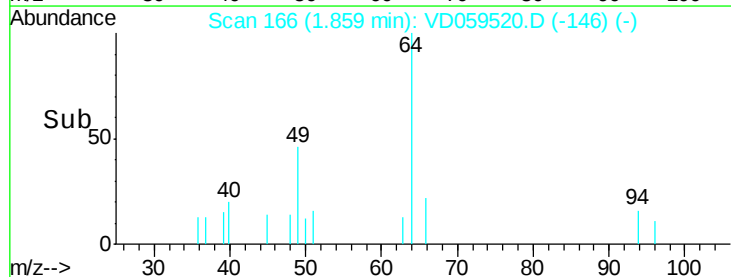
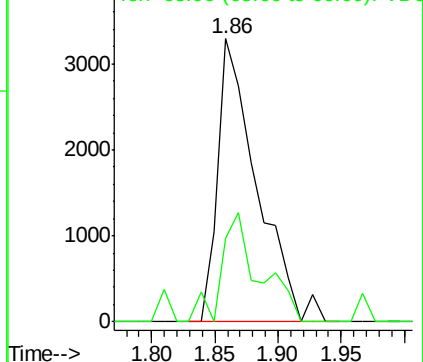
64 100

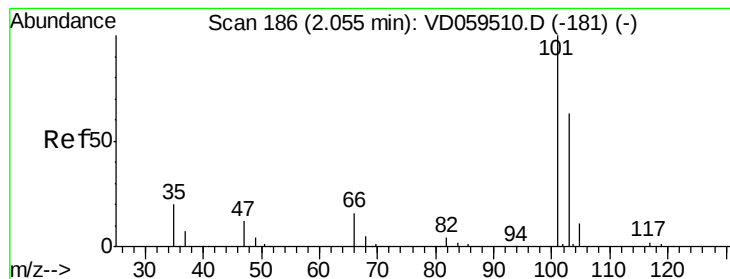
66 29.5 27.6 41.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



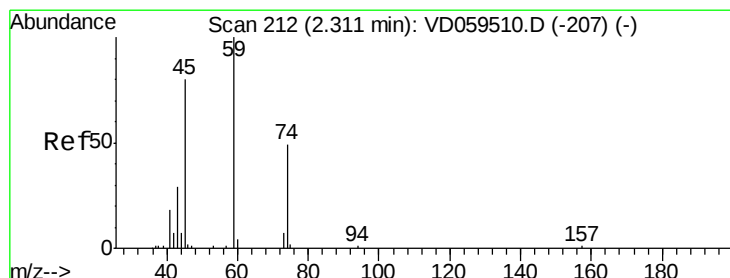
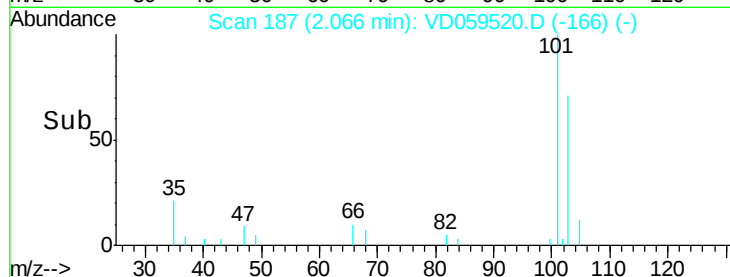
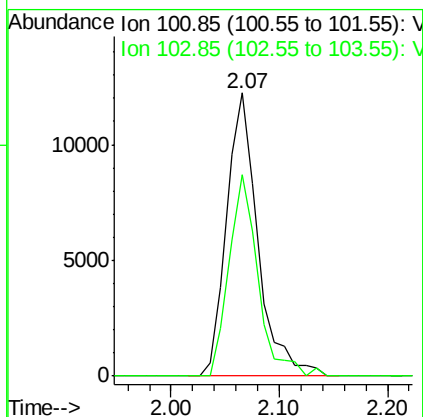
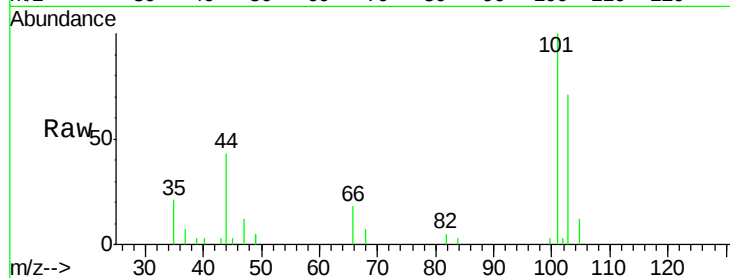


#7

Trichlorofluoromethane
Concen: 3.892 ug/l
RT: 2.07 min Scan# 187
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Instrument :
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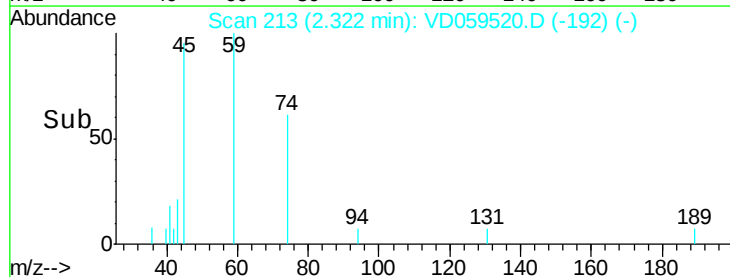
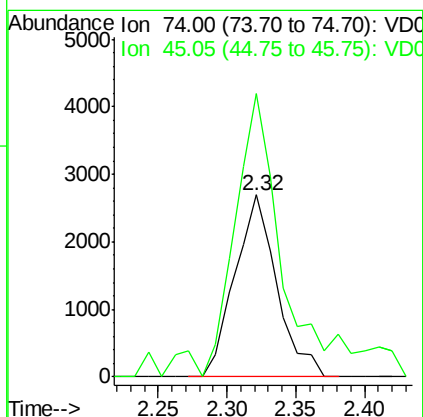
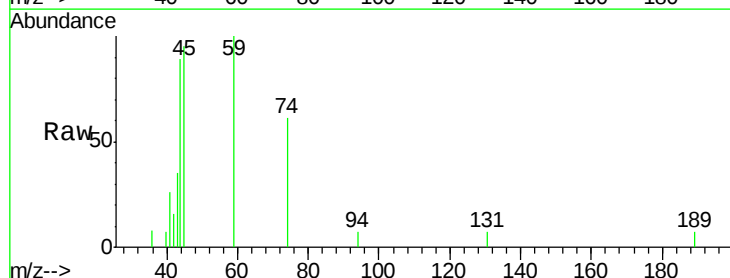
Tot Ion:101 Resp: 24636
Ion Ratio Lower Upper
101 100
103 71.0 50.6 76.0

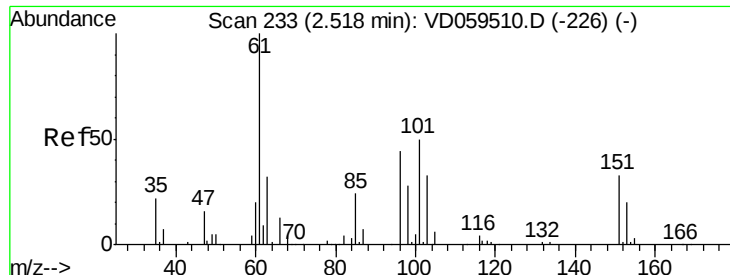


#8

Diethyl Ether
Concen: 4.709 ug/l
RT: 2.32 min Scan# 213
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 74 Resp: 5708
Ion Ratio Lower Upper
74 100
45 155.7 83.5 250.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.221 ug/l

RT: 2.54 min Scan# 235

Delta R.T. 0.02 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

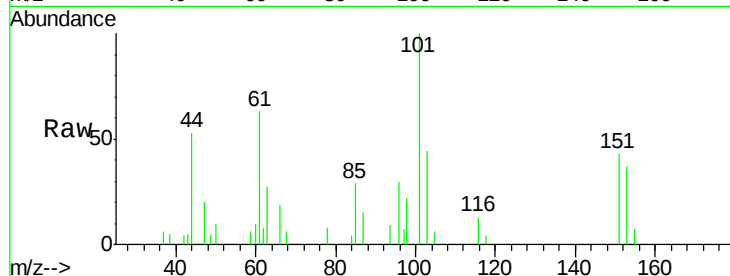
Tot Ion:101 Resp: 16257

Ion Ratio Lower Upper

101 100

85 28.9 38.8 58.2#

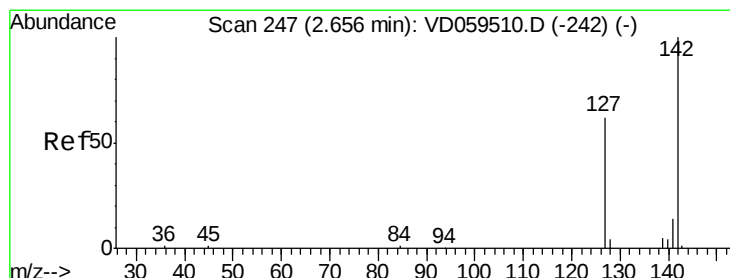
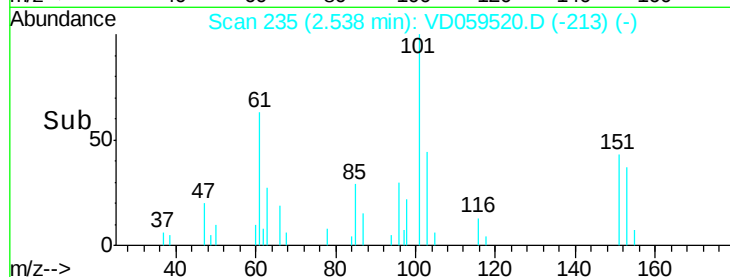
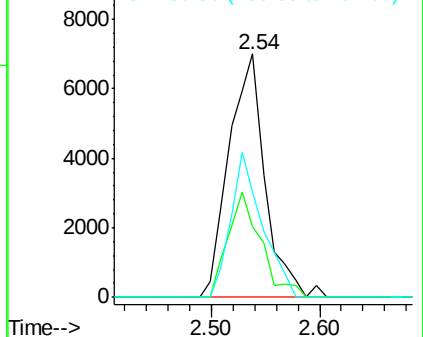
151 43.2 52.6 79.0#



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 3.313 ug/l

RT: 2.67 min Scan# 248

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

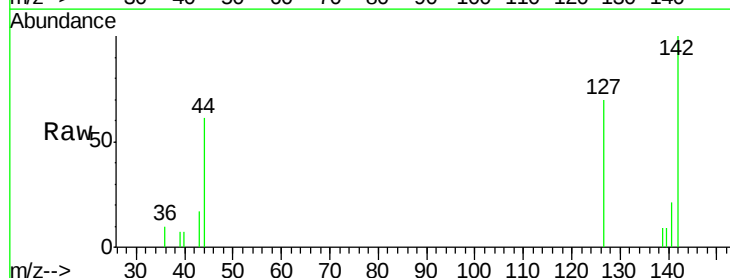
Tgt Ion:142 Resp: 12718

Ion Ratio Lower Upper

142 100

127 69.5 49.8 74.8

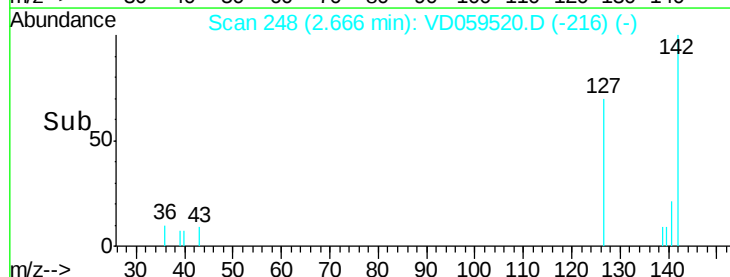
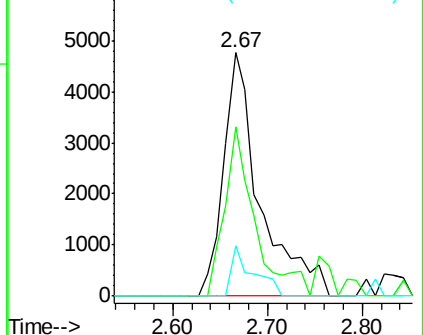
141 20.8 11.1 16.7#

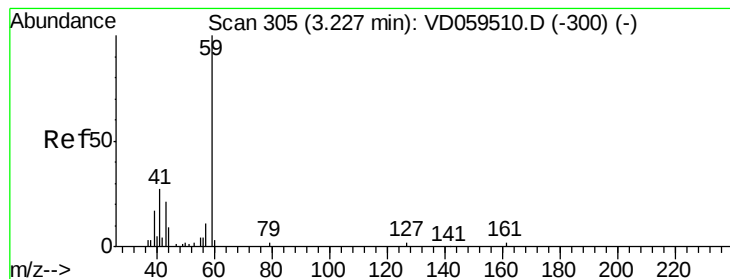


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 21.715 ug/l

RT: 3.24 min Scan# 306

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

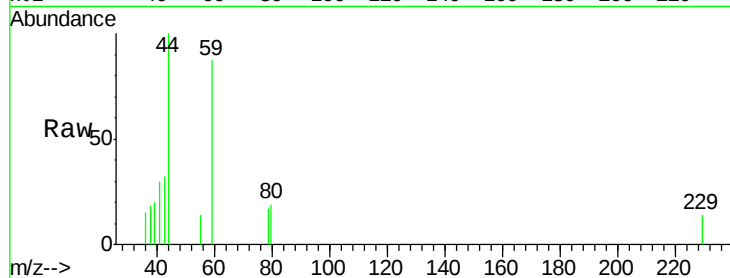
MDL-SOIL-03-QT3-2018

Tot Ion: 59 Resp: 5969

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.24

2000

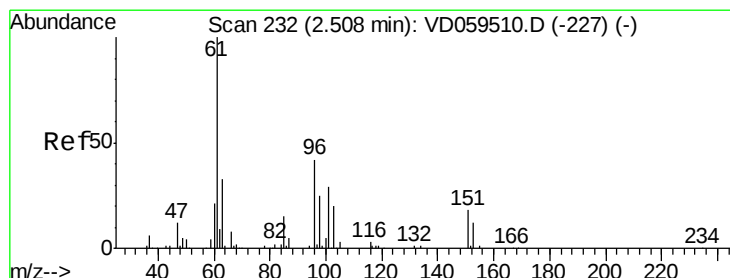
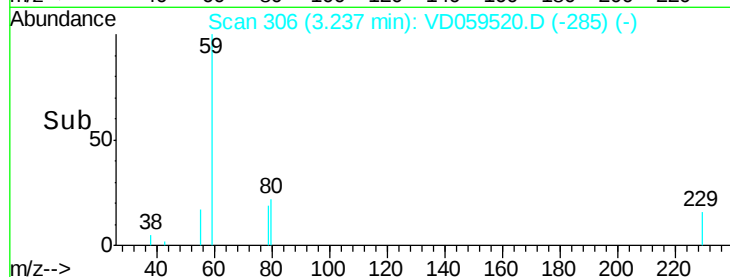
1500

1000

500

0

Time--> 3.15 3.20 3.25 3.30



#12

1,1-Dichloroethene

Concen: 3.876 ug/l

RT: 2.52 min Scan# 233

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

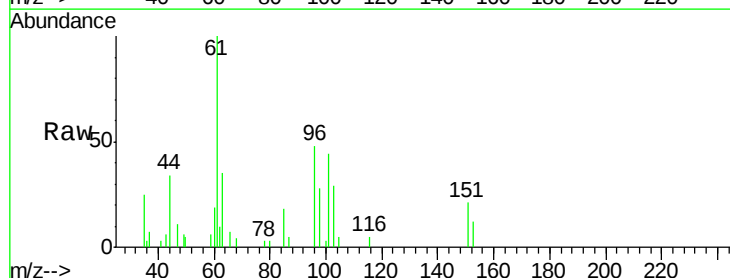
Tgt Ion: 96 Resp: 11405

Ion Ratio Lower Upper

96 100

61 207.3 189.4 284.0

98 58.0 47.9 71.9



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

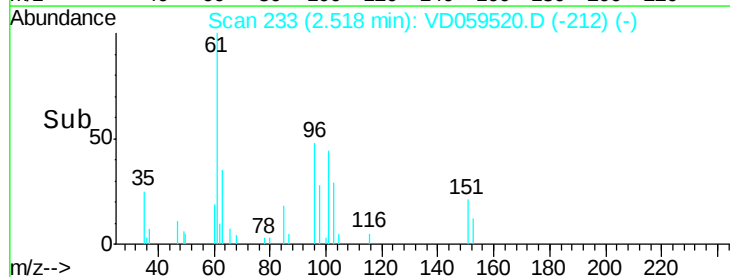
15000

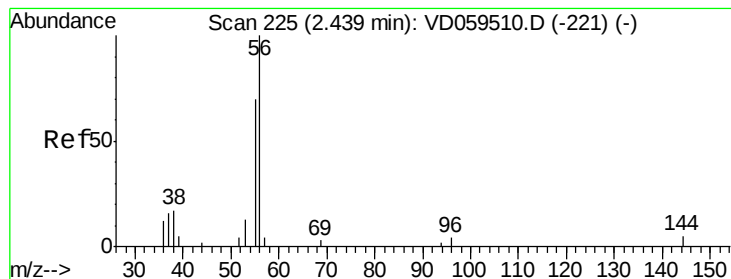
10000

5000

0

Time--> 2.45 2.50 2.55 2.60





#13

Acrolein

Concen: 29.633 ug/l

RT: 2.45 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

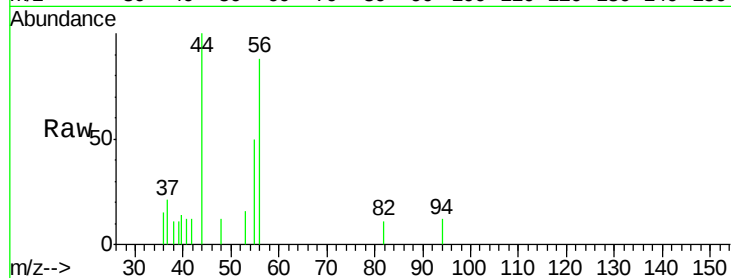
MDL-SOIL-03-QT3-2018

Tot Ion: 56 Resp: 4641

Ion Ratio Lower Upper

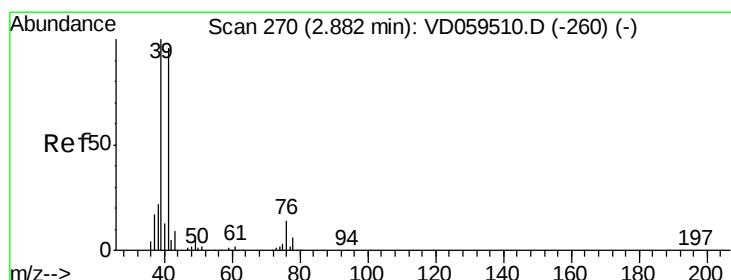
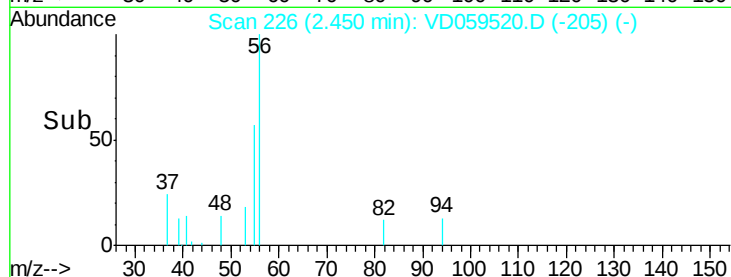
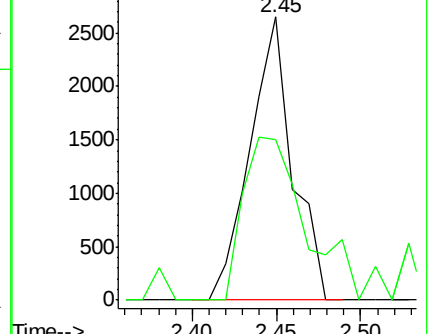
56 100

55 56.7 56.0 84.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.732 ug/l

RT: 2.89 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

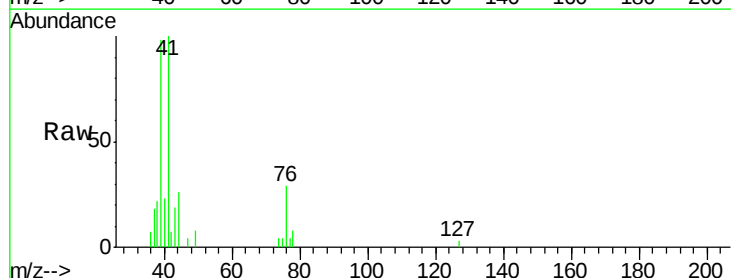
Tgt Ion: 41 Resp: 24244

Ion Ratio Lower Upper

41 100

39 97.6 83.8 125.8

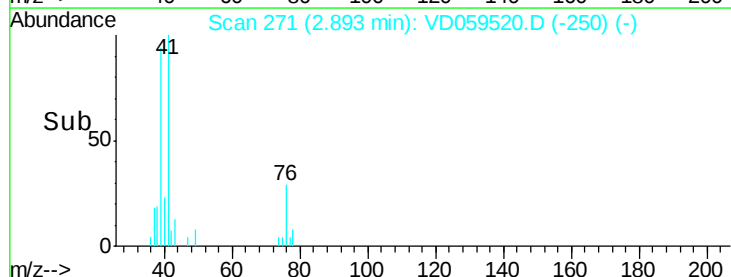
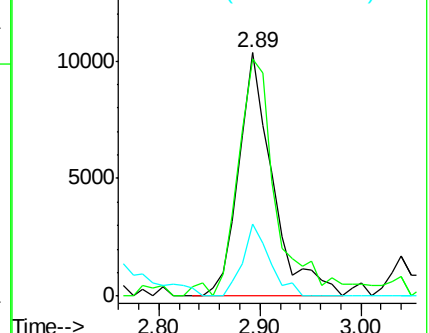
76 29.4 18.4 27.6#

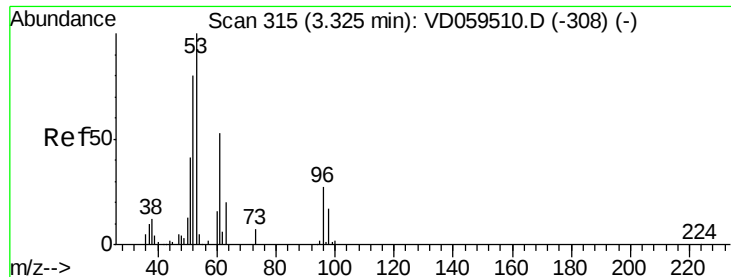


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 18.787 ug/l

RT: 3.33 min Scan# 315

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

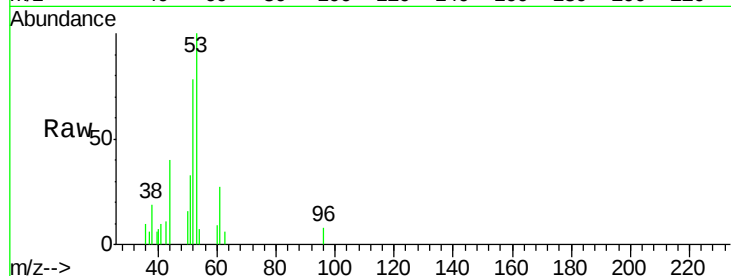
Tot Ion: 53 Resp: 14274

Ion Ratio Lower Upper

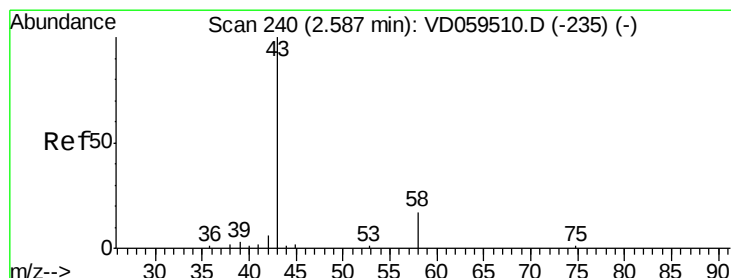
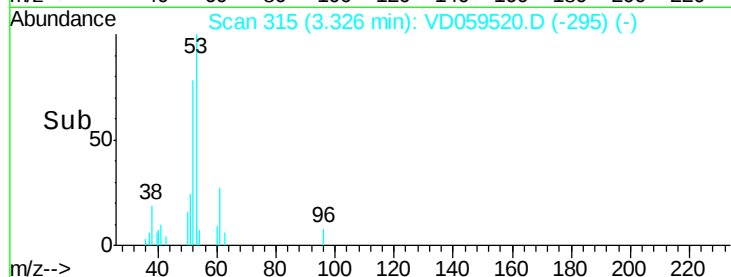
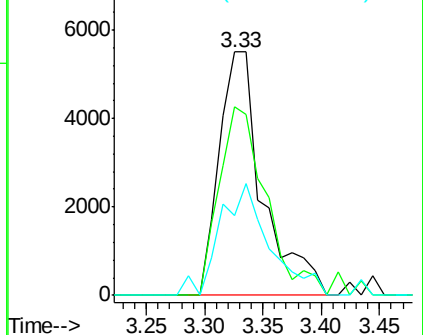
53 100

52 77.6 64.3 96.5

51 32.9 33.0 49.4#



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



#16

Acetone

Concen: 23.933 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059520.D

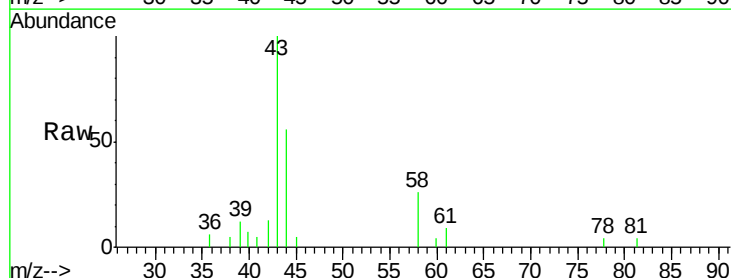
Acq: 3 Jul 2018 00:15

Tgt Ion: 43 Resp: 26698

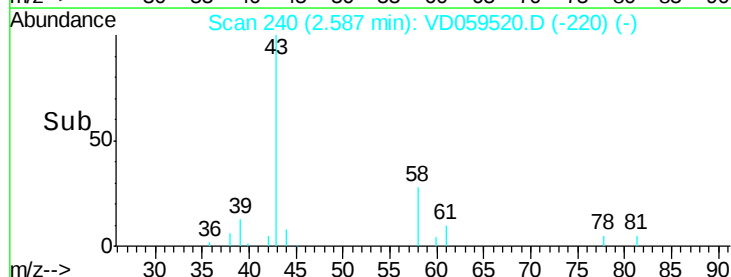
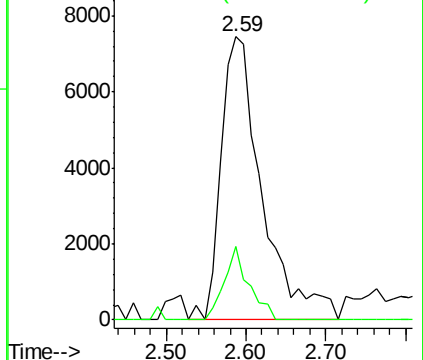
Ion Ratio Lower Upper

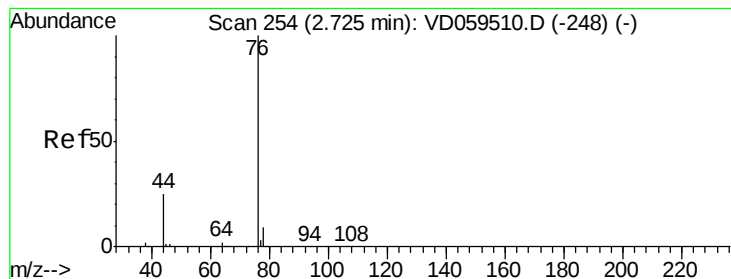
43 100

58 26.1 13.8 20.8#



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





#17

Carbon Disulfide

Concen: 5.627 ug/l

RT: 2.73 min Scan# 254

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

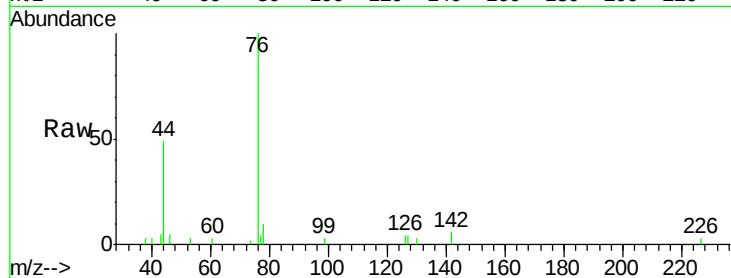
MDL-SOIL-03-QT3-2018

Tot Ion: 76 Resp: 27444

Ion Ratio Lower Upper

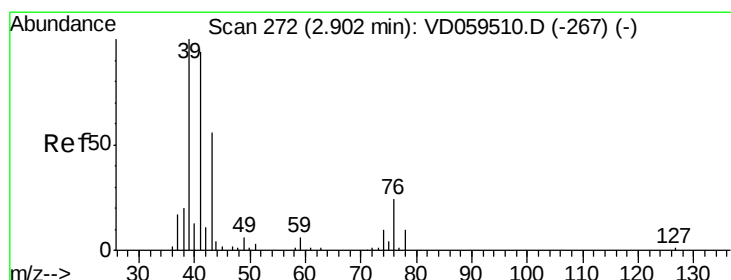
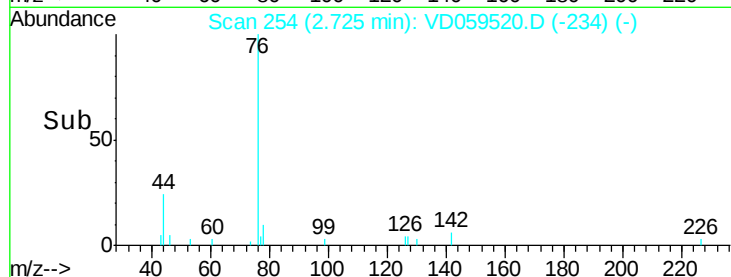
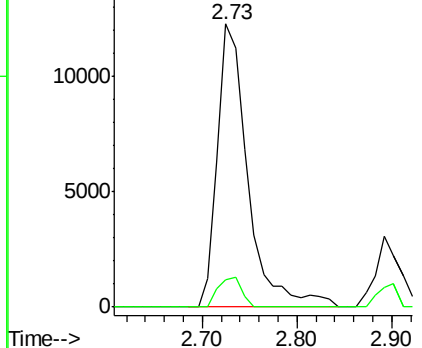
76 100

78 9.7 6.9 10.3



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 3.161 ug/l

RT: 2.90 min Scan# 272

Delta R.T. 0.00 min

Lab File: VD059520.D

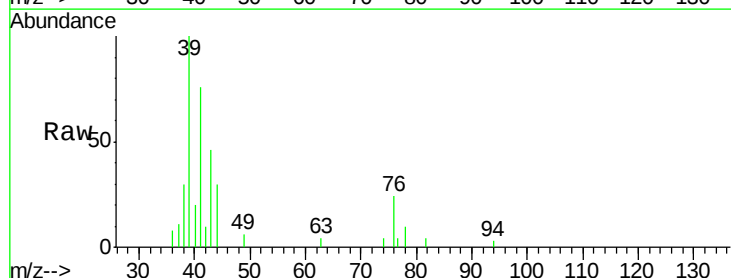
Acq: 3 Jul 2018 00:15

Tgt Ion: 43 Resp: 12841

Ion Ratio Lower Upper

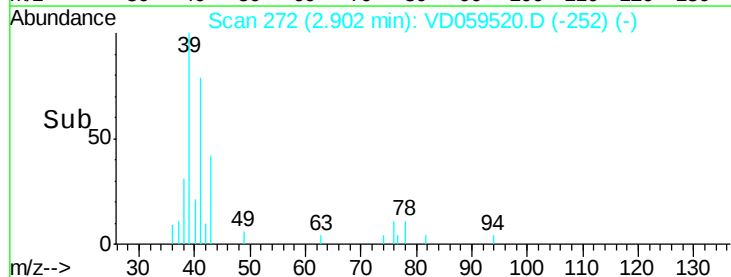
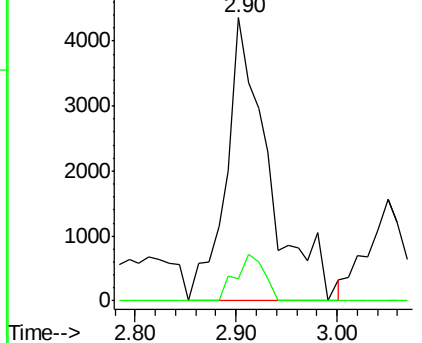
43 100

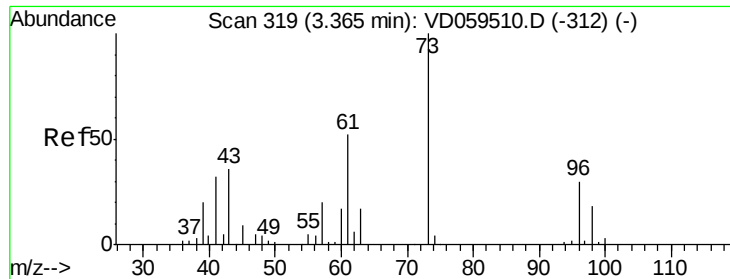
74 7.8 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

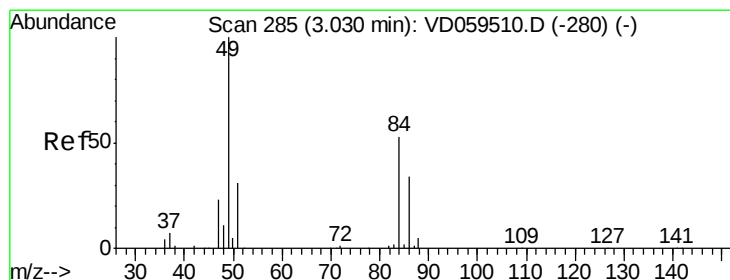
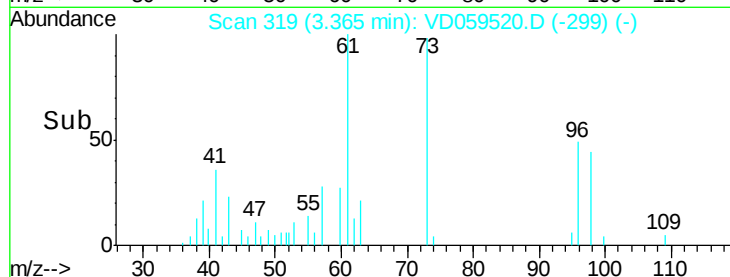
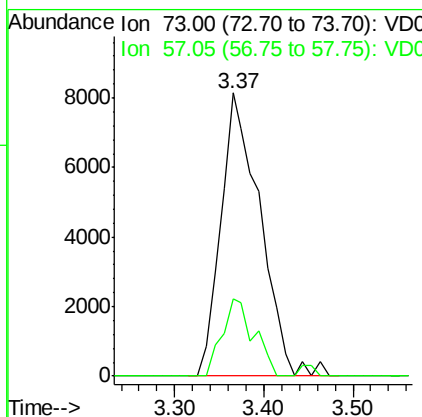
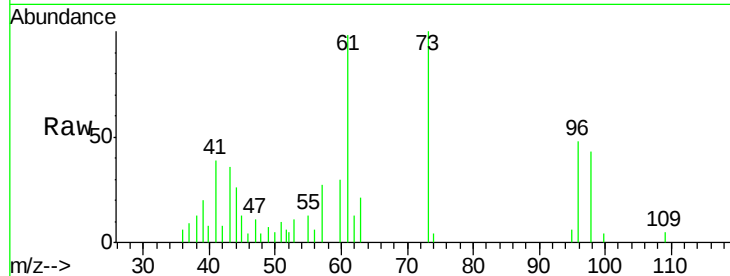




#19
Methvl tert-butvl Ether
Concen: 3.276 ug/l
RT: 3.37 min Scan# 319
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

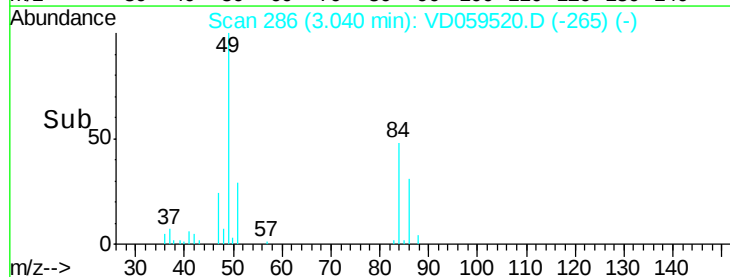
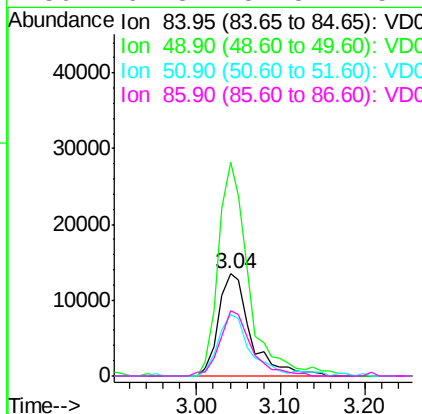
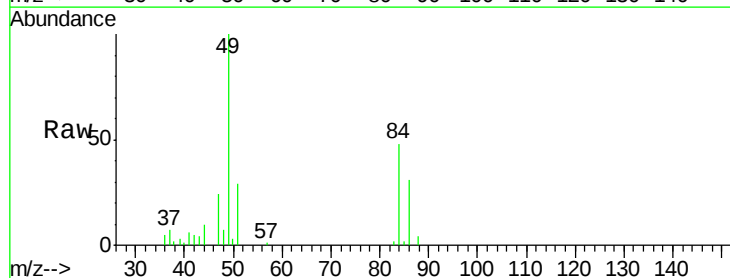
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

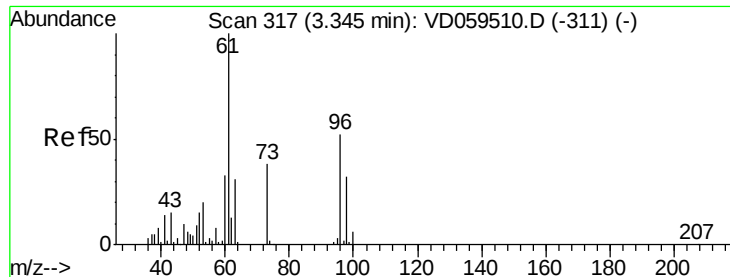
Tot Ion: 73 Resp: 24917
Ion Ratio Lower Upper
73 100
57 27.4 16.5 24.7#



#20
Methylene Chloride
Concen: 8.262 ug/l
RT: 3.04 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 84 Resp: 35708
Ion Ratio Lower Upper
84 100
49 208.8 152.2 228.2
51 60.0 46.5 69.7
86 64.3 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 3.710 ug/l

RT: 3.36 min Scan# 318

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

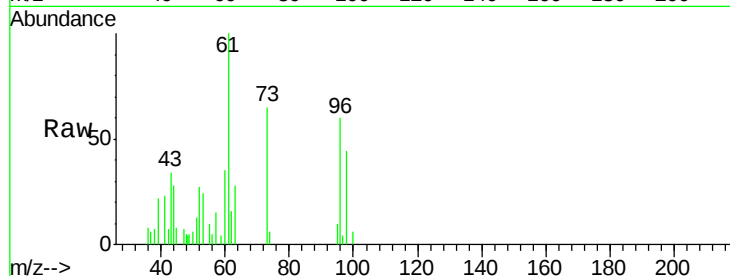
Tot Ion: 96 Resp: 12056

Ion Ratio Lower Upper

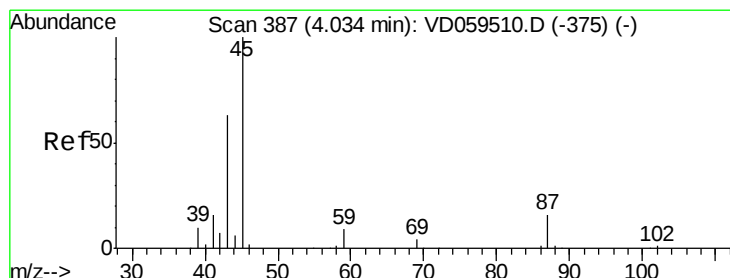
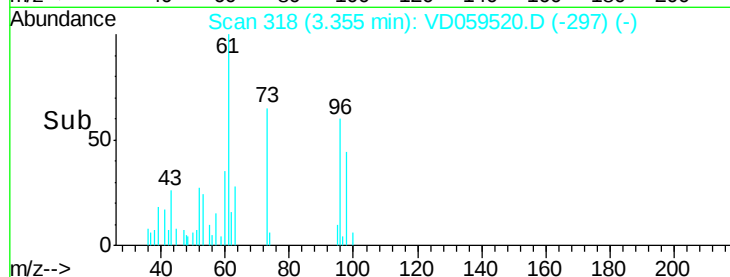
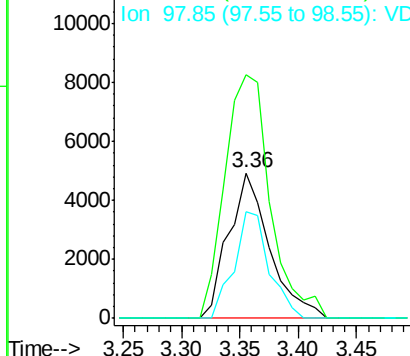
96 100

61 167.5 154.7 232.1

98 73.2 49.9 74.9



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



#22

Diisopropyl ether

Concen: 3.908 ug/l

RT: 4.03 min Scan# 387

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion: 45 Resp: 92557

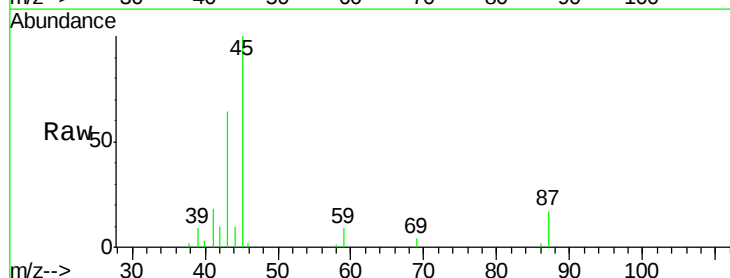
Ion Ratio Lower Upper

45 100

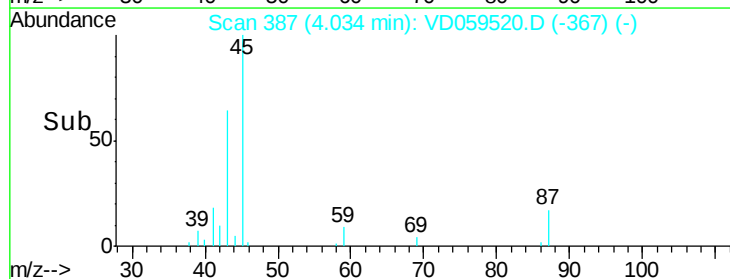
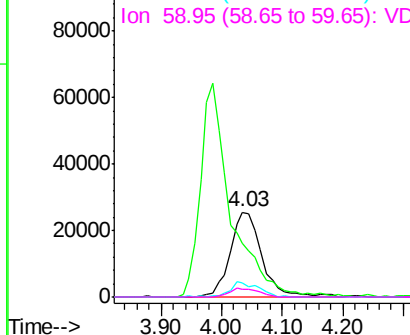
43 63.9 50.7 76.1

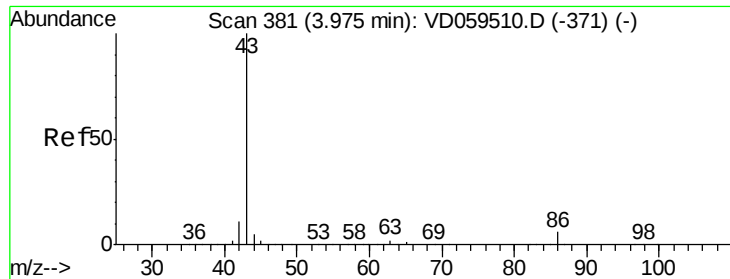
87 16.9 13.4 20.0

59 9.2 7.4 11.0



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





#23

Vinyl Acetate

Concen: 17.088 ug/l

RT: 3.99 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

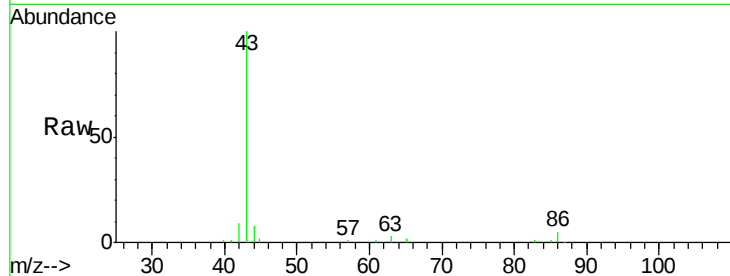
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 223329

Ion Ratio Lower Upper

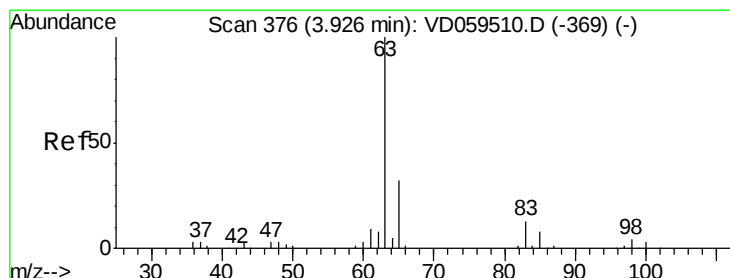
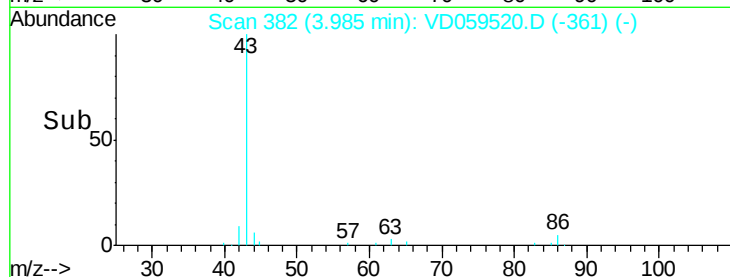
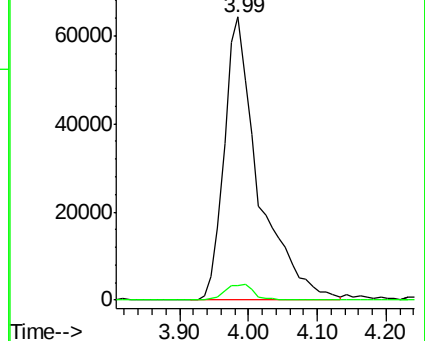
43 100

86 5.2 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 3.822 ug/l

RT: 3.94 min Scan# 377

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

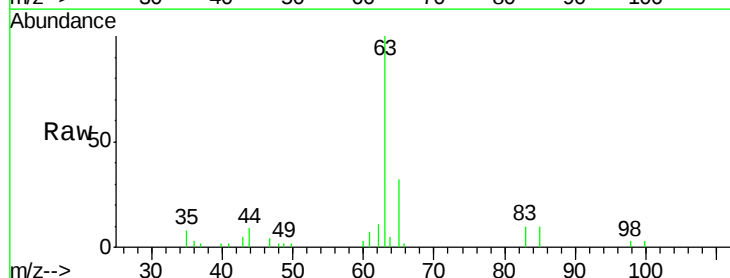
Tgt Ion: 63 Resp: 51250

Ion Ratio Lower Upper

63 100

98 3.2 2.0 5.8

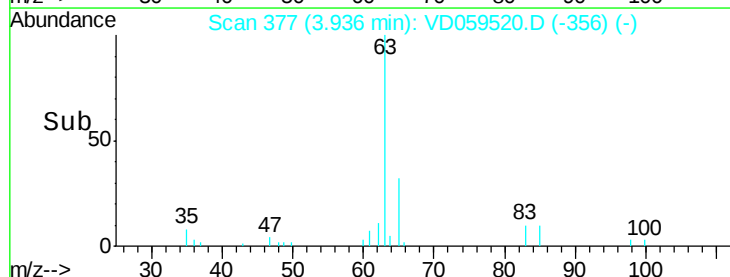
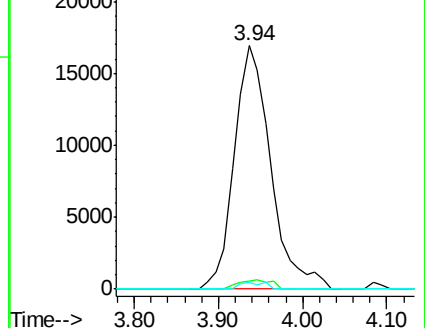
100 3.0 1.5 4.4

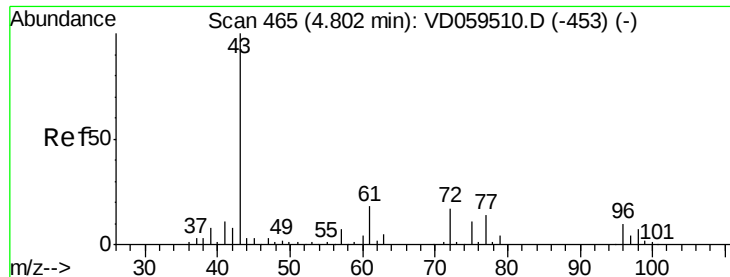


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 20.478 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

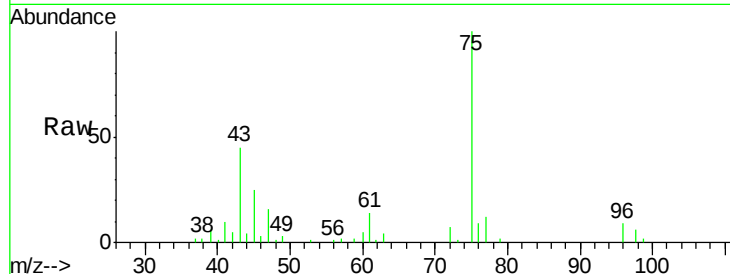
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 47514

Ion Ratio Lower Upper

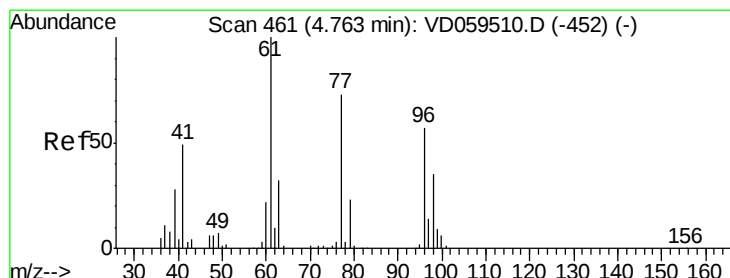
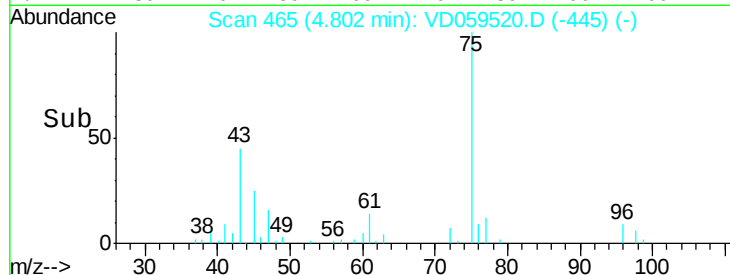
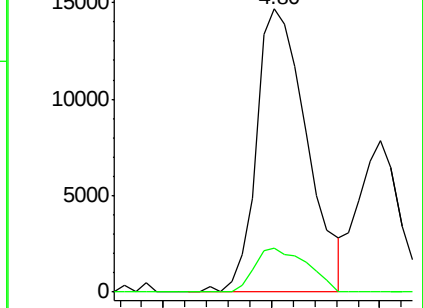
43 100

72 15.5 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.602 ug/l

RT: 4.76 min Scan# 461

Delta R.T. 0.00 min

Lab File: VD059520.D

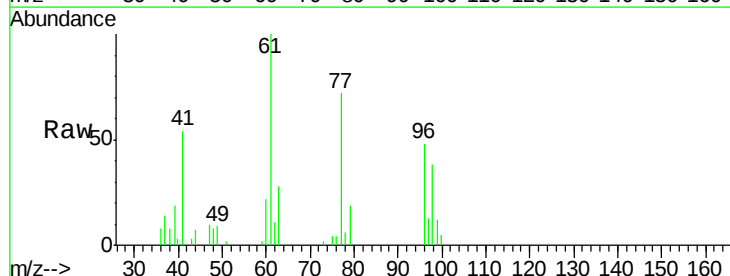
Acq: 3 Jul 2018 00:15

Tgt Ion: 77 Resp: 39485

Ion Ratio Lower Upper

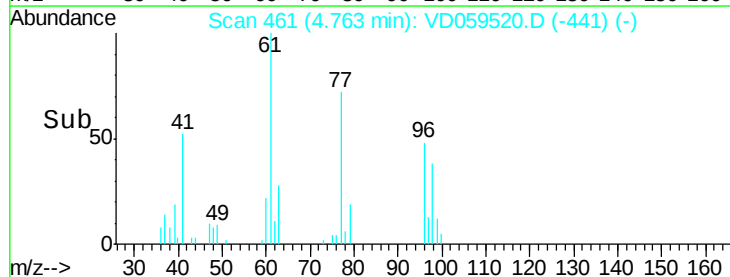
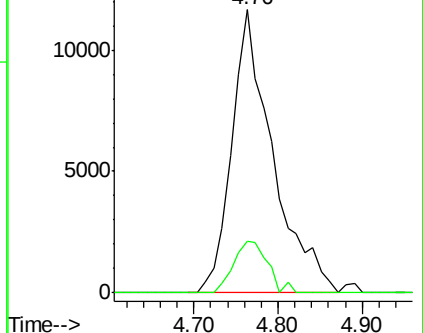
77 100

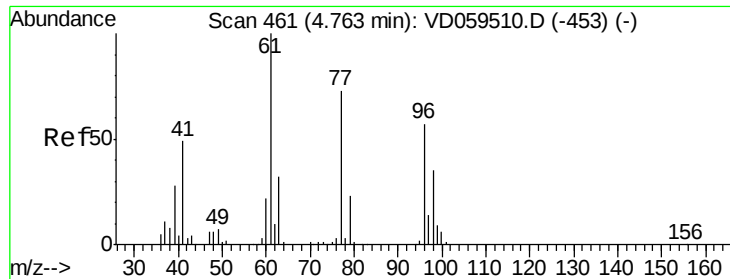
97 18.2 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



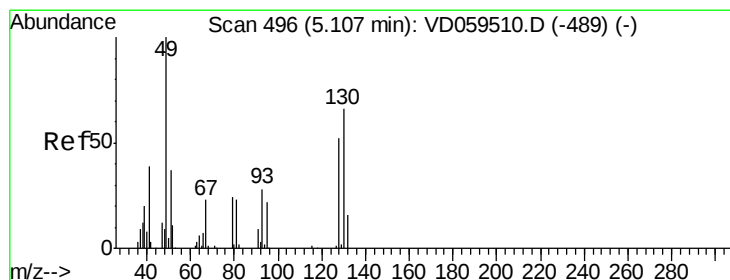
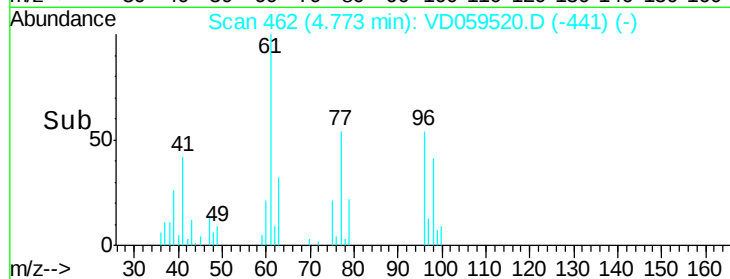
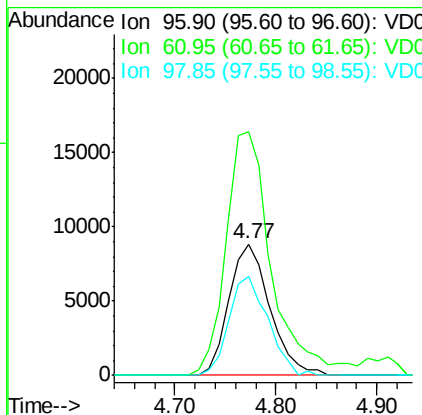
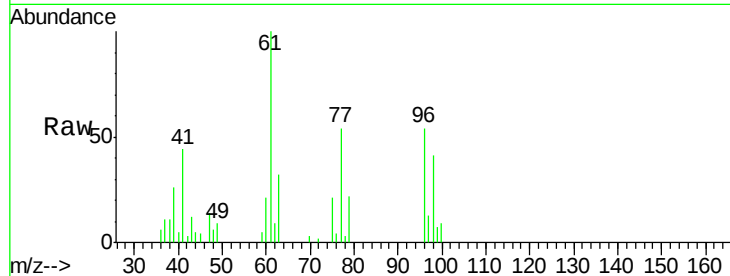


#27

cis-1,2-Dichloroethene
 Concen: 3.544 ug/l
 RT: 4.77 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

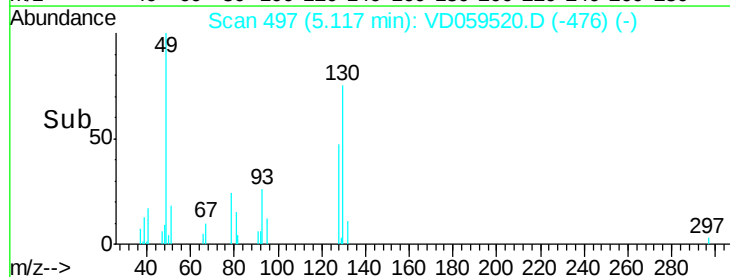
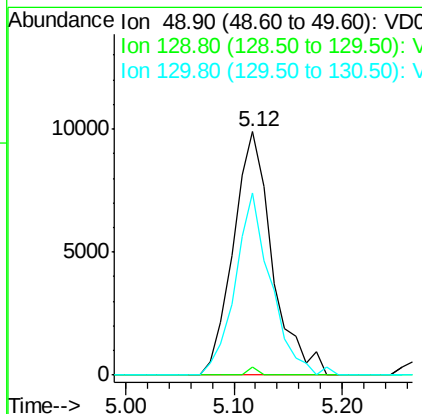
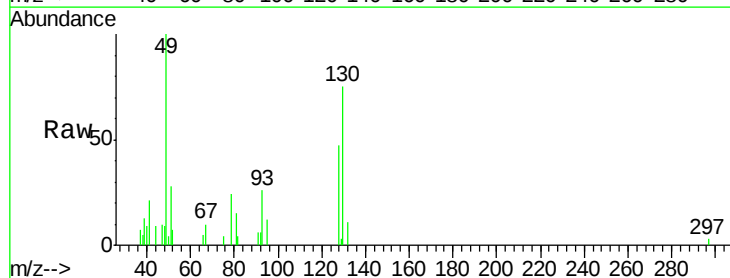
Tot Ion	96	Resp	24938
Ion	Ratio	Lower	Upper
96	100		
61	185.6	0.0	350.8
98	75.5	0.0	123.4

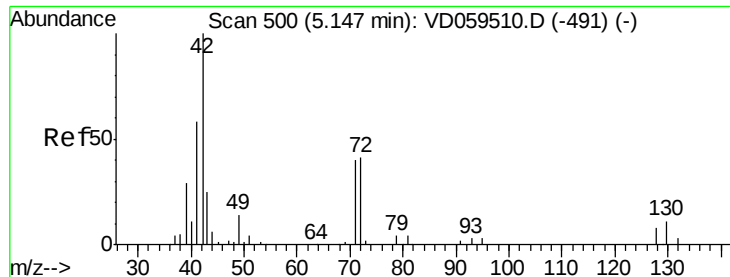


#28

Bromochloromethane
 Concen: 4.801 ug/l
 RT: 5.12 min Scan# 497
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion	49	Resp	24700
Ion	Ratio	Lower	Upper
49	100		
129	3.5	0.0	4.4
130	74.8	52.6	78.8

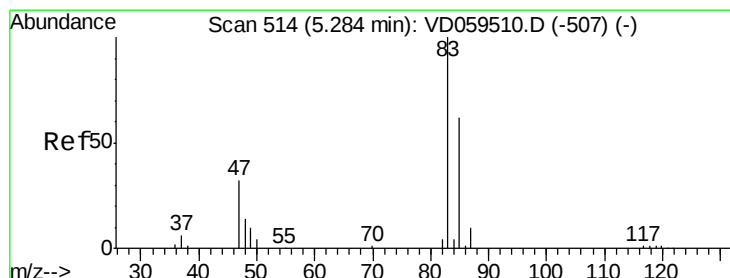
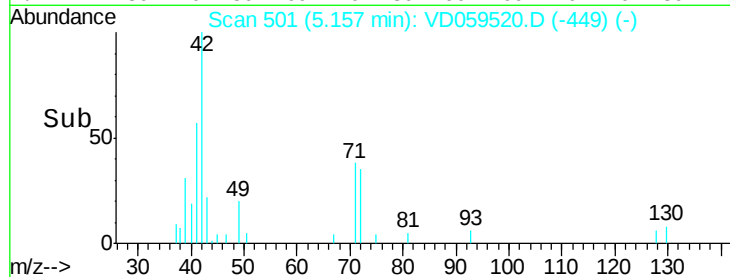
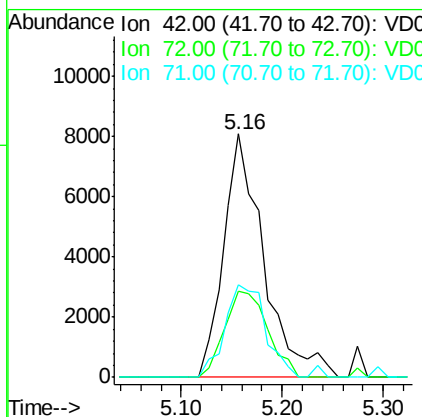
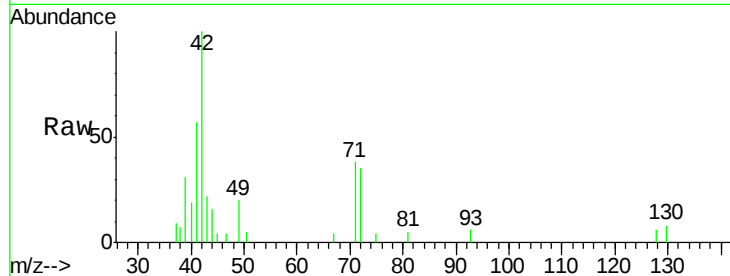




#29
Tetrahydrofuran
Concen: 18.923 ug/l
RT: 5.16 min Scan# 501
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

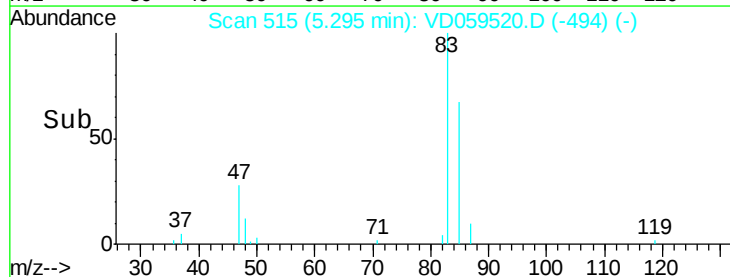
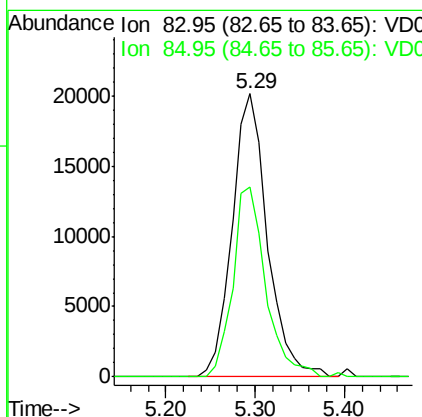
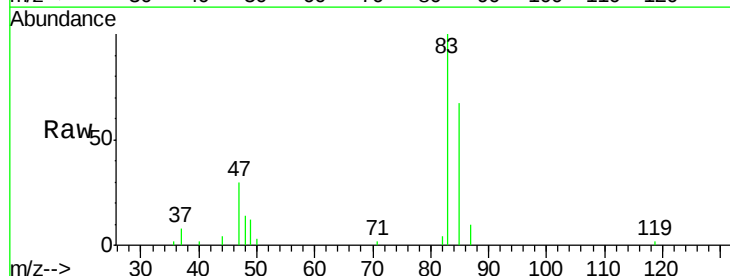
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

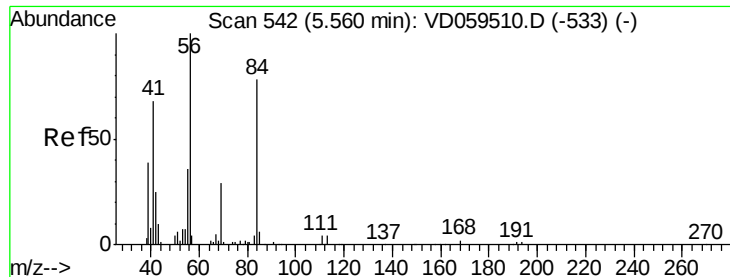
Tot Ion: 42 Resp: 22359
Ion Ratio Lower Upper
42 100
72 38.0 32.9 49.3
71 38.4 31.6 47.4



#30
Chloroform
Concen: 3.919 ug/l
RT: 5.29 min Scan# 515
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 83 Resp: 55435
Ion Ratio Lower Upper
83 100
85 67.3 49.8 74.6

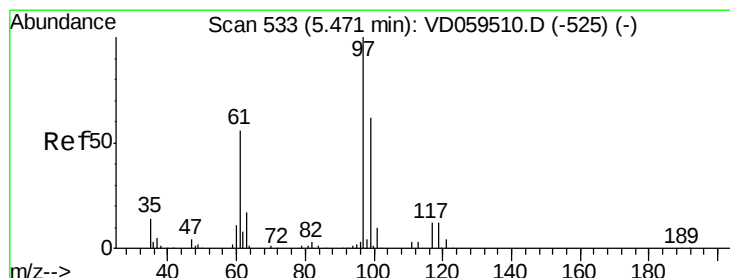
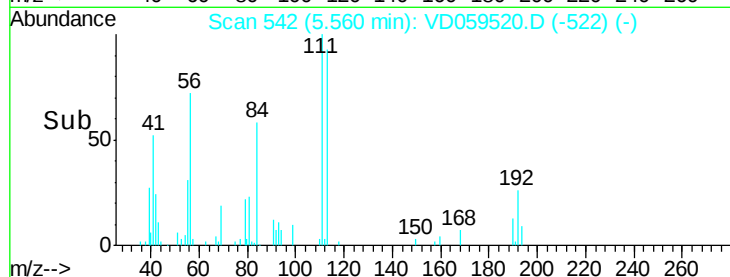
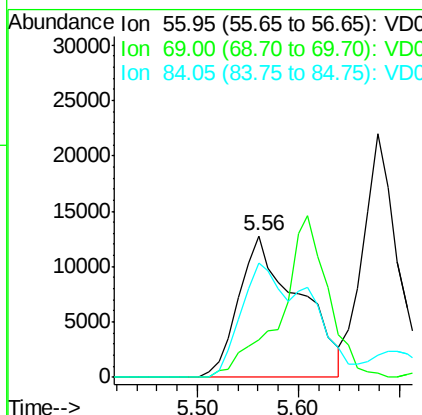
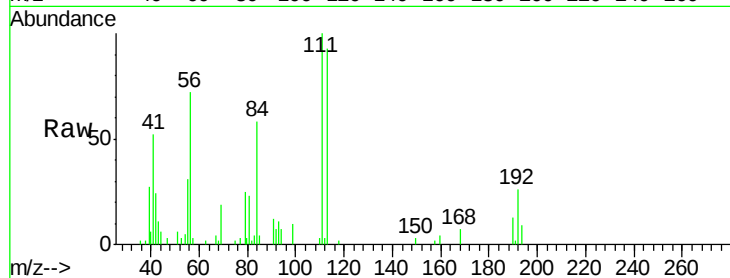




#31
Cyclohexane
Concen: 3.171 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

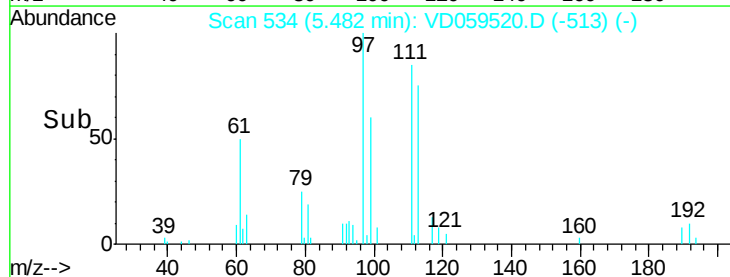
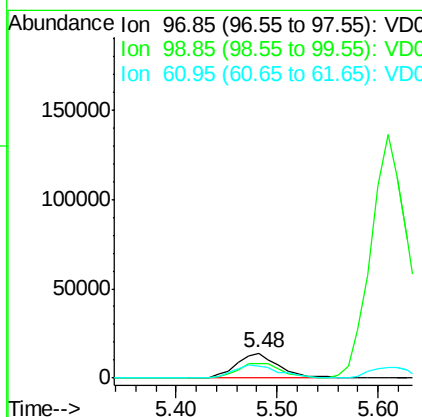
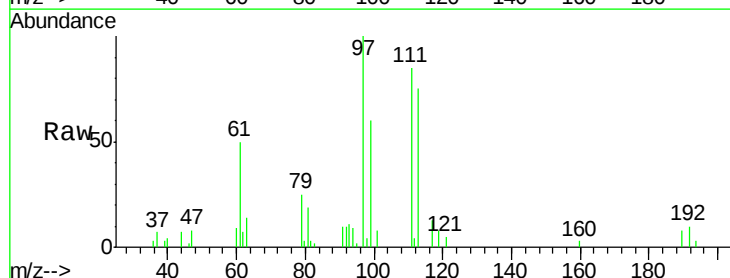
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

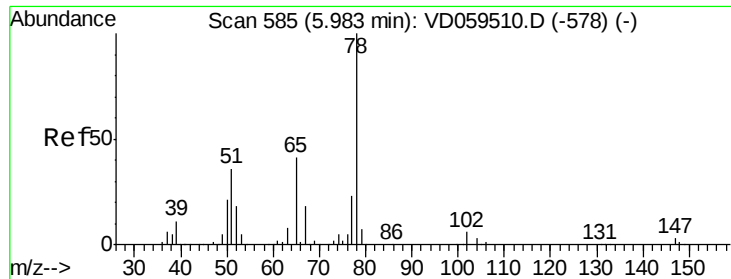
Tot Ion: 56 Resp: 53037
Ion Ratio Lower Upper
56 100
69 26.1 22.9 34.3
84 81.0 63.4 95.0



#32
1,1,1-Trichloroethane
Concen: 3.541 ug/l
RT: 5.48 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 97 Resp: 39691
Ion Ratio Lower Upper
97 100
99 60.1 49.6 74.4
61 50.0 44.8 67.2

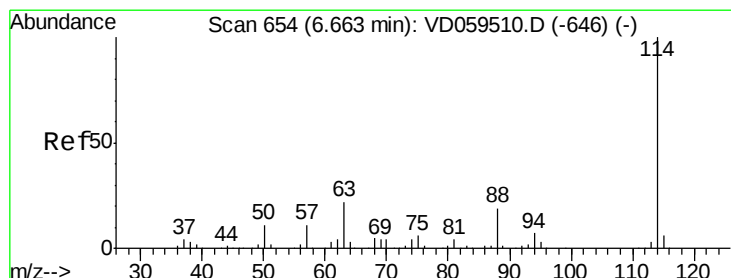
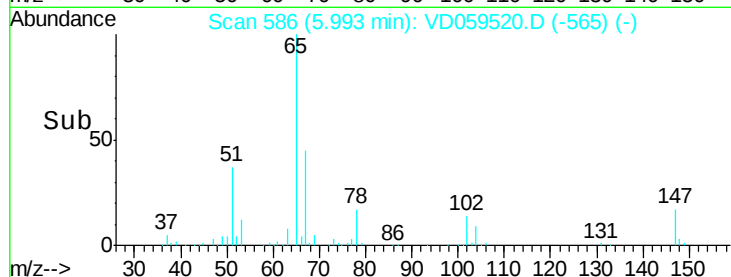
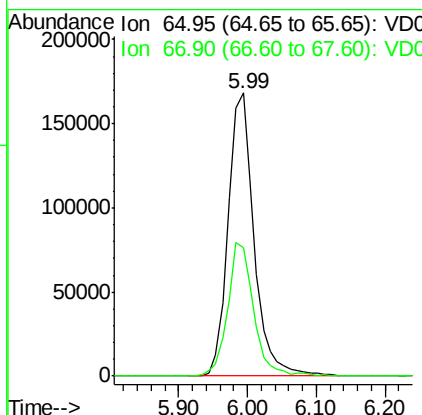
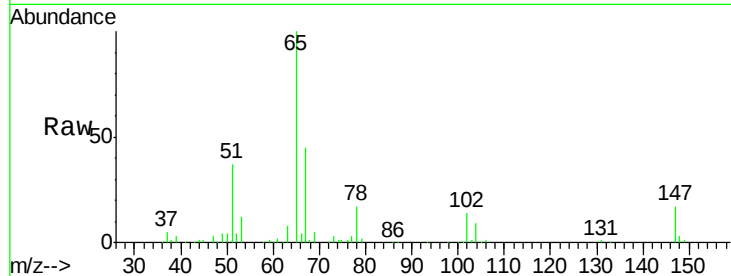




#33
 1,2-Dichloroethane-d4
 Concen: 3.541 ug/l
 RT: 5.99 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

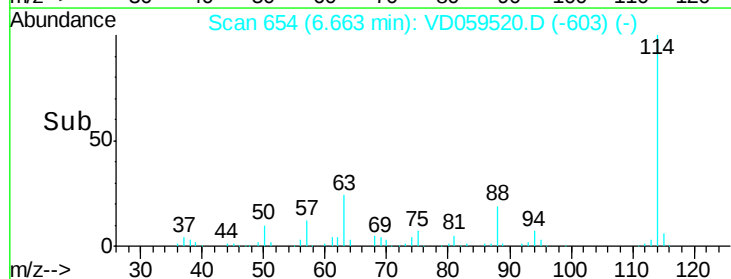
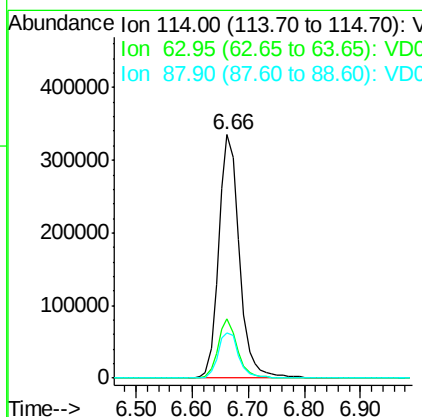
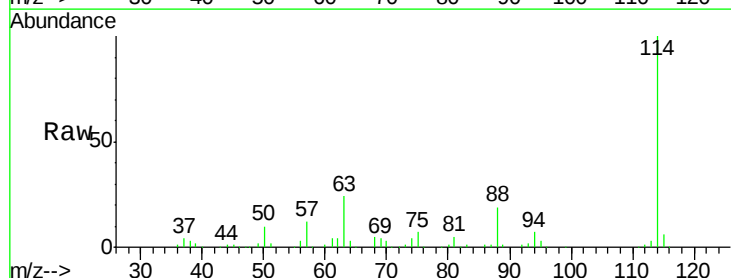
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

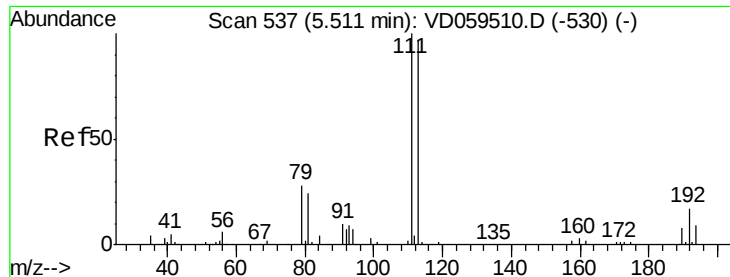
Tot Ion: 65 Resp: 437331
 Ion Ratio Lower Upper
 65 100
 67 45.2 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion: 114 Resp: 861512
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 44.4
 88 18.7 0.0 37.8

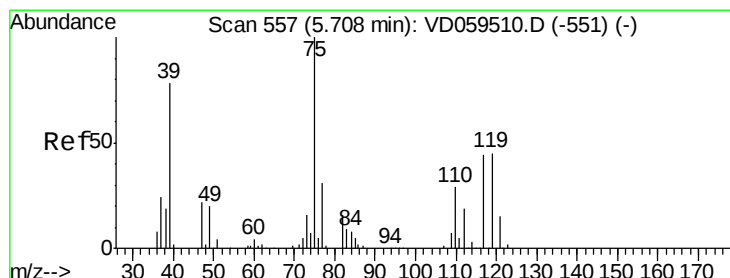
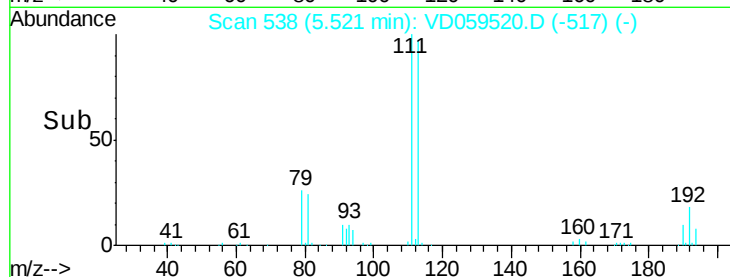
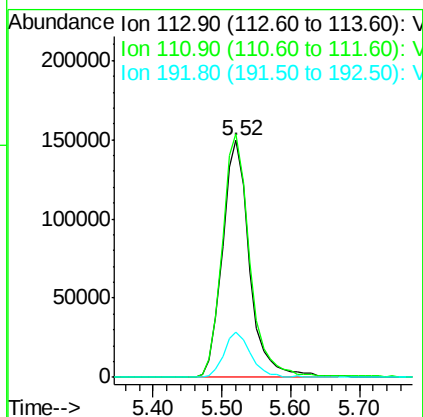
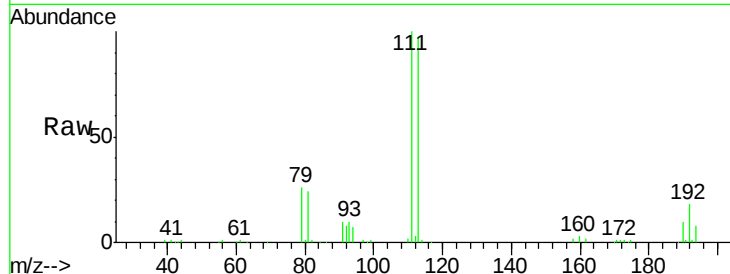




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.52 min Scan# 538
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

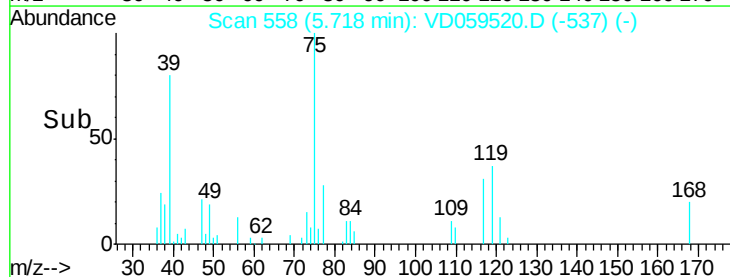
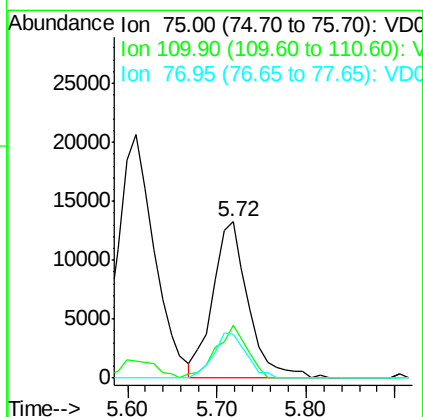
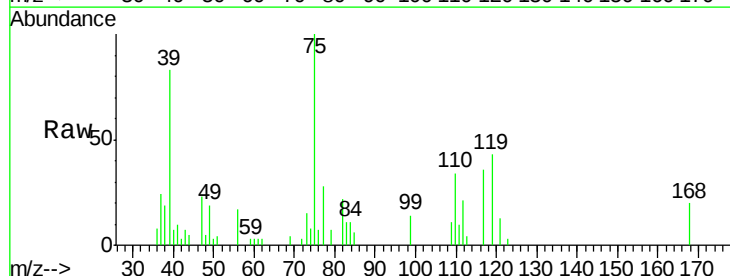
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

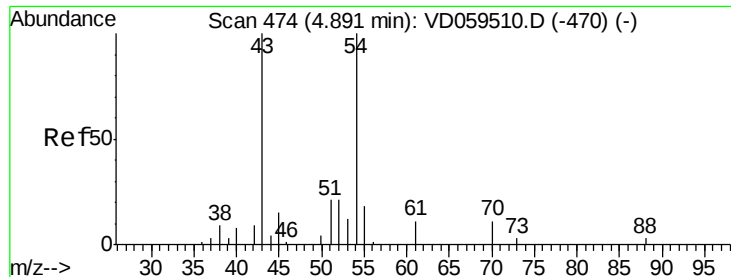
Tot Ion:113 Resp: 407372
Ion Ratio Lower Upper
113 100
111 102.7 82.7 124.1
192 18.9 14.2 21.2



#36
1,1-Dichloropropene
Concen: 3.990 ug/l
RT: 5.72 min Scan# 558
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 75 Resp: 36908
Ion Ratio Lower Upper
75 100
110 33.6 14.4 43.4
77 27.8 25.0 37.6





#37

Ethyl Acetate

Concen: 4.043 ug/l

RT: 4.90 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

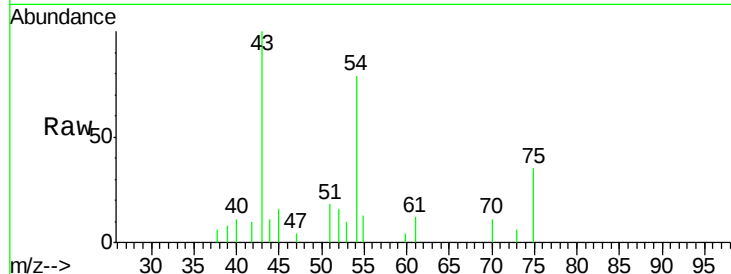
Tot Ion: 43 Resp: 20806

Ion Ratio Lower Upper

43 100

61 12.3 11.5 17.3

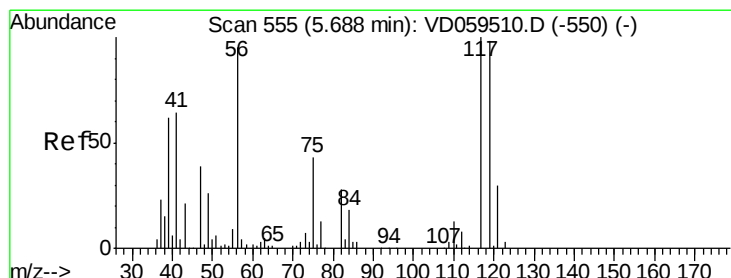
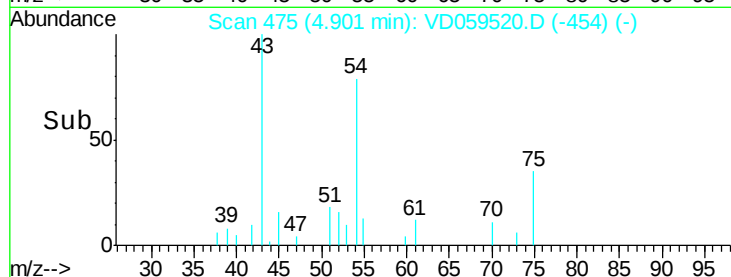
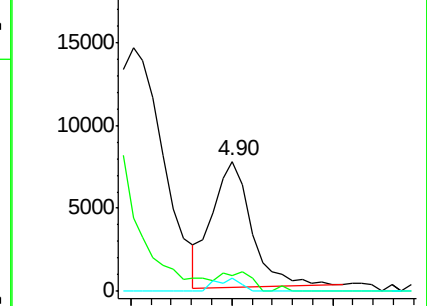
70 10.5 6.8 10.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 3.786 ug/l

RT: 5.70 min Scan# 556

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

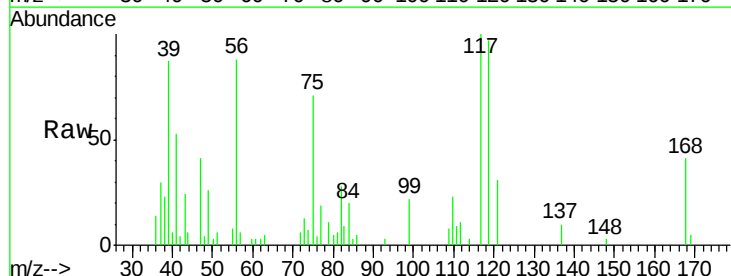
Tgt Ion: 117 Resp: 34433

Ion Ratio Lower Upper

117 100

119 96.7 76.4 114.6

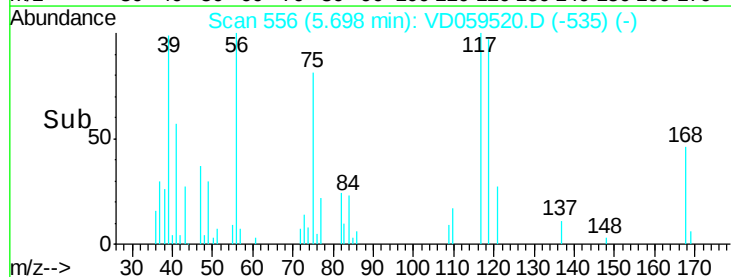
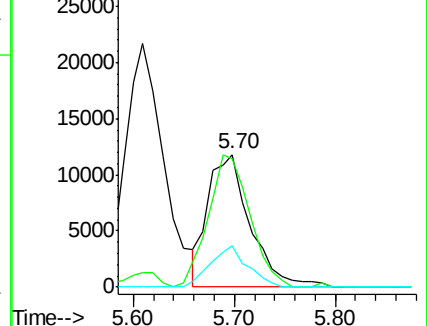
121 30.9 23.9 35.9

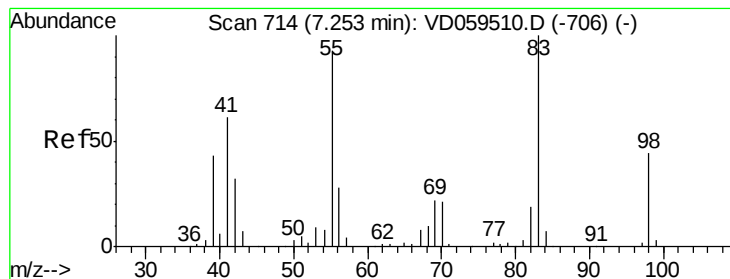


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 4.234 ug/l

RT: 7.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

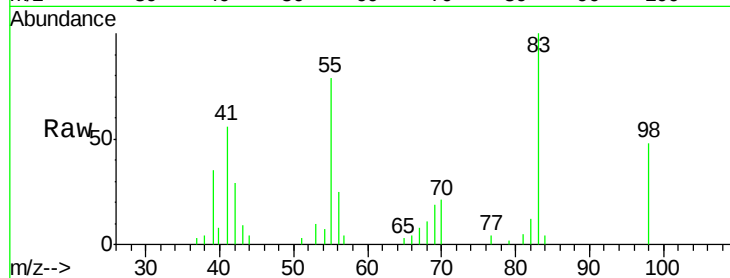
Tot Ion: 83 Resp: 35677

Ion Ratio Lower Upper

83 100

55 79.0 74.2 111.4

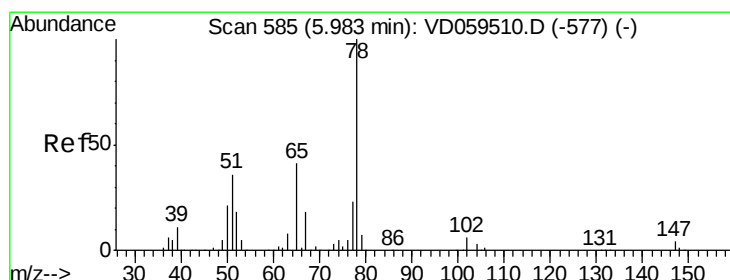
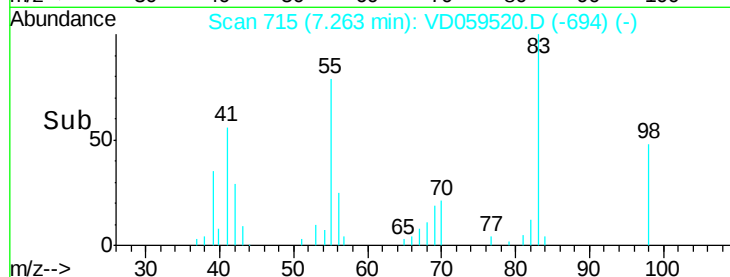
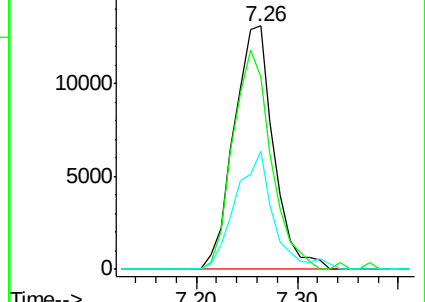
98 48.3 35.5 53.3



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 4.219 ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.00 min

Lab File: VD059520.D

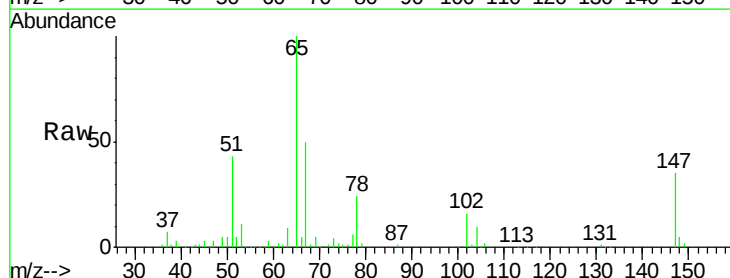
Acq: 3 Jul 2018 00:15

Tgt Ion: 78 Resp: 89829

Ion Ratio Lower Upper

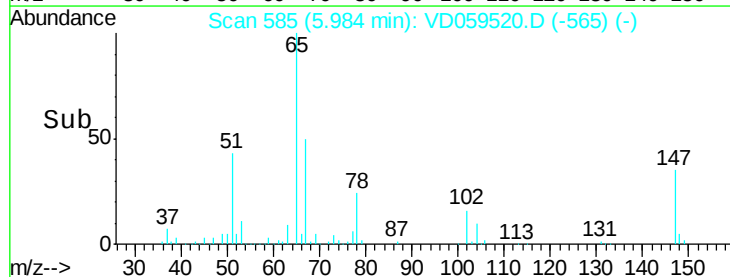
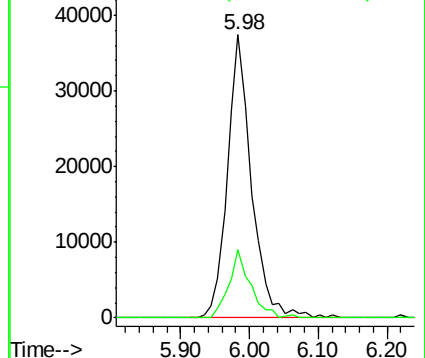
78 100

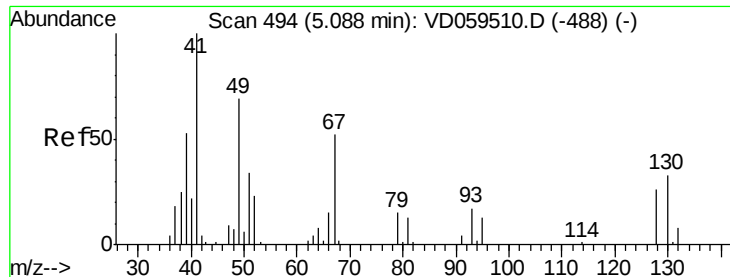
77 24.2 18.6 27.8



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 3.999 ug/l

RT: 5.10 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

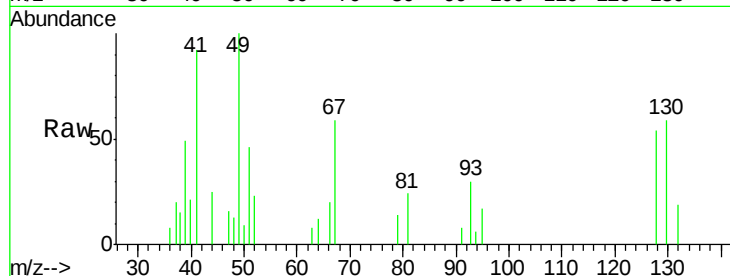
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 41 Resp: 10437

Ion Ratio Lower Upper

41	100		
39	53.1	43.0	64.4
67	63.6	41.4	62.2
52	24.8	18.6	28.0

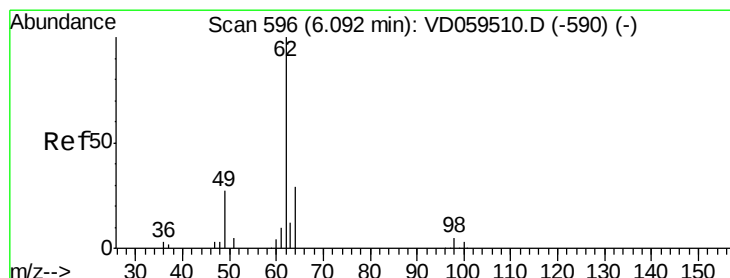
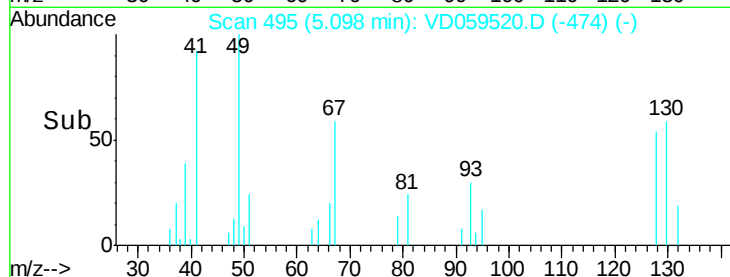
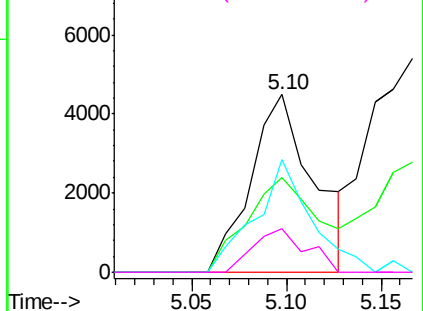


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 3.776 ug/l

RT: 6.10 min Scan# 597

Delta R.T. 0.01 min

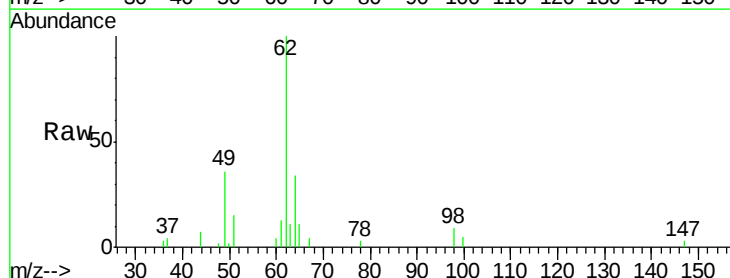
Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion: 62 Resp: 35966

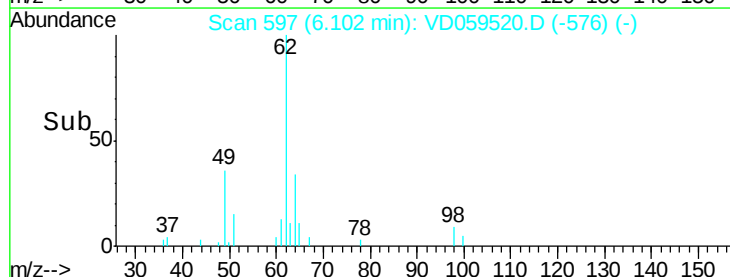
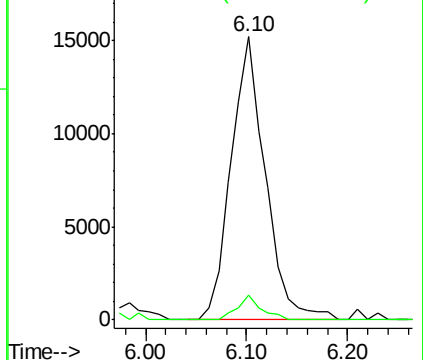
Ion Ratio Lower Upper

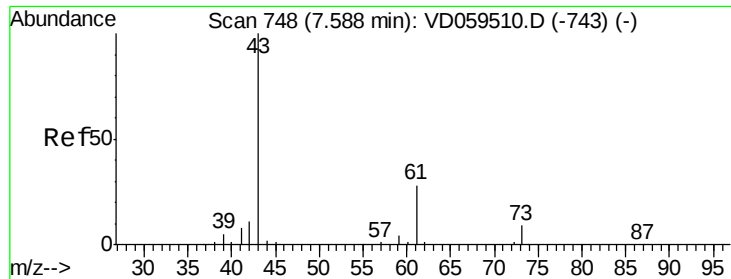
62	100		
98	8.7	0.0	10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 3.537 ug/l

RT: 7.60 min Scan# 749

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

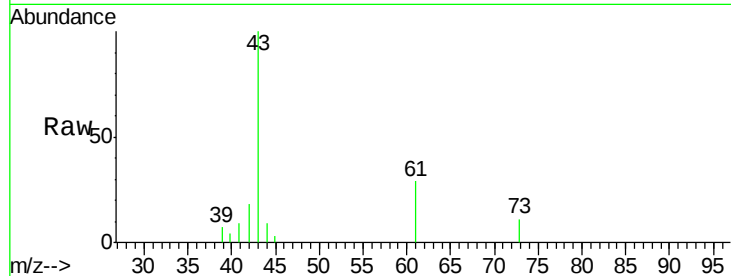
Tot Ion: 43 Resp: 24084

Ion Ratio Lower Upper

43 100

61 29.0 22.3 33.5

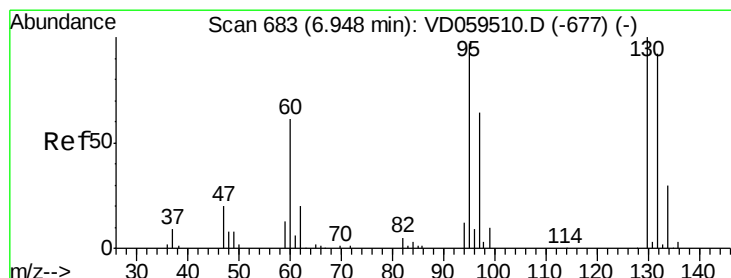
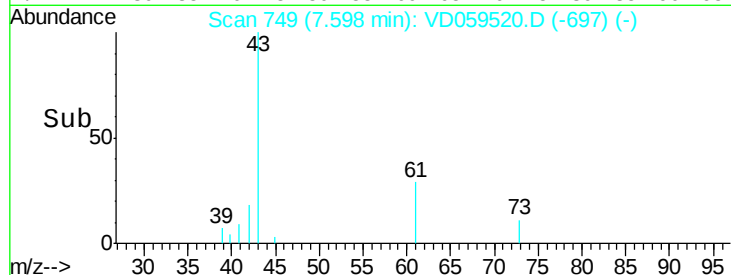
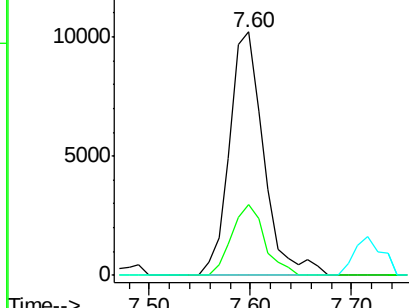
87 0.0 0.4 0.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 3.558 ug/l

RT: 6.96 min Scan# 684

Delta R.T. 0.01 min

Lab File: VD059520.D

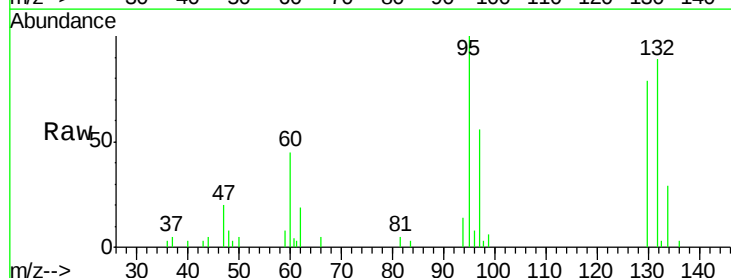
Acq: 3 Jul 2018 00:15

Tgt Ion:130 Resp: 22994

Ion Ratio Lower Upper

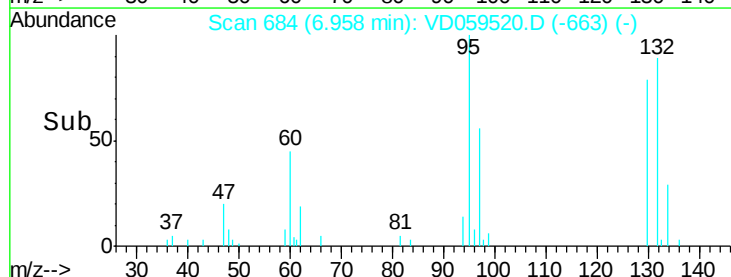
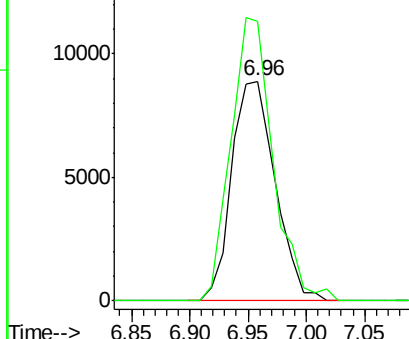
130 100

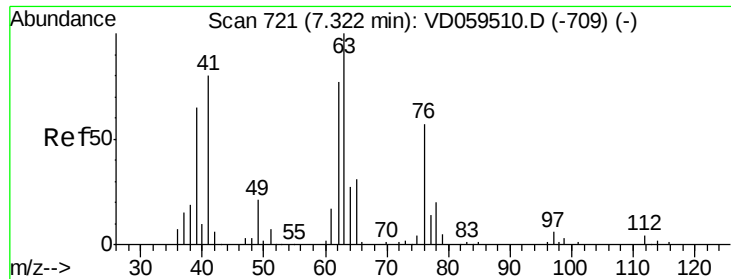
95 127.3 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

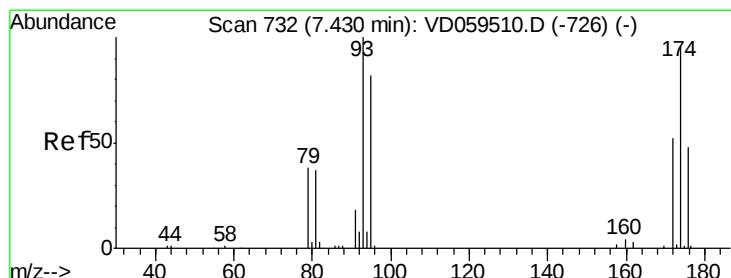
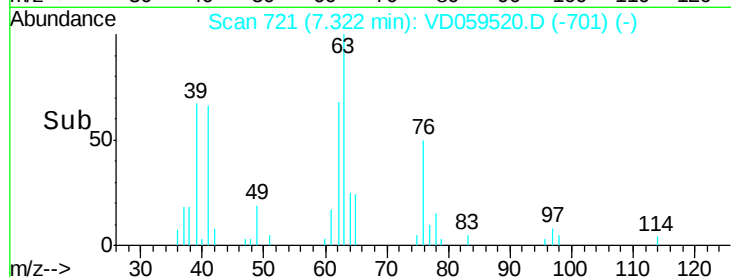
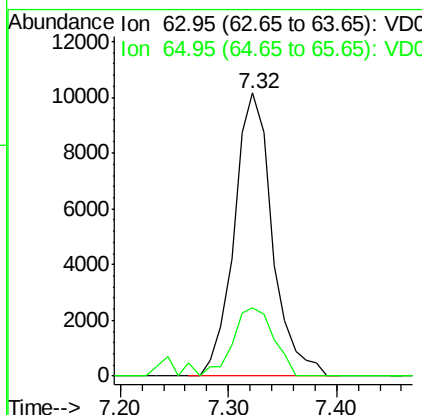
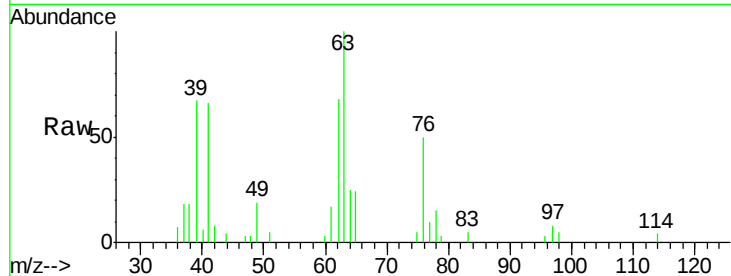




#45
 1,2-Dichloropropane
 Concen: 4.172 ug/l
 RT: 7.32 min Scan# 721
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

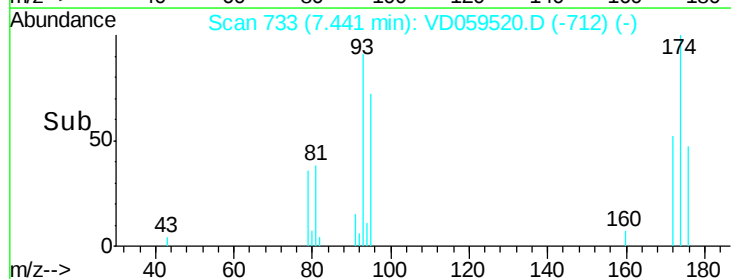
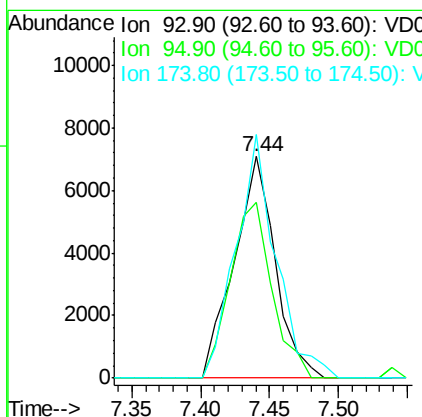
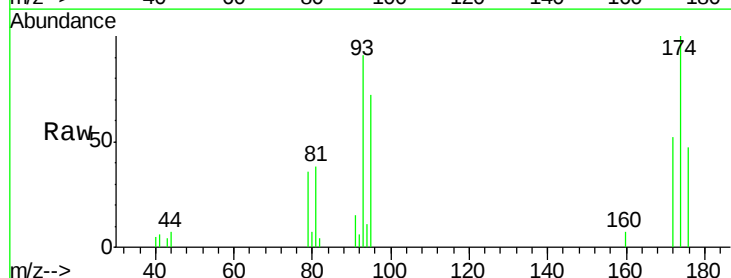
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

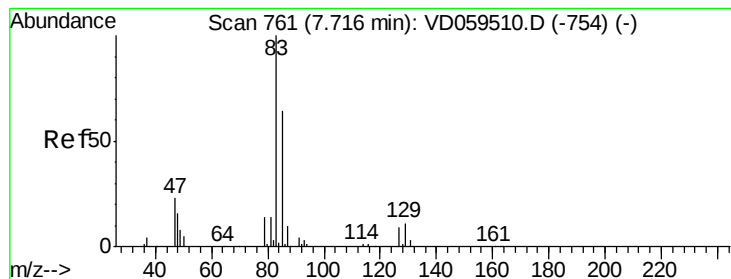
Tot Ion: 63 Resp: 24830
 Ion Ratio Lower Upper
 63 100
 65 24.0 24.4 36.6#



#46
 Dibromomethane
 Concen: 3.659 ug/l
 RT: 7.44 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion: 93 Resp: 14736
 Ion Ratio Lower Upper
 93 100
 95 79.6 65.7 98.5
 174 110.0 77.2 115.8





#47

Bromodichloromethane

Concen: 3.785 ug/l

RT: 7.72 min Scan# 761

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

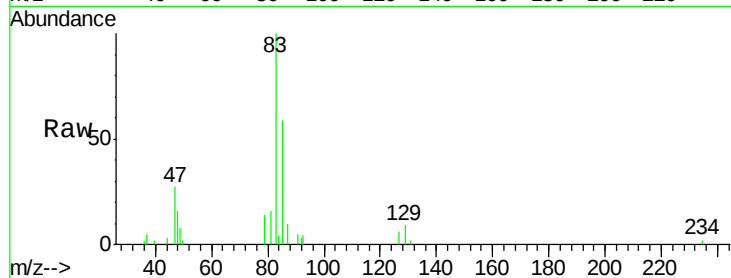
Tot Ion: 83 Resp: 35483

Ion Ratio Lower Upper

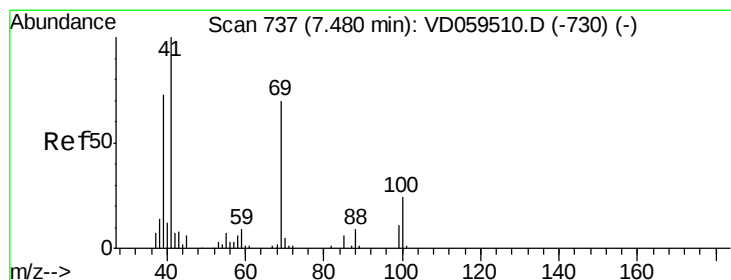
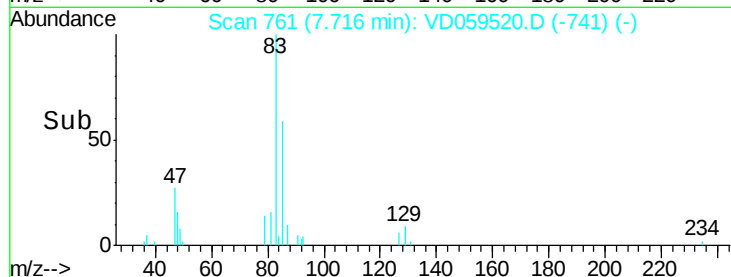
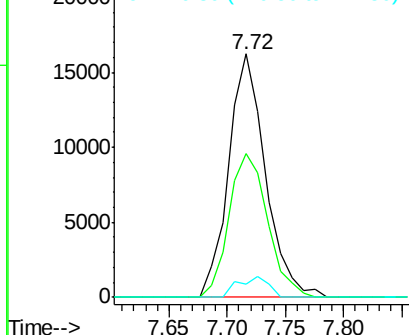
83 100

85 59.3 51.0 76.4

127 5.5 7.0 10.6#



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



#48

Methyl methacrylate

Concen: 3.840 ug/l

RT: 7.48 min Scan# 737

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

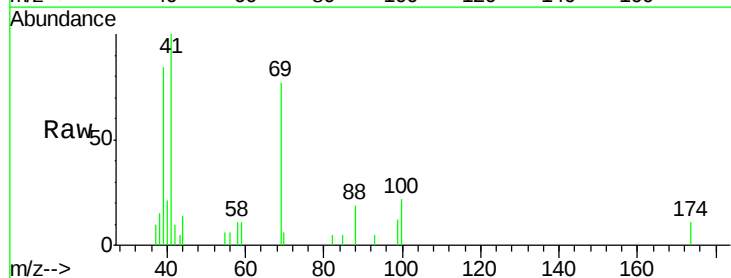
Tgt Ion: 41 Resp: 16308

Ion Ratio Lower Upper

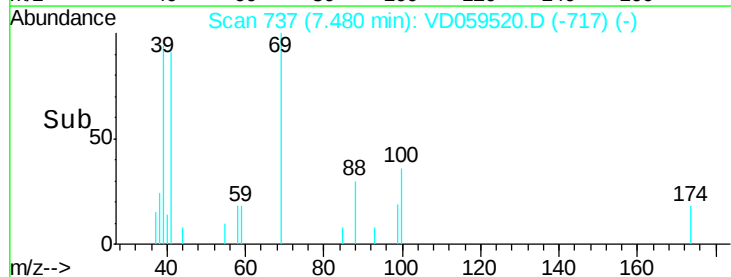
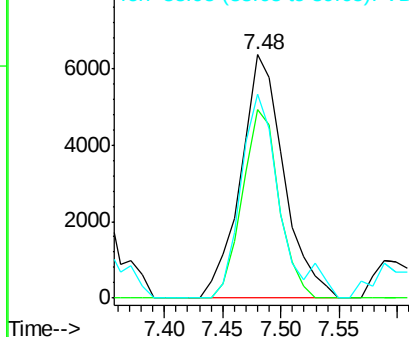
41 100

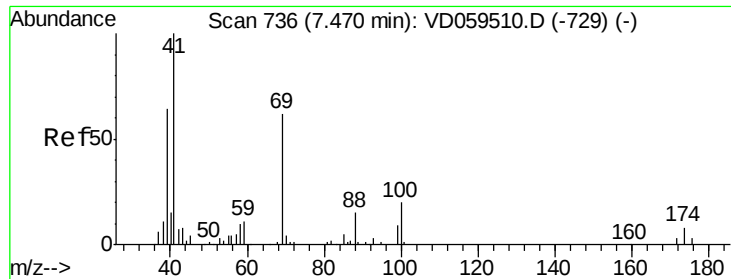
69 77.2 55.8 83.8

39 83.5 58.7 88.1



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





#49

1,4-Dioxane

Concen: 59.868 ug/l

RT: 7.48 min Scan# 737

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

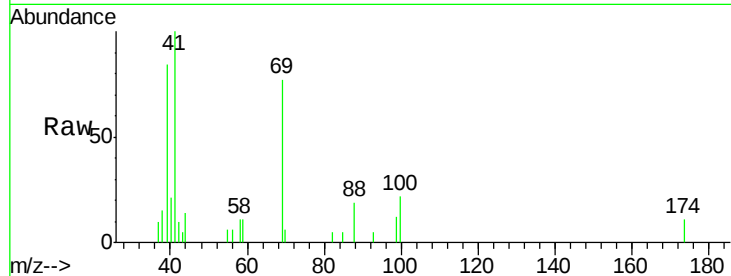
Tot Ion: 88 Resp: 2369

Ion Ratio Lower Upper

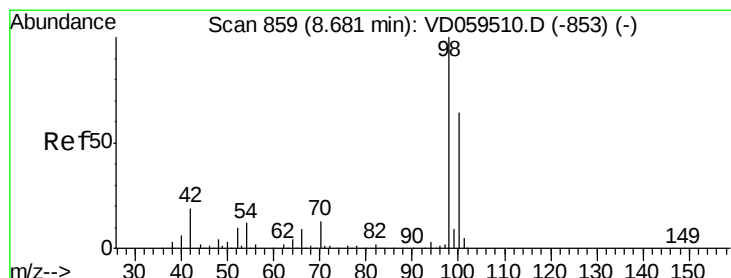
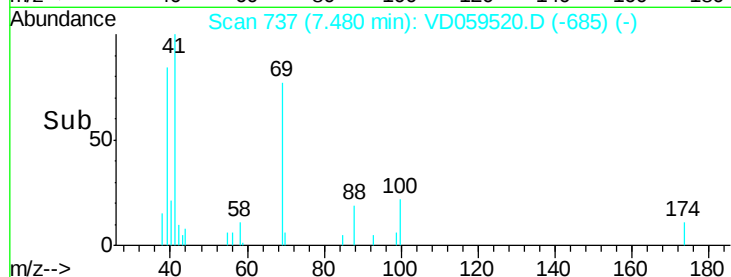
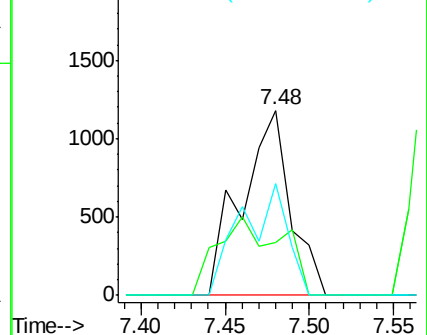
88 100

43 28.5 41.4 62.0#

58 60.4 49.4 74.2



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



#50

Toluene-d8

Concen: 59.868 ug/l

RT: 8.68 min Scan# 859

Delta R.T. 0.00 min

Lab File: VD059520.D

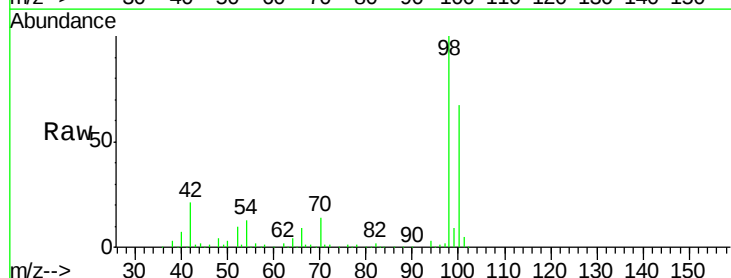
Acq: 3 Jul 2018 00:15

Tgt Ion: 98 Resp: 936540

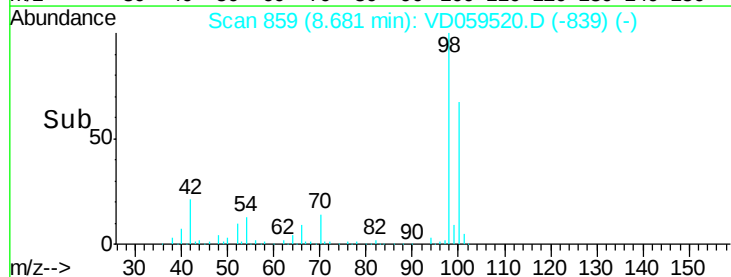
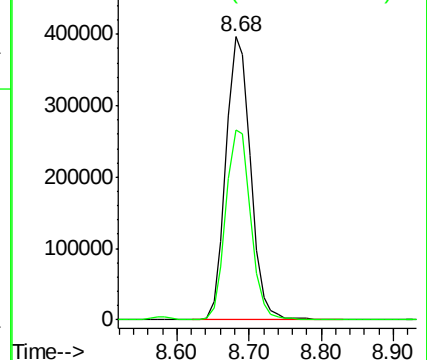
Ion Ratio Lower Upper

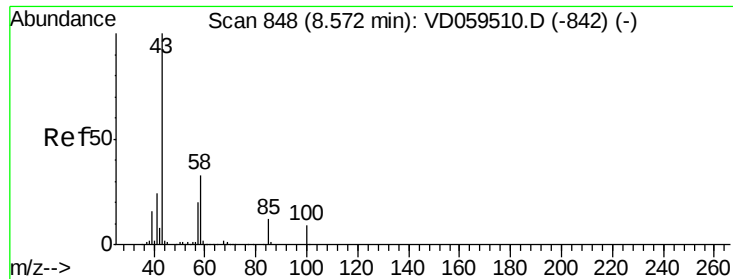
98 100

100 67.2 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 20.644 ug/l

RT: 8.57 min Scan# 848

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

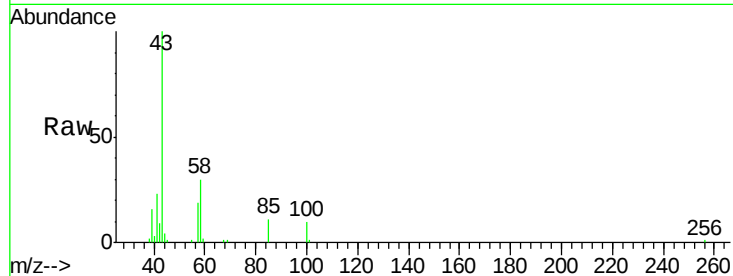
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 91796

Ion Ratio Lower Upper

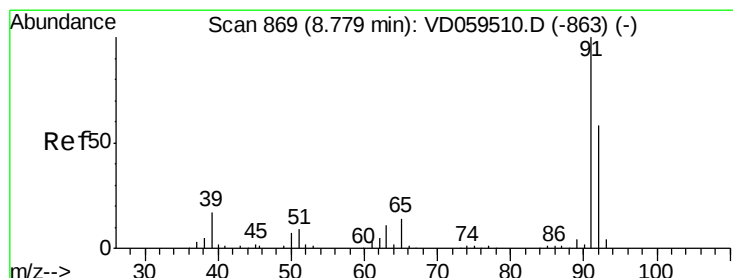
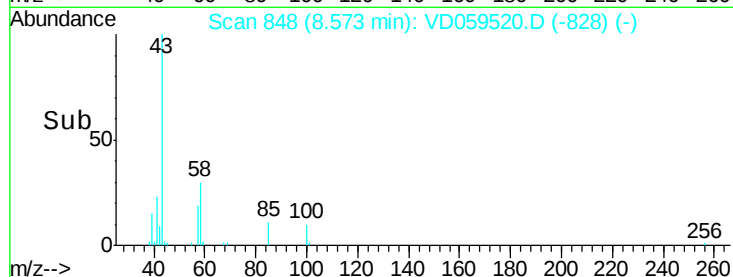
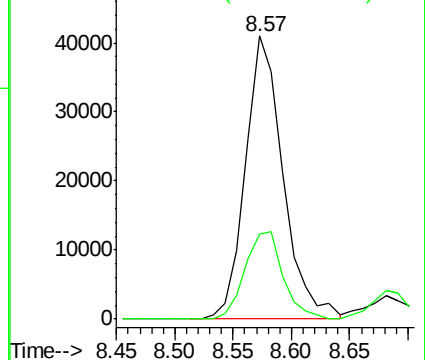
43 100

58 30.2 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 4.240 ug/l

RT: 8.78 min Scan# 869

Delta R.T. 0.00 min

Lab File: VD059520.D

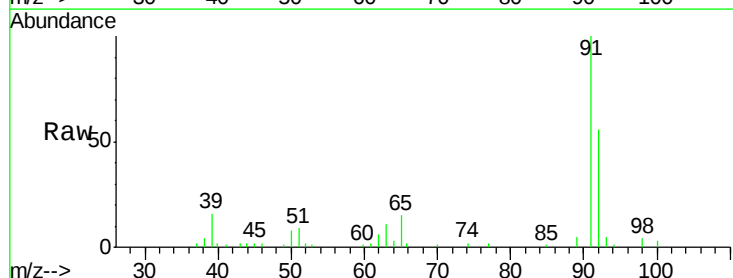
Acq: 3 Jul 2018 00:15

Tgt Ion: 92 Resp: 49833

Ion Ratio Lower Upper

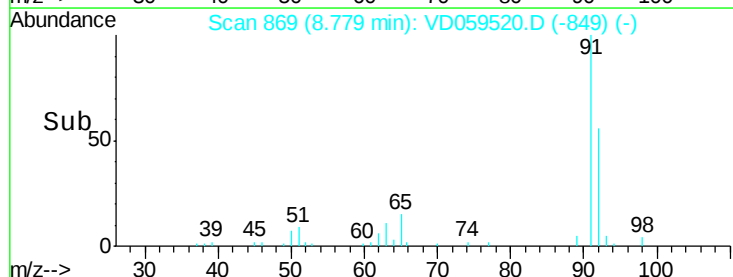
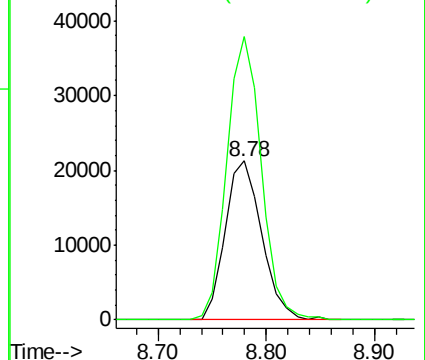
92 100

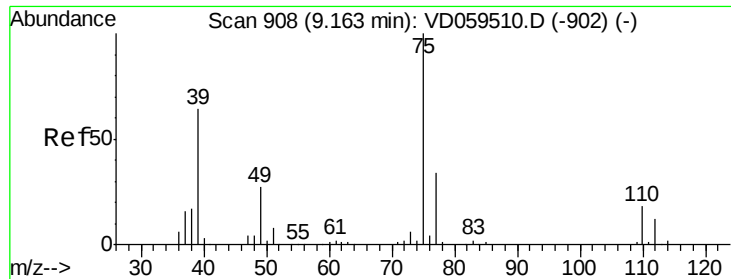
91 178.1 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

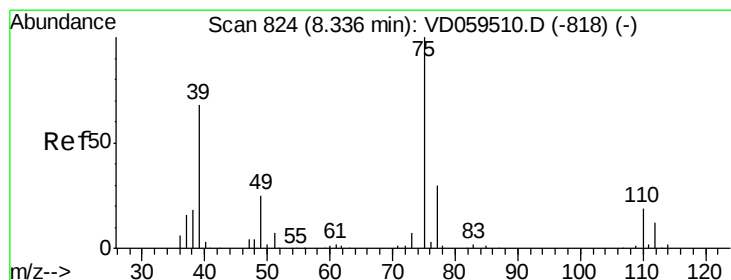
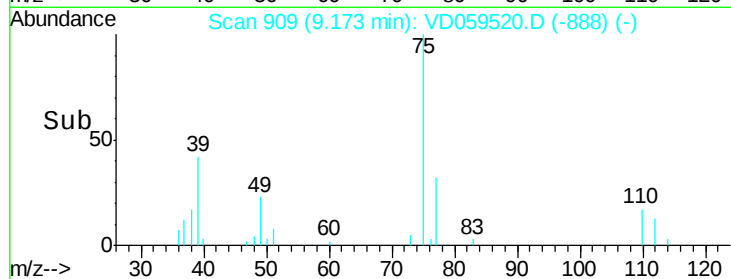
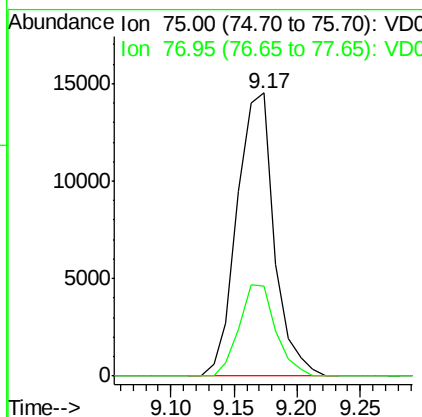
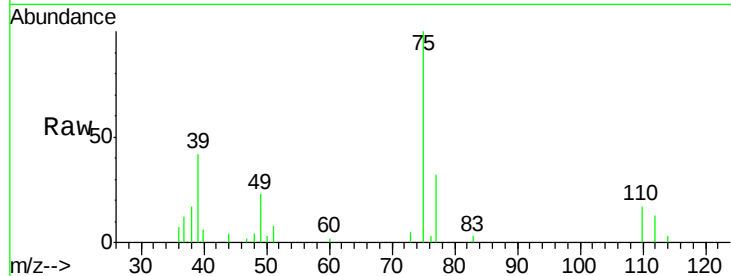




#53
 t-1,3-Dichloropropene
 Concen: 3.639 ug/l
 RT: 9.17 min Scan# 909
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

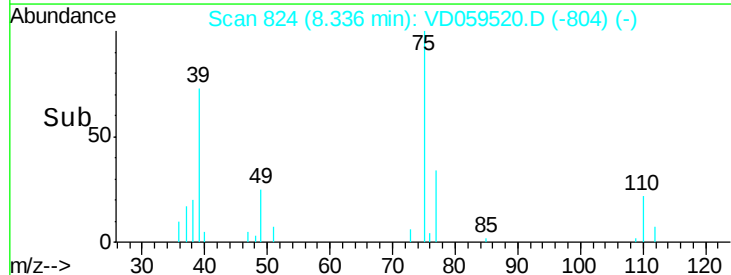
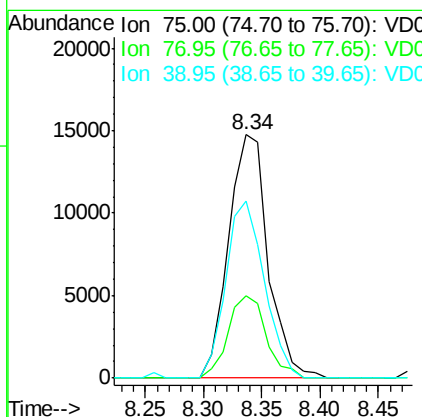
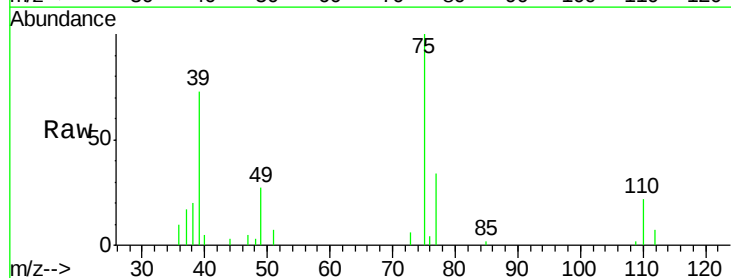
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

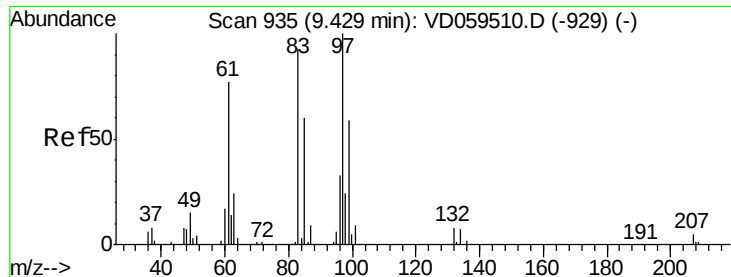
Tot Ion: 75 Resp: 29715
 Ion Ratio Lower Upper
 75 100
 77 31.8 26.9 40.3



#54
 cis-1,3-Dichloropropene
 Concen: 3.657 ug/l
 RT: 8.34 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion: 75 Resp: 34627
 Ion Ratio Lower Upper
 75 100
 77 33.8 24.4 36.6
 39 72.7 54.7 82.1





#55

1,1,2-Trichloroethane

Concen: 4.554 ug/l

RT: 9.43 min Scan# 935

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 97 Resp: 19630

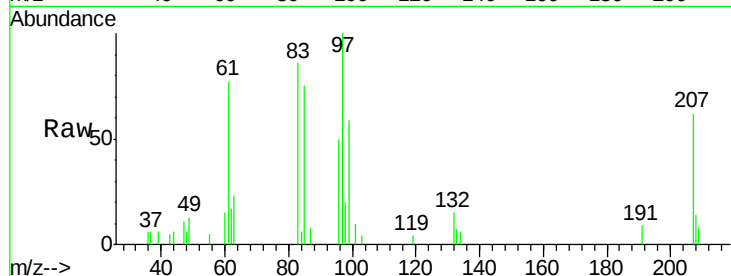
Ion Ratio Lower Upper

97 100

83 85.8 74.3 111.5

85 75.3 48.1 72.1#

99 59.0 47.2 70.8

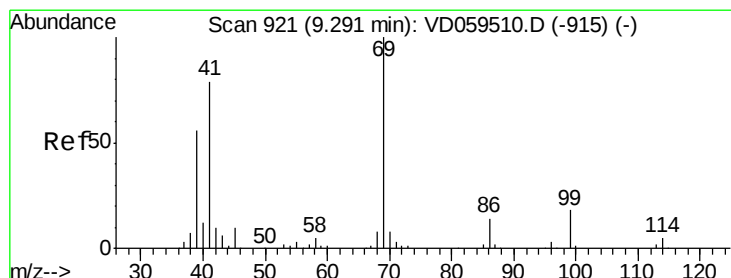
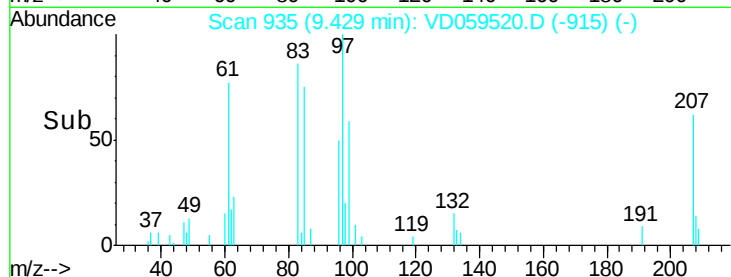
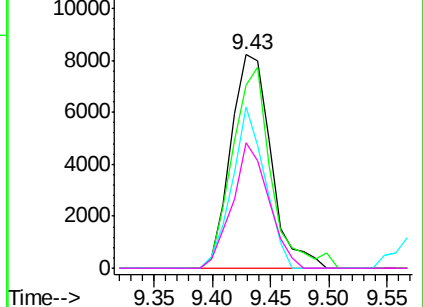


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 3.879 ug/l

RT: 9.29 min Scan# 921

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

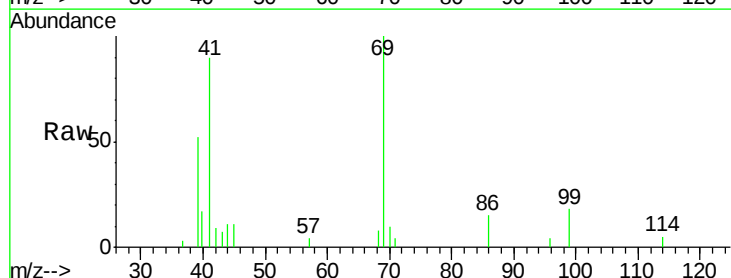
Tgt Ion: 69 Resp: 20945

Ion Ratio Lower Upper

69 100

41 89.6 63.4 95.0

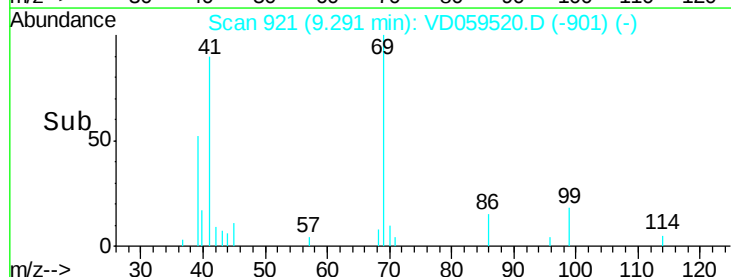
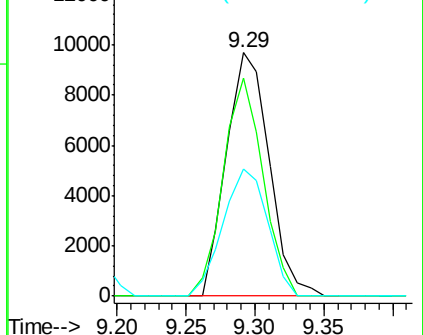
39 52.0 45.0 67.6

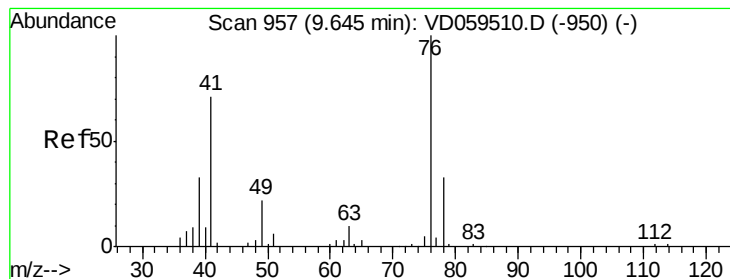


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 3.735 ug/l

RT: 9.65 min Scan# 957

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

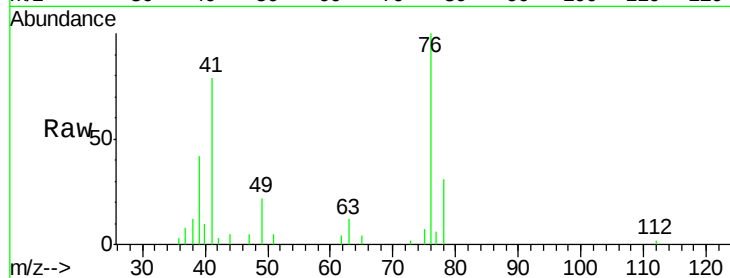
MDL-SOIL-03-QT3-2018

Tot Ion: 76 Resp: 28998

Ion Ratio Lower Upper

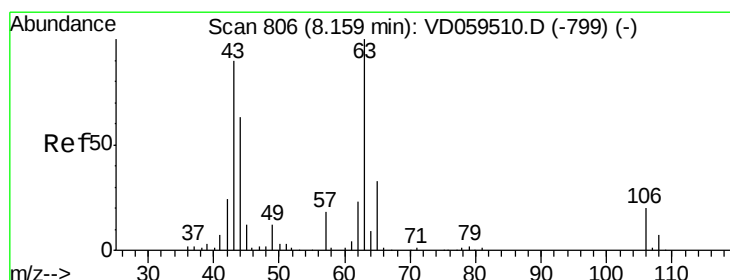
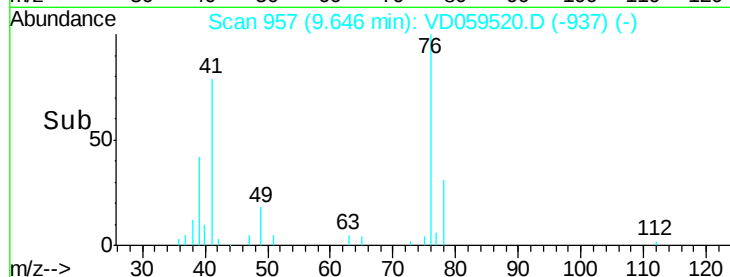
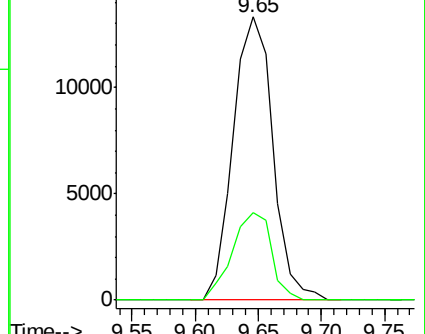
76 100

78 30.8 26.5 39.7



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: 21.836 ug/l

RT: 8.17 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD059520.D

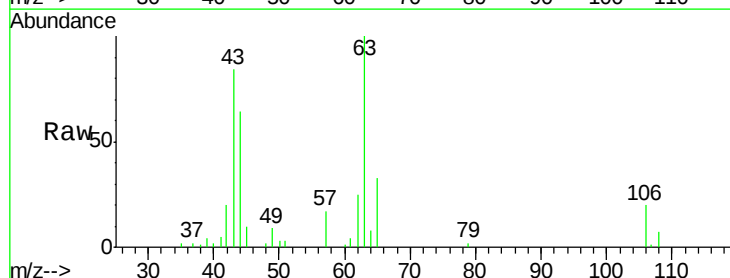
Acq: 3 Jul 2018 00:15

Tgt Ion: 63 Resp: 57035

Ion Ratio Lower Upper

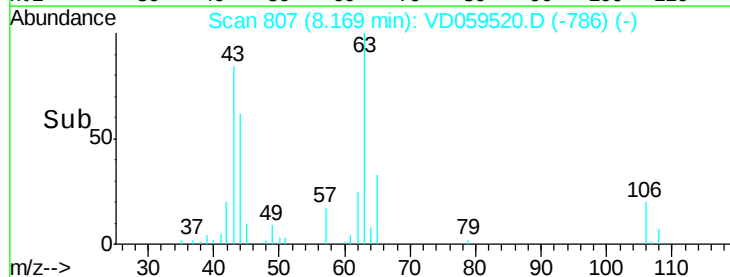
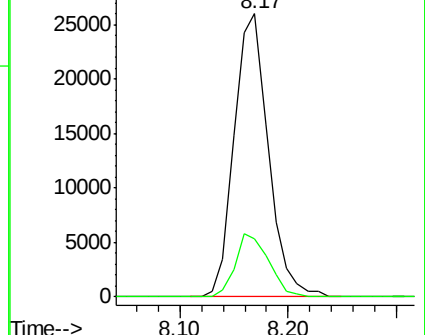
63 100

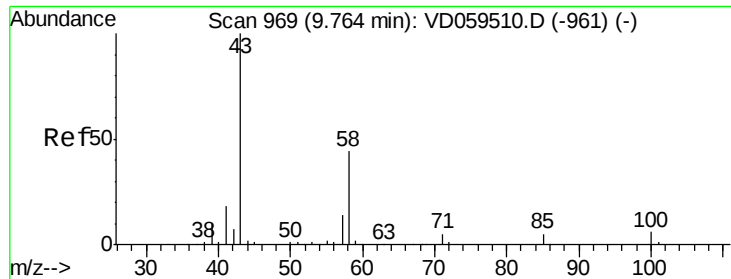
106 20.4 16.4 24.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

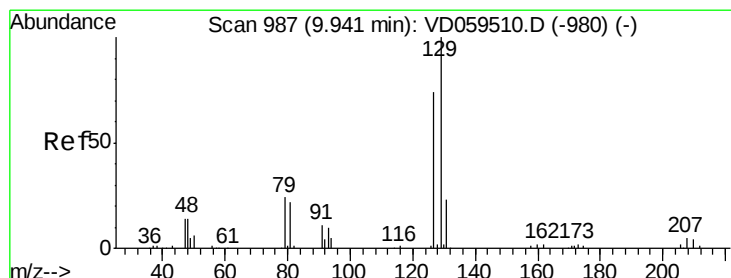
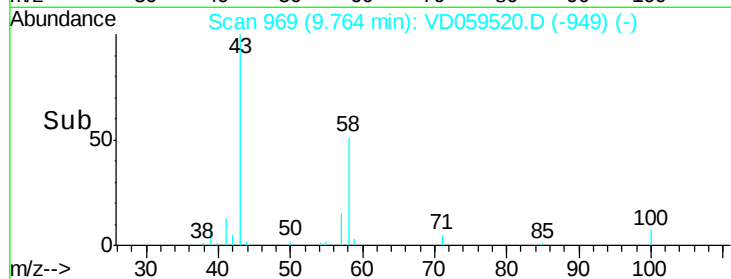
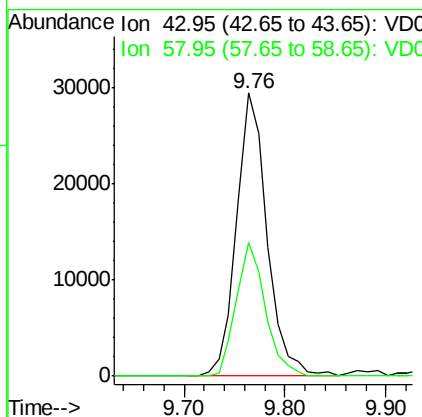
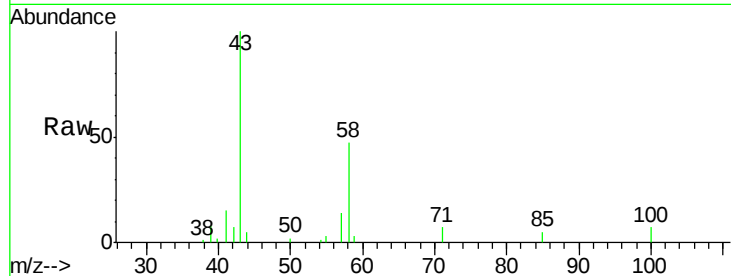




#59
2-Hexanone
Concen: 18.975 ug/l
RT: 9.76 min Scan# 969
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

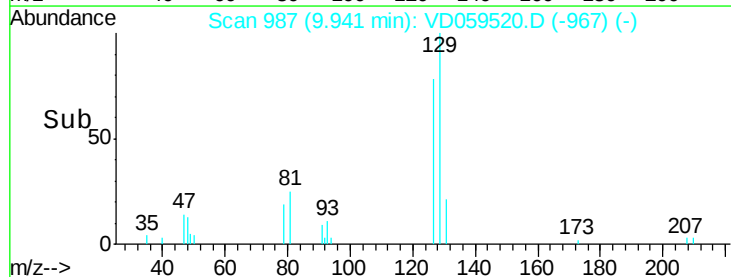
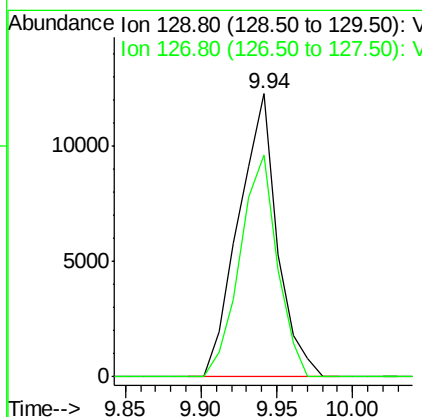
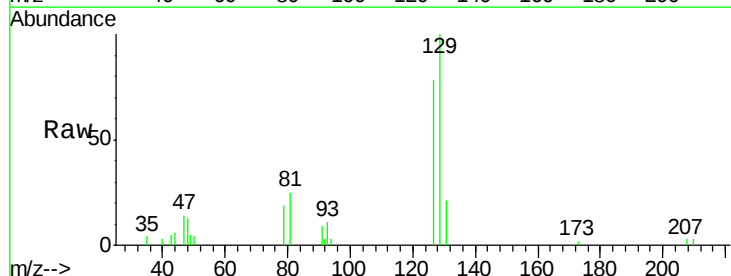
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

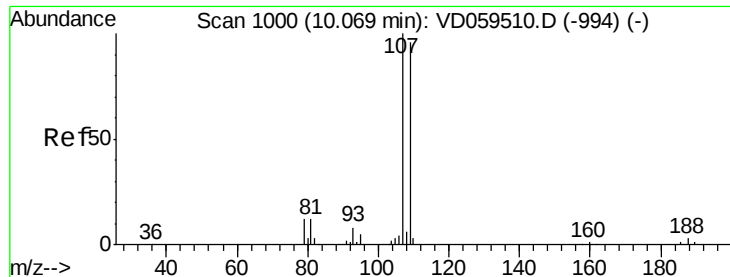
Tot Ion: 43 Resp: 62058
Ion Ratio Lower Upper
43 100
58 47.2 22.0 66.0



#60
Dibromochloromethane
Concen: 3.630 ug/l
RT: 9.94 min Scan# 987
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion:129 Resp: 21838
Ion Ratio Lower Upper
129 100
127 78.3 37.2 111.6





#61

1,2-Dibromoethane

Concen: 4.000 ug/l

RT: 10.08 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

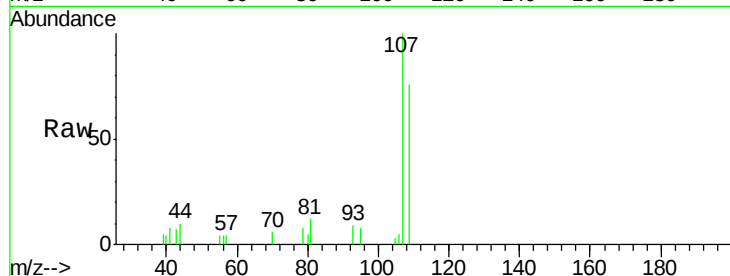
MDL-SOIL-03-QT3-2018

Tot Ion:107 Resp: 19085

Ion Ratio Lower Upper

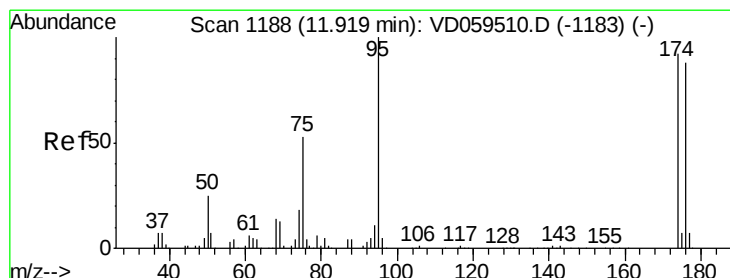
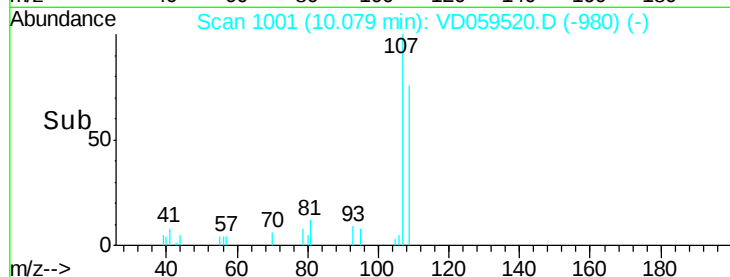
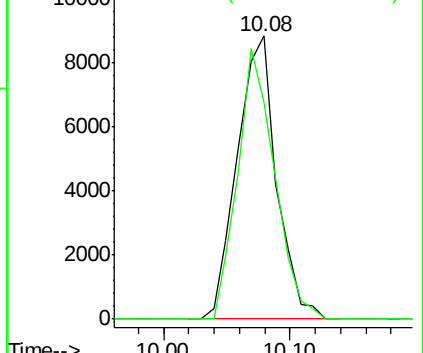
107 100

109 76.4 76.8 115.2#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 4.000 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

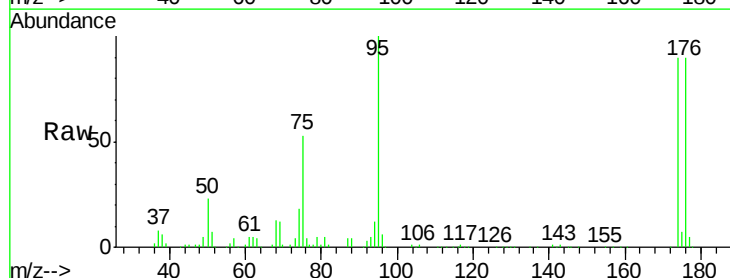
Tgt Ion: 95 Resp: 396482

Ion Ratio Lower Upper

95 100

174 90.3 0.0 183.0

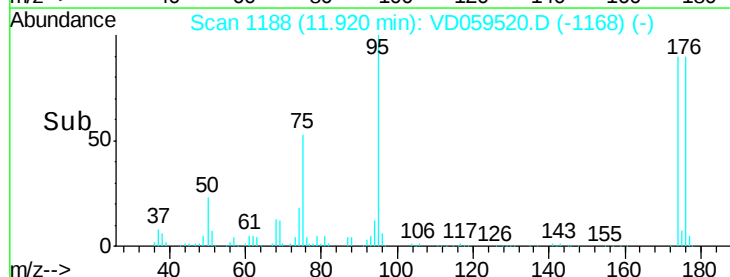
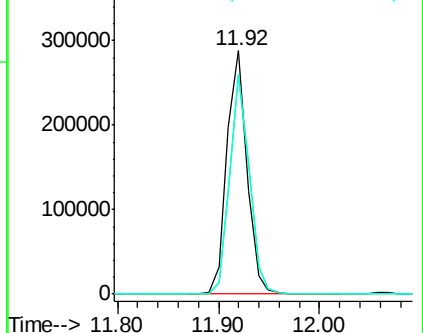
176 90.3 0.0 176.6

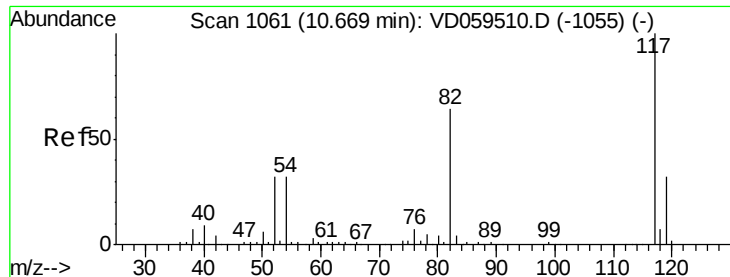


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.67 min Scan# 1061

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

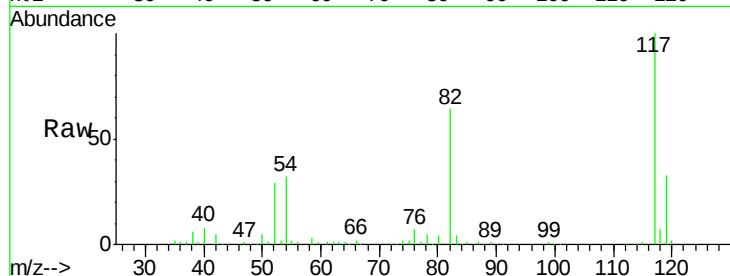
Tot Ion:117 Resp: 761743

Ion Ratio Lower Upper

117 100

82 63.9 51.1 76.7

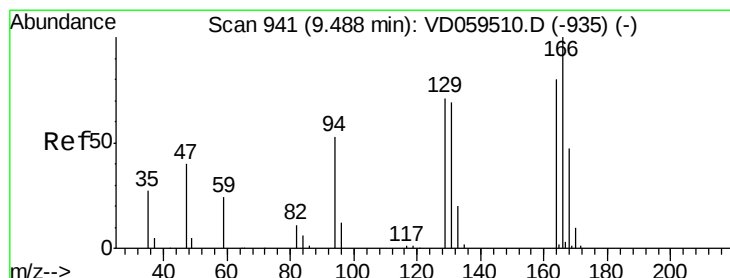
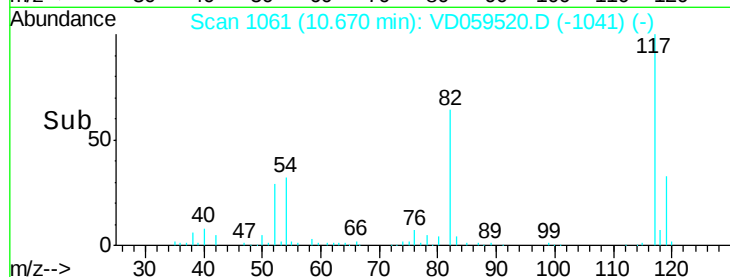
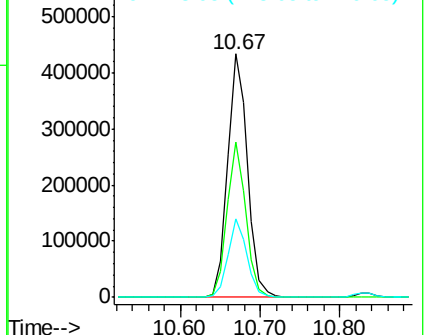
119 32.5 25.6 38.4



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 4.095 ug/l

RT: 9.49 min Scan# 941

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion:164 Resp: 26830

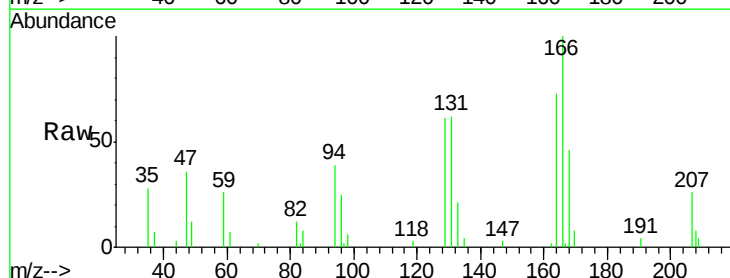
Ion Ratio Lower Upper

164 100

166 137.8 99.5 149.3

129 83.6 70.9 106.3

131 85.2 68.8 103.2

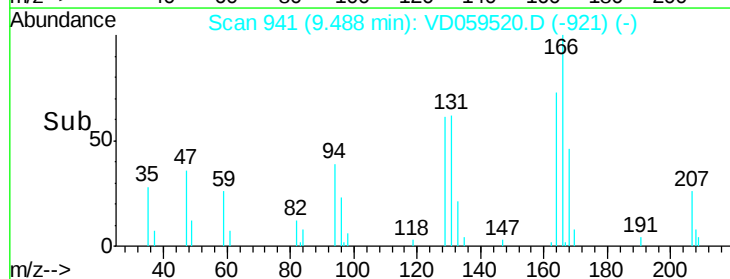
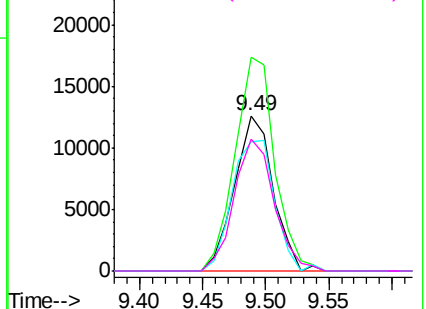


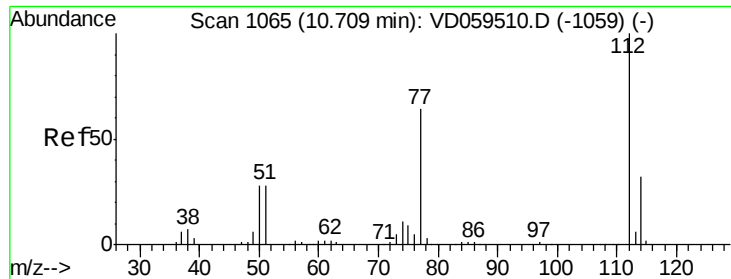
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

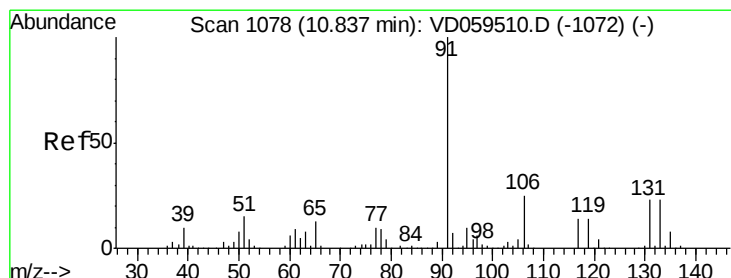
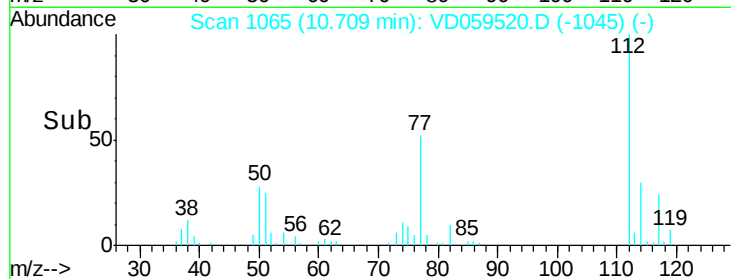
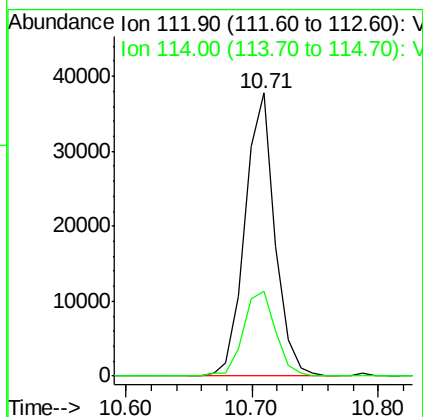
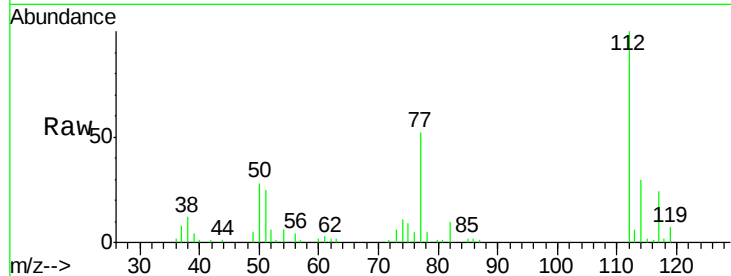




#65
Chlorobenzene
Concen: 4.224 ug/l
RT: 10.71 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

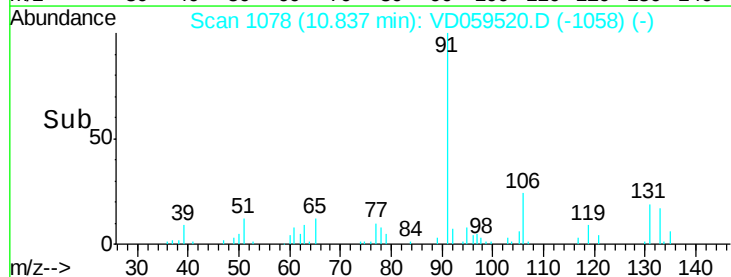
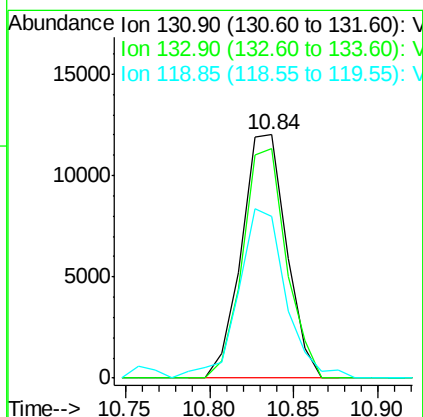
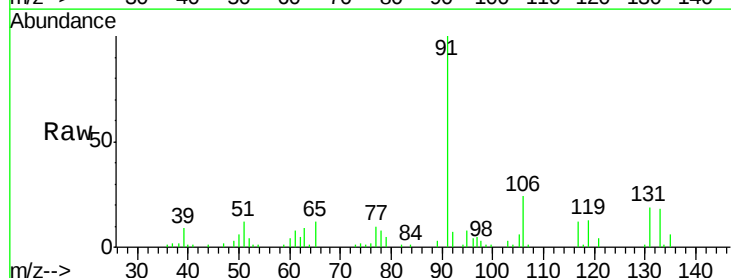
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

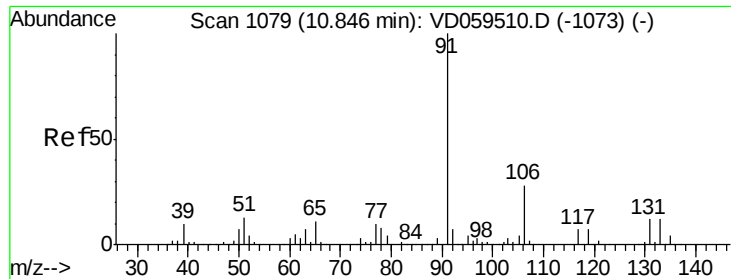
Tot Ion:112 Resp: 61990
Ion Ratio Lower Upper
112 100
114 29.9 25.4 38.2



#66
1,1,1,2-Tetrachloroethane
Concen: 3.720 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion:131 Resp: 22229
Ion Ratio Lower Upper
131 100
133 94.0 48.9 146.6
119 66.3 30.7 92.1

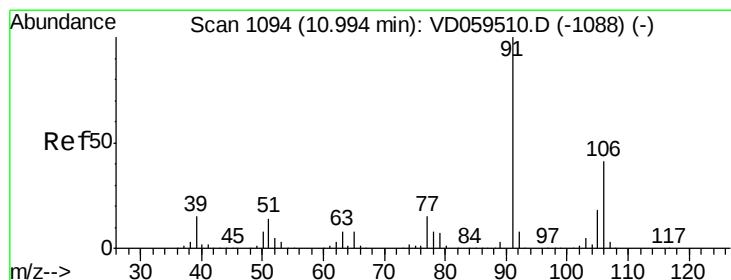
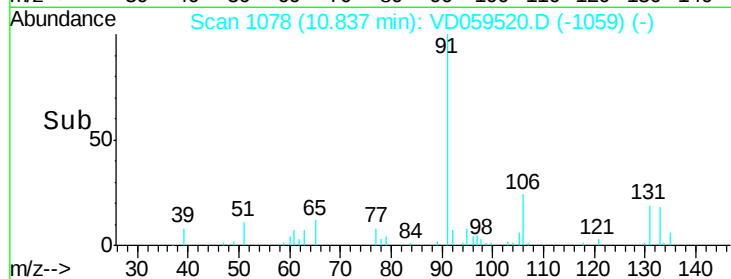
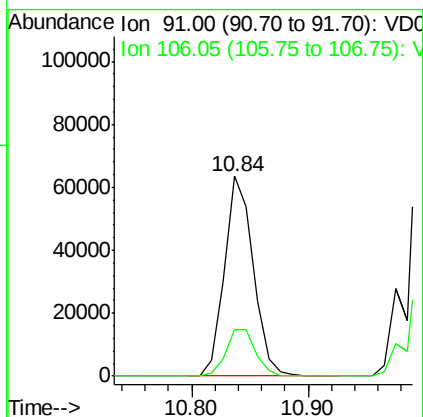
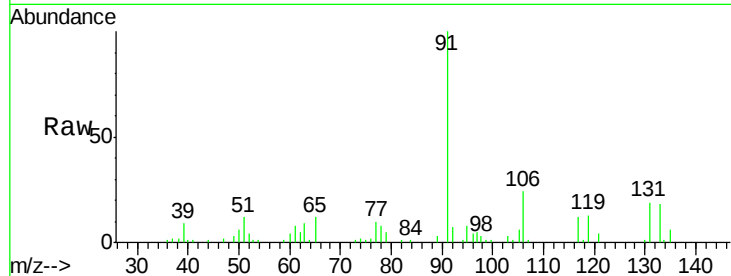




#67
Ethyl Benzene
Concen: 4.179 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

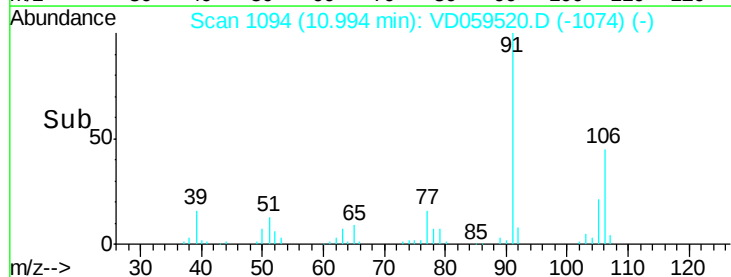
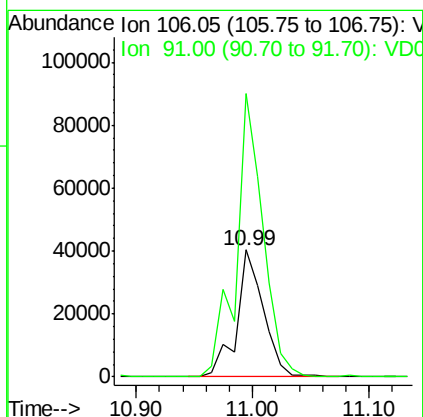
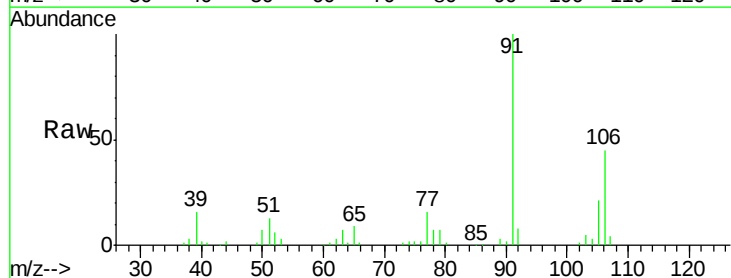
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

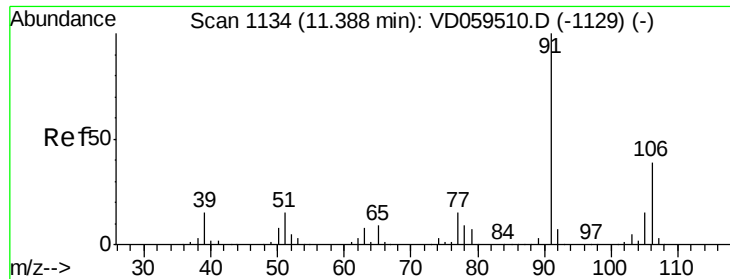
Tot Ion: 91 Resp: 108751
Ion Ratio Lower Upper
91 100
106 23.6 22.2 33.2



#68
m/p-Xylenes
Concen: 7.504 ug/l
RT: 10.99 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 106 Resp: 64413
Ion Ratio Lower Upper
106 100
91 222.7 194.1 291.1

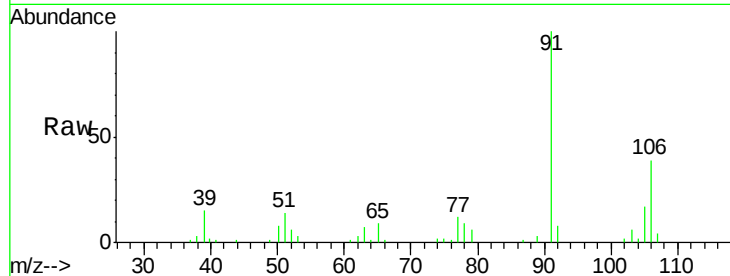




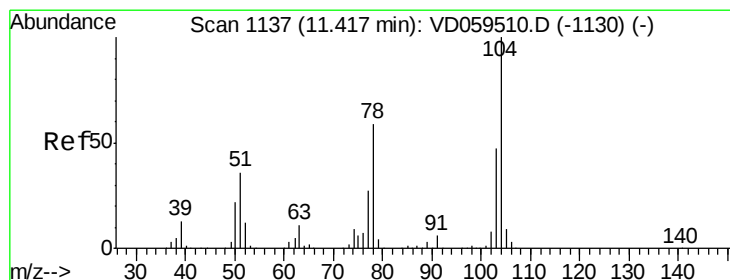
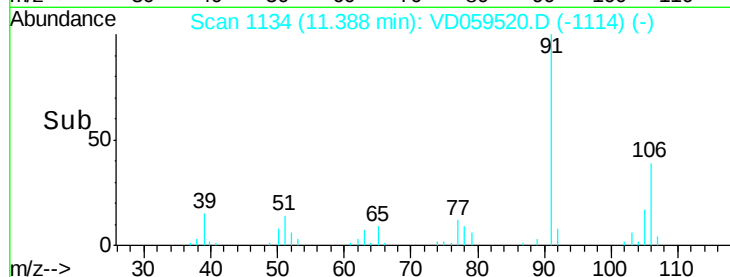
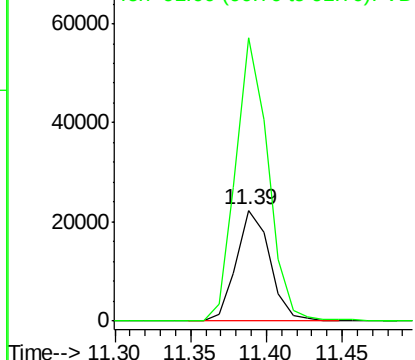
#69
o-Xylene
Concen: 4.180 ug/l
RT: 11.39 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:106 Resp: 34575
Ion Ratio Lower Upper
106 100
91 255.7 127.0 381.0

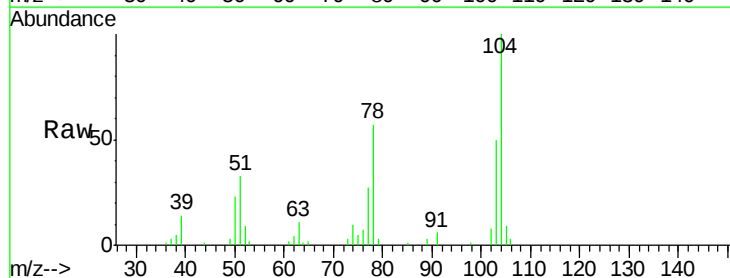


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

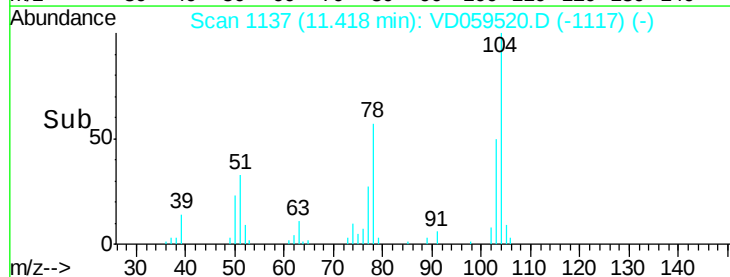
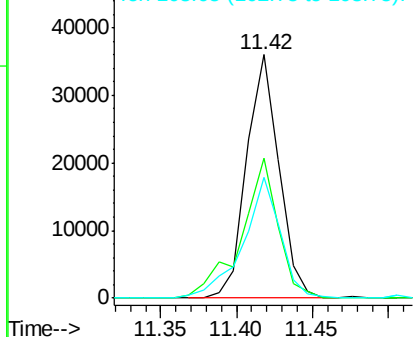


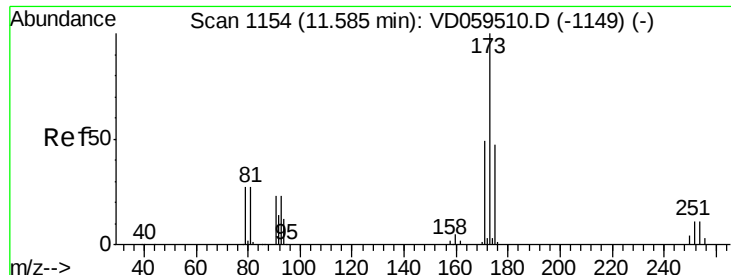
#70
Styrene
Concen: 3.865 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion:104 Resp: 53591
Ion Ratio Lower Upper
104 100
78 57.4 47.6 71.4
103 49.6 37.6 56.4



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





#71

Bromoform

Concen: 2.970 ug/l

RT: 11.59 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

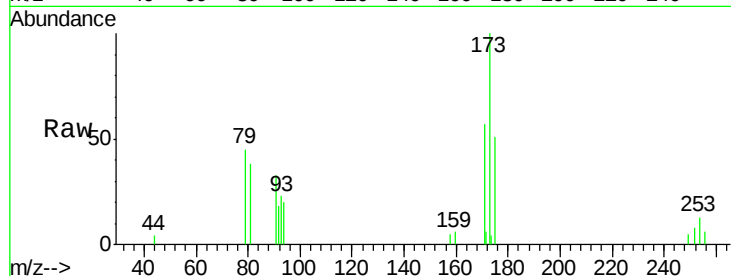
Tot Ion:173 Resp: 13397

Ion Ratio Lower Upper

173 100

175 50.7 23.3 69.8

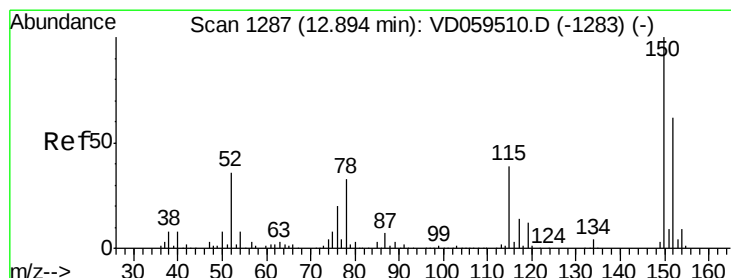
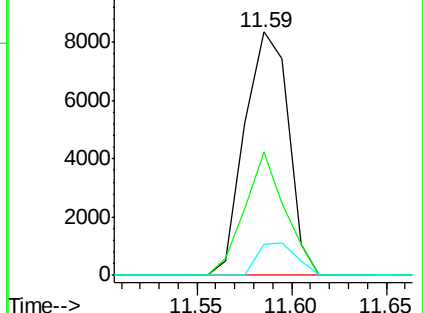
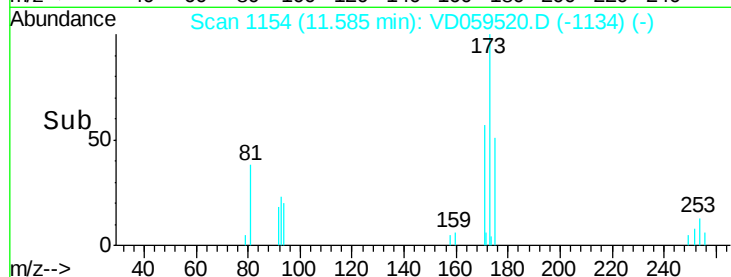
254 12.8 9.0 13.6



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.89 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

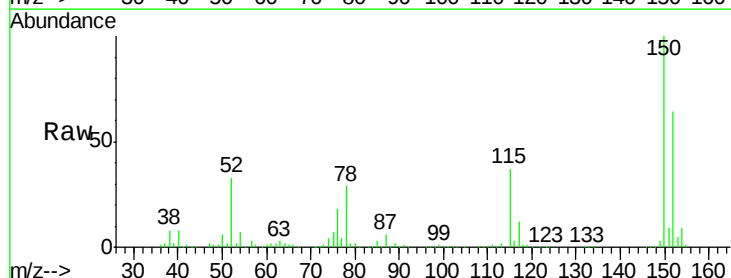
Tgt Ion:152 Resp: 384814

Ion Ratio Lower Upper

152 100

115 58.3 31.3 93.9

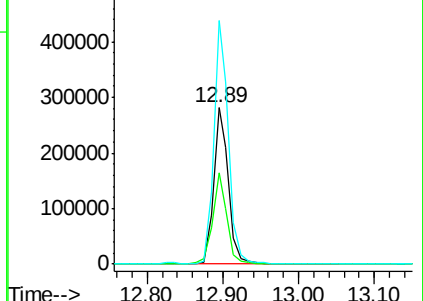
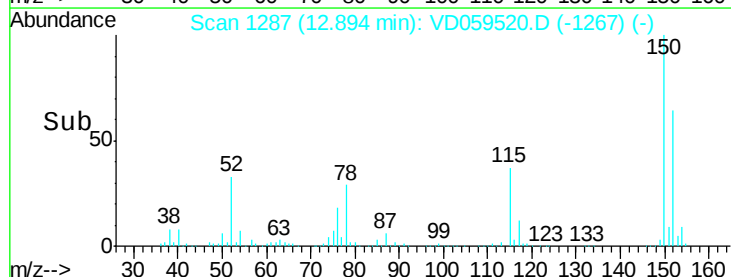
150 156.0 0.0 323.6

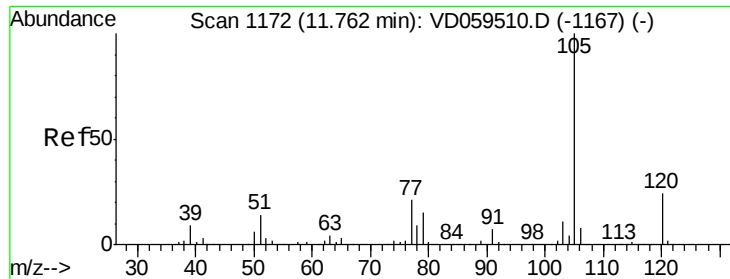


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.296 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

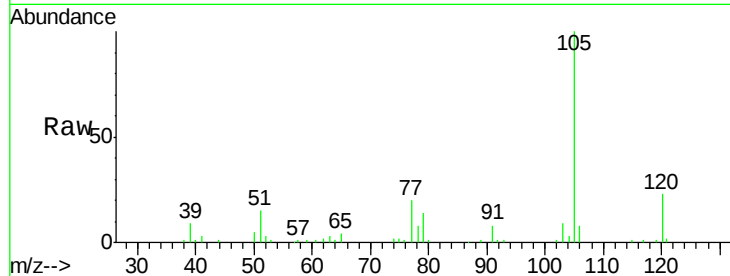
MDL-SOIL-03-QT3-2018

Tot Ion:105 Resp: 98789

Ion Ratio Lower Upper

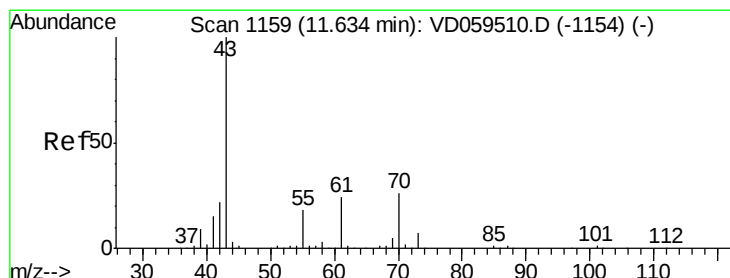
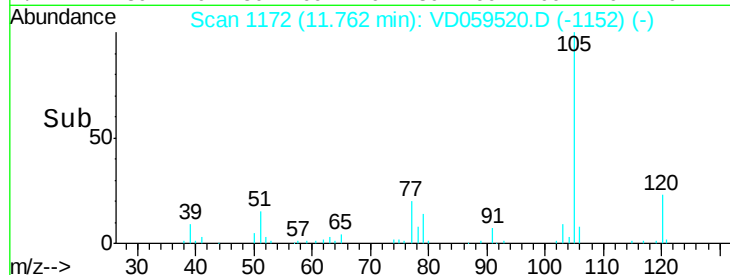
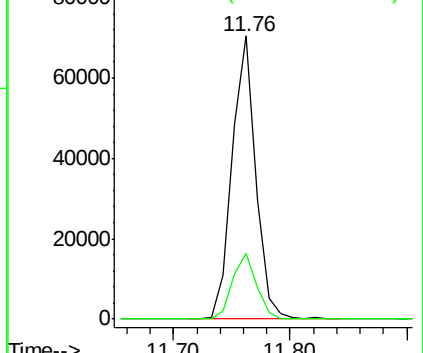
105 100

120 23.3 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 3.426 ug/l

RT: 11.63 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion: 43 Resp: 33253

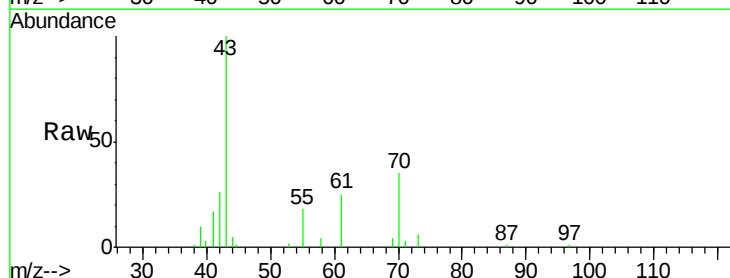
Ion Ratio Lower Upper

43 100

70 34.8 20.6 31.0#

55 18.4 14.4 21.6

61 25.3 19.2 28.8

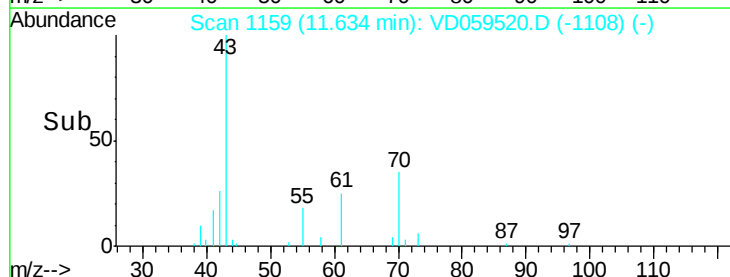
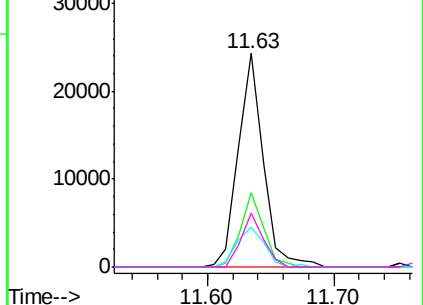


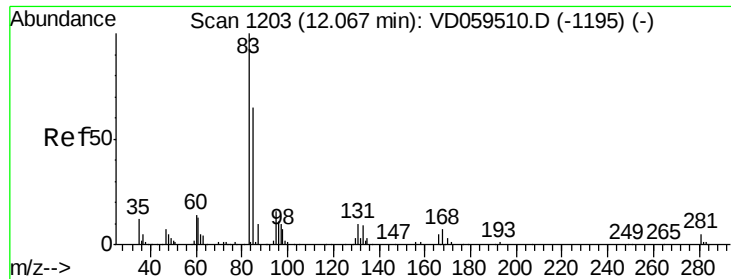
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 3.827 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

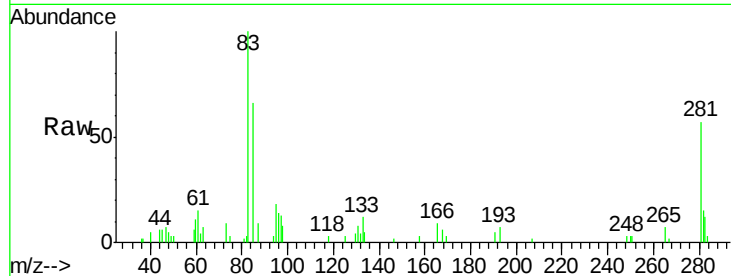
Tot Ion: 83 Resp: 22804

Ion Ratio Lower Upper

83 100

131 8.1 5.0 15.0

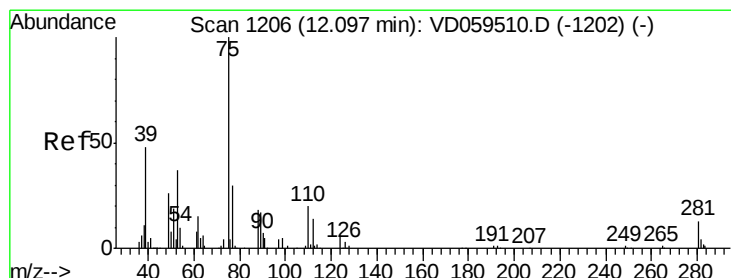
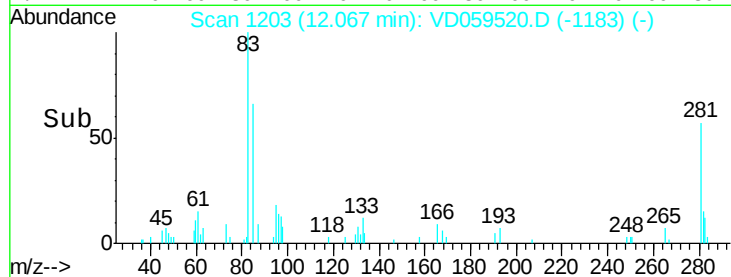
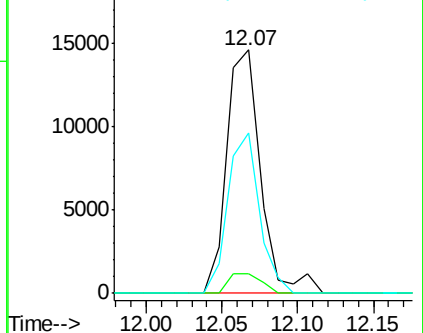
85 65.7 32.3 96.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 3.834 ug/l

RT: 12.10 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VD059520.D

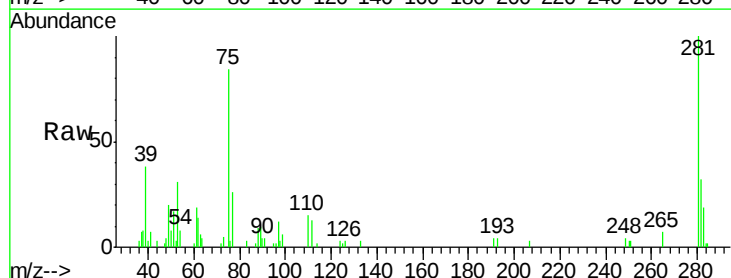
Acq: 3 Jul 2018 00:15

Tgt Ion: 75 Resp: 23809

Ion Ratio Lower Upper

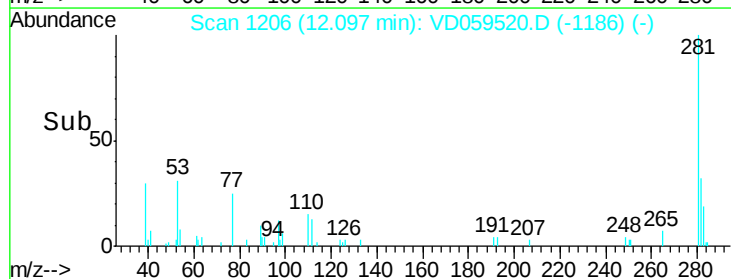
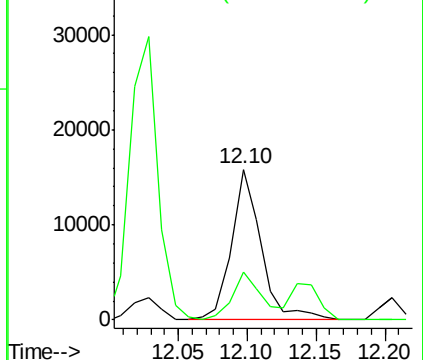
75 100

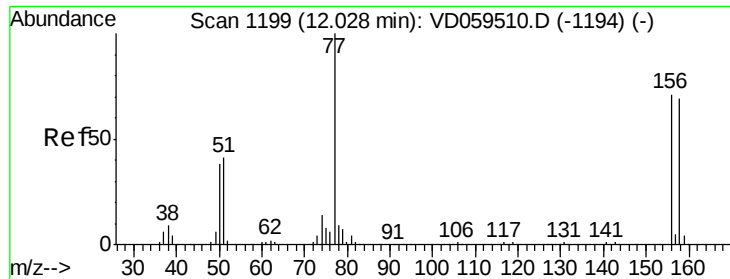
77 31.5 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 3.864 ug/l

RT: 12.03 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

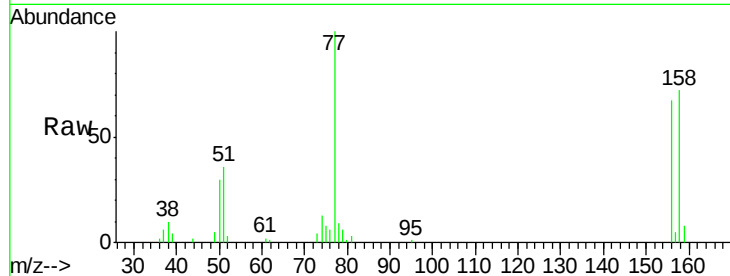
Tot Ion:156 Resp: 27893

Ion Ratio Lower Upper

156 100

77 149.5 70.0 210.0

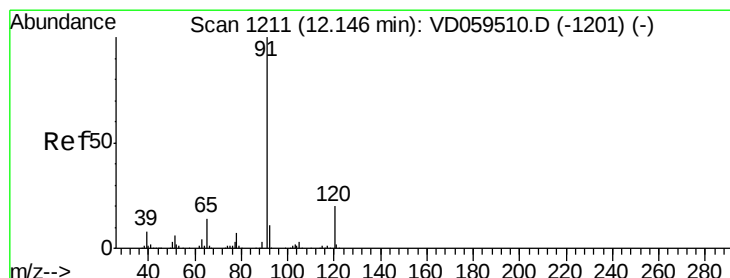
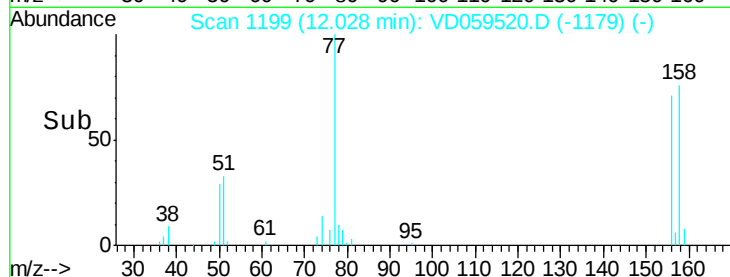
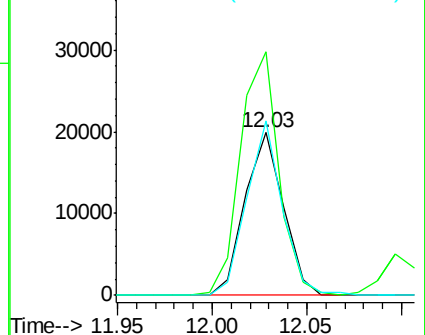
158 107.0 48.3 144.9



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: 4.168 ug/l

RT: 12.14 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059520.D

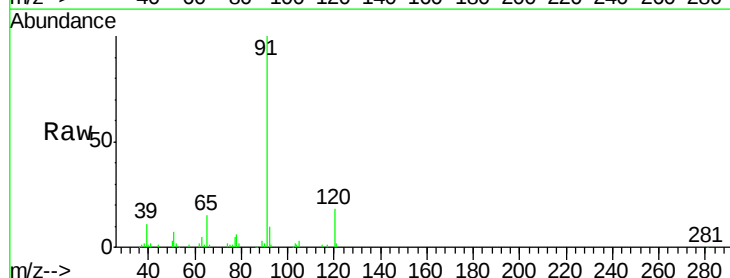
Acq: 3 Jul 2018 00:15

Tgt Ion: 91 Resp: 128393

Ion Ratio Lower Upper

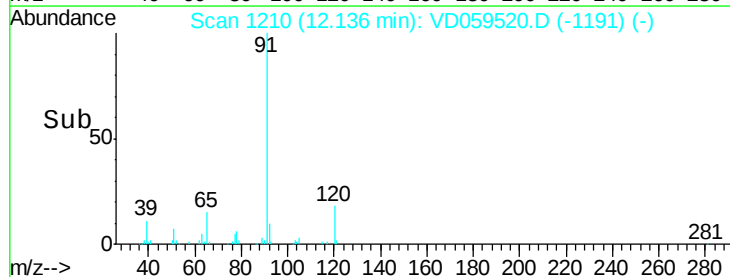
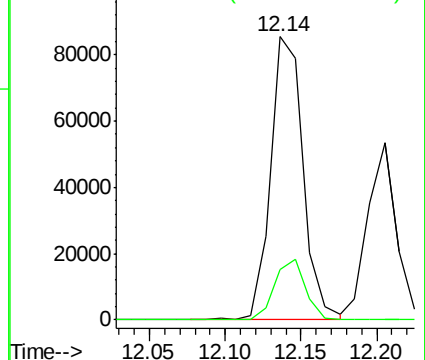
91 100

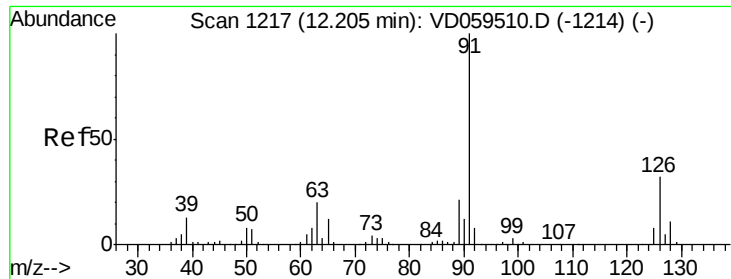
120 17.6 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V

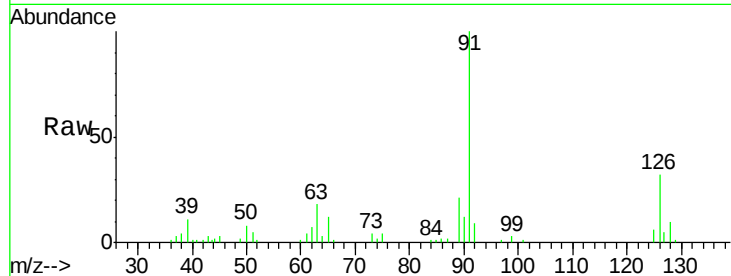




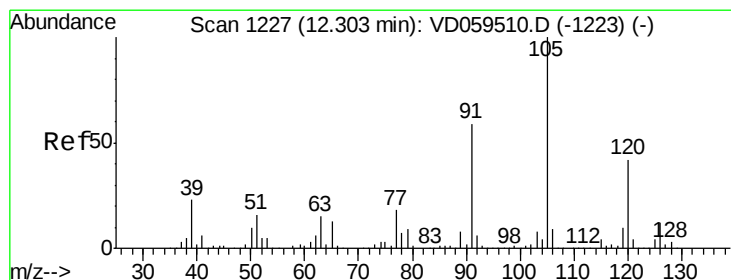
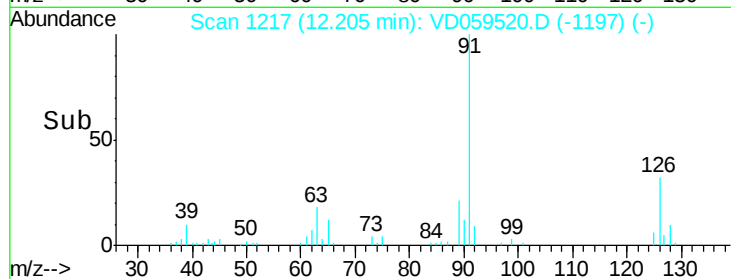
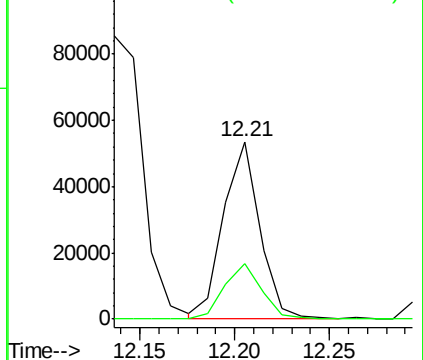
#79
 2-Chlorotoluene
 Concen: 3.929 ug/l
 RT: 12.21 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 71183
 Ion Ratio Lower Upper
 91 100
 126 31.5 15.9 47.6

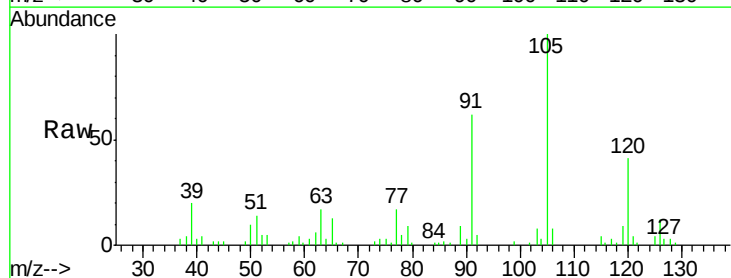


Abundance Ion 91.00 (90.70 to 91.70): VD059510.D (-1214) (-)
 Ion 125.95 (125.65 to 126.65): VD059510.D (-1214) (-)

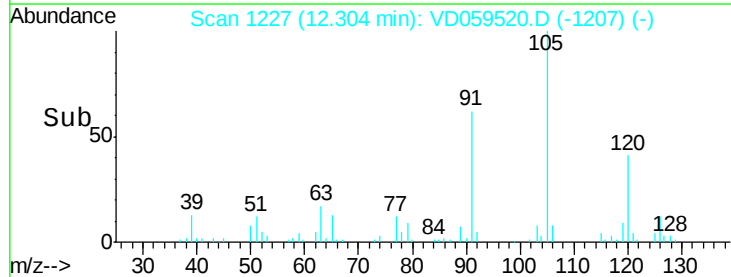
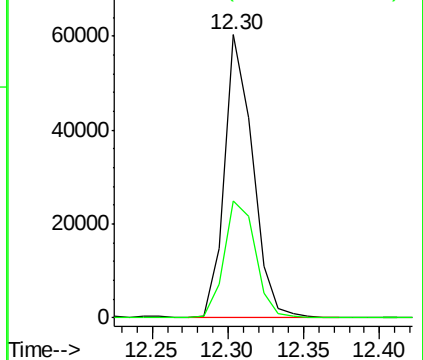


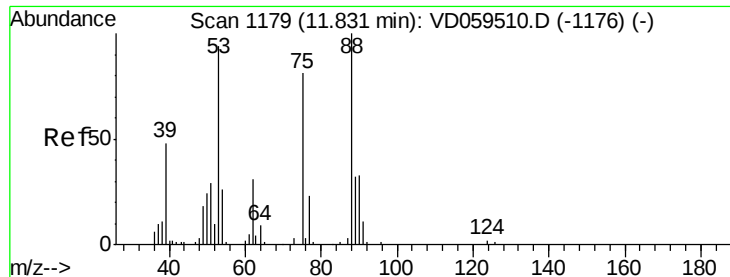
#80
 1,3,5-Trimethylbenzene
 Concen: 4.177 ug/l
 RT: 12.30 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion: 105 Resp: 78066
 Ion Ratio Lower Upper
 105 100
 120 41.1 20.8 62.4



Abundance Ion 105.05 (104.75 to 105.75): VD059510.D (-1223) (-)
 Ion 120.05 (119.75 to 120.75): VD059510.D (-1223) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 125.110 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.09 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

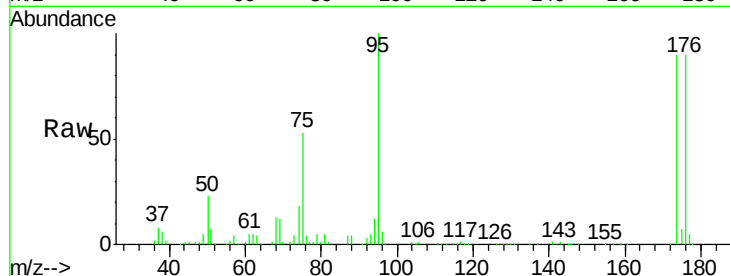
Tot Ion: 75 Resp: 212437

Ion Ratio Lower Upper

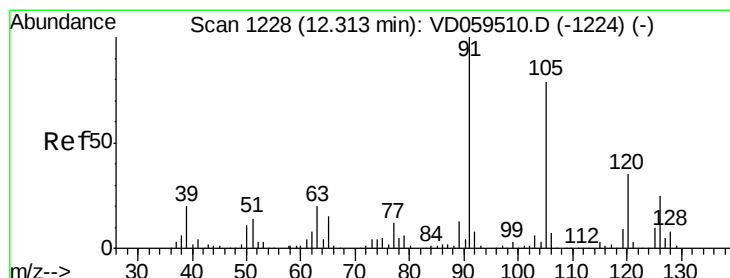
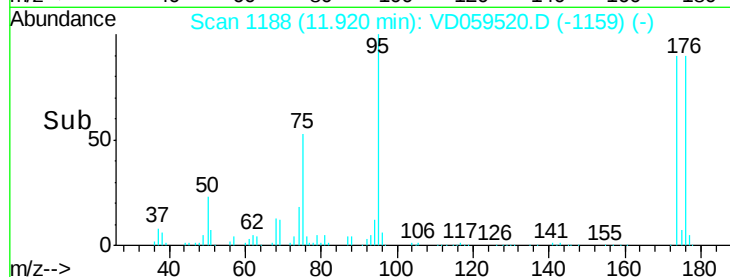
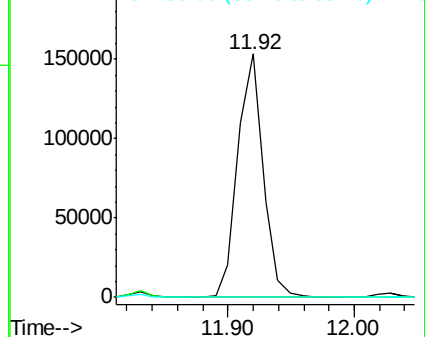
75 100

53 0.0 92.6 139.0#

89 0.0 31.5 47.3#



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



#82

4-Chlorotoluene

Concen: 4.249 ug/l

RT: 12.31 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VD059520.D

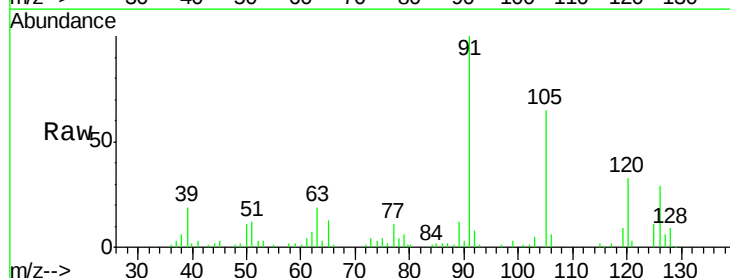
Acq: 3 Jul 2018 00:15

Tgt Ion: 91 Resp: 87243

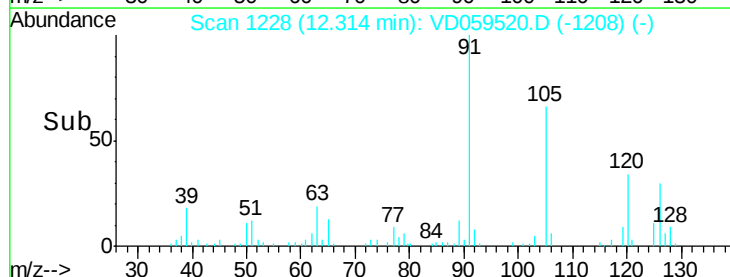
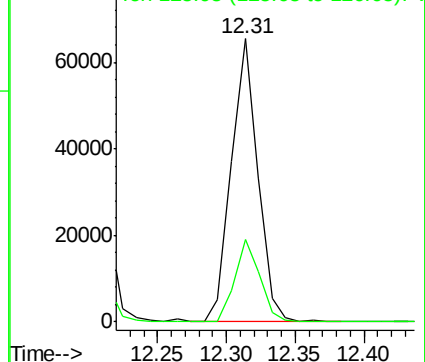
Ion Ratio Lower Upper

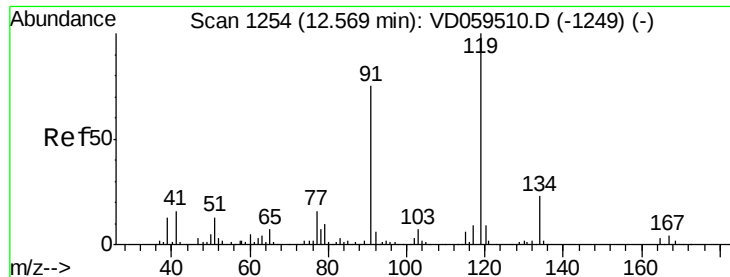
91 100

126 29.1 12.3 36.9



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

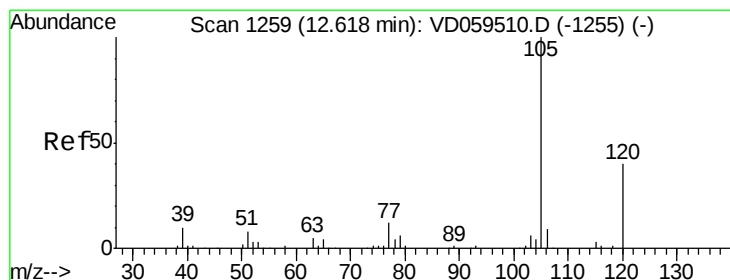
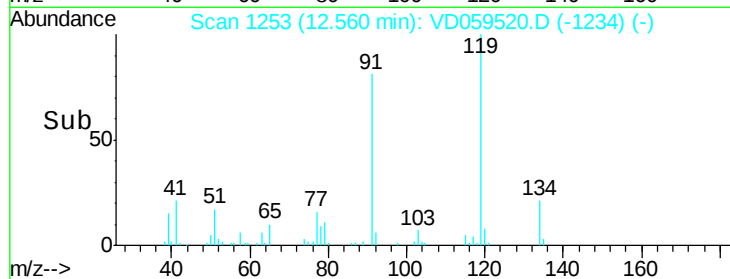
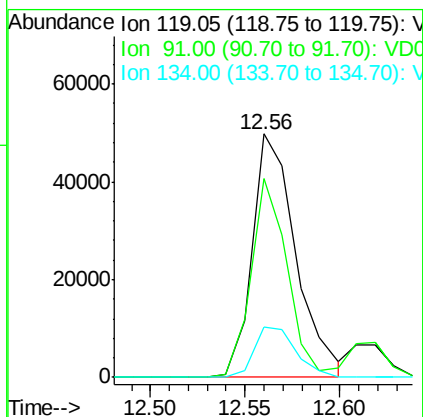
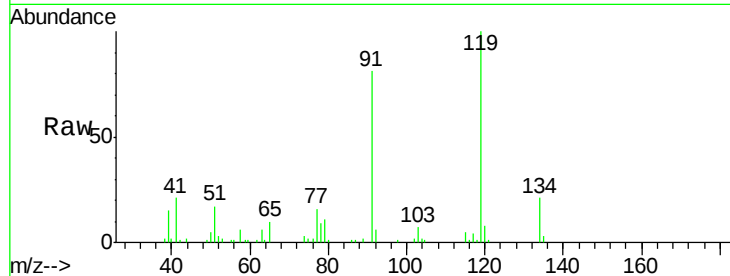




#83
tert-Butylbenzene
Concen: 3.745 ug/l
RT: 12.56 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

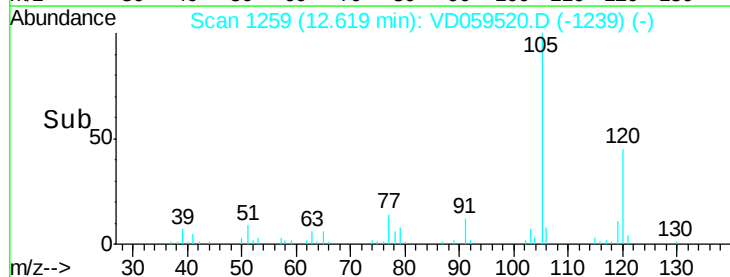
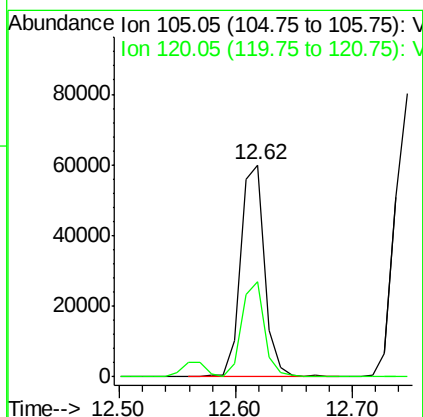
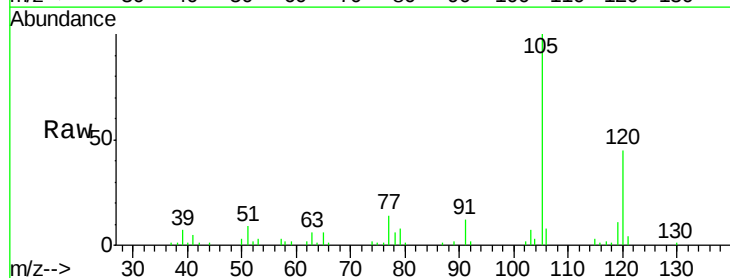
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

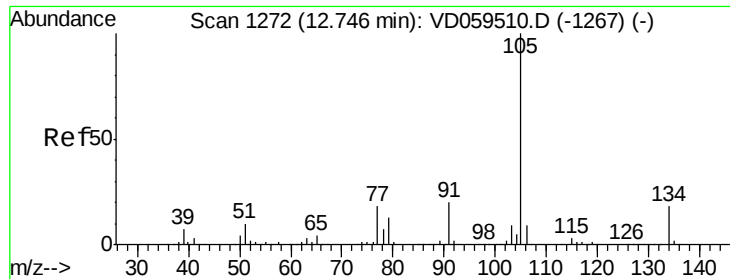
Tot Ion:119 Resp: 79635
Ion Ratio Lower Upper
119 100
91 81.4 37.8 113.3
134 20.7 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 4.229 ug/l
RT: 12.62 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion:105 Resp: 84915
Ion Ratio Lower Upper
105 100
120 44.8 21.1 63.3

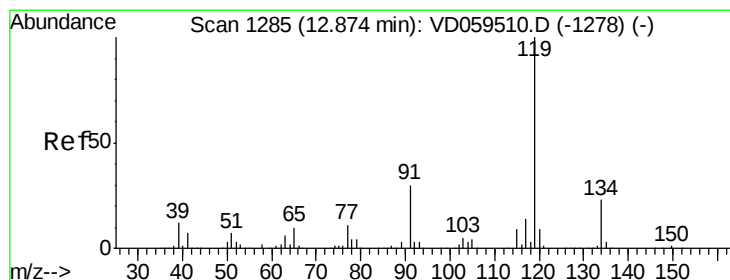
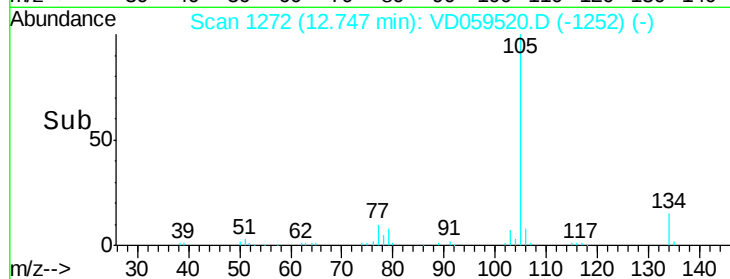
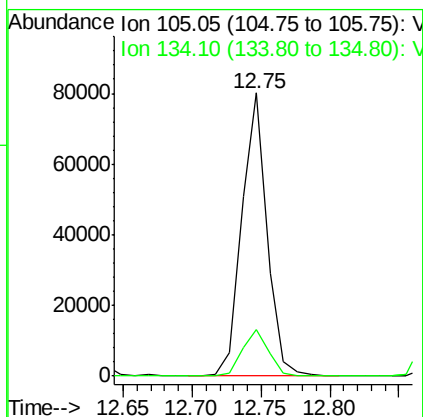
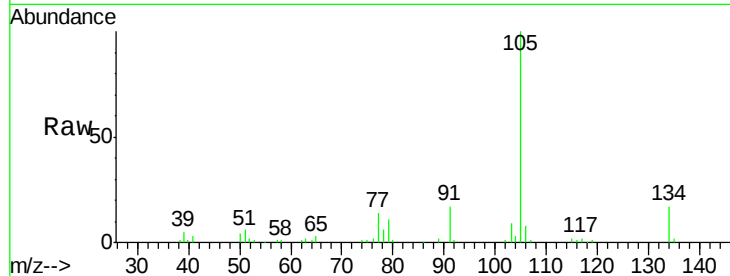




#85
 sec-Butylbenzene
 Concen: 4.196 ug/l
 RT: 12.75 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

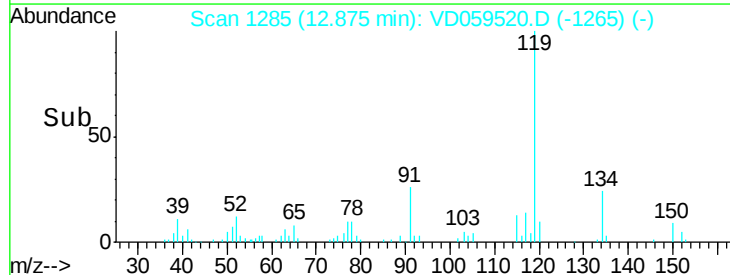
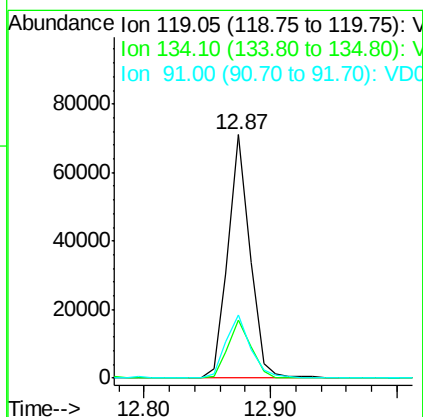
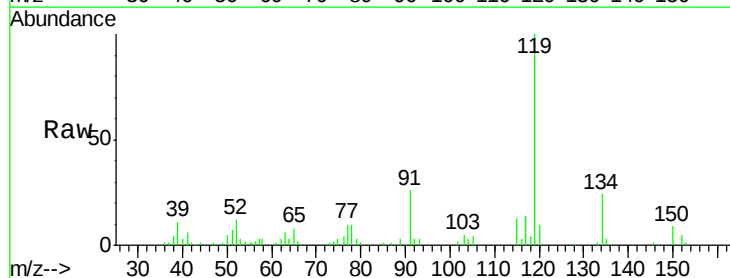
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

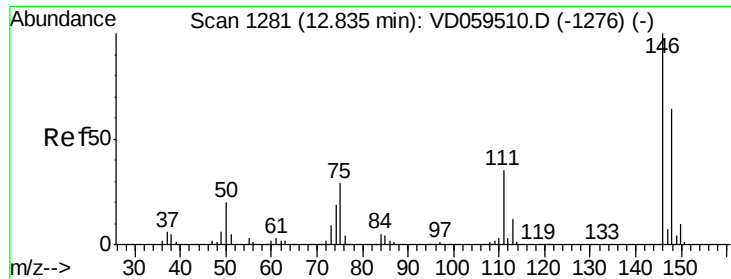
Tot Ion:105 Resp: 102392
 Ion Ratio Lower Upper
 105 100
 134 16.7 8.8 26.4



#86
 p-Isopropyltoluene
 Concen: 4.183 ug/l
 RT: 12.87 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion:119 Resp: 85631
 Ion Ratio Lower Upper
 119 100
 134 23.8 11.6 34.8
 91 26.1 15.3 45.8

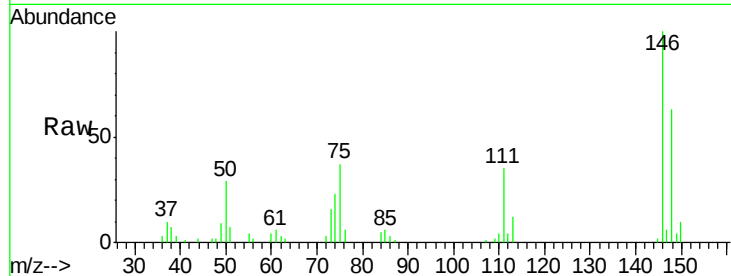




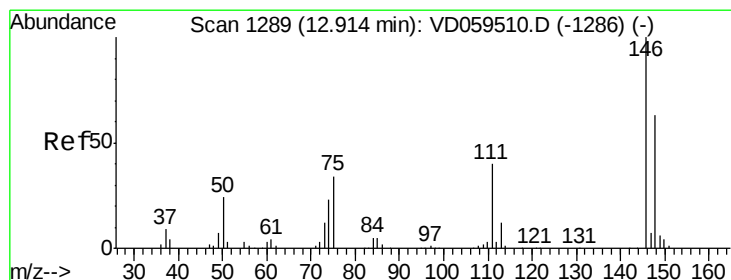
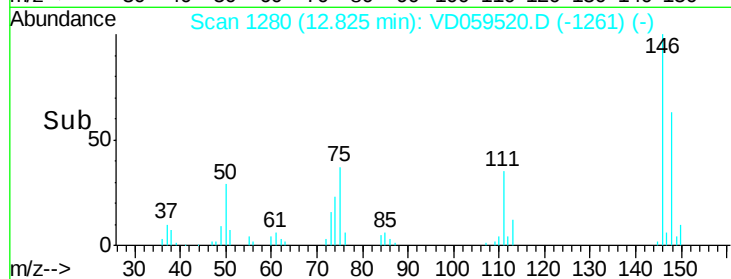
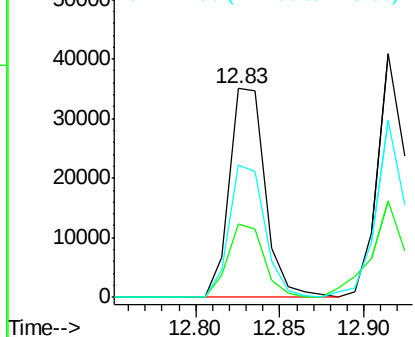
#87
 1,3-Dichlorobenzene
 Concen: 4.203 ug/l
 RT: 12.83 min Scan# 1280
 Delta R.T. -0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion:146 Resp: 51944
 Ion Ratio Lower Upper
 146 100
 111 35.3 17.6 52.9
 148 63.2 32.0 96.2

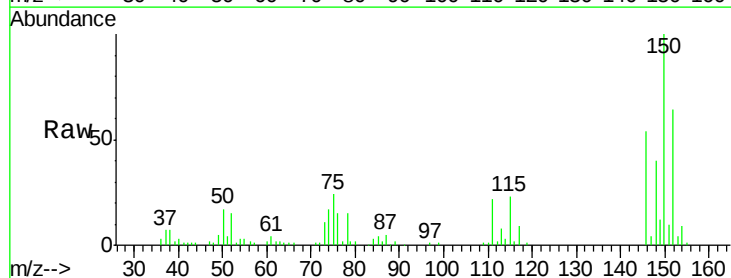


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

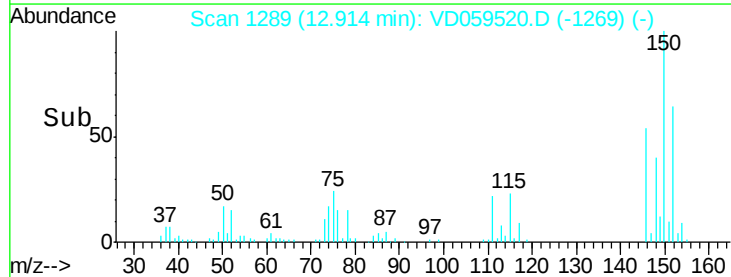
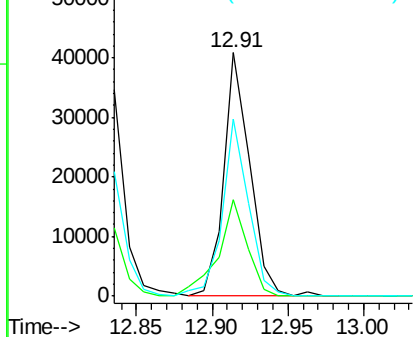


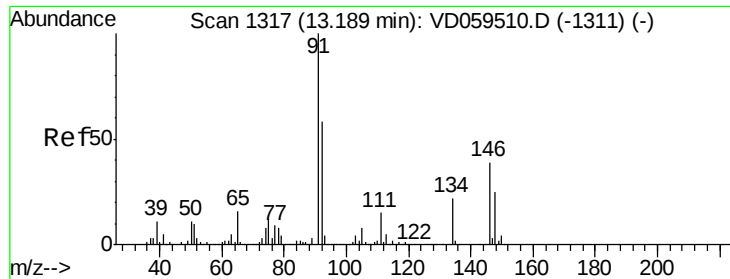
#88
 1,4-Dichlorobenzene
 Concen: 4.039 ug/l
 RT: 12.91 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion:146 Resp: 48993
 Ion Ratio Lower Upper
 146 100
 111 39.7 20.0 59.9
 148 72.9 31.7 95.1



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

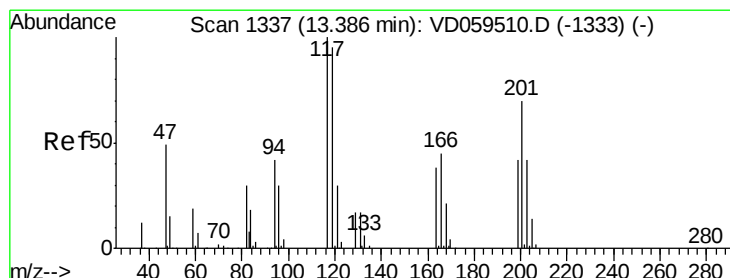
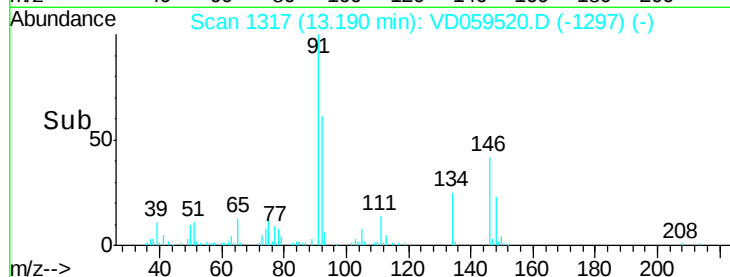
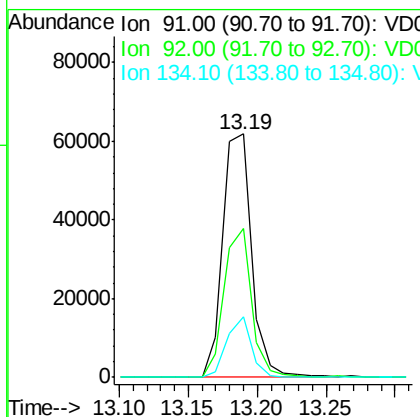
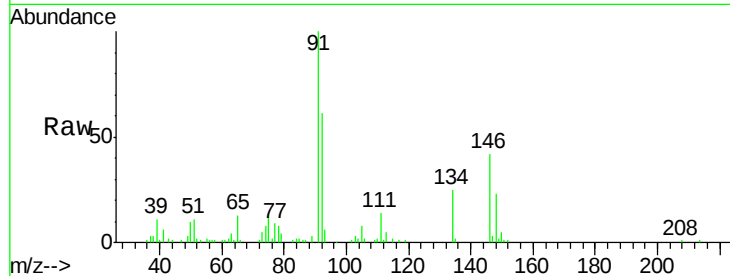




#89
n-Butylbenzene
Concen: 4.316 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

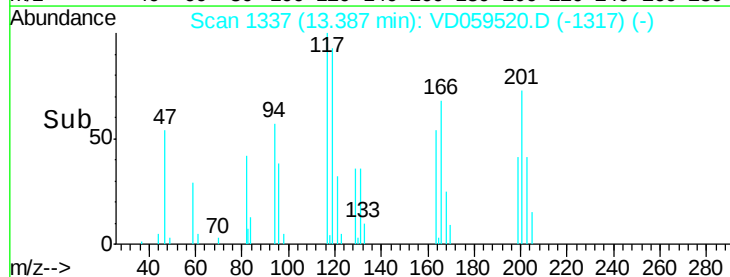
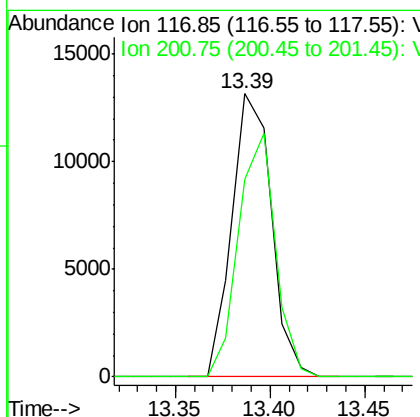
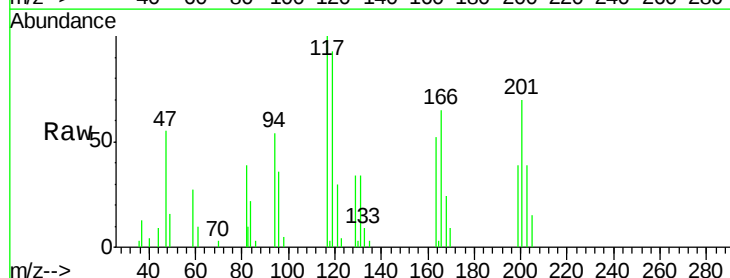
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

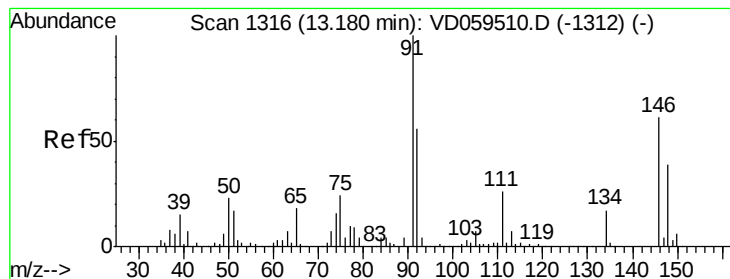
Tot Ion: 91 Resp: 90099
Ion Ratio Lower Upper
91 100
92 61.1 28.9 86.7
134 24.7 11.3 33.8



#90
Hexachloroethane
Concen: 3.574 ug/l
RT: 13.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 117 Resp: 18956
Ion Ratio Lower Upper
117 100
201 69.8 35.2 105.6





#91

1,2-Dichlorobenzene

Concen: 4.433 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

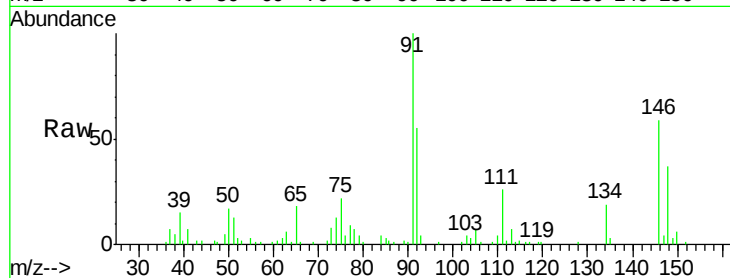
Tot Ion:146 Resp: 46085

Ion Ratio Lower Upper

146 100

111 43.3 21.3 63.9

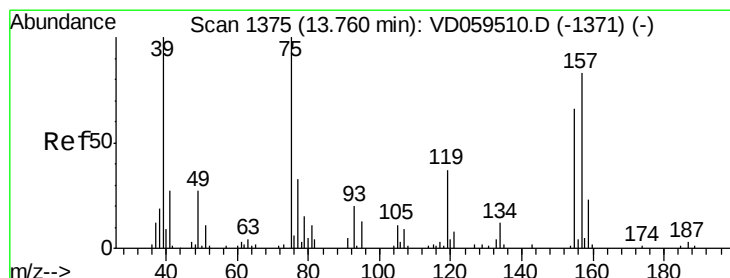
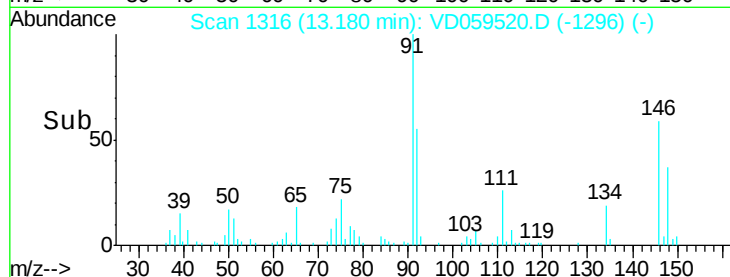
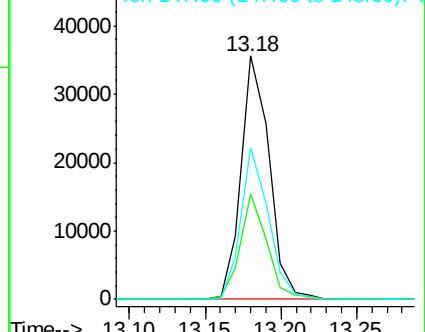
148 62.2 32.4 97.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.049 ug/l

RT: 13.76 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

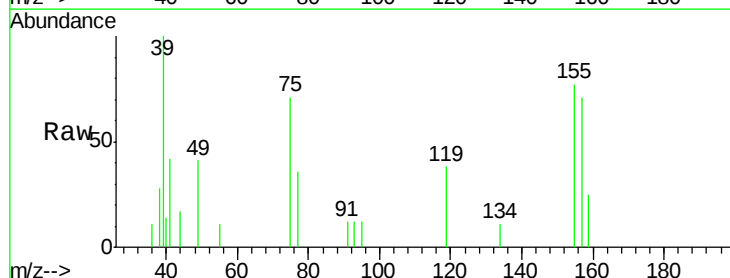
Tgt Ion: 75 Resp: 3131

Ion Ratio Lower Upper

75 100

155 109.1 32.8 98.4#

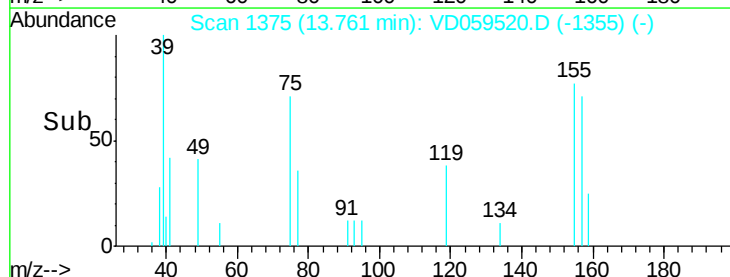
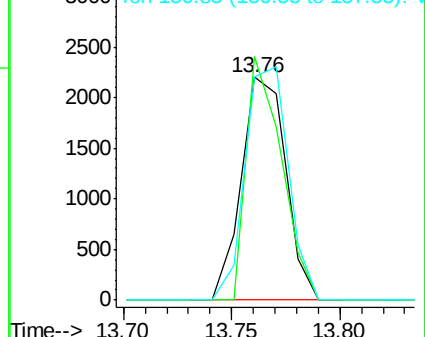
157 100.0 41.5 124.5

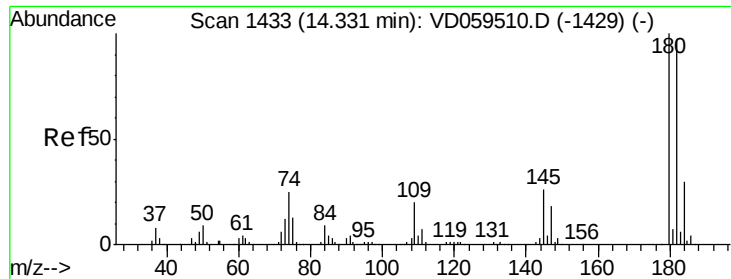


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

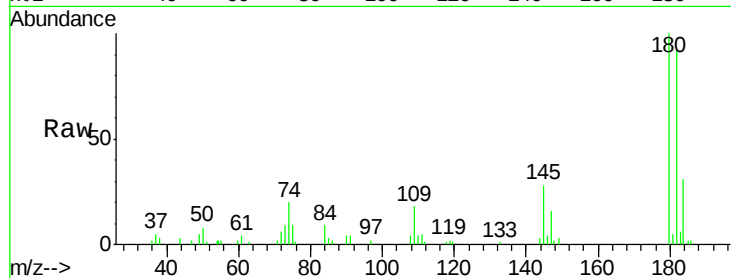




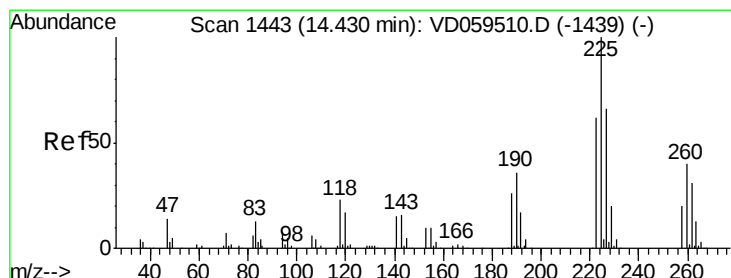
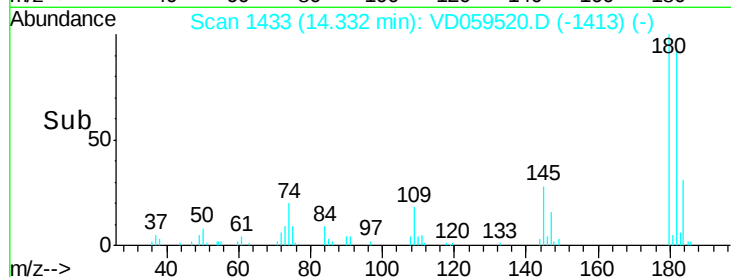
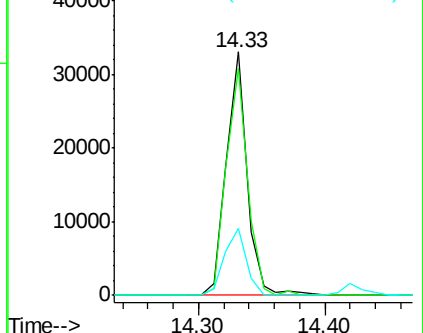
#93
 1,2,4-Trichlorobenzene
 Concen: 4.084 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion:180 Resp: 37627
 Ion Ratio Lower Upper
 180 100
 182 93.5 48.7 146.1
 145 27.5 13.2 39.6

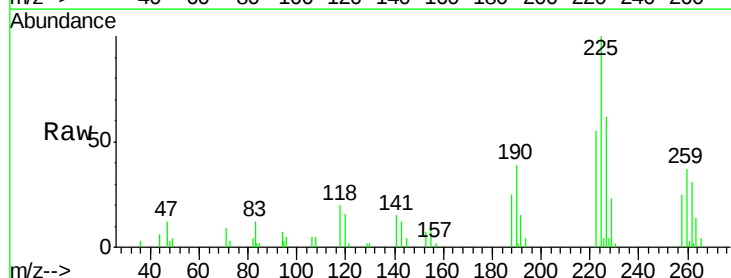


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

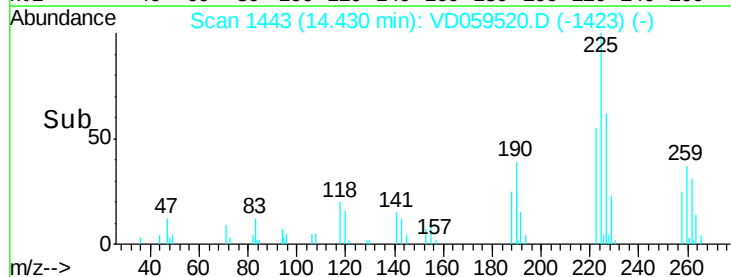
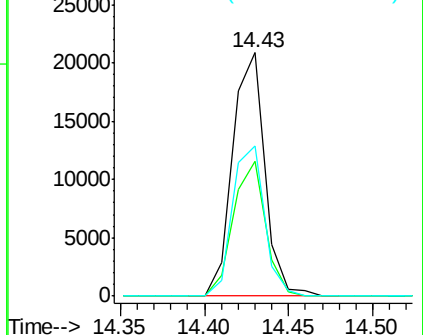


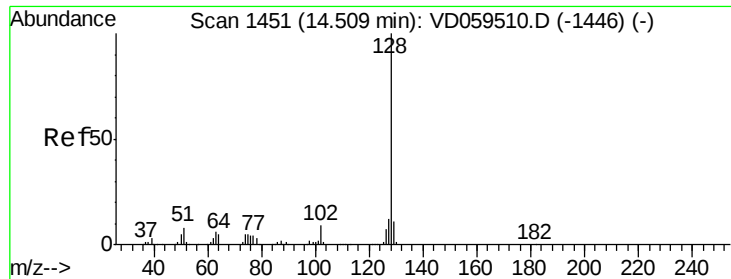
#94
 Hexachlorobutadiene
 Concen: 3.934 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion:225 Resp: 27723
 Ion Ratio Lower Upper
 225 100
 223 52.9 31.0 93.0
 227 59.2 33.1 99.5



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

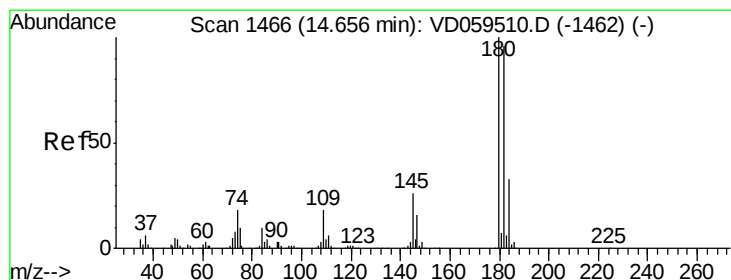
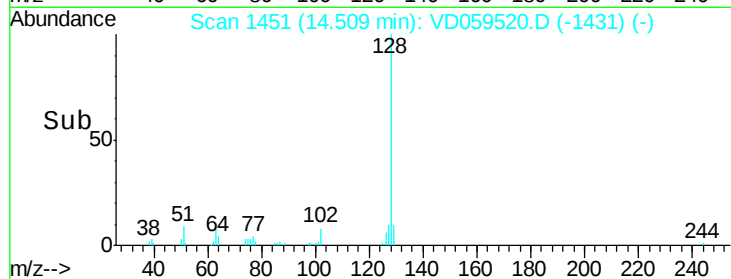
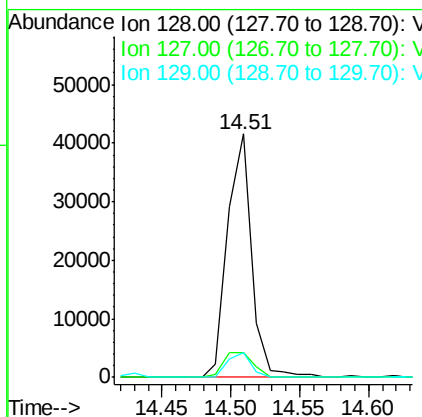
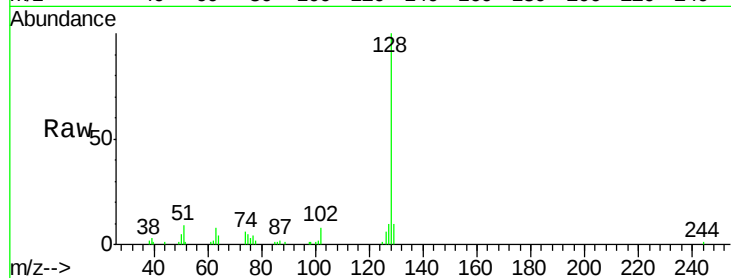




#95
Naphthalene
Concen: 3.691 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:128 Resp: 50584
Ion Ratio Lower Upper
128 100
127 10.2 9.8 14.8
129 10.0 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 3.951 ug/l
RT: 14.66 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion:180 Resp: 32013
Ion Ratio Lower Upper
180 100
182 89.8 48.1 144.4
145 28.7 13.2 39.6

