

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

Manual Integrations
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 7/3/2018 10:28:20 AM

Quant Time: Jul 03 09:25:55 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

33) 1,2-Dichloroethane-d4	5.99	65	437331	52.68	ug/l	0.01
Spiked Amount	50.000		Recovery	=	105.36%	
35) Dibromofluoromethane	5.52	113	407372	56.22	ug/l	0.01
Spiked Amount	50.000		Recovery	=	112.44%	
50) Toluene-d8	8.68	98	936540	55.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.38%	
62) 4-Bromofluorobenzene	11.92	95	396482	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.32	85	28993	3.58	ug/l	90
3) Chloromethane	1.47	50	17019	4.44	ug/l #	87
4) Vinyl Chloride	1.53	62	14674	3.83	ug/l #	86
5) Bromomethane	1.78	94	7767	5.36	ug/l	94
6) Chloroethane	1.86	64	7104	4.13	ug/l	91
7) Trichlorofluoromethane	2.07	101	24636	3.89	ug/l	90
8) Diethyl Ether	2.32	74	5708	4.71	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.54	101	16257	4.22	ug/l #	71
10) Methyl Iodide	2.67	142	12718	3.31	ug/l #	89
11) Tert butyl alcohol	3.24	59	5969	21.72	ug/l #	72
12) 1,1-Dichloroethene	2.52	96	11405	3.88	ug/l	86
13) Acrolein	2.45	56	4641	29.63	ug/l	84
14) Allyl chloride	2.89	41	24244	3.73	ug/l #	92
15) Acrylonitrile	3.33	53	14274	18.79	ug/l #	93
16) Acetone	2.59	43	26698	23.93	ug/l #	80
17) Carbon Disulfide	2.73	76	27444	5.63	ug/l	97
18) Methyl Acetate	2.90	43	12841	3.16	ug/l #	78
19) Methyl tert-butyl Ether	3.37	73	24917	3.28	ug/l #	85
20) Methylene Chloride	3.04	84	35708	8.26	ug/l	92
21) trans-1,2-Dichloroethene	3.36	96	12056	3.71	ug/l	83
22) Diisopropyl ether	4.03	45	92557	3.91	ug/l	99
23) Vinyl Acetate	3.99	43	223329	17.09	ug/l	97
24) 1,1-Dichloroethane	3.94	63	51250	3.82	ug/l	99
25) 2-Butanone	4.80	43	47514	20.48	ug/l	96
26) 2,2-Dichloropropane	4.76	77	39485	3.60	ug/l	98
27) cis-1,2-Dichloroethene	4.77	96	24938	3.54	ug/l	90
28) Bromochloromethane	5.12	49	24700	4.80	ug/l	89
29) Tetrahydrofuran	5.16	42	22359	18.92	ug/l	97
30) Chloroform	5.29	83	55435	3.92	ug/l	93
31) Cyclohexane	5.56	56	53037	3.17	ug/l	97
32) 1,1,1-Trichloroethane	5.48	97	39691	3.54	ug/l	95
36) 1,1-Dichloropropene	5.72	75	36908	3.99	ug/l	92
37) Ethyl Acetate	4.90	43	20806	4.04	ug/l #	95
38) Carbon Tetrachloride	5.70	117	34433	3.79	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.26	83	35677	4.23	ug/l	88
40) Benzene	5.98	78	89829	4.22	ug/l	98
41) Methacrylonitrile	5.10	41	10437	4.00	ug/l #	92
42) 1,2-Dichloroethane	6.10	62	35966	3.78	ug/l	89
43) Isopropyl Acetate	7.60	43	24084	3.54	ug/l #	98
44) Trichloroethene	6.96	130	22994	3.56	ug/l	69
45) 1,2-Dichloropropane	7.32	63	24830	4.17	ug/l #	88
46) Dibromomethane	7.44	93	14736	3.66	ug/l	91
47) Bromodichloromethane	7.72	83	35483	3.78	ug/l #	94
48) Methyl methacrylate	7.48	41	16308	3.84	ug/l	89
49) 1,4-Dioxane	7.48	88	2369	59.87	ug/l #	84
51) 4-Methyl-2-Pentanone	8.57	43	91796	20.64	ug/l	94
52) Toluene	8.78	92	49833	4.24	ug/l	97
53) t-1,3-Dichloropropene	9.17	75	29715	3.64	ug/l	97
54) cis-1,3-Dichloropropene	8.34	75	34627	3.66	ug/l	94
55) 1,1,2-Trichloroethane	9.43	97	19630	4.55	ug/l #	91
56) Ethyl methacrylate	9.29	69	20945	3.88	ug/l	91
57) 1,3-Dichloropropane	9.65	76	28998	3.73	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.17	63	57035	21.84	ug/l	100
59) 2-Hexanone	9.76	43	62058	18.97	ug/l	95
60) Dibromochloromethane	9.94	129	21838	3.63	ug/l	95
61) 1,2-Dibromoethane	10.08	107	19085	4.00	ug/l #	80
64) Tetrachloroethene	9.49	164	26830	4.10	ug/l	93
65) Chlorobenzene	10.71	112	61990	4.22	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.84	131	22229	3.72	ug/l	95
67) Ethyl Benzene	10.84	91	108751	4.18	ug/l	92
68) m/p-Xylenes	10.99	106	64413	7.50	ug/l	88
69) o-Xylene	11.39	106	34575	4.18	ug/l	99
70) Styrene	11.42	104	53591	3.86	ug/l	97
71) Bromoform	11.59	173	13397	2.97	ug/l	94
73) Isopropylbenzene	11.76	105	98789	4.30	ug/l	98
74) N-amyl acetate	11.63	43	33253	3.43	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.07	83	22804	3.83	ug/l	98
76) 1,2,3-Trichloropropane	12.10	75	23809	3.83	ug/l	98
77) Bromobenzene	12.03	156	27893	3.86	ug/l	91
78) n-propylbenzene	12.14	91	128393	4.17	ug/l	95
79) 2-Chlorotoluene	12.21	91	71183	3.93	ug/l	100
80) 1,3,5-Trimethylbenzene	12.30	105	78066	4.18	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.83	75	3626m	4.14	ug/l	
82) 4-Chlorotoluene	12.31	91	87243	4.25	ug/l	91
83) tert-Butylbenzene	12.56	119	79635	3.75	ug/l	94
84) 1,2,4-Trimethylbenzene	12.62	105	84915	4.23	ug/l	96
85) sec-Butylbenzene	12.75	105	102392	4.20	ug/l	98
86) p-Isopropyltoluene	12.87	119	85631	4.18	ug/l	95
87) 1,3-Dichlorobenzene	12.83	146	51944	4.20	ug/l	99
88) 1,4-Dichlorobenzene	12.91	146	48993	4.04	ug/l	92
89) n-Butylbenzene	13.19	91	90099	4.32	ug/l	95
90) Hexachloroethane	13.39	117	18956	3.57	ug/l	99
91) 1,2-Dichlorobenzene	13.18	146	46085	4.43	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.76	75	3131	3.05	ug/l #	65

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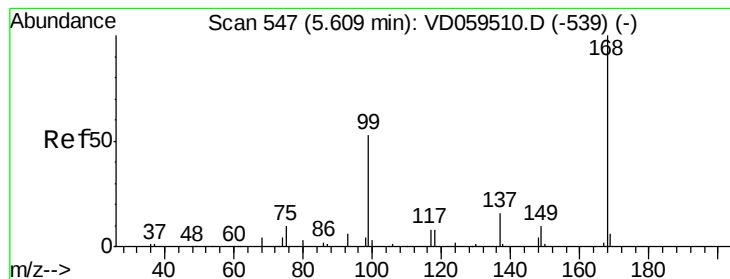
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	37627	4.08	ug/l	96
94) Hexachlorobutadiene	14.43	225	27723	3.93	ug/l	90
95) Naphthalene	14.51	128	50584	3.69	ug/l	96
96) 1,2,3-Trichlorobenzene	14.66	180	32013	3.95	ug/l	94

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



#1

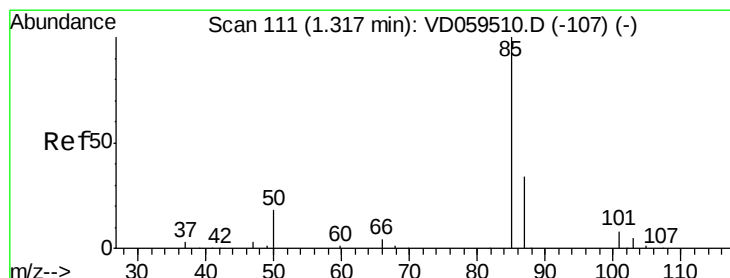
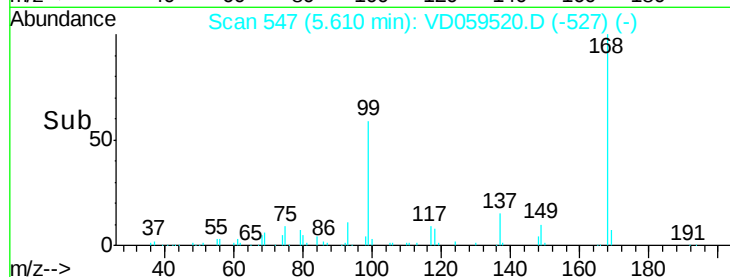
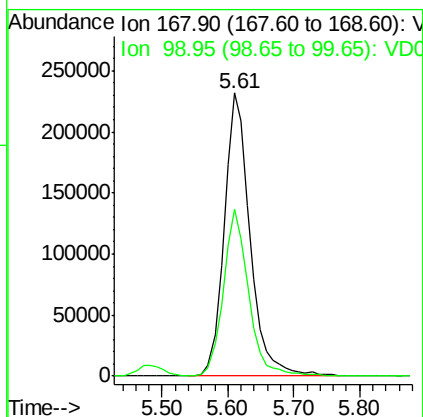
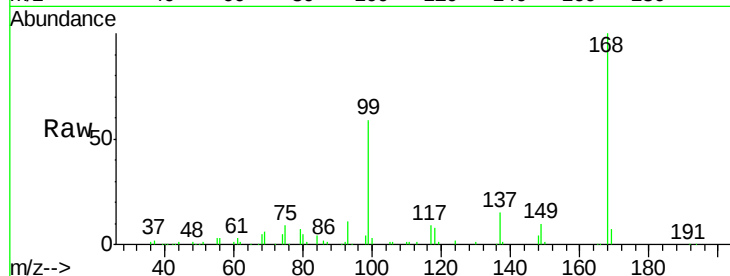
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.61 min Scan# 547
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

Tot Ion	Ratio	Lower	Upper
168	100		
99	58.8	45.1	67.7

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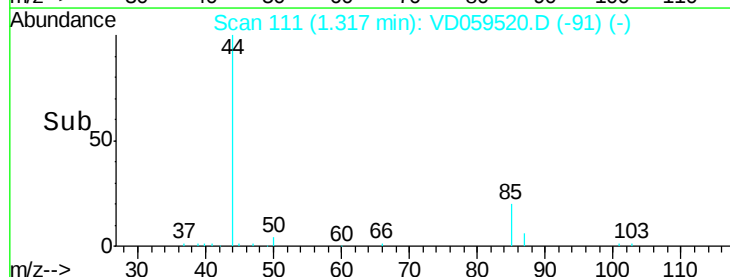
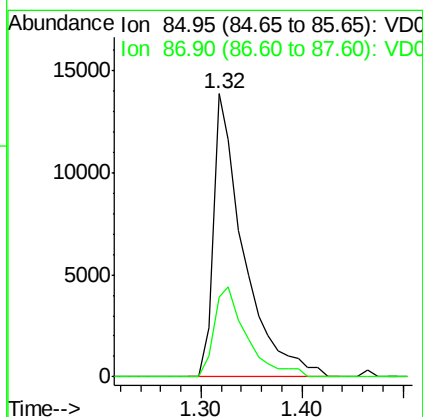
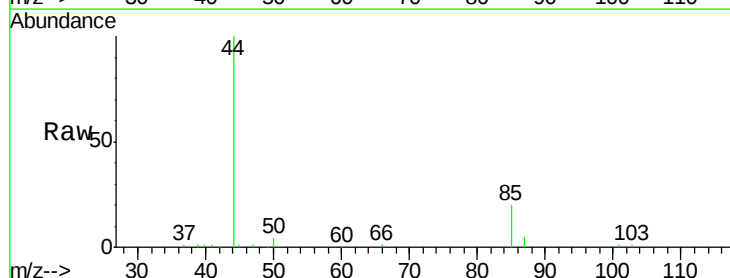
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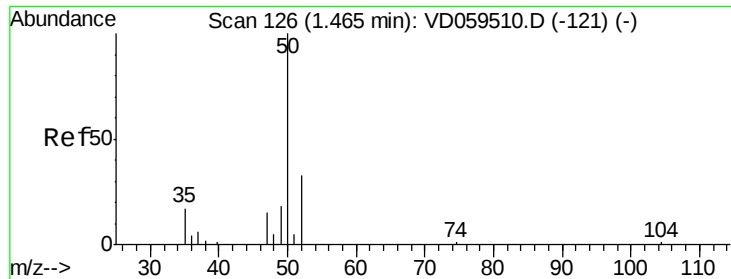


#2

Dichlorodifluoromethane
 Concen: 3.58 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	Ratio	Lower	Upper
85	100		
87	28.0	16.8	50.4





#3

Chloromethane

Concen: 4.44 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 :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 50 Resp: 17019

Ion Ratio Lower Upper

50 100

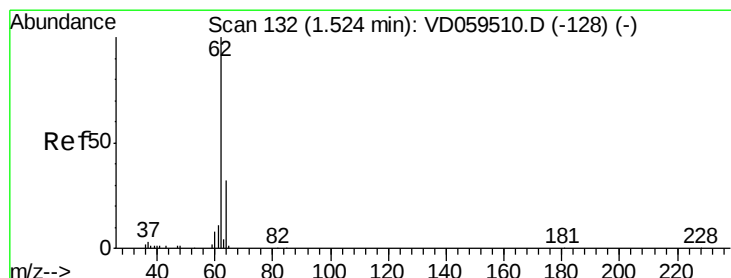
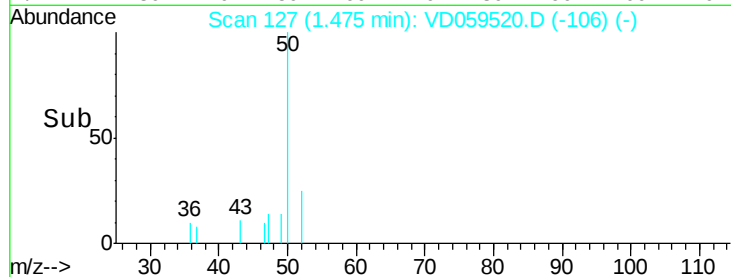
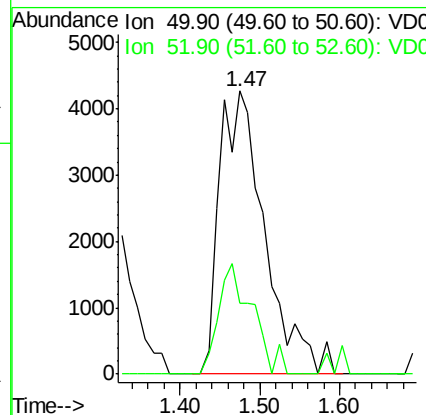
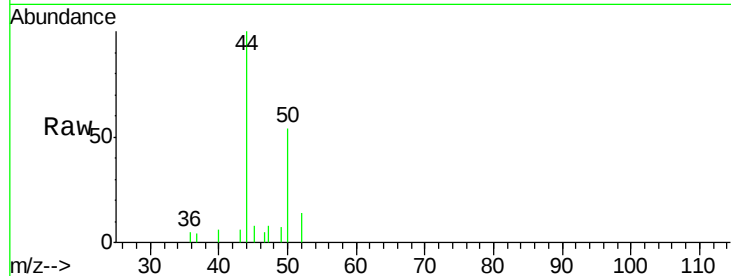
52 25.1 25.8 38.6#

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#4

Vinyl Chloride

Concen: 3.83 ug/l

RT: 1.53 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059520.D

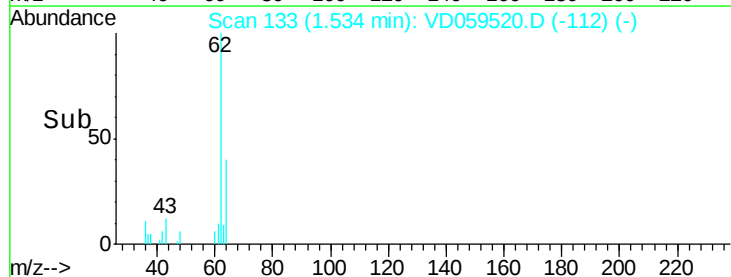
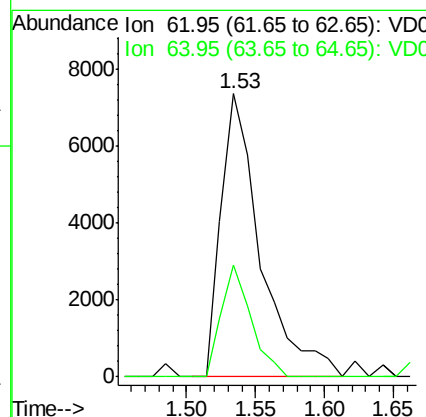
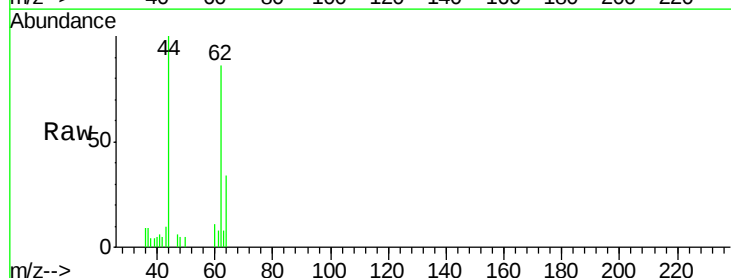
Acq: 3 Jul 2018 00:15

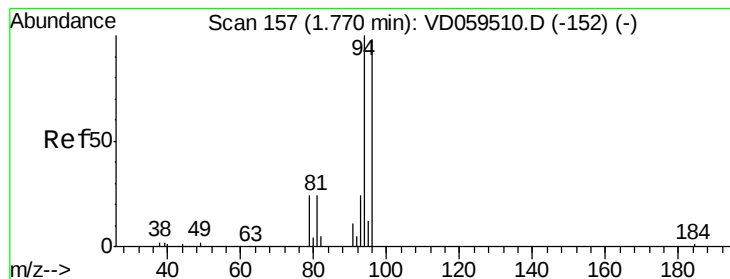
Tgt Ion: 62 Resp: 14674

Ion Ratio Lower Upper

62 100

64 39.6 25.4 38.2#





#5

Bromomethane

Concen: 5.36 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 :

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ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 94 Resp: 7767

Ion Ratio Lower Upper

94 100

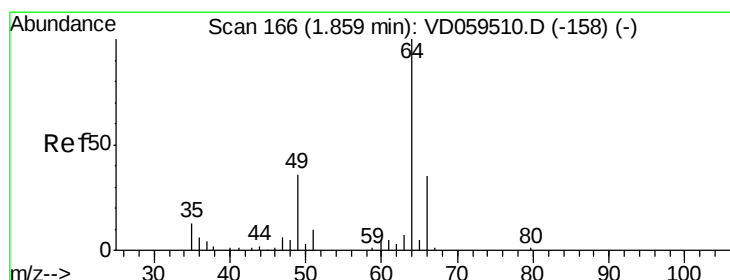
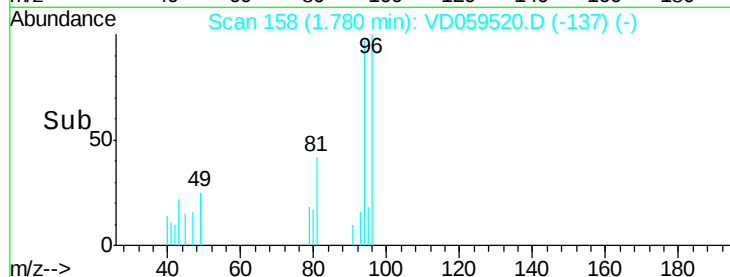
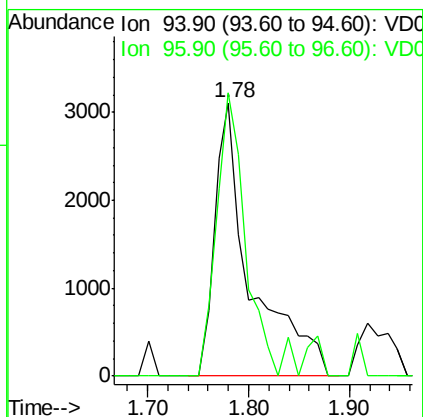
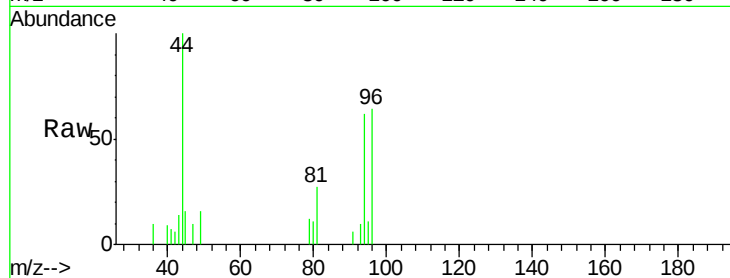
96 103.5 78.2 117.4

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#6

Chloroethane

Concen: 4.13 ug/l

RT: 1.86 min Scan# 166

Delta R.T. 0.00 min

Lab File: VD059520.D

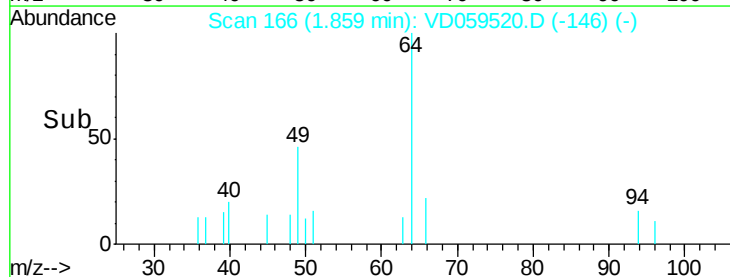
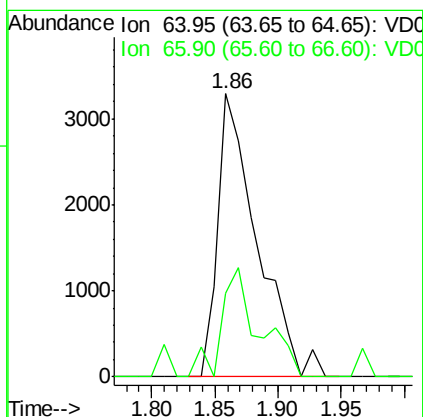
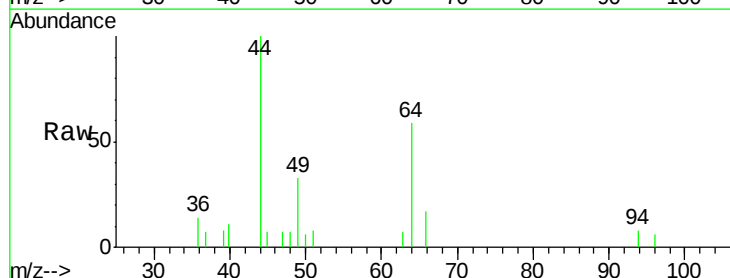
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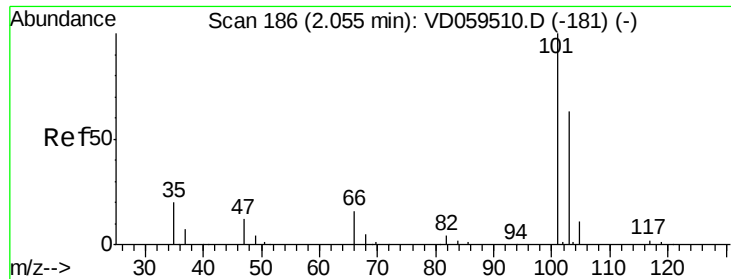
Tgt Ion: 64 Resp: 7104

Ion Ratio Lower Upper

64 100

66 29.5 27.6 41.4





#7

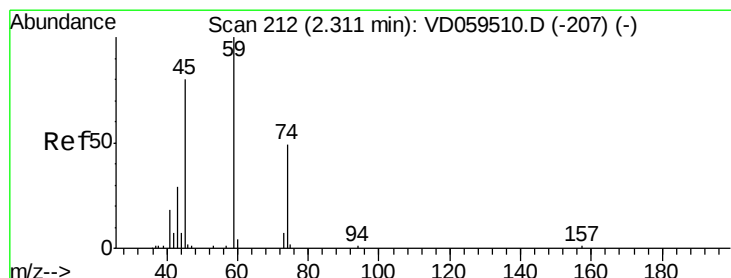
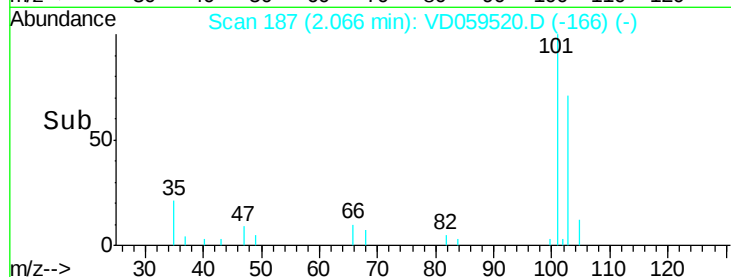
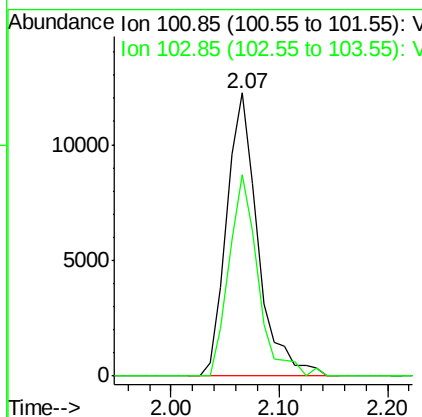
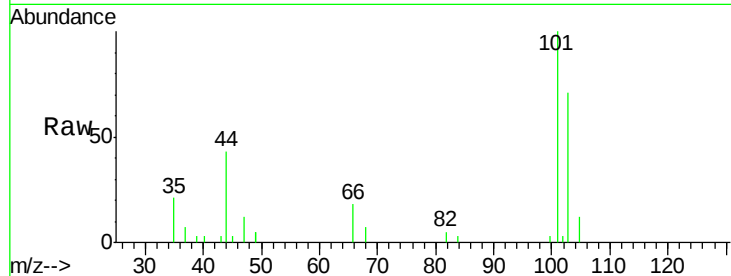
Trichlorofluoromethane
Concen: 3.89 ug/l
RT: 2.07 min Scan# 187
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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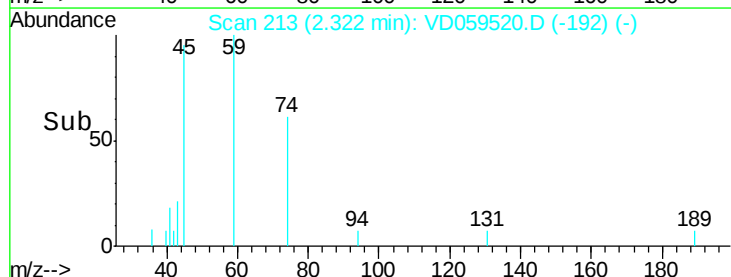
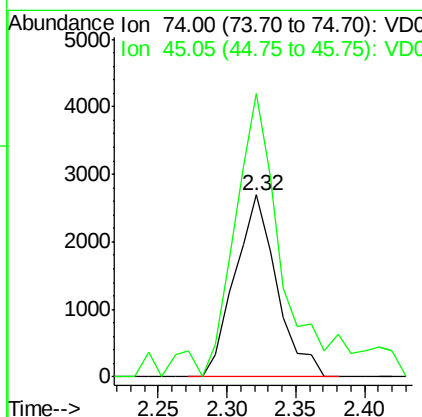
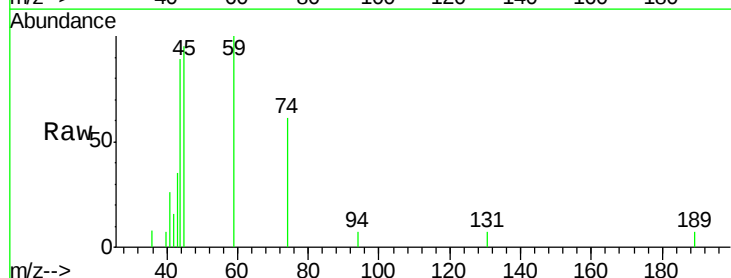
apatel
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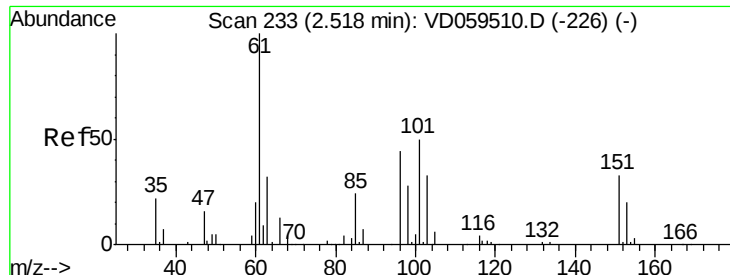


#8

Diethyl Ether
Concen: 4.71 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: 4.22 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

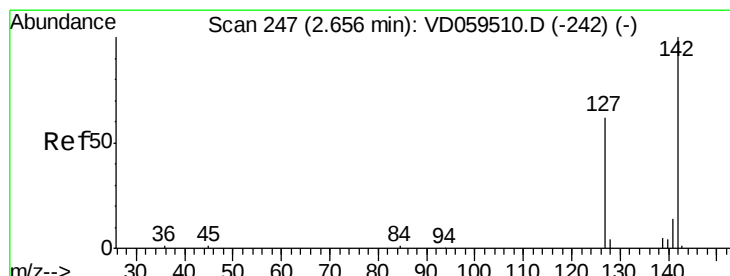
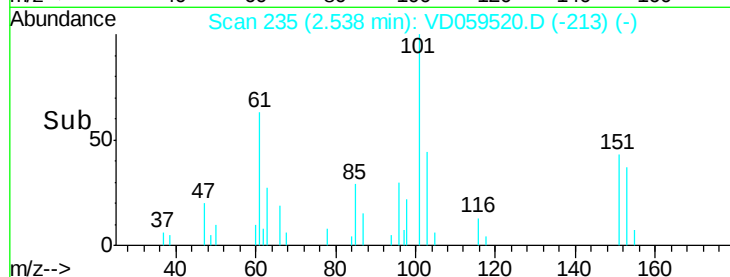
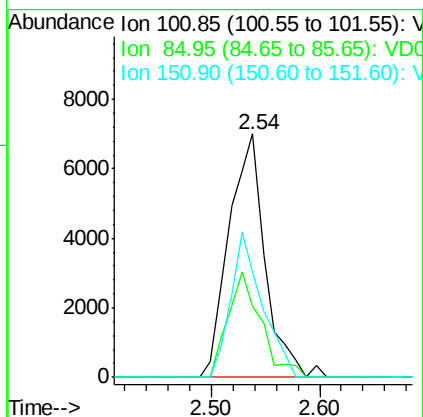
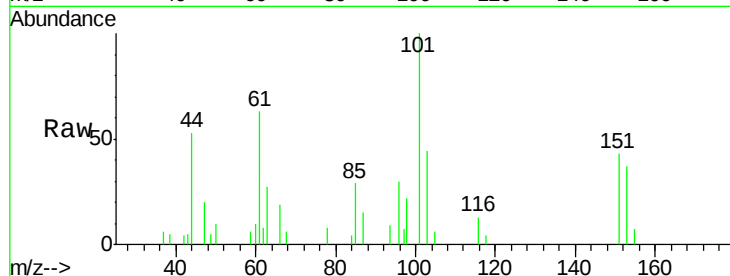
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151 43.2 52.6 79.0#

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#10

Methyl Iodide

Concen: 3.31 ug/l

RT: 2.67 min Scan# 248

Delta R.T. 0.01 min

Lab File: VD059520.D

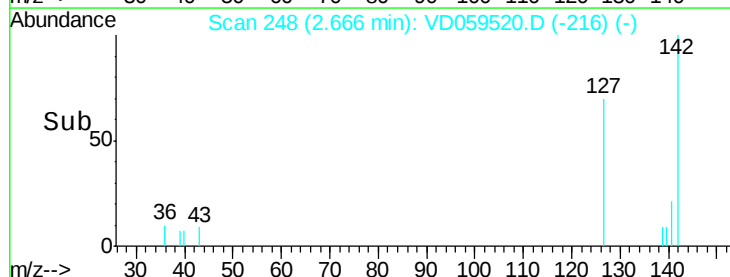
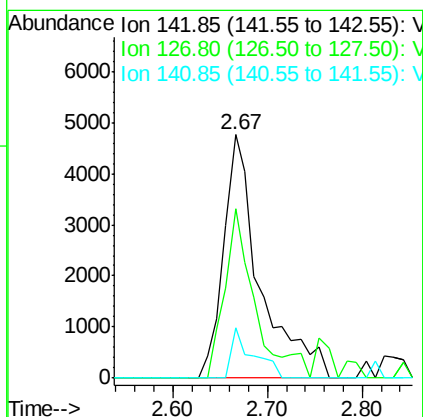
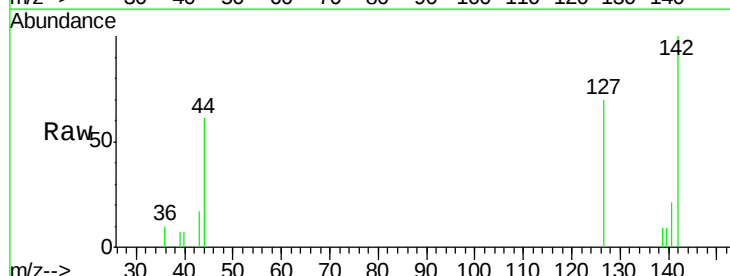
Acq: 3 Jul 2018 00:15

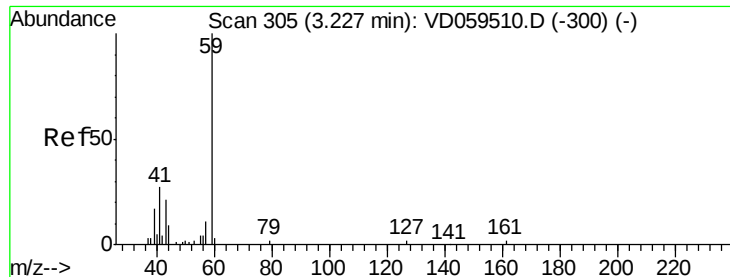
Tgt Ion:142 Resp: 12718
Ion Ratio Lower Upper

142 100

127 69.5 49.8 74.8

141 20.8 11.1 16.7#





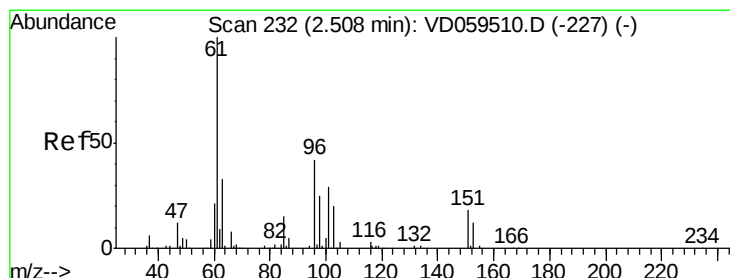
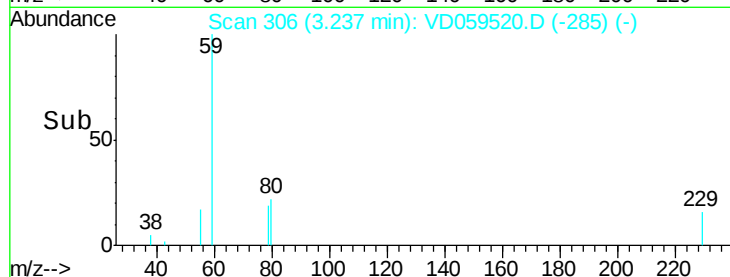
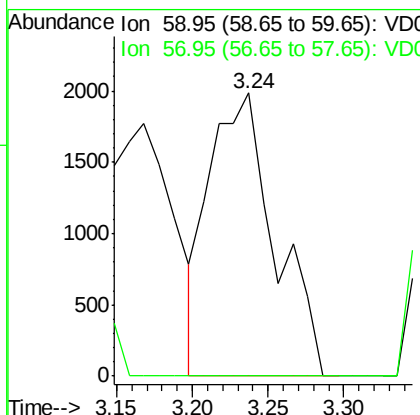
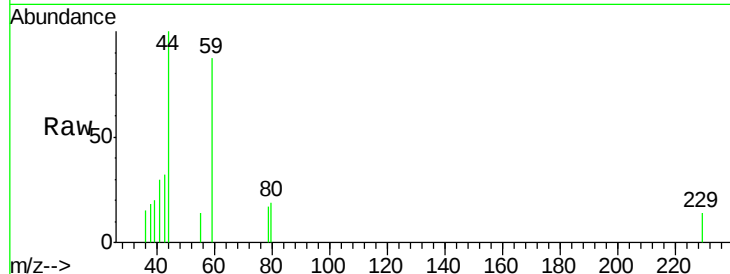
#11
Tert butyl alcohol
Concen: 21.72 ug/l
RT: 3.24 min Scan# 306
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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#

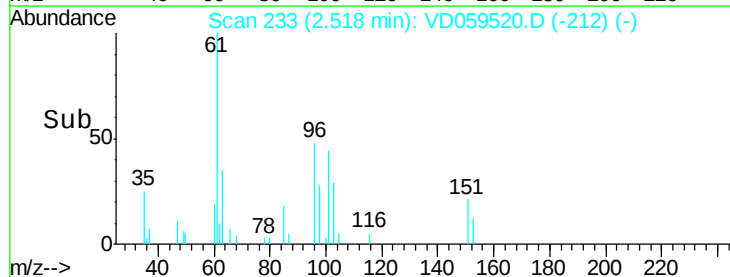
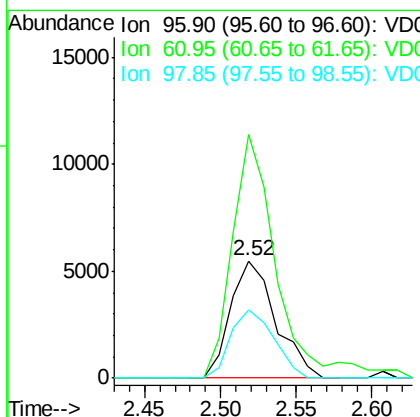
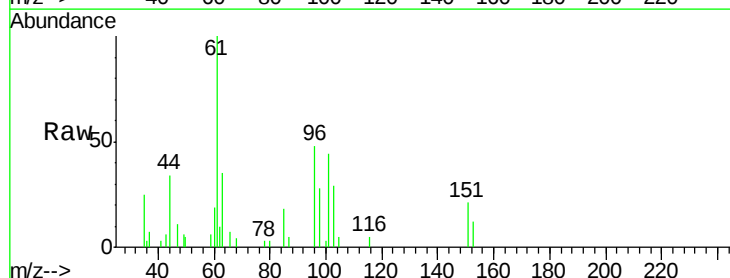
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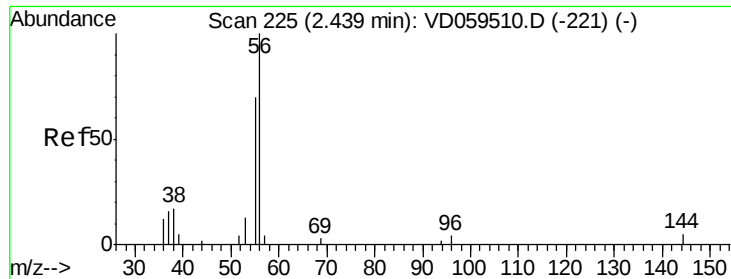
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#12
1,1-Dichloroethene
Concen: 3.88 ug/l
RT: 2.52 min Scan# 233
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





#13

Acrolein

Concen: 29.63 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

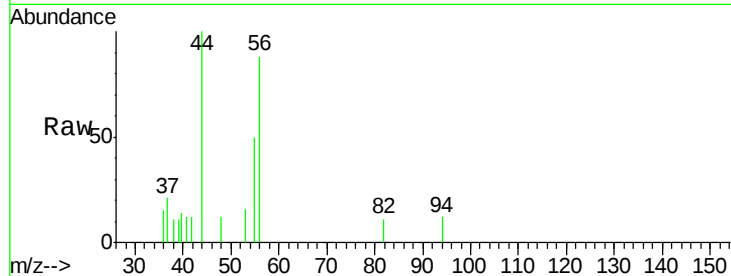
56 100

55 56.7 56.0 84.0

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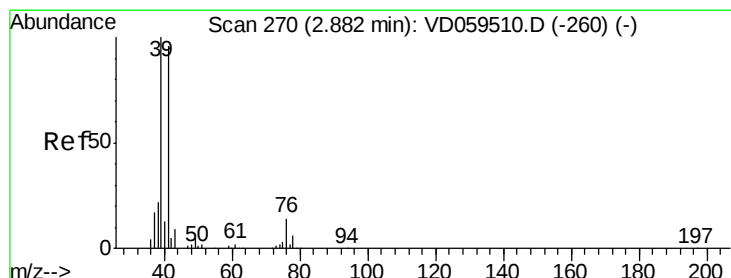
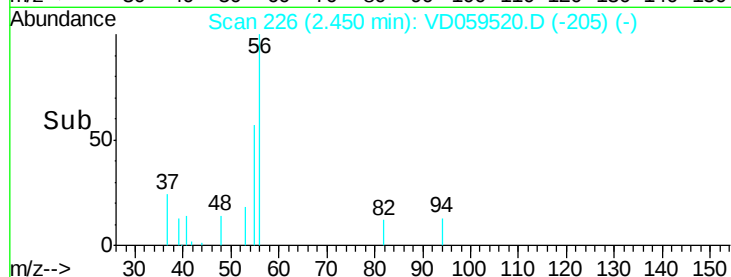
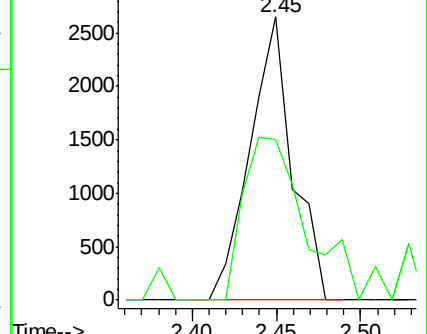
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.73 ug/l

RT: 2.89 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

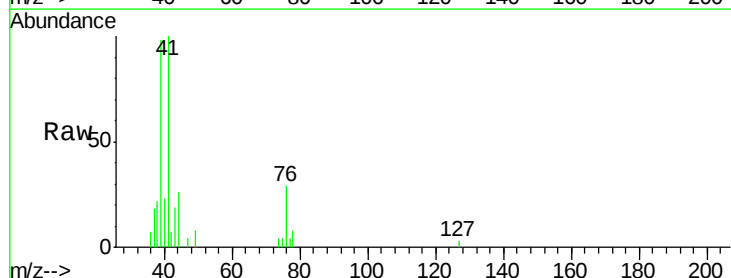
Tgt Ion: 41 Resp: 24244

Ion Ratio Lower Upper

41 100

39 97.6 83.8 125.8

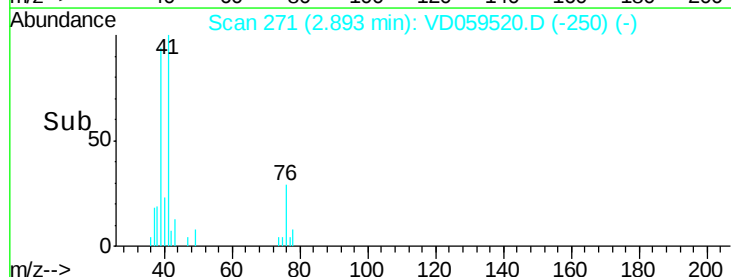
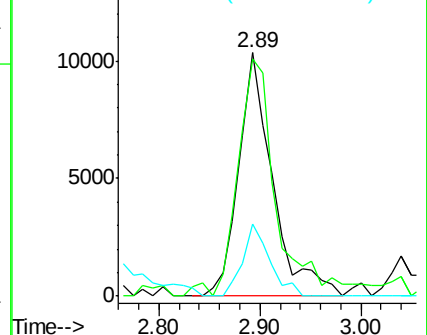
76 29.4 18.4 27.6#

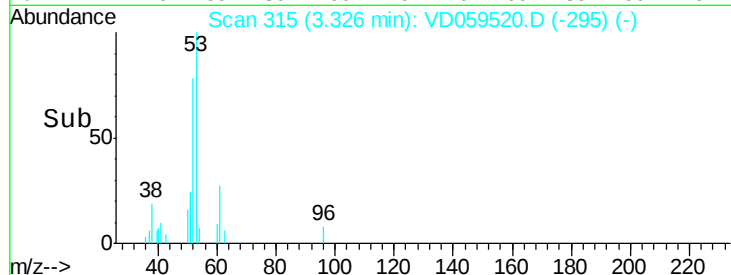
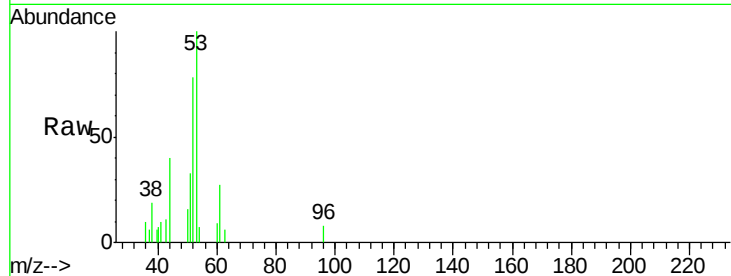
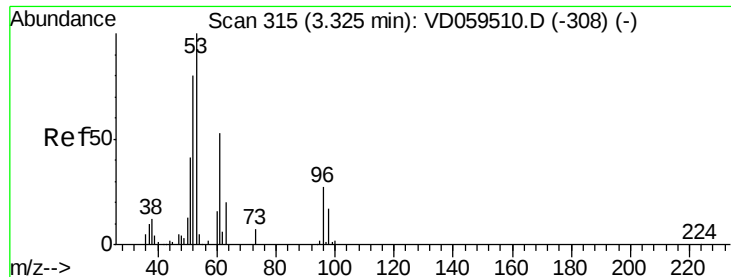


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 18.79 ug/l

RT: 3.33 min Scan# 315

Delta R.T. 0.00 min

Lab File: VD059520.D

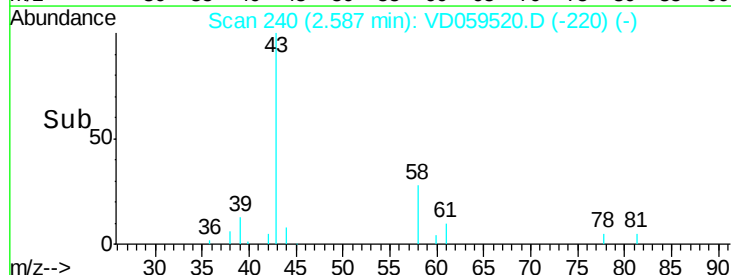
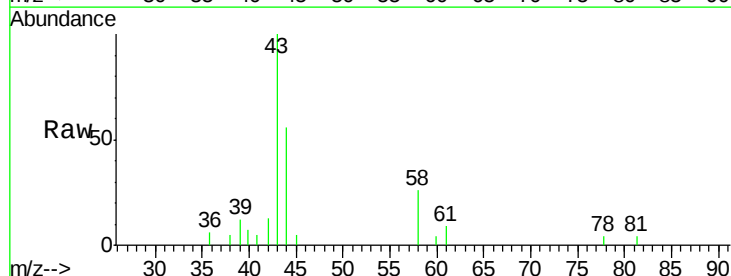
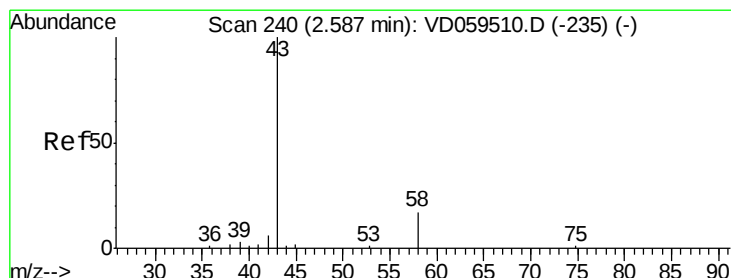
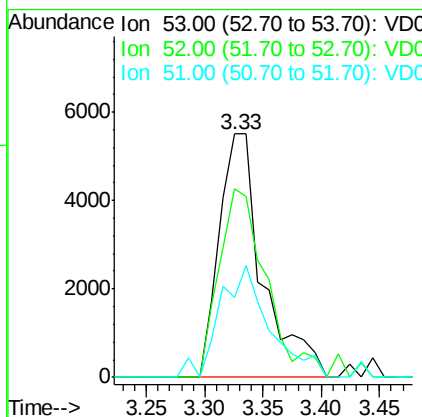
Acq: 3 Jul 2018 00:15

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#

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

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#16

Acetone

Concen: 23.93 ug/l

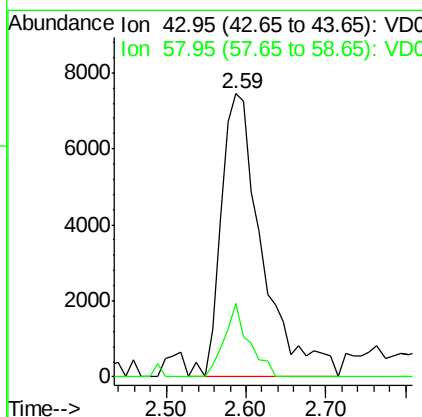
RT: 2.59 min Scan# 240

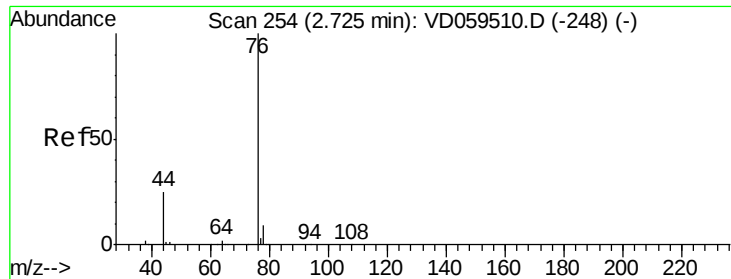
Delta R.T. 0.00 min

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#





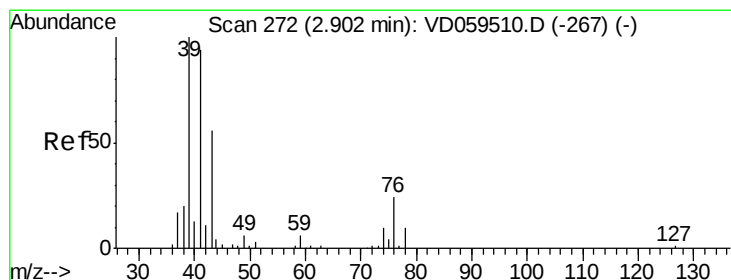
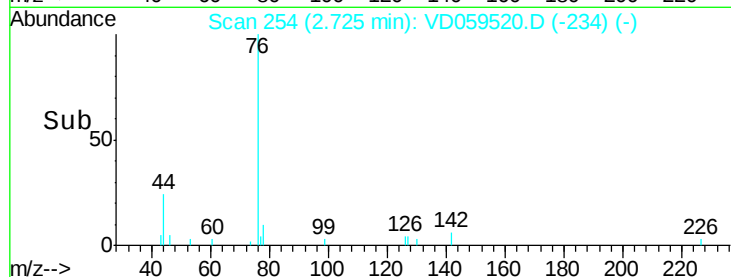
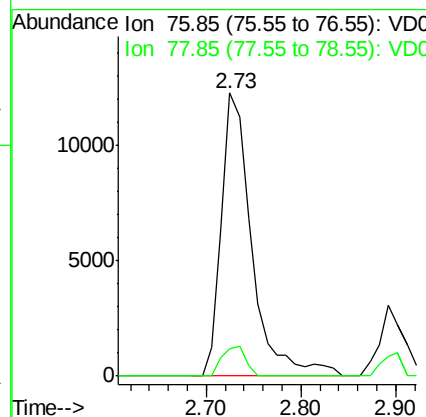
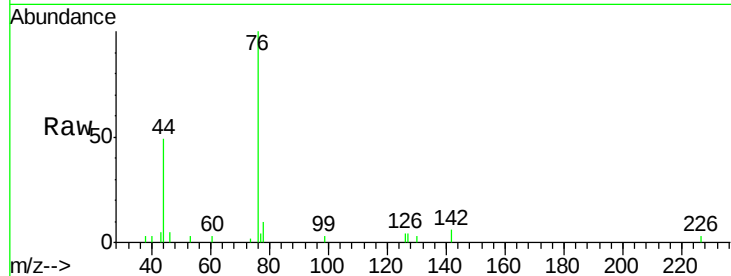
#17
Carbon Disulfide
Concen: 5.63 ug/l
RT: 2.73 min Scan# 254
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

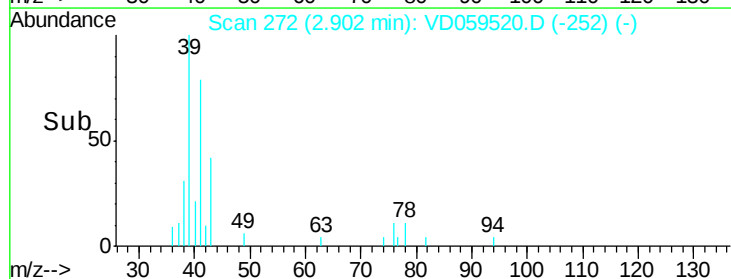
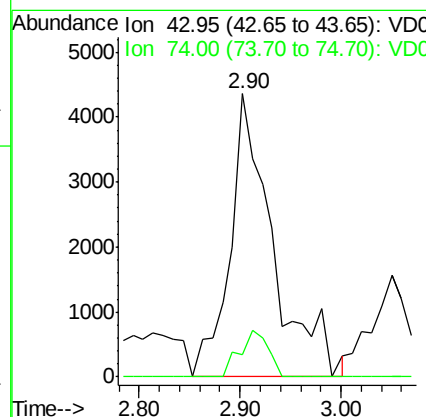
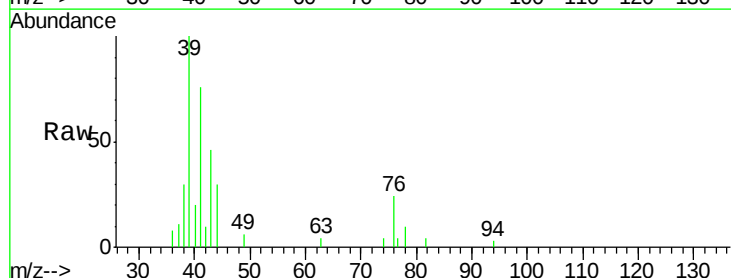
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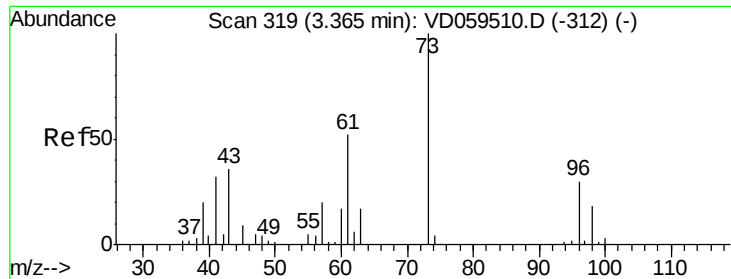
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#18
Methyl Acetate
Concen: 3.16 ug/l
RT: 2.90 min Scan# 272
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion: 43 Resp: 12841
Ion Ratio Lower Upper
43 100
74 7.8 13.8 20.8#





#19

Methyl tert-butyl Ether

Concen: 3.28 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

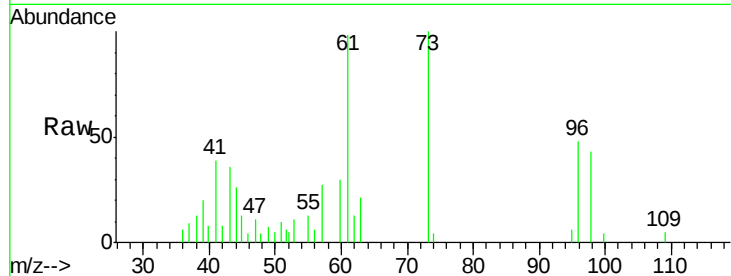
57 27.4 16.5 24.7#

Manual Integrations

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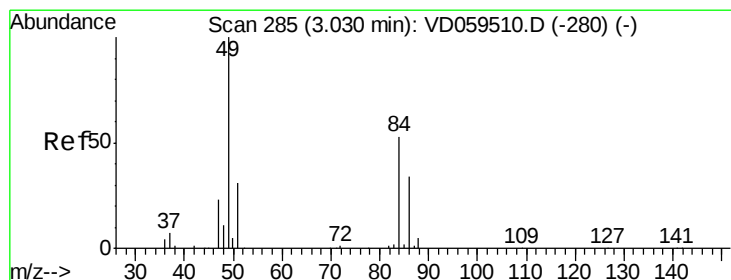
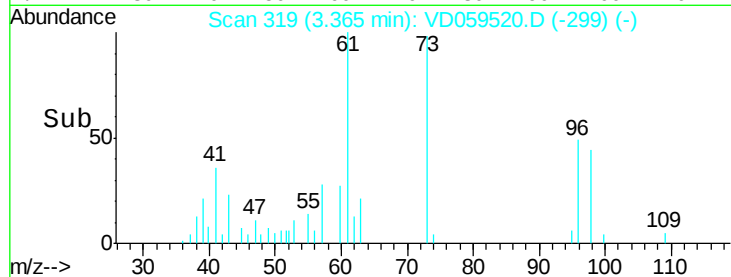
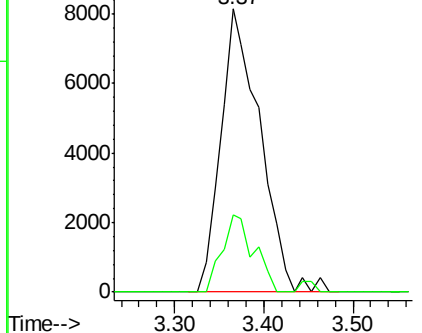
apatel

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Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 8.26 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

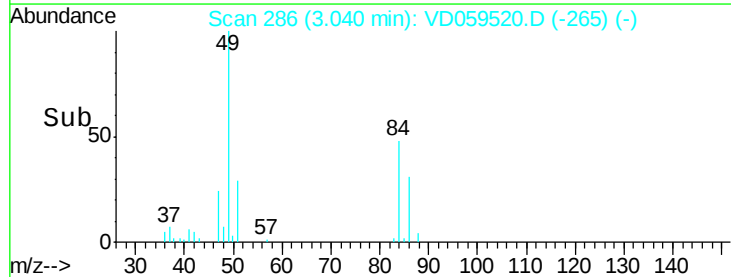
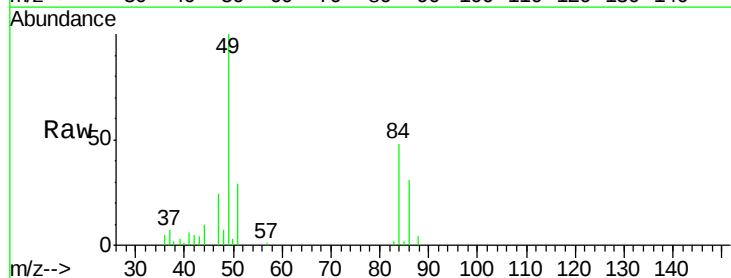
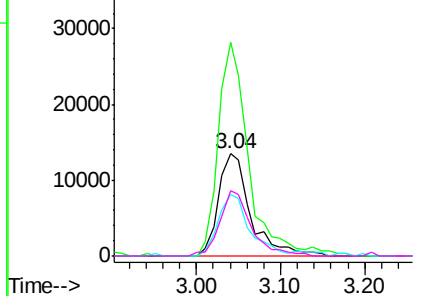
86 64.3 52.5 78.7

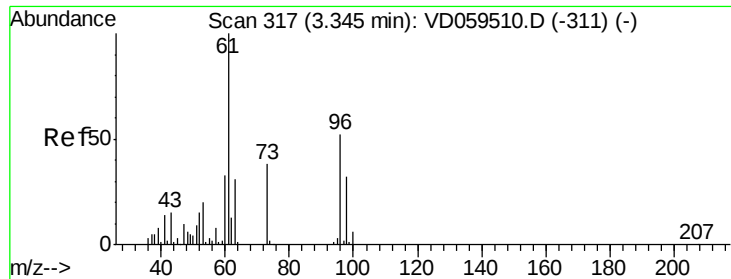
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 3.71 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

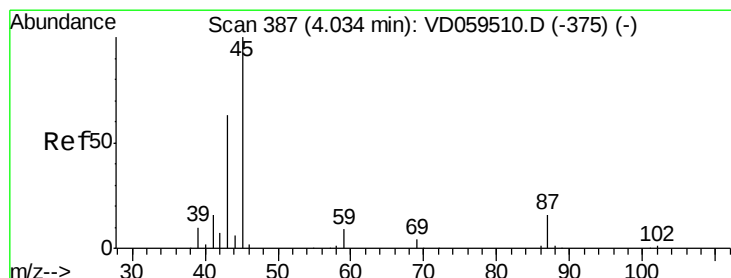
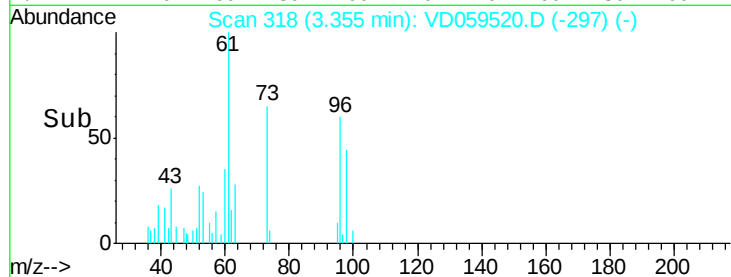
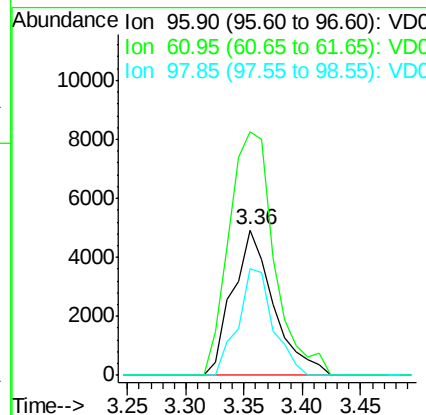
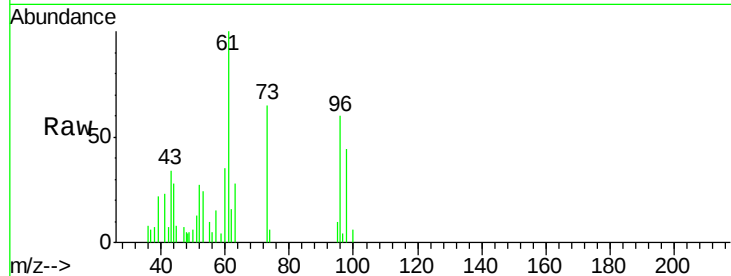
ClientSampleId :

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

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#22

Diisopropyl ether

Concen: 3.91 ug/l

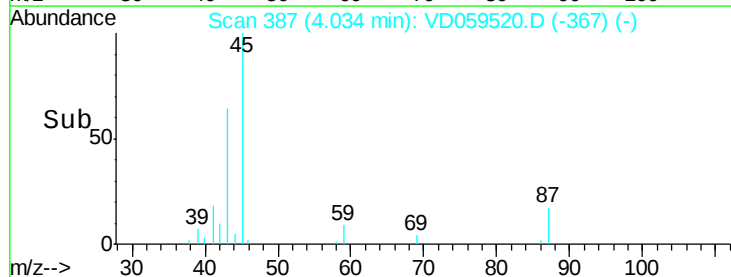
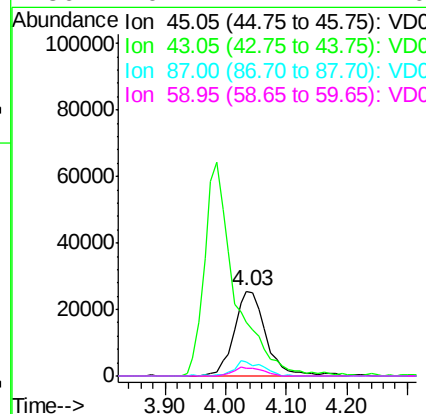
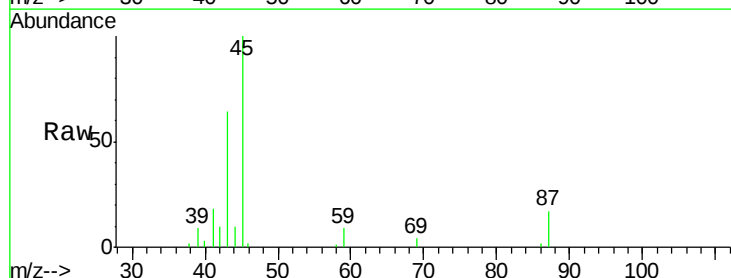
RT: 4.03 min Scan# 387

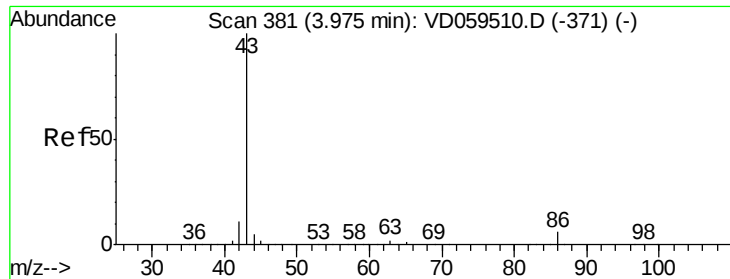
Delta R.T. 0.00 min

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





#23

Vinyl Acetate

Concen: 17.09 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

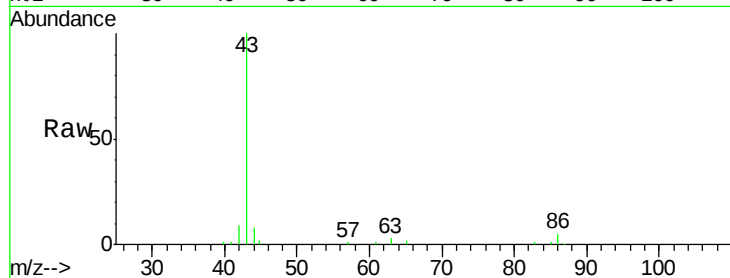
86 5.2 5.0 7.4

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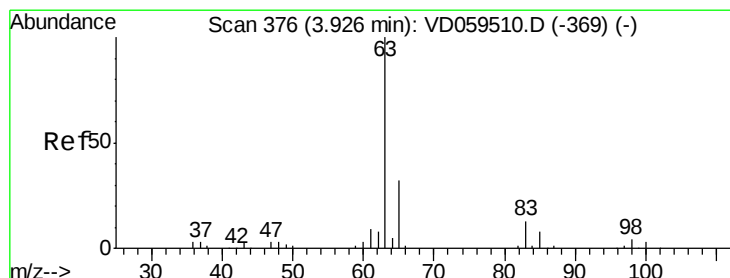
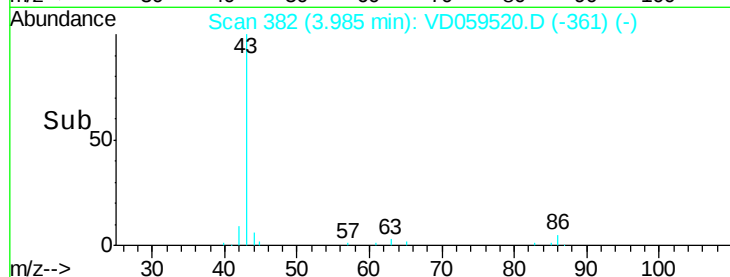
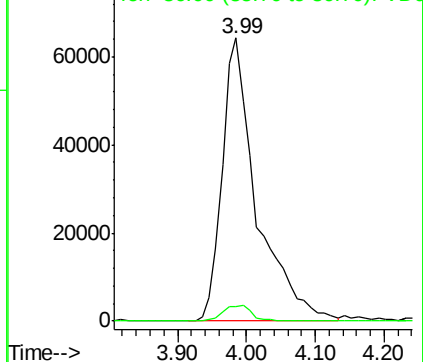
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 3.82 ug/l

RT: 3.94 min Scan# 377

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

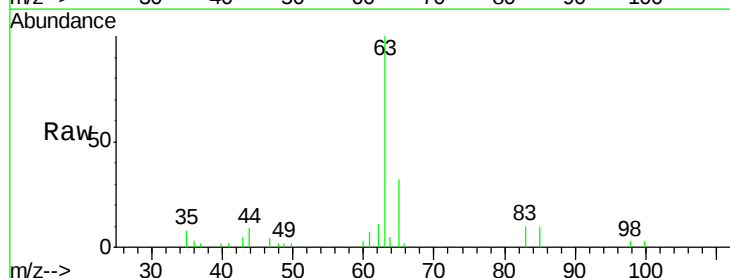
Tgt Ion: 63 Resp: 51250

Ion Ratio Lower Upper

63 100

98 3.2 2.0 5.8

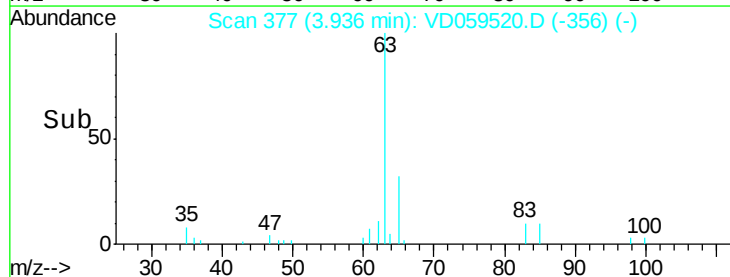
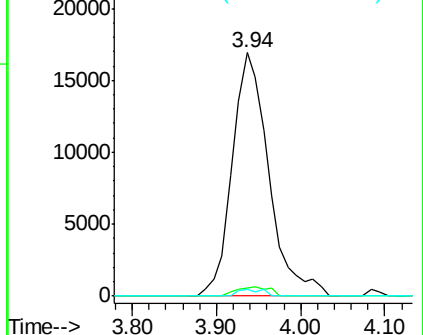
100 3.0 1.5 4.4

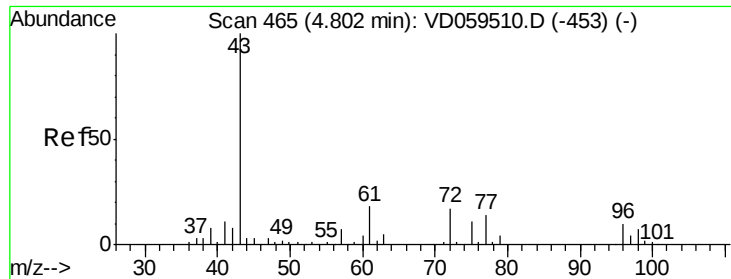


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 20.48 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

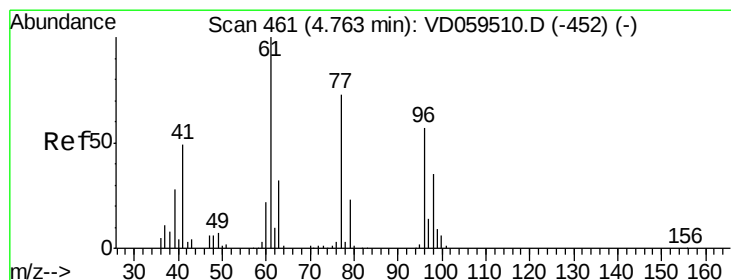
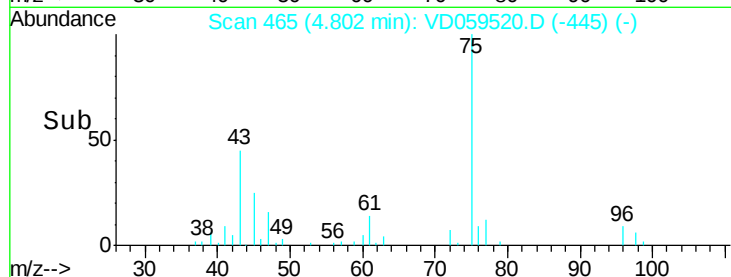
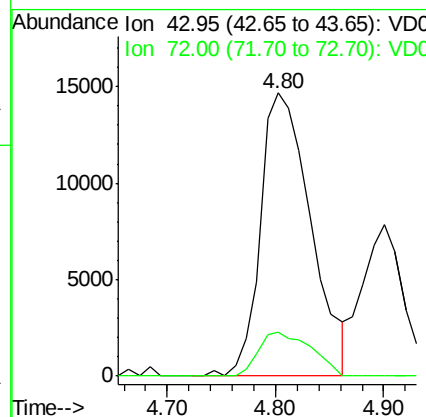
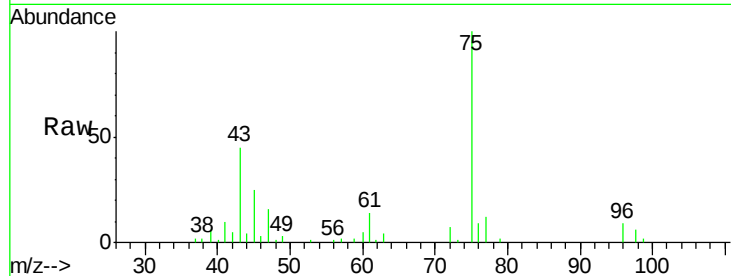
43 100

72 15.5 13.8 20.8

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#26

2,2-Dichloropropane

Concen: 3.60 ug/l

RT: 4.76 min Scan# 461

Delta R.T. 0.00 min

Lab File: VD059520.D

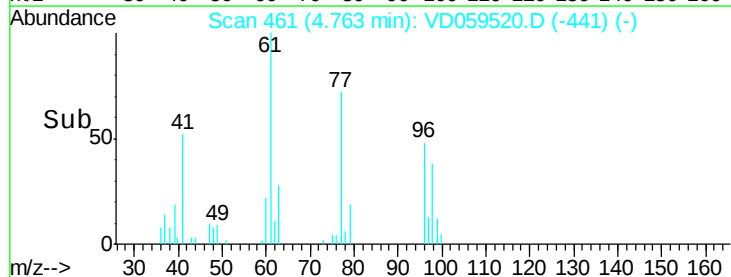
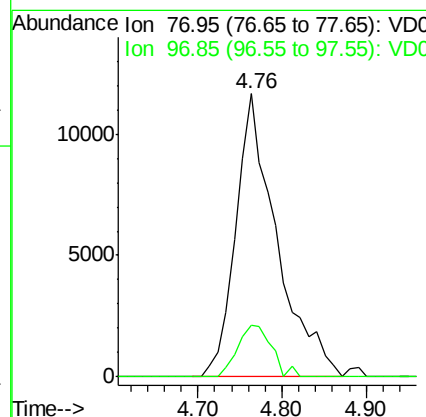
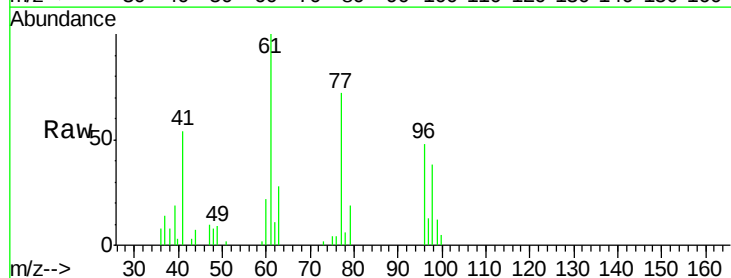
Acq: 3 Jul 2018 00:15

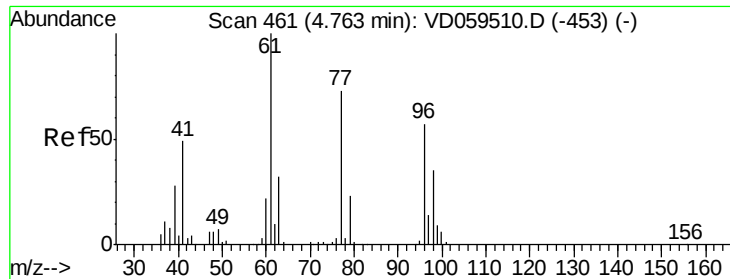
Tgt Ion: 77 Resp: 39485

Ion Ratio Lower Upper

77 100

97 18.2 9.5 28.5





#27

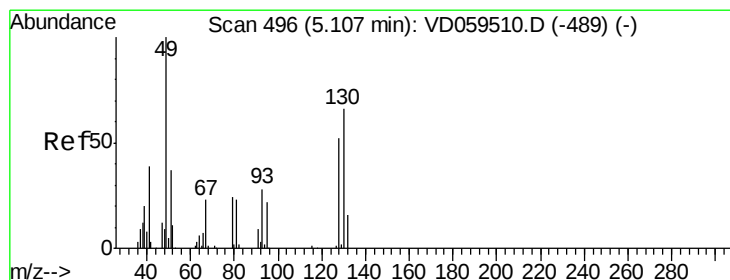
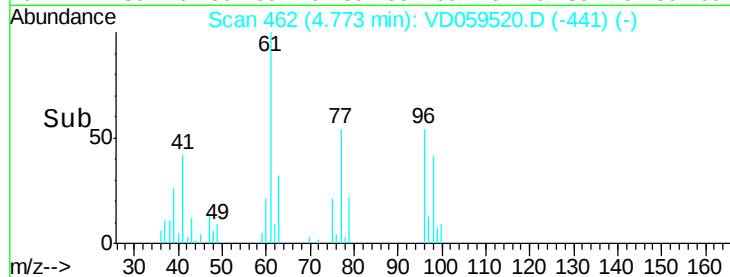
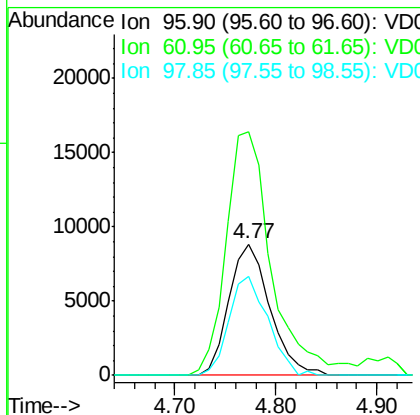
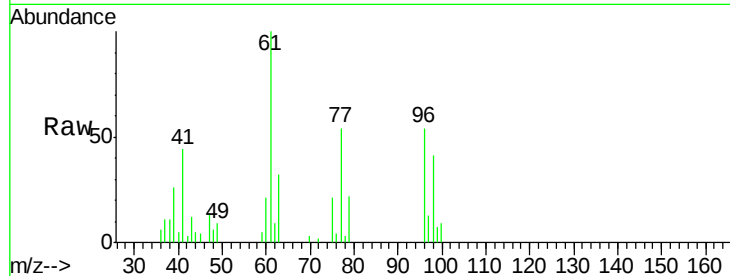
cis-1,2-Dichloroethene
Concen: 3.54 ug/l
RT: 4.77 min Scan# 462
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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

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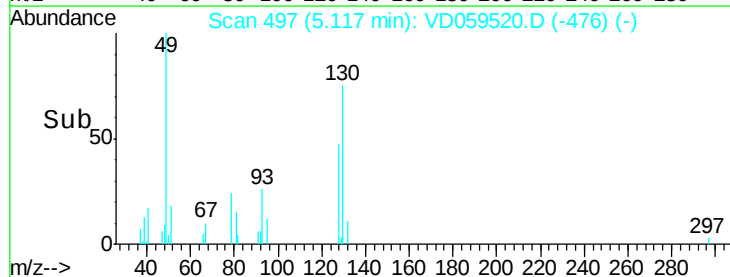
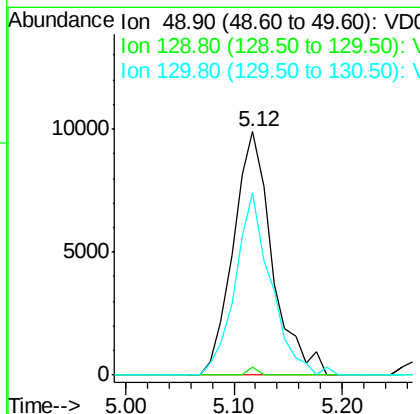
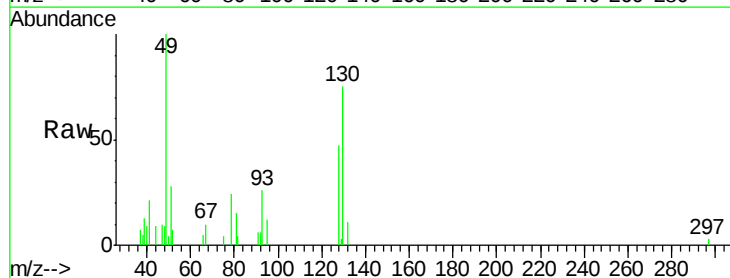
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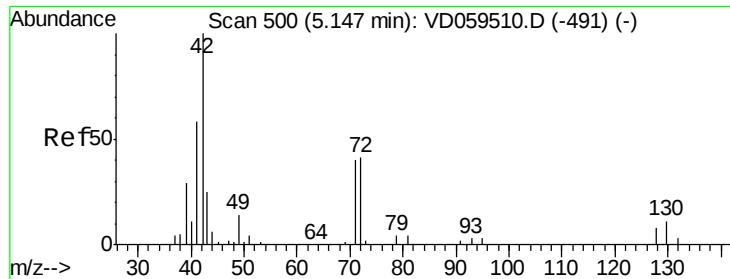


#28

Bromochloromethane
Concen: 4.80 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	Ratio	Lower	Upper
49	100		
129	3.5	0.0	4.4
130	74.8	52.6	78.8





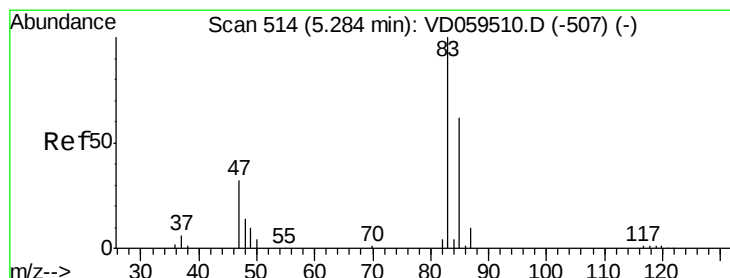
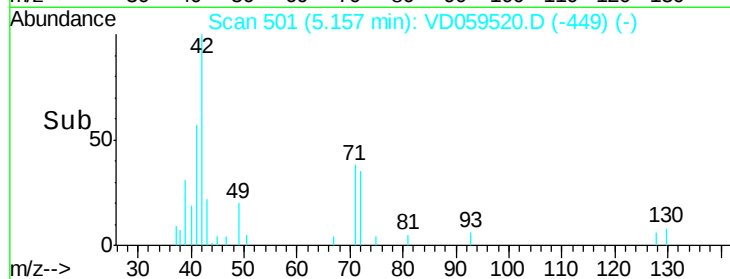
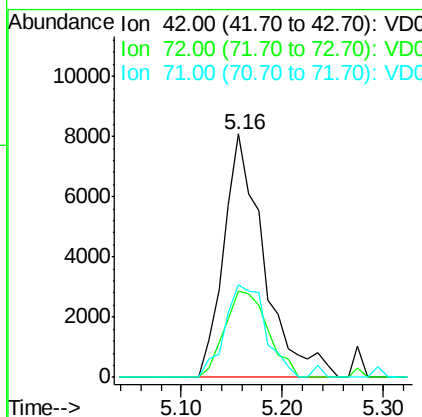
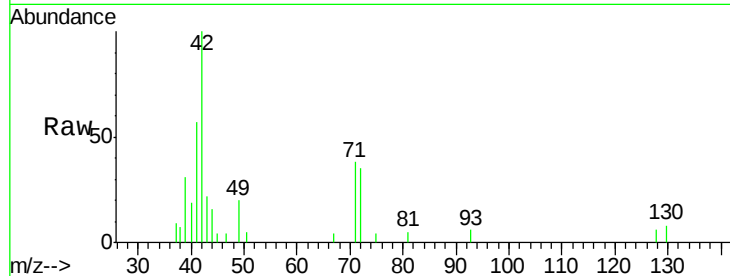
#29
Tetrahydrofuran
Concen: 18.92 ug/l
RT: 5.16 min Scan# 501
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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

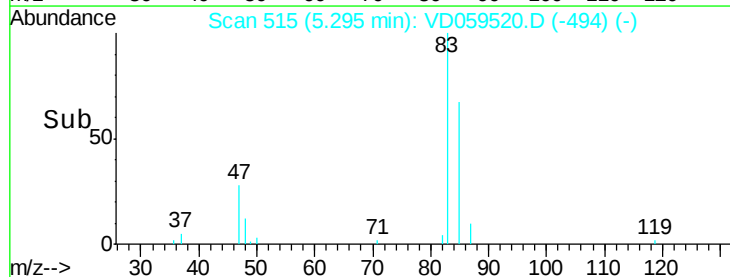
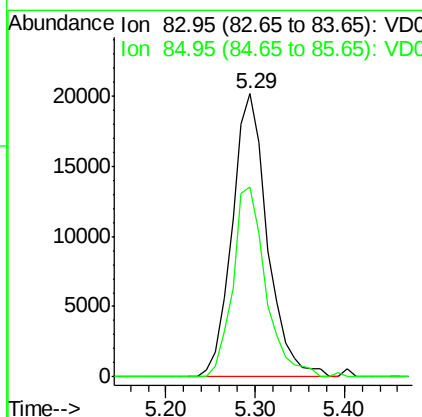
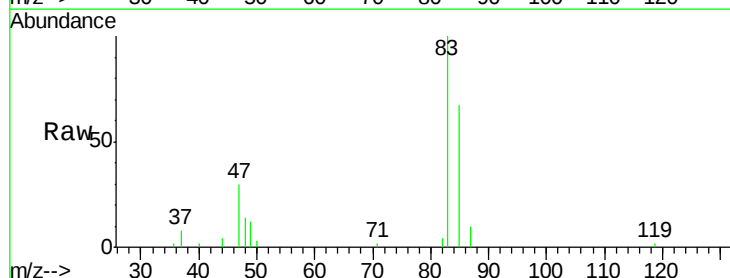
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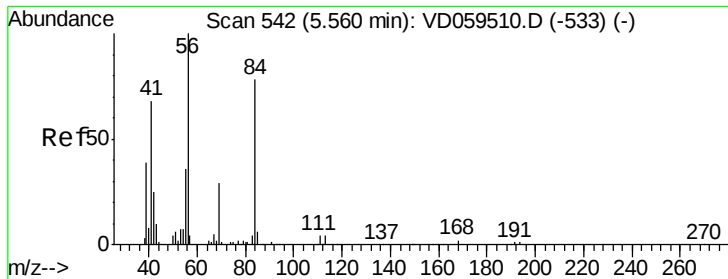
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#30
Chloroform
Concen: 3.92 ug/l
RT: 5.29 min Scan# 515
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	49.8	74.6





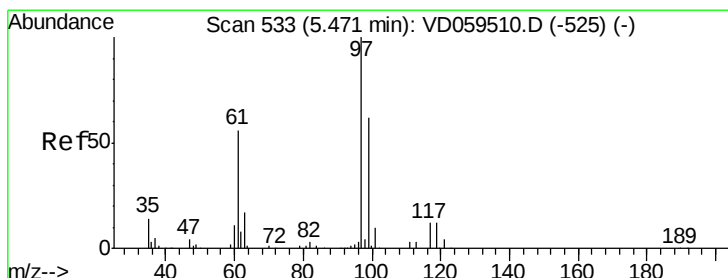
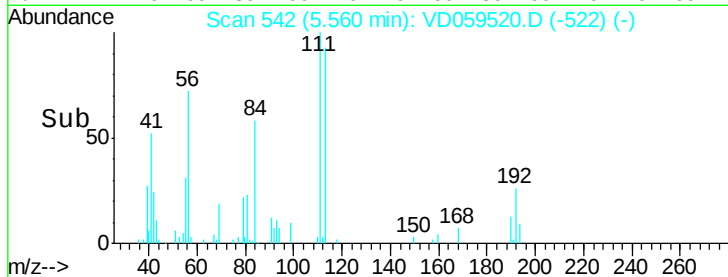
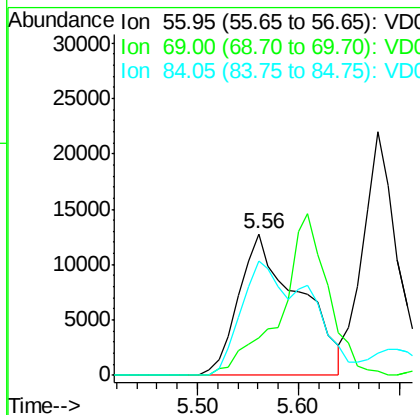
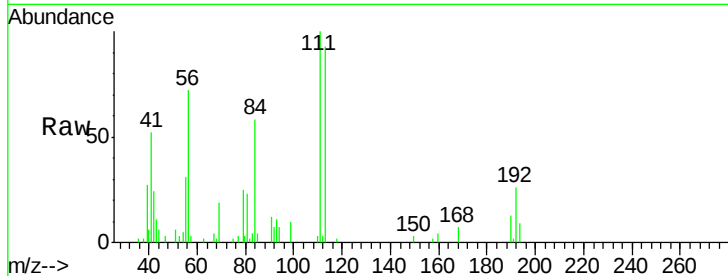
#31
Cyclohexane
Concen: 3.17 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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

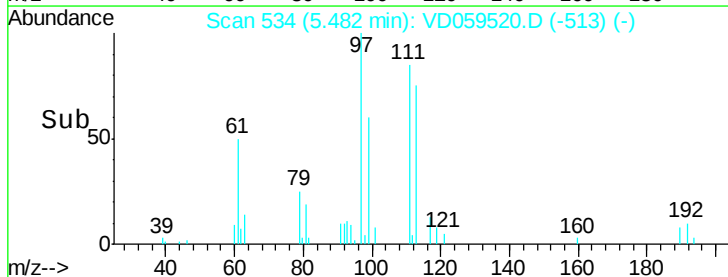
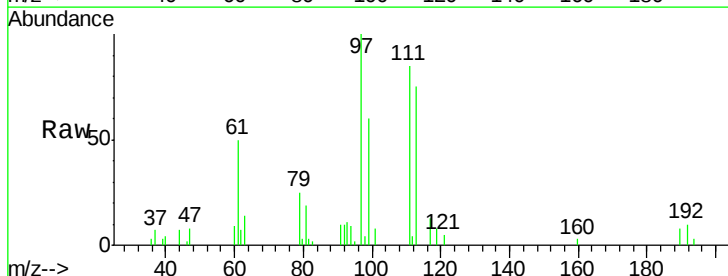
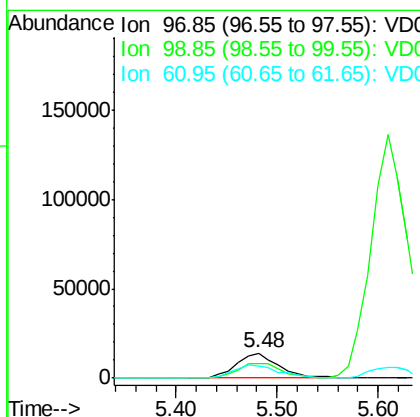
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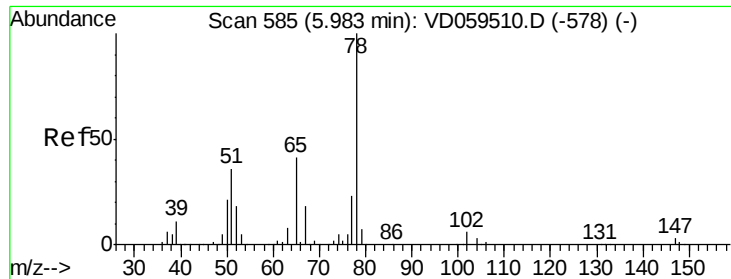
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#32
1,1,1-Trichloroethane
Concen: 3.54 ug/l
RT: 5.48 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





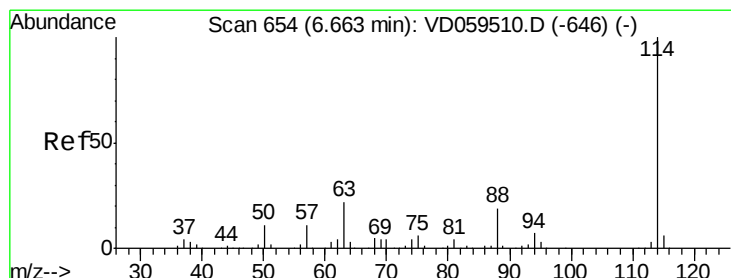
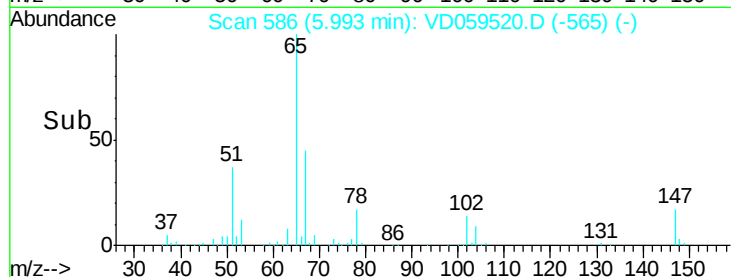
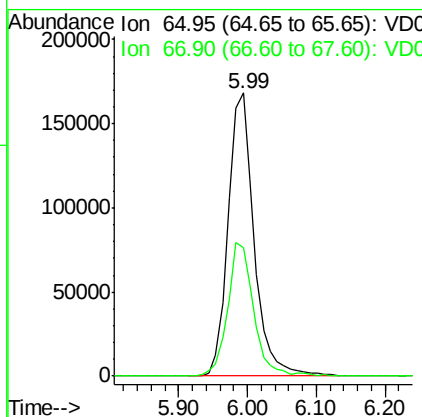
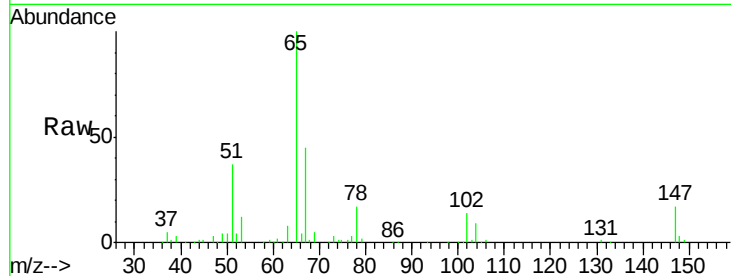
#33
 1,2-Dichloroethane-d4
 Concen: 3.54 ug/l
 RT: 5.99 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

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

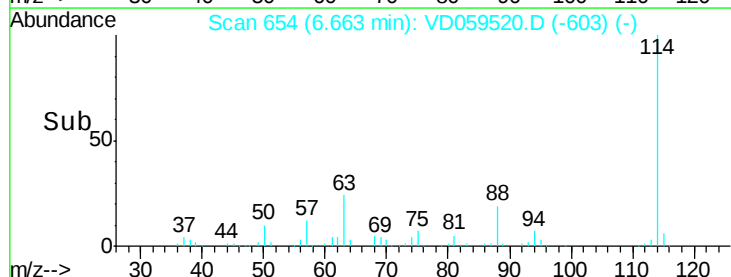
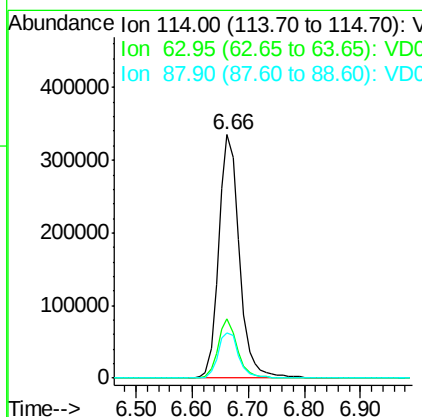
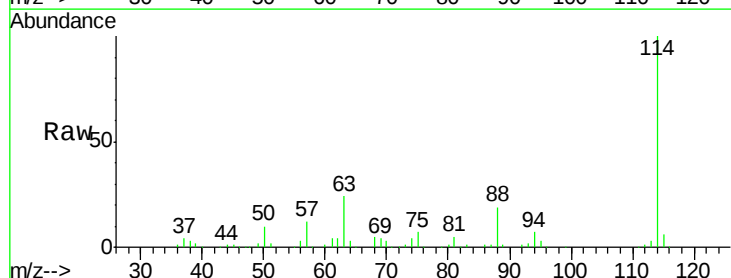
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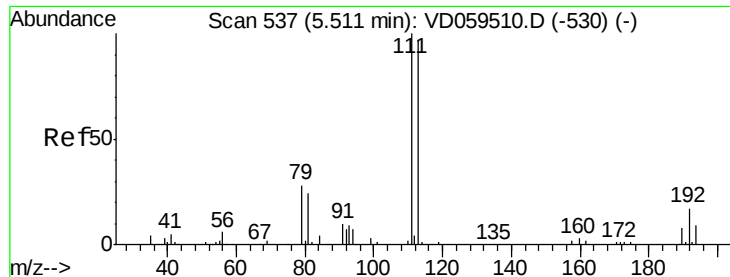
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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





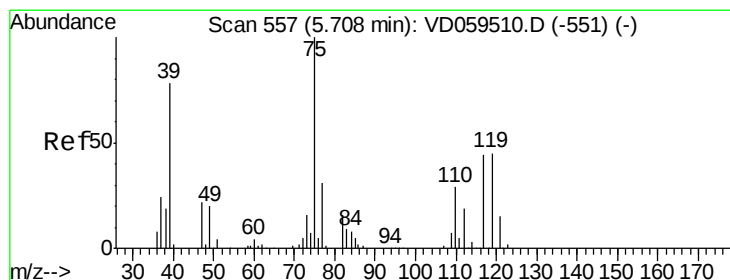
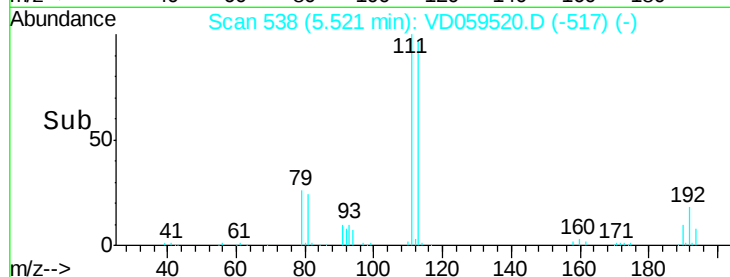
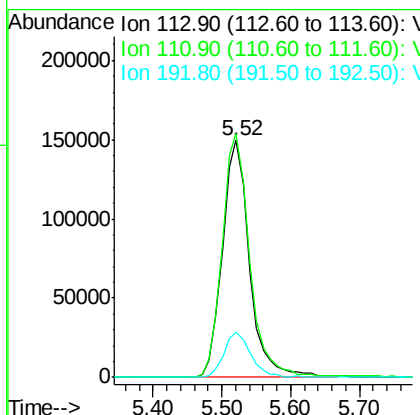
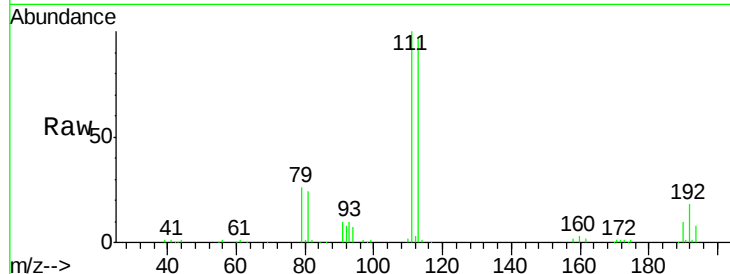
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 5.52 min Scan# 538
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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

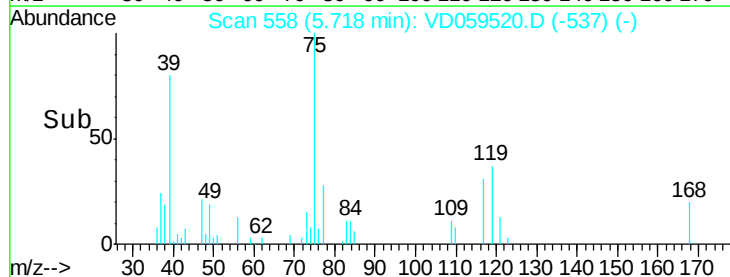
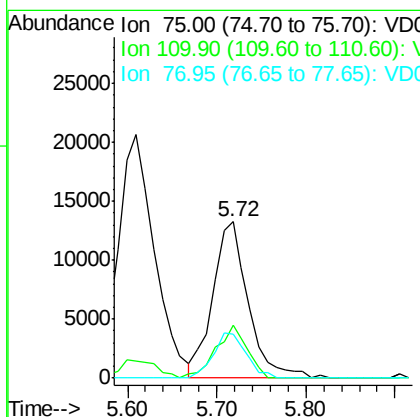
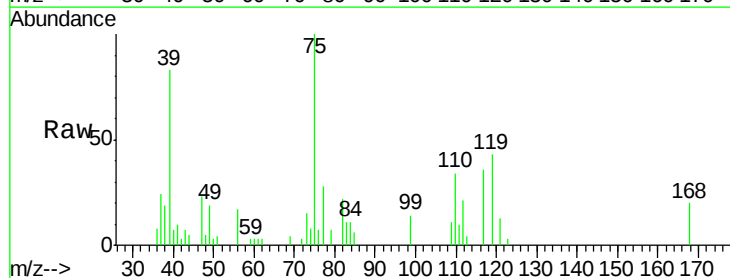
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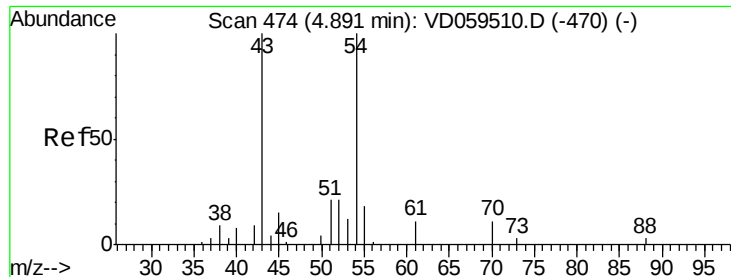
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#36
1,1-Dichloropropene
Concen: 3.99 ug/l
RT: 5.72 min Scan# 558
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





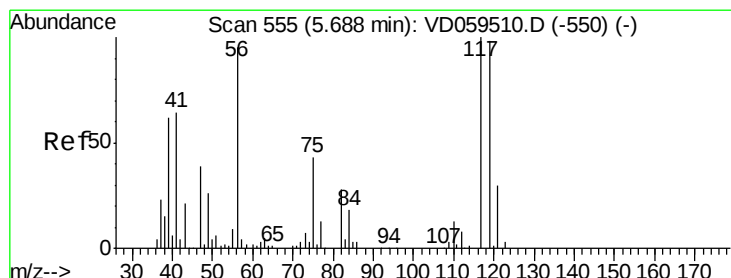
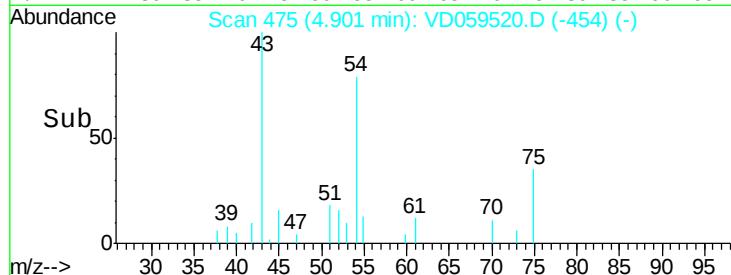
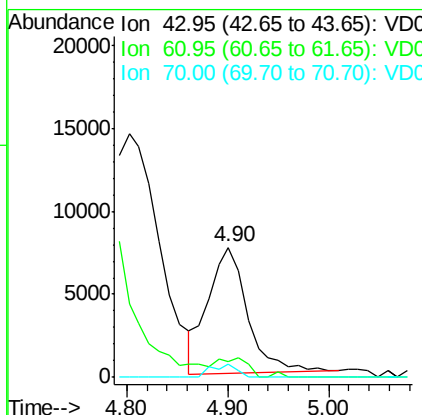
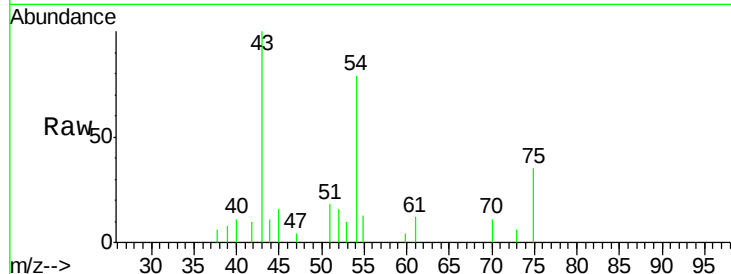
#37
Ethyl Acetate
Concen: 4.04 ug/l
RT: 4.90 min Scan# 475
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	11.5	17.3
70	10.5	6.8	10.2

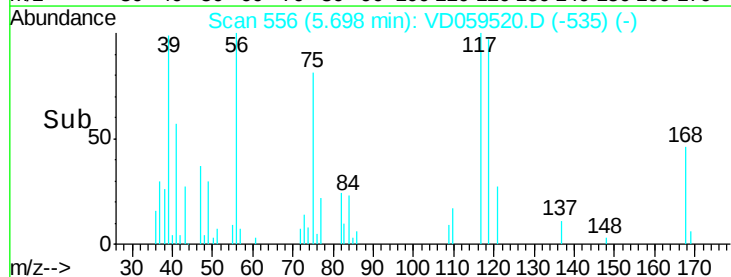
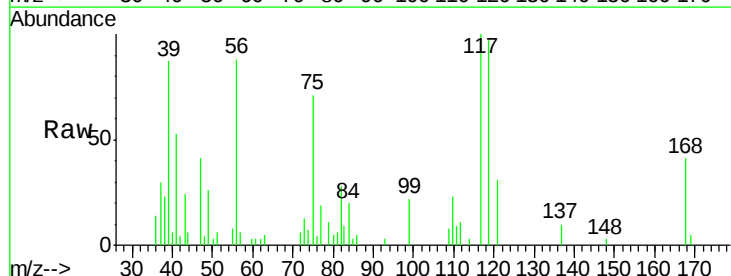
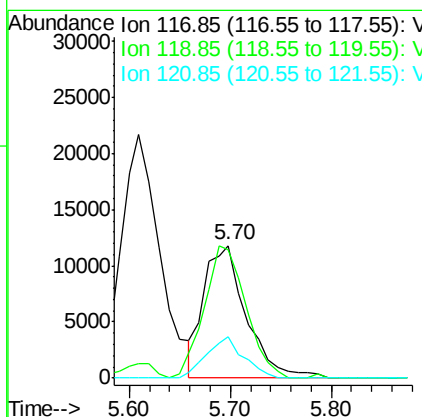
Manual Integrations
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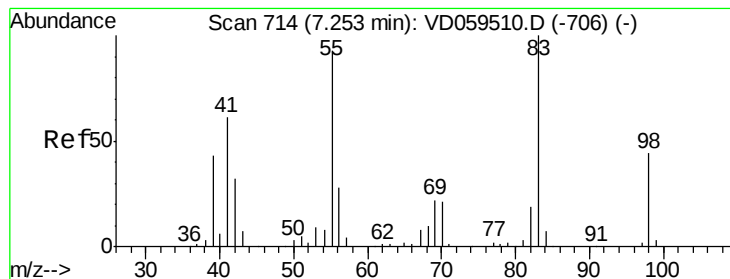
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#38
Carbon Tetrachloride
Concen: 3.79 ug/l
RT: 5.70 min Scan# 556
Delta R.T. 0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.4	114.6
121	30.9	23.9	35.9





#39

Methvlcvclohexane

Concen: 4.23 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

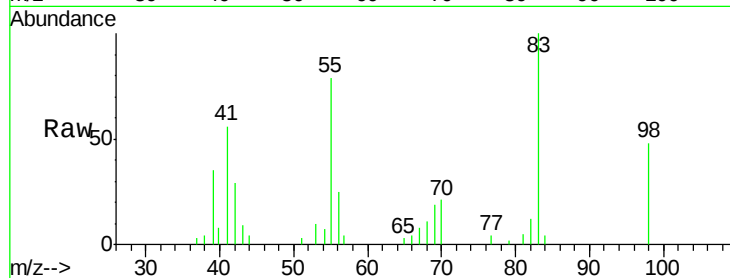
ClientSampleId :

MDL-SOIL-03-QT3-2018

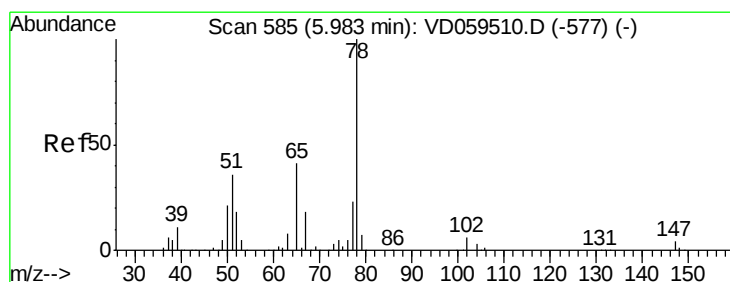
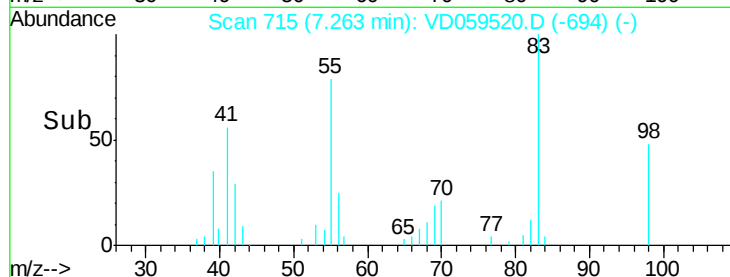
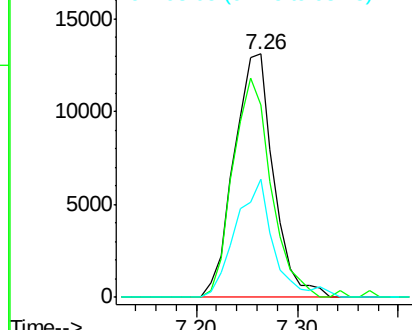
Tot Ion:	83	Resp:	35677
Ion Ratio	Lower	Upper	
83	100		
55	79.0	74.2	111.4
98	48.3	35.5	53.3

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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: 4.22 ug/l

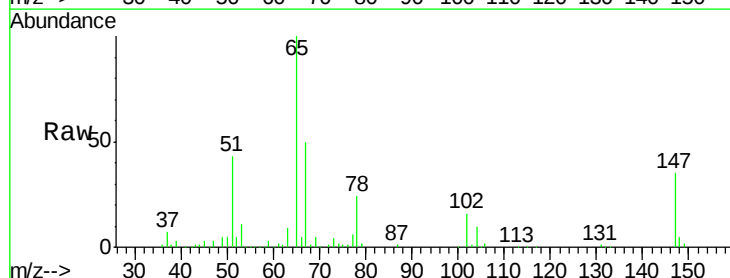
RT: 5.98 min Scan# 585

Delta R.T. 0.00 min

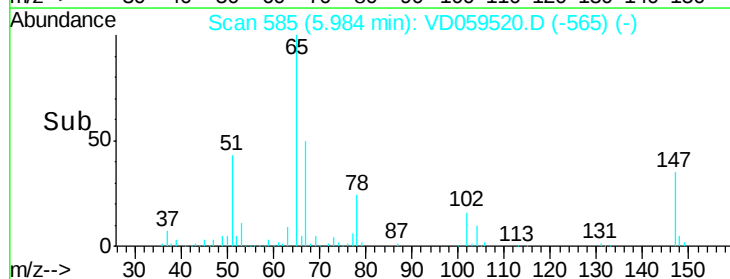
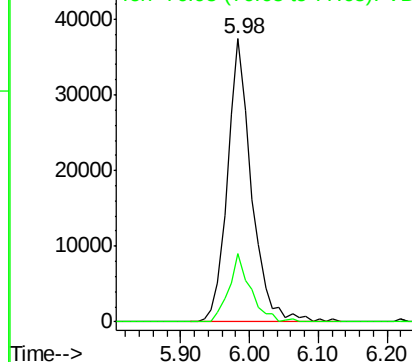
Lab File: VD059520.D

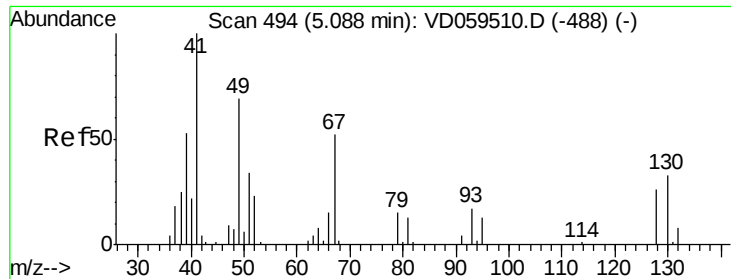
Acq: 3 Jul 2018 00:15

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: 4.00 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

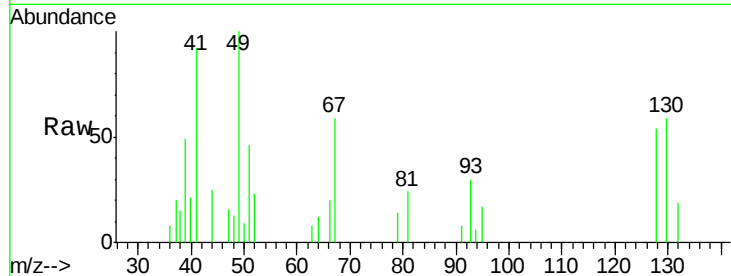
ClientSampleId :

MDL-SOIL-03-QT3-2018

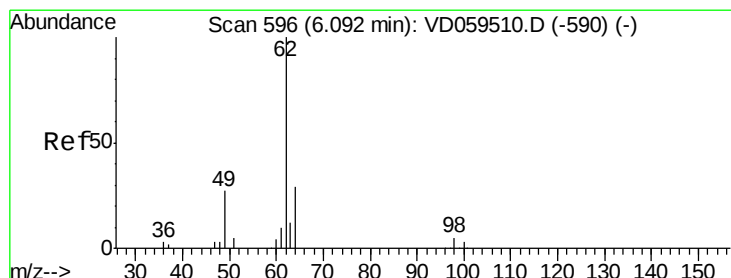
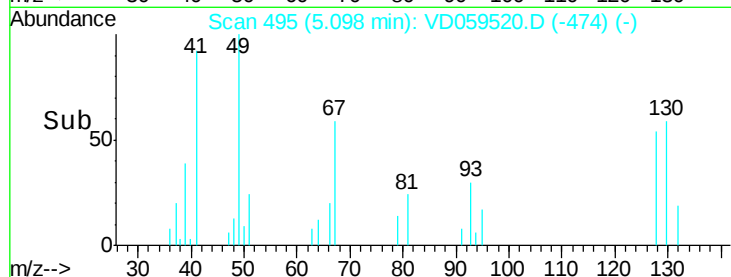
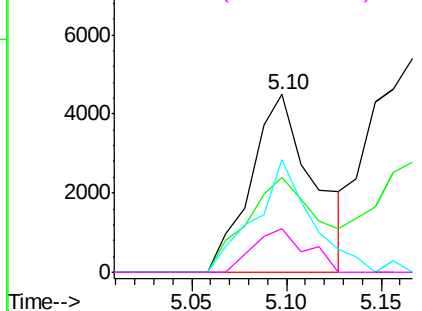
Tot Ion:	41	Resp:	10437
Ion Ratio	Lower	Upper	
41	100		
39	53.1	43.0	64.4
67	63.6	41.4	62.2
52	24.8	18.6	28.0

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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: 3.78 ug/l

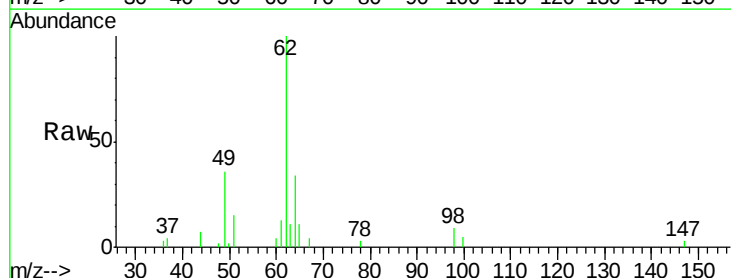
RT: 6.10 min Scan# 597

Delta R.T. 0.01 min

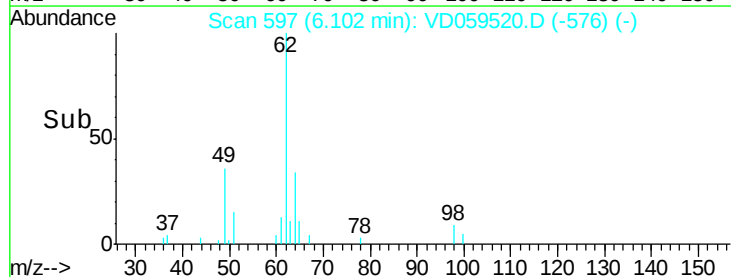
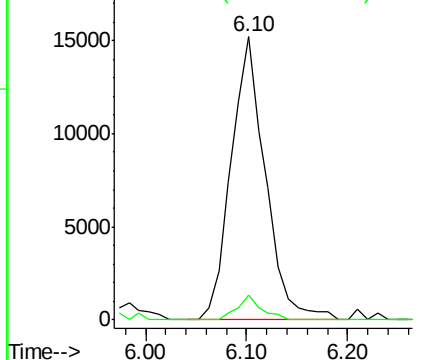
Lab File: VD059520.D

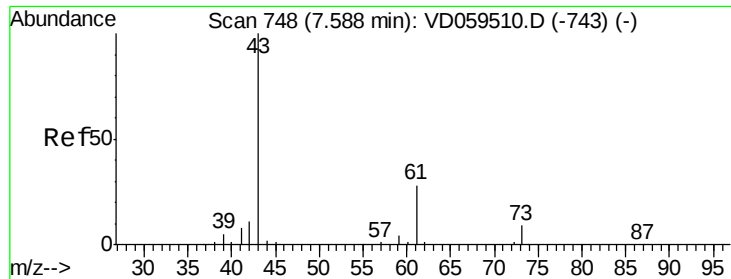
Acq: 3 Jul 2018 00:15

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: 3.54 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

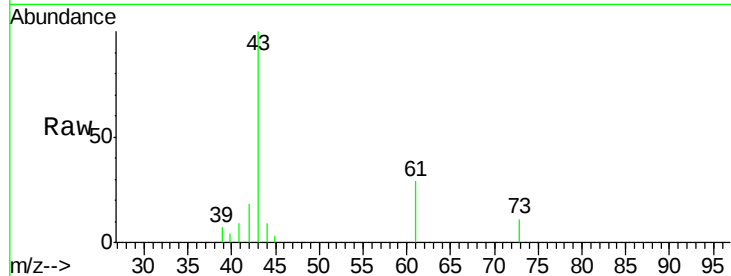
ClientSampleId :

MDL-SOIL-03-QT3-2018

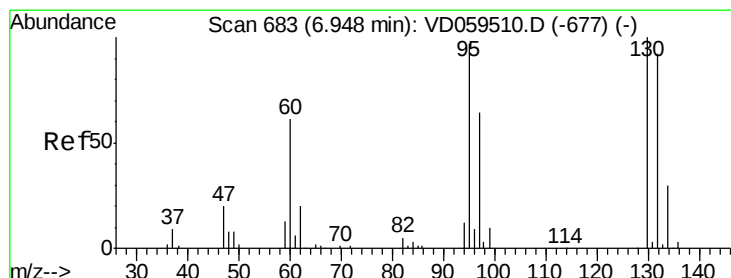
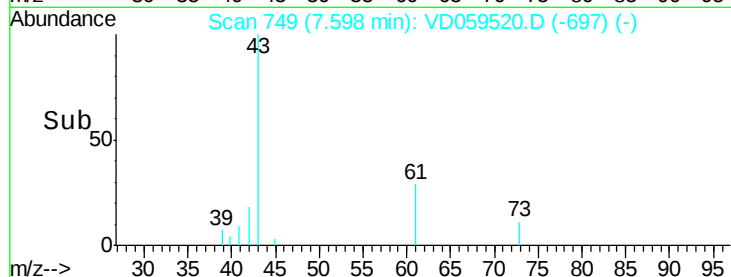
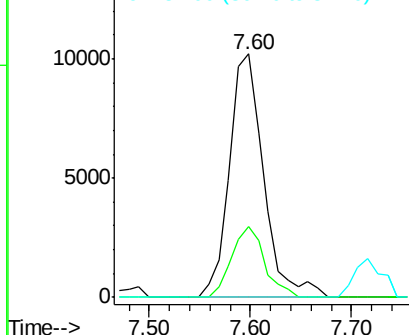
Tot Ion:	43	Resp:	24084
Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.3	33.5
87	0.0	0.4	0.6

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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: 3.56 ug/l

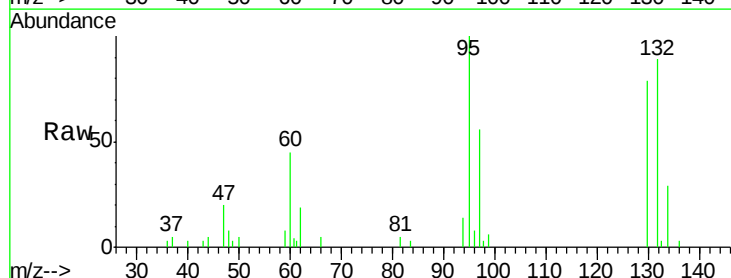
RT: 6.96 min Scan# 684

Delta R.T. 0.01 min

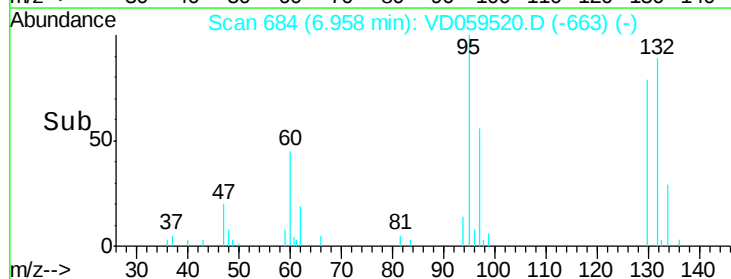
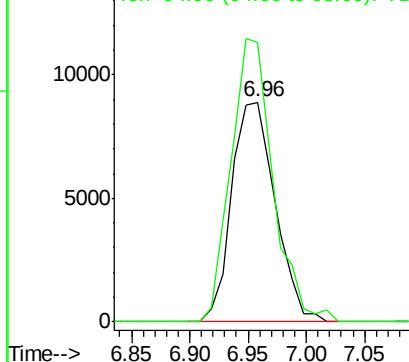
Lab File: VD059520.D

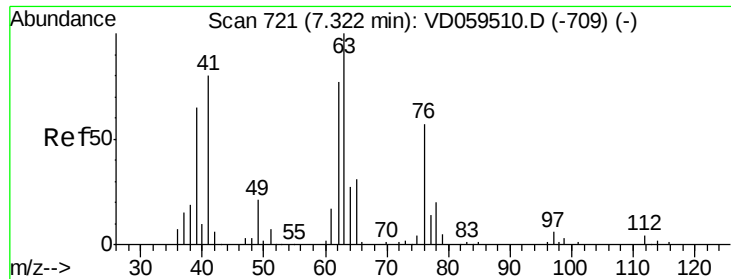
Acq: 3 Jul 2018 00:15

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: 4.17 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

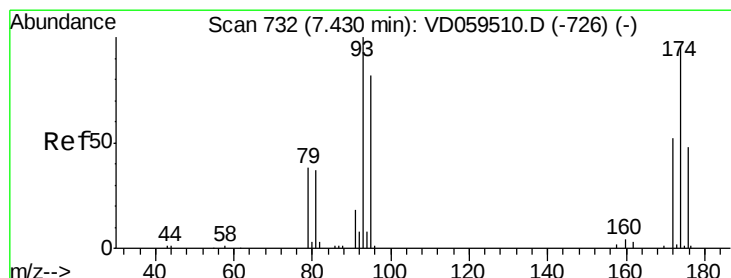
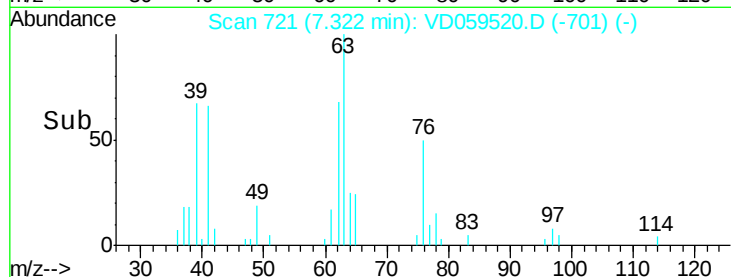
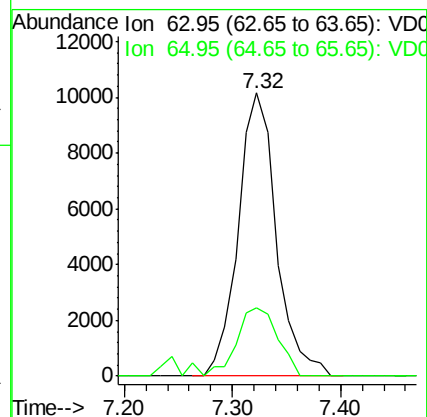
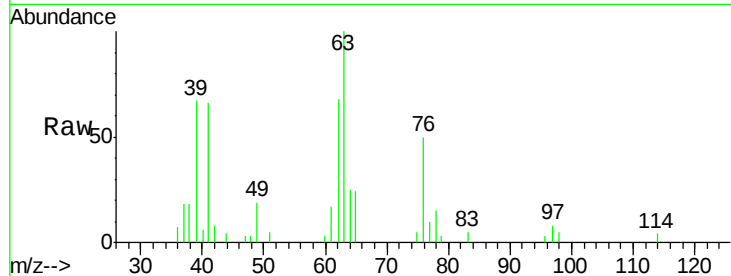
65 24.0 24.4 36.6#

Manual Integrations

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#46

Dibromomethane

Concen: 3.66 ug/l

RT: 7.44 min Scan# 733

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

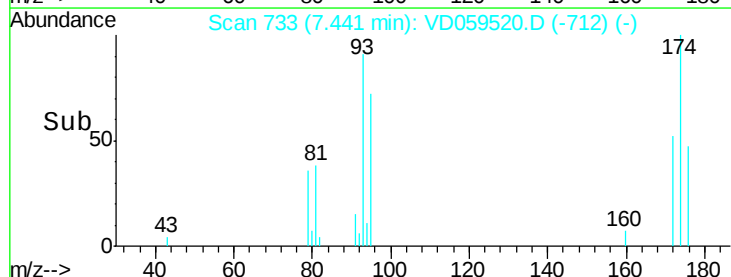
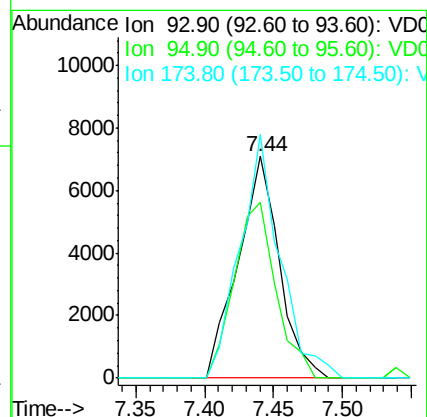
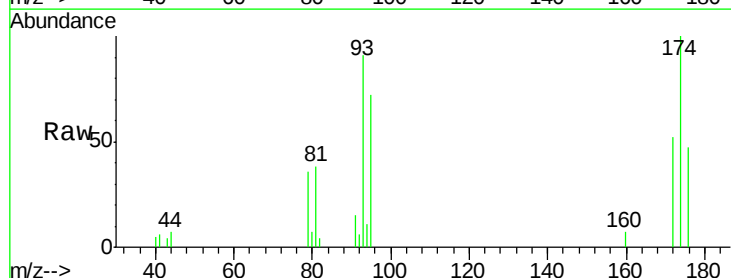
Tgt Ion: 93 Resp: 14736

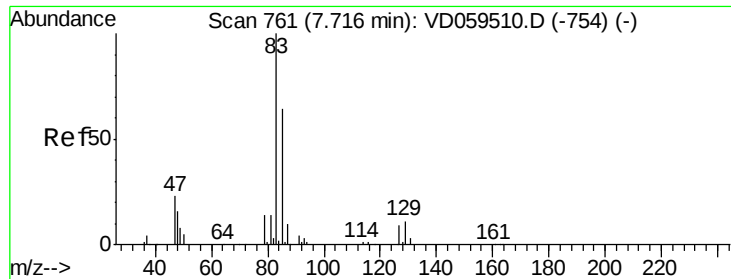
Ion Ratio Lower Upper

93 100

95 79.6 65.7 98.5

174 110.0 77.2 115.8





#47

Bromodichloromethane

Concen: 3.78 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

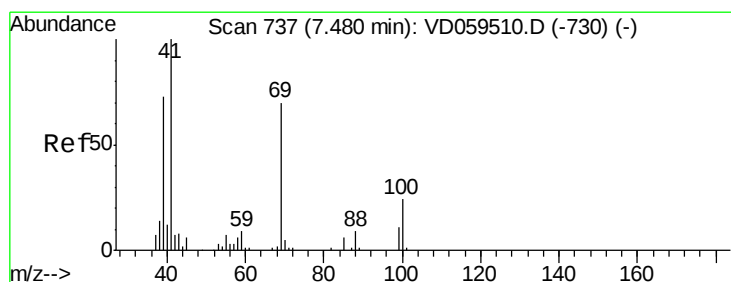
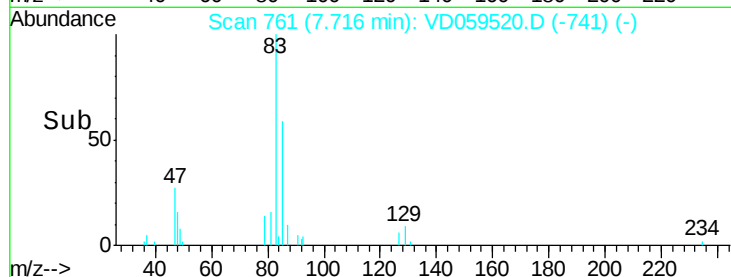
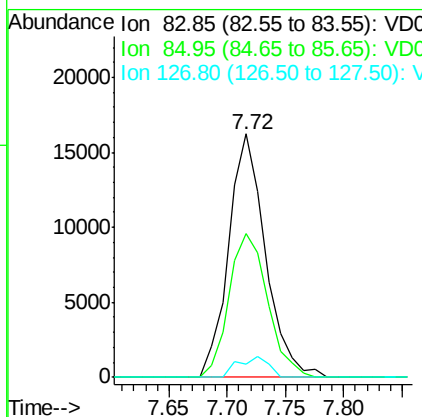
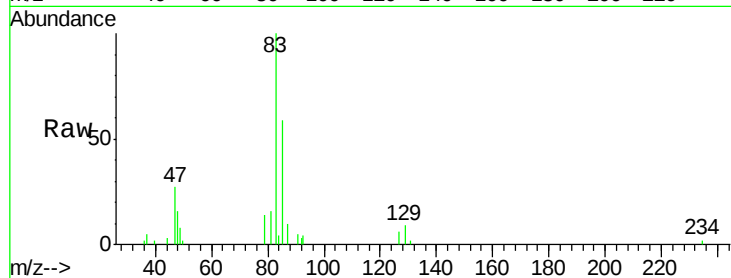
ClientSampleId :

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#

Manual Integrations
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#48

Methyl methacrylate

Concen: 3.84 ug/l

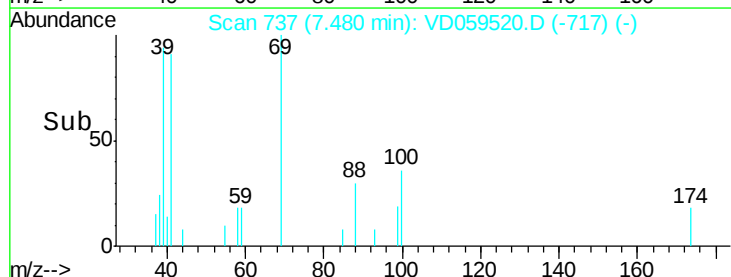
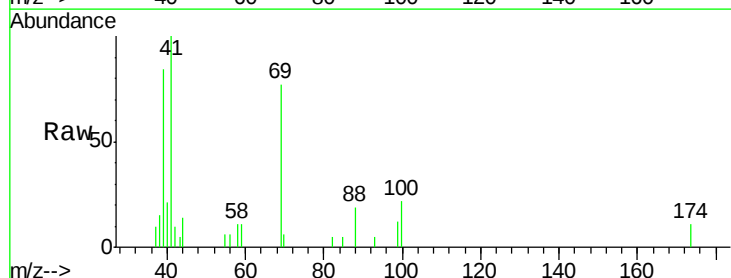
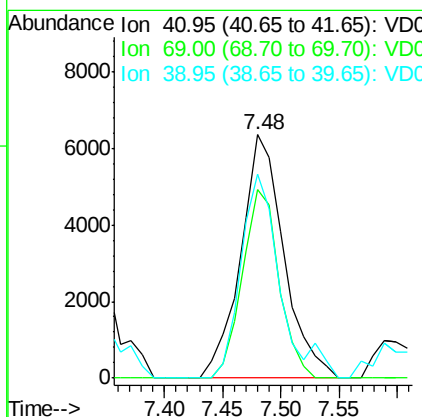
RT: 7.48 min Scan# 737

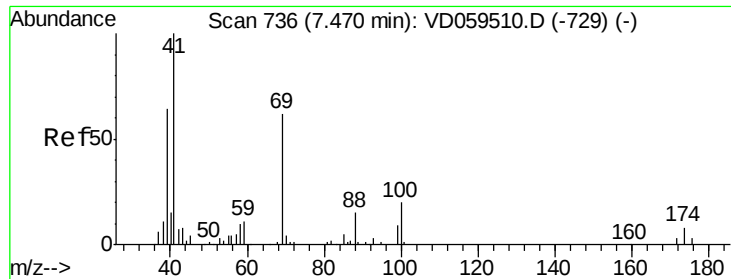
Delta R.T. 0.00 min

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





#49

1,4-Dioxane

Concen: 59.87 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

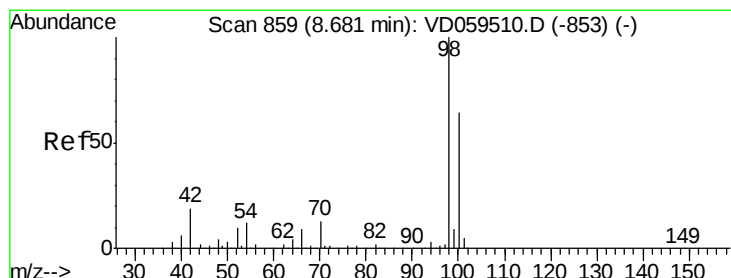
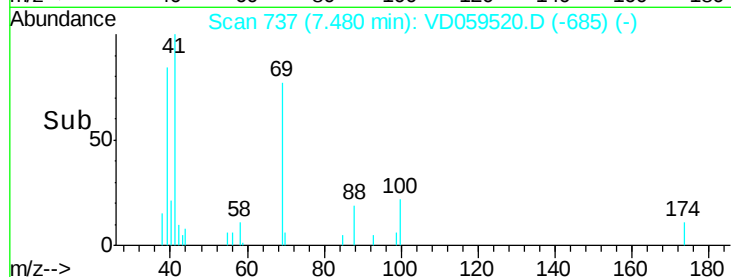
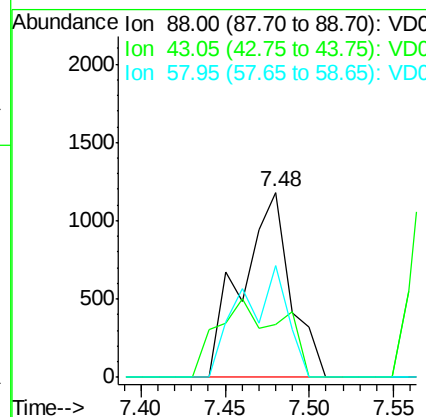
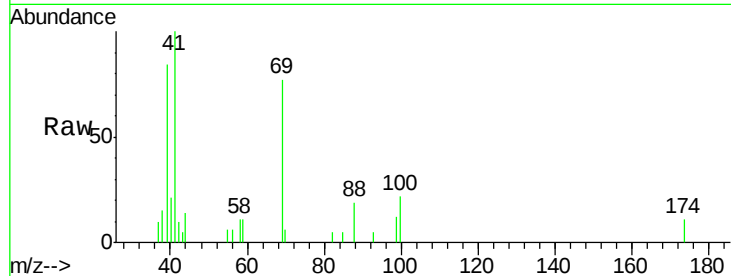
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.5	41.4	62.0#
58	60.4	49.4	74.2

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#50

Toluene-d8

Concen: 59.87 ug/l

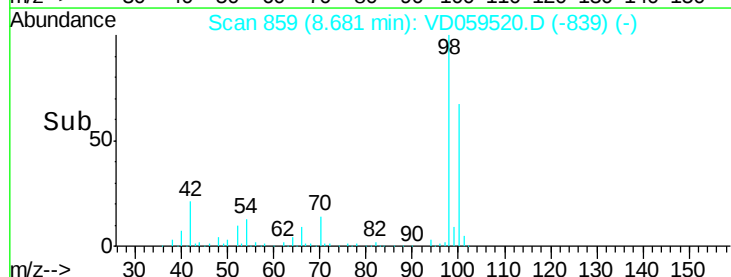
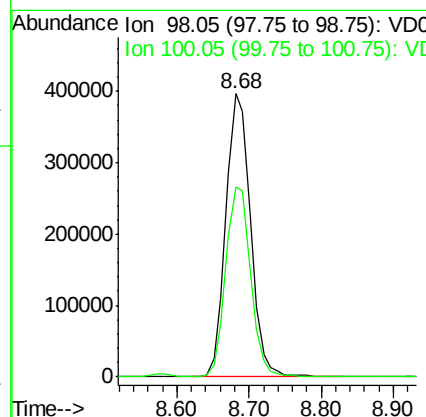
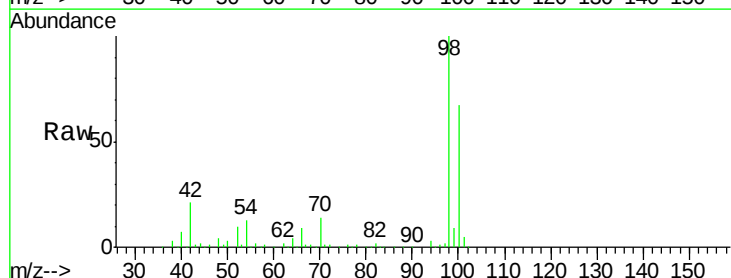
RT: 8.68 min Scan# 859

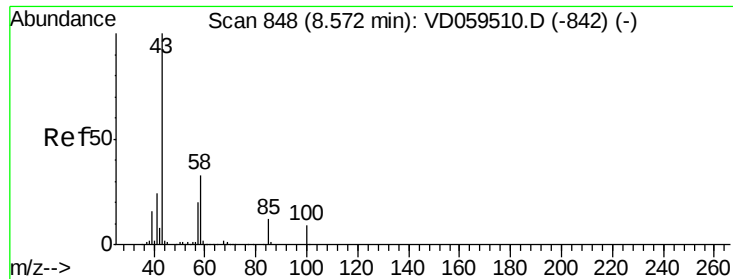
Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.2	51.8	77.8





#51

4-Methyl-2-Pentanone

Concen: 20.64 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

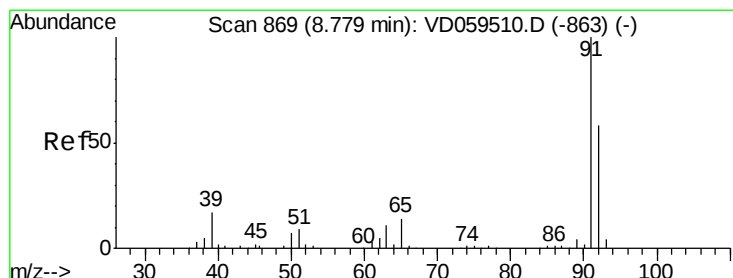
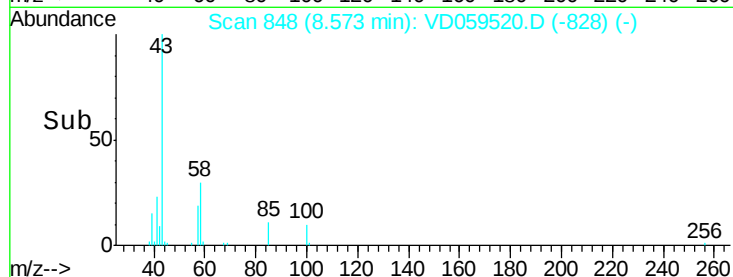
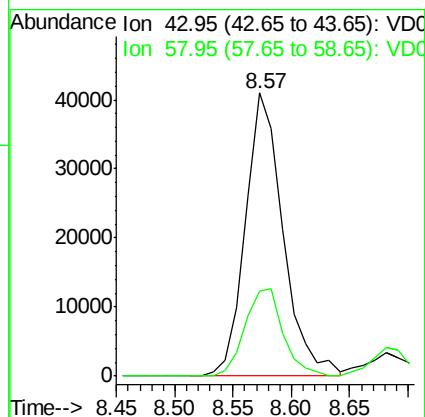
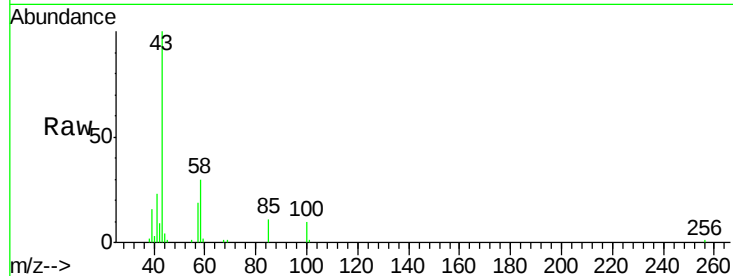
58 30.2 26.7 40.1

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#52

Toluene

Concen: 4.24 ug/l

RT: 8.78 min Scan# 869

Delta R.T. 0.00 min

Lab File: VD059520.D

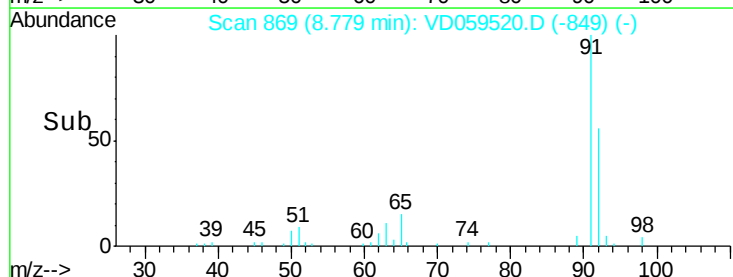
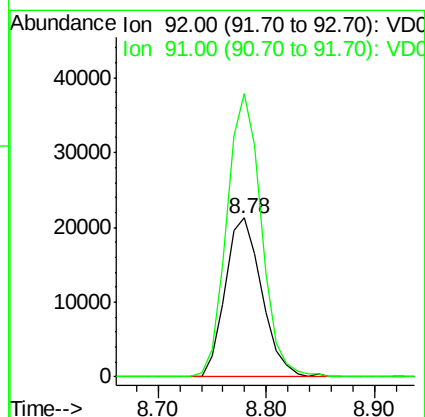
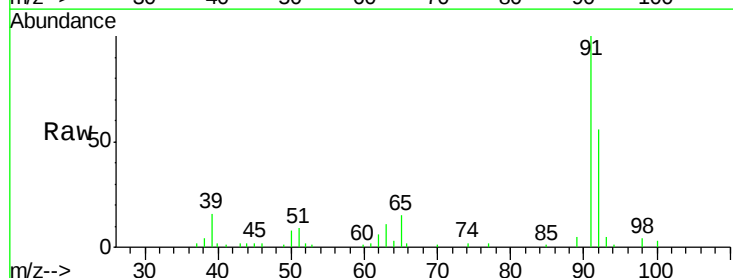
Acq: 3 Jul 2018 00:15

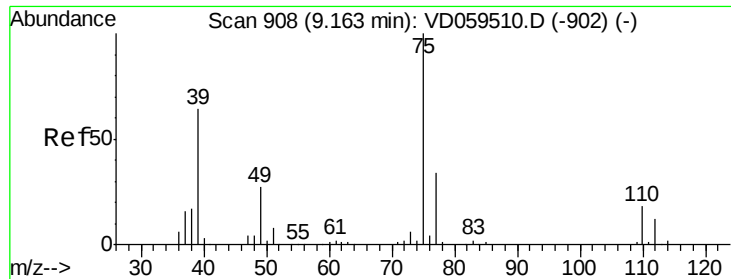
Tgt Ion: 92 Resp: 49833

Ion Ratio Lower Upper

92 100

91 178.1 138.8 208.2





#53

t-1,3-Dichloropropene

Concen: 3.64 ug/l

RT: 9.17 min Scan# 909

Delta R.T. 0.01 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tot Ion: 75 Resp: 29715

Ion Ratio Lower Upper

75 100

77 31.8 26.9 40.3

Instrument :

MSVOA_D

ClientSampleId :

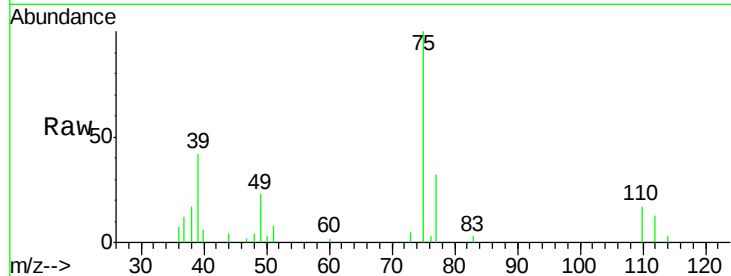
MDL-SOIL-03-QT3-2018

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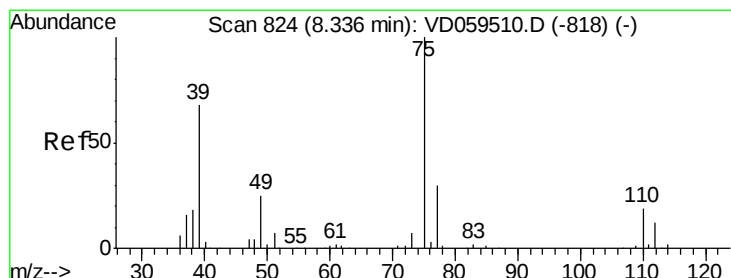
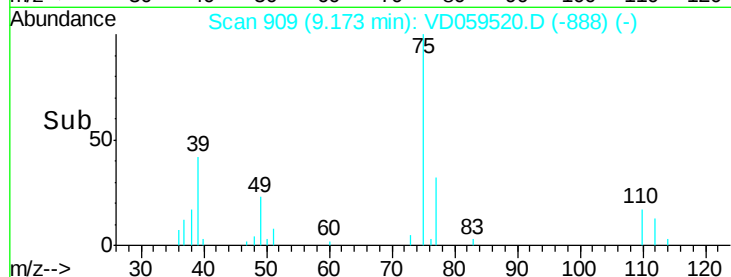
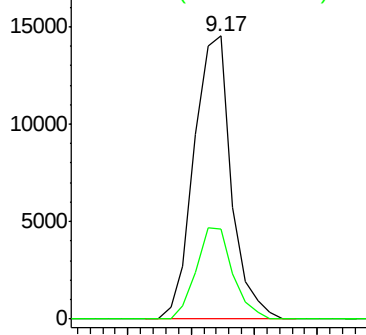
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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 3.66 ug/l

RT: 8.34 min Scan# 824

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

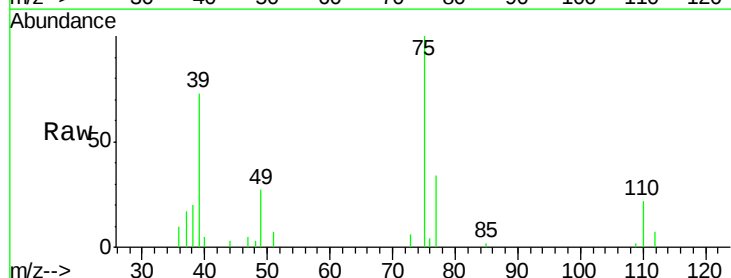
Tgt Ion: 75 Resp: 34627

Ion Ratio Lower Upper

75 100

77 33.8 24.4 36.6

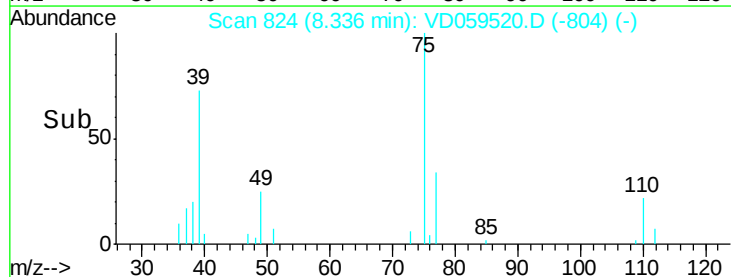
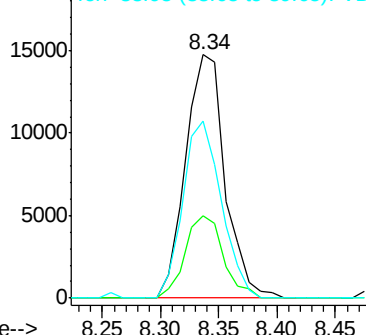
39 72.7 54.7 82.1

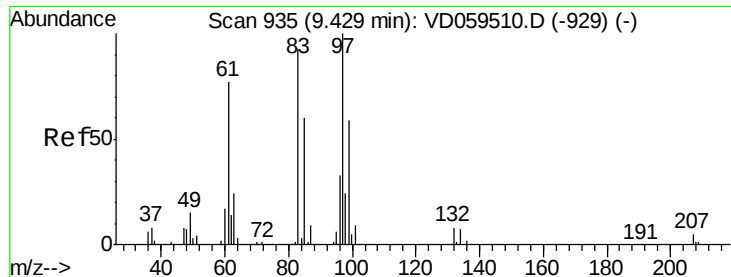


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 4.55 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

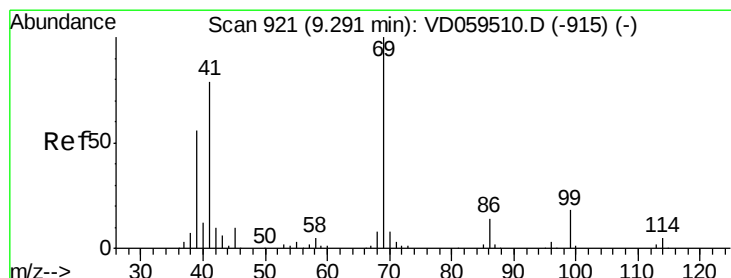
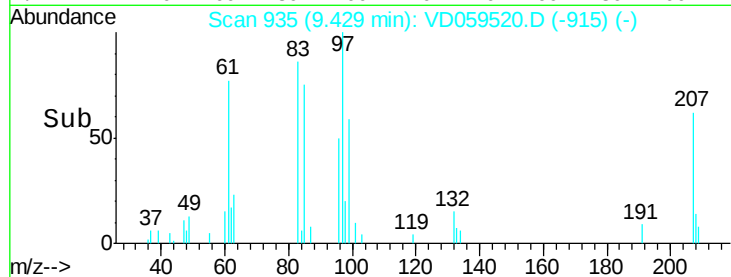
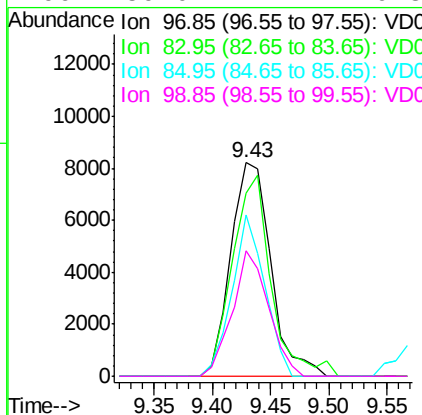
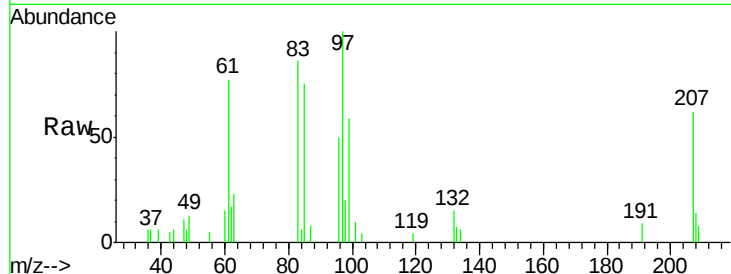
ClientSampleId :

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

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#56

Ethyl methacrylate

Concen: 3.88 ug/l

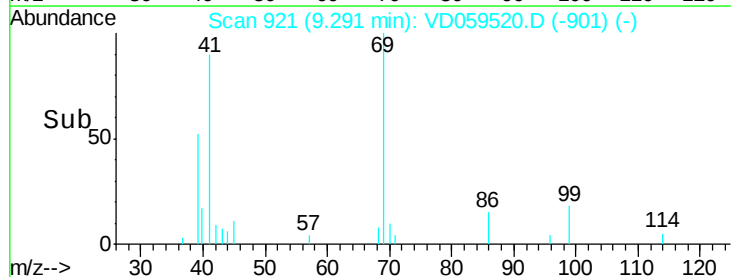
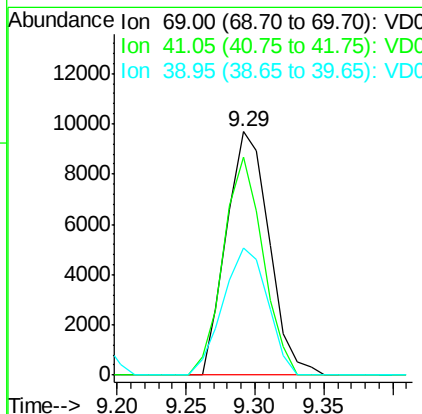
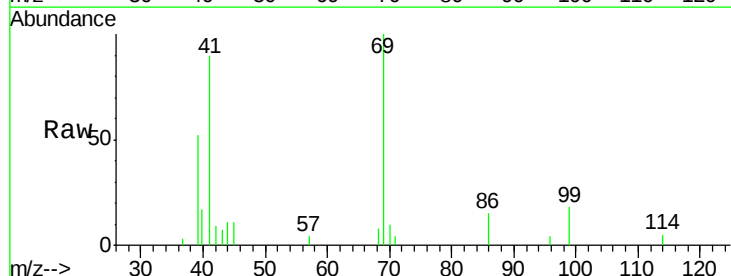
RT: 9.29 min Scan# 921

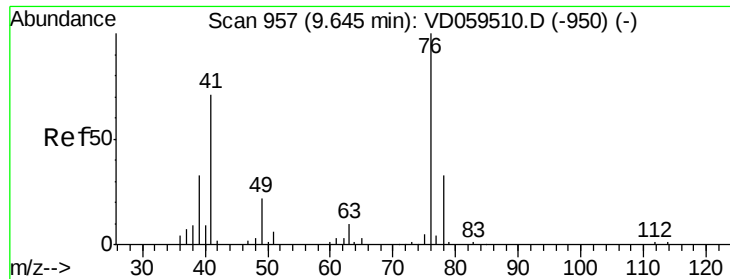
Delta R.T. 0.00 min

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





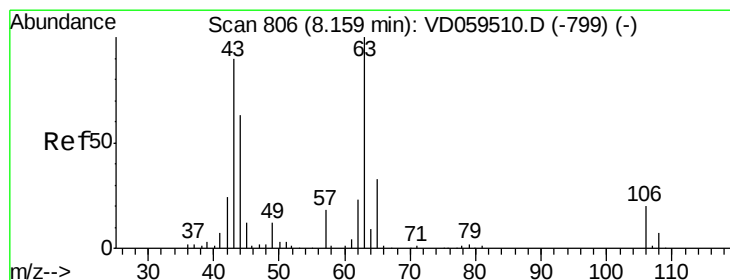
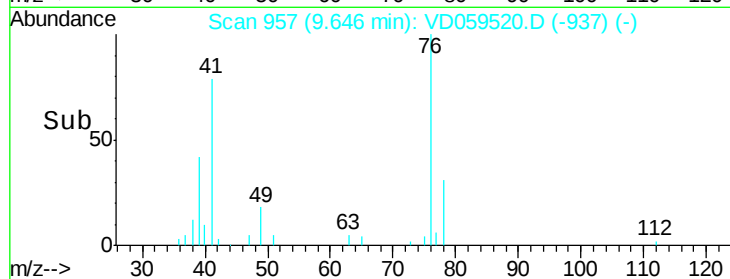
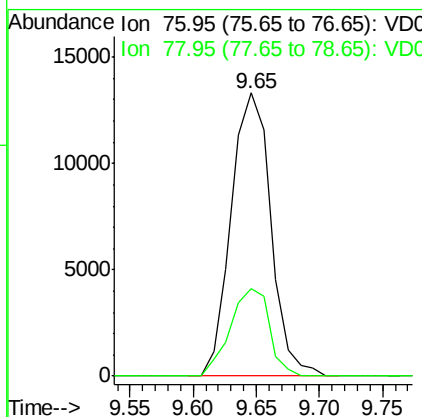
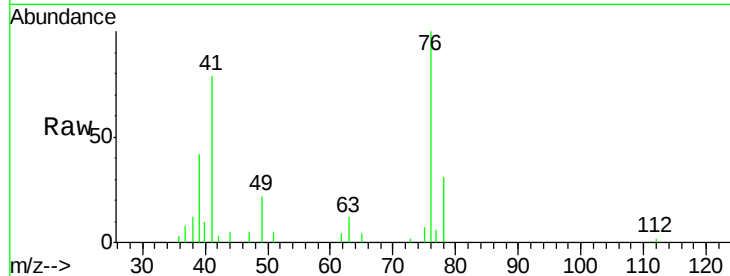
#57
 1,3-Dichloropropane
 Concen: 3.73 ug/l
 RT: 9.65 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

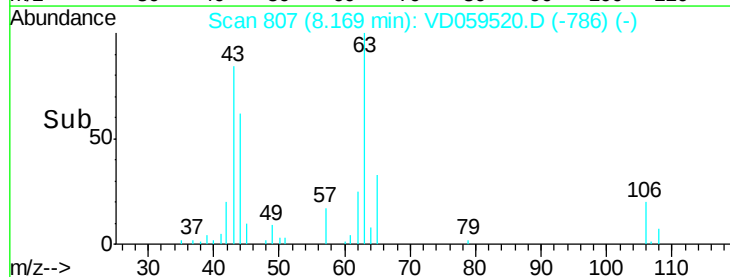
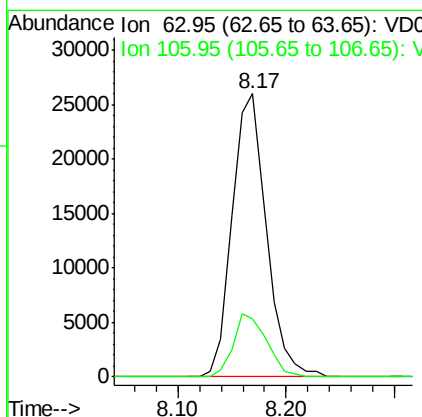
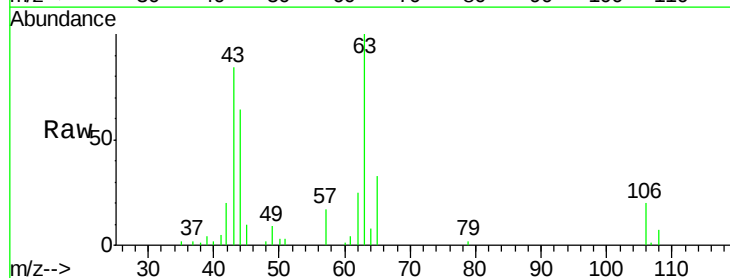
Manual Integrations
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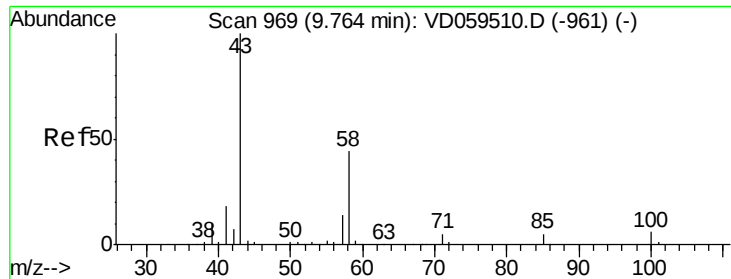
apatel
 7/3/2018 10:28:20 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 21.84 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





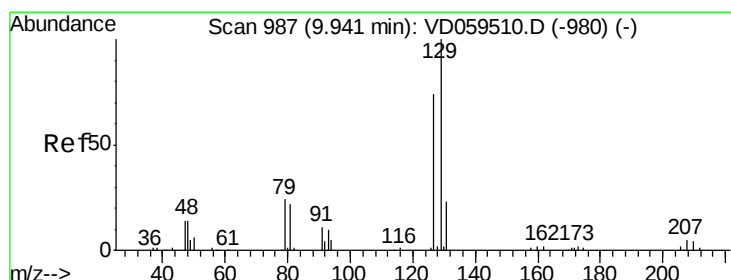
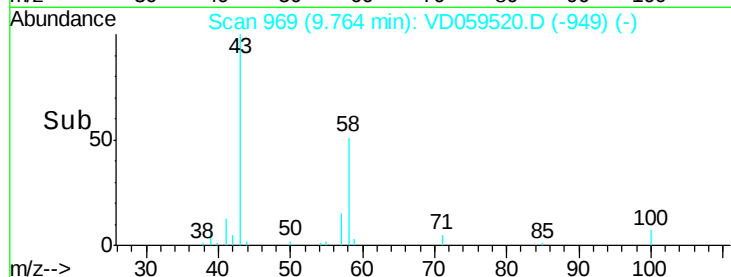
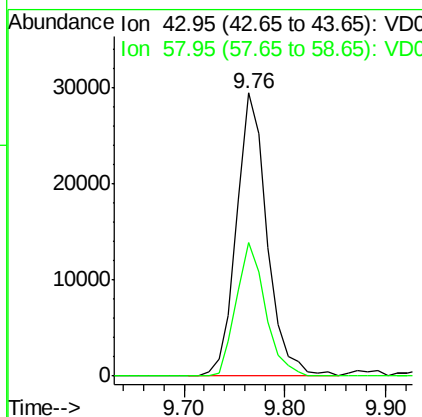
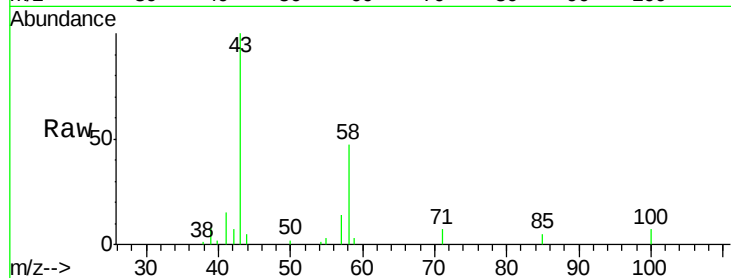
#59
2-Hexanone
Concen: 18.97 ug/l
RT: 9.76 min Scan# 969
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

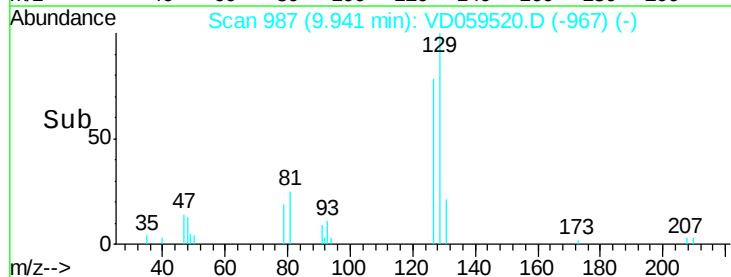
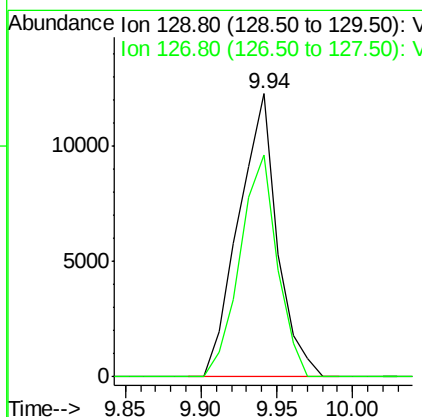
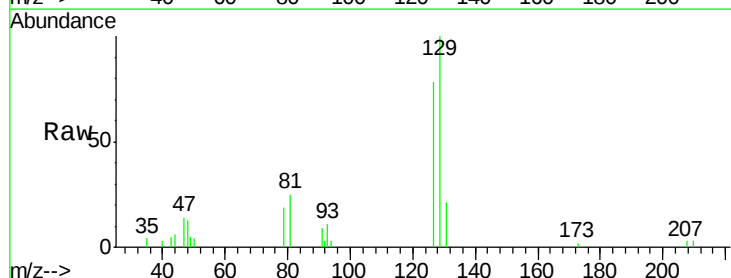
Manual Integrations
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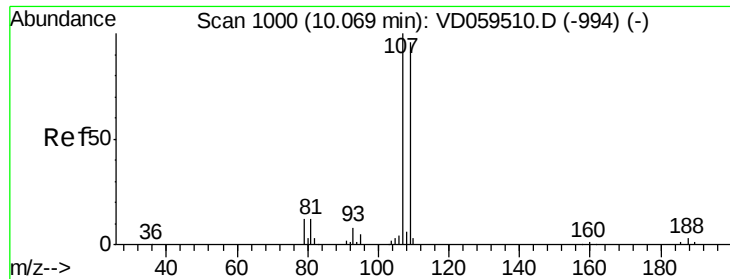
apatel
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#60
Dibromochloromethane
Concen: 3.63 ug/l
RT: 9.94 min Scan# 987
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





#61

1,2-Dibromoethane

Concen: 4.00 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

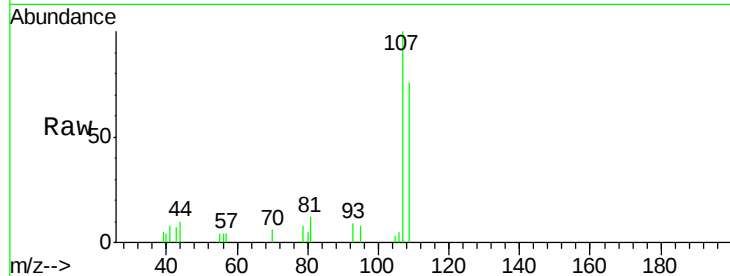
107 100

109 76.4 76.8 115.2#

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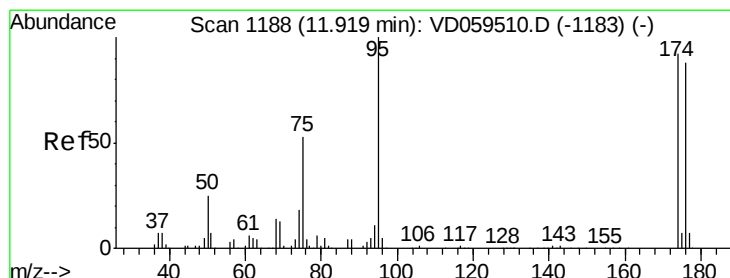
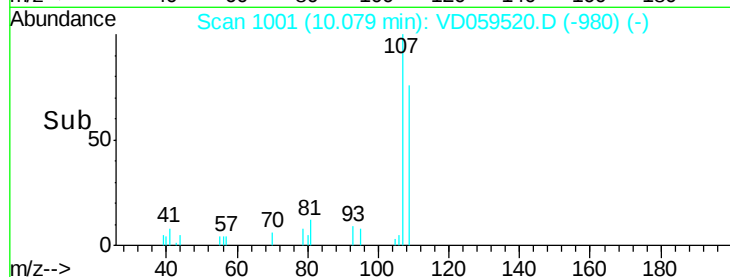
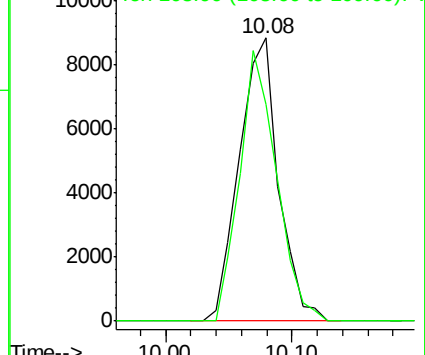
apatel

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 4.00 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

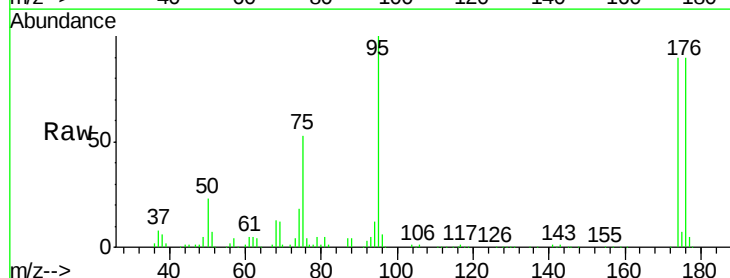
Tgt Ion: 95 Resp: 396482

Ion Ratio Lower Upper

95 100

174 90.3 0.0 183.0

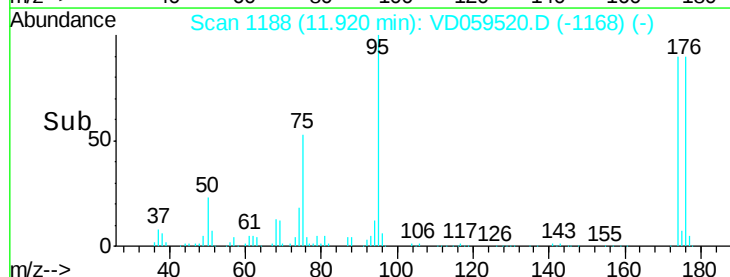
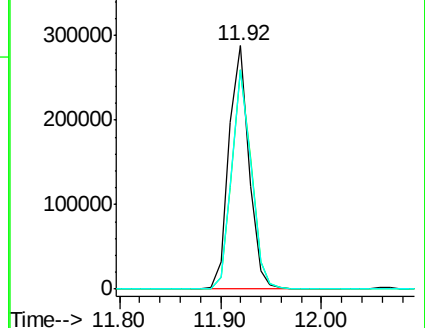
176 90.3 0.0 176.6

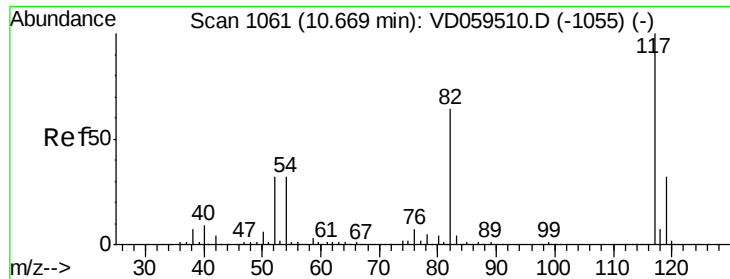


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





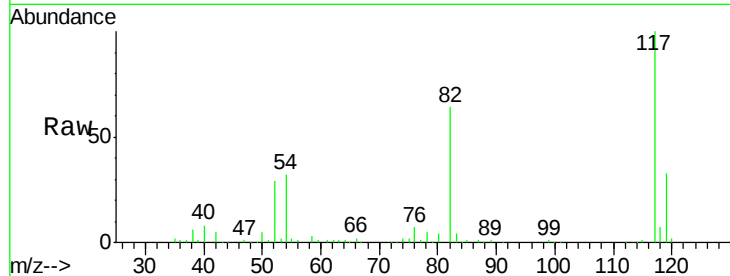
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.67 min Scan# 1061
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.9	51.1	76.7
119	32.5	25.6	38.4

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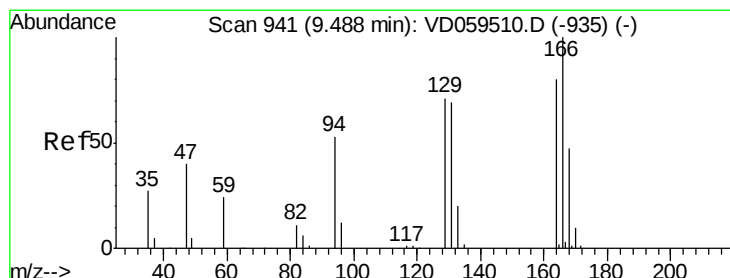
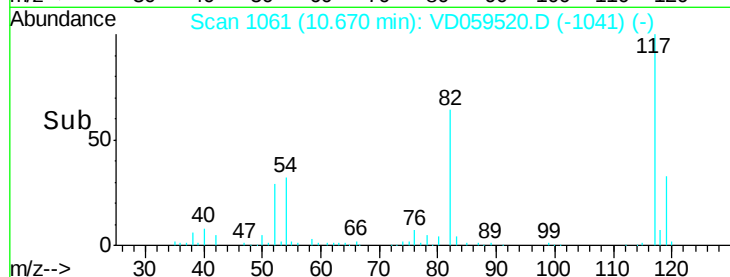
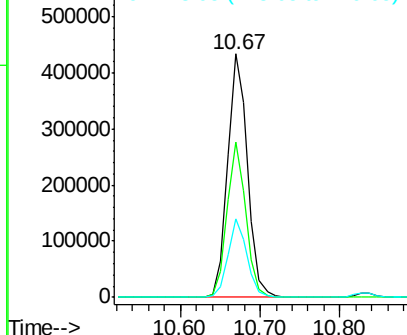


Abundance

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: 4.10 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	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

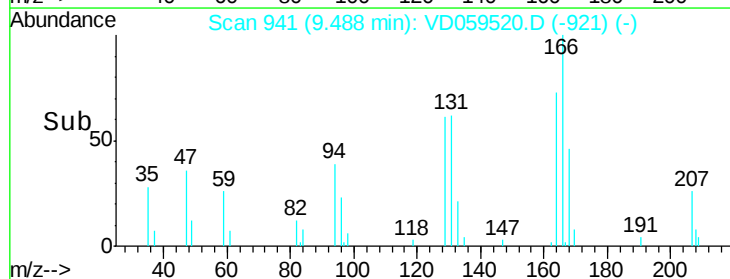
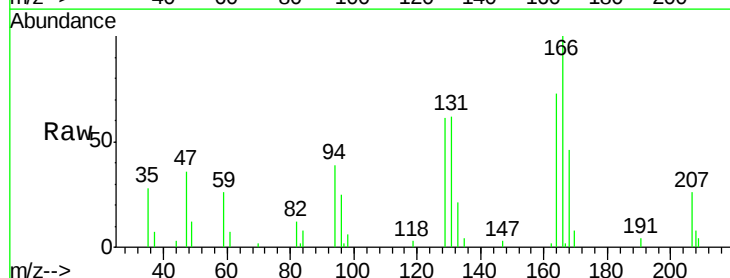
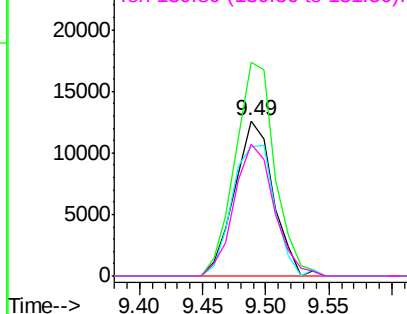
Abundance

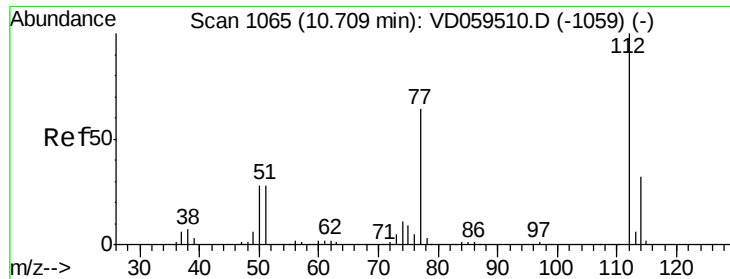
Ion 163.85 (163.55 to 164.55): V

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





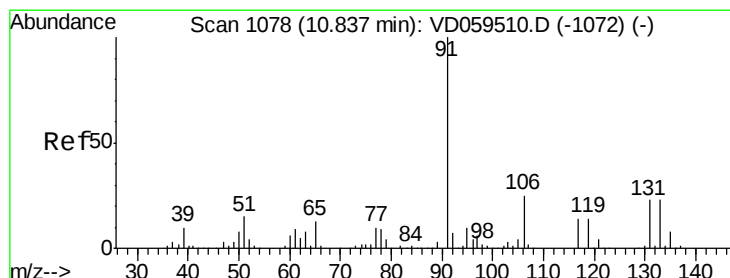
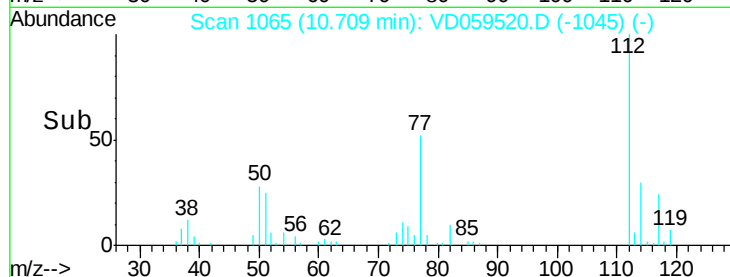
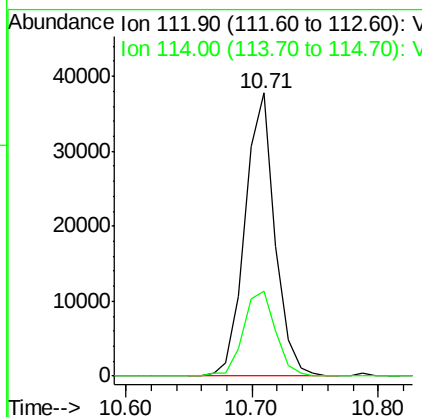
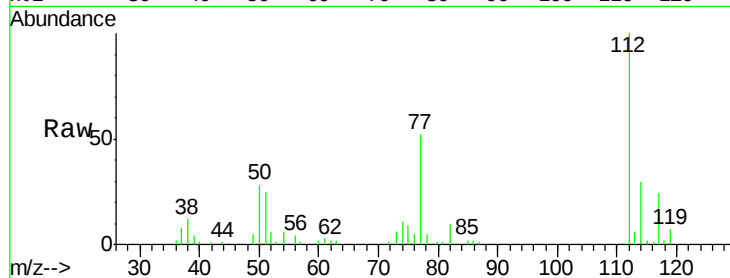
#65
Chlorobenzene
Concen: 4.22 ug/l
RT: 10.71 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

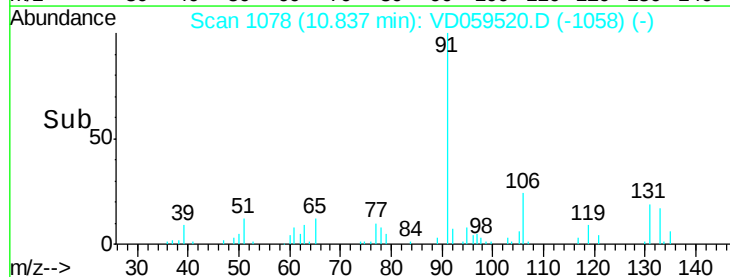
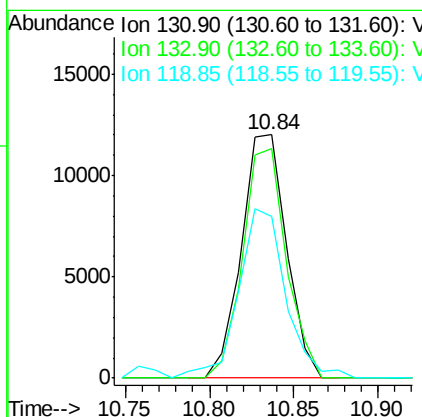
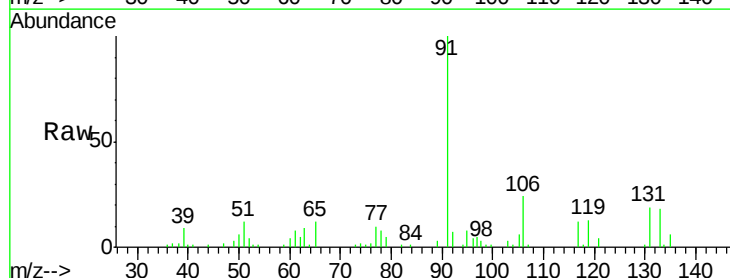
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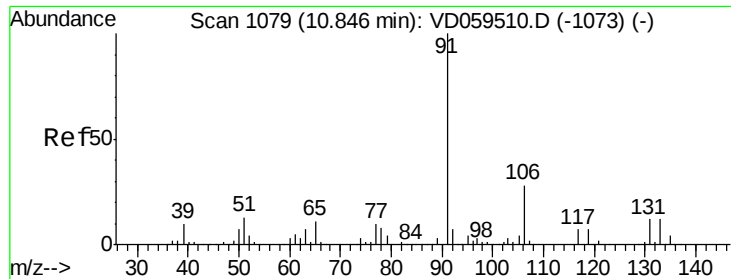
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 3.72 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





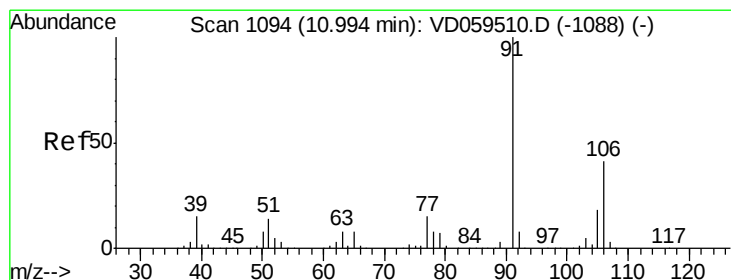
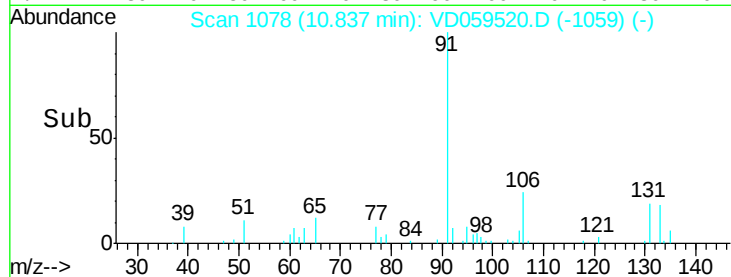
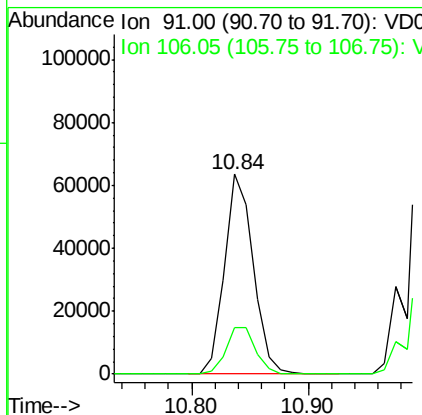
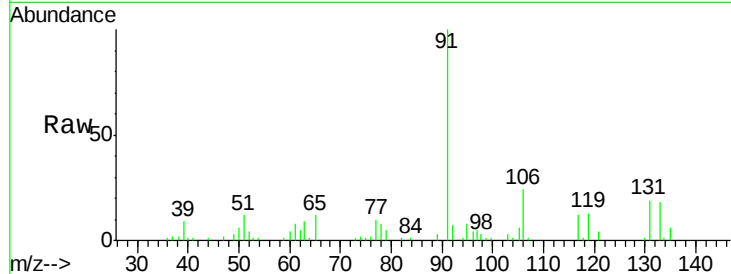
#67
Ethyl Benzene
Concen: 4.18 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

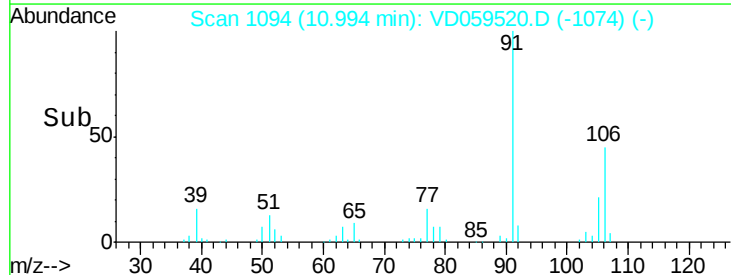
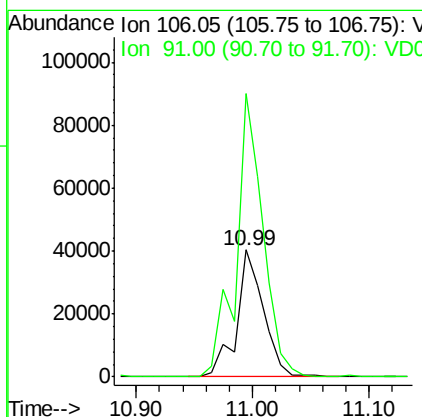
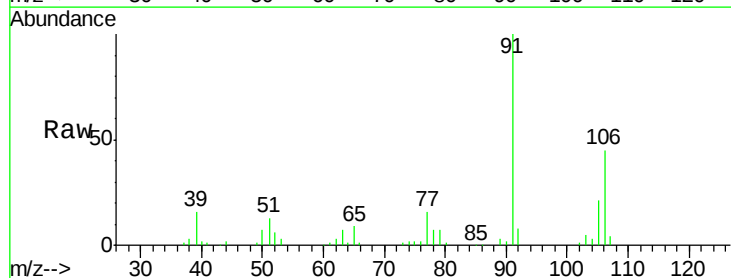
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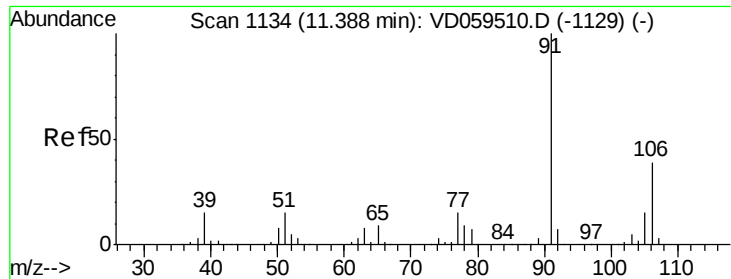
apatel
7/3/2018 10:28:20 AM



#68
m/p-Xylenes
Concen: 7.50 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





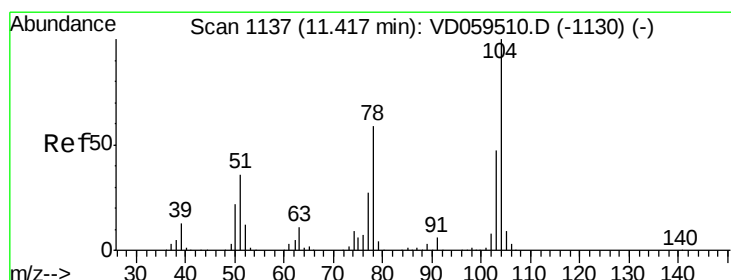
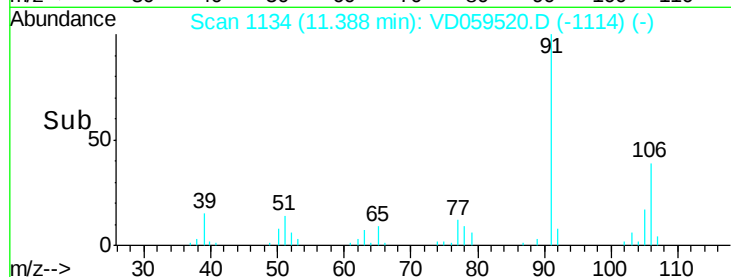
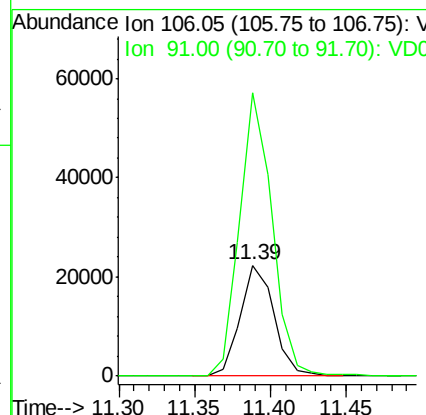
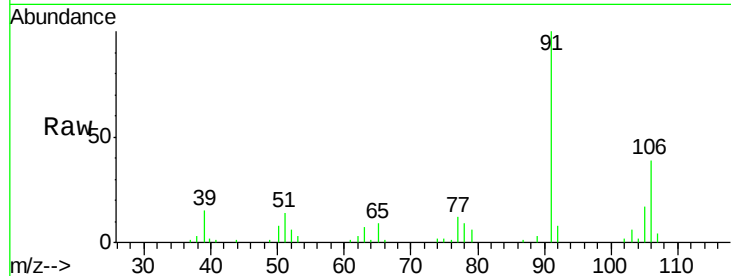
#69
o-Xylene
Concen: 4.18 ug/l
RT: 11.39 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

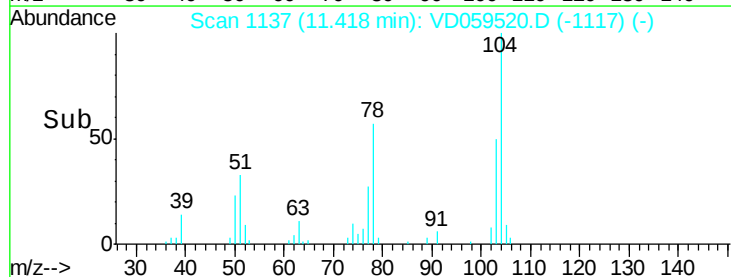
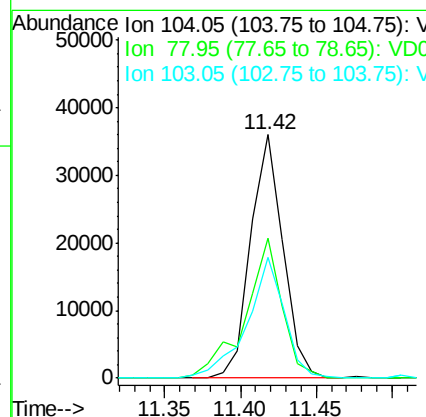
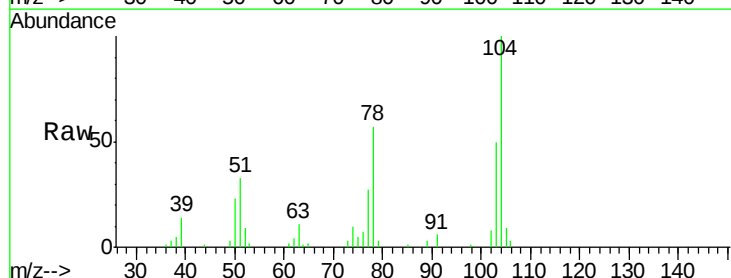
Manual Integrations
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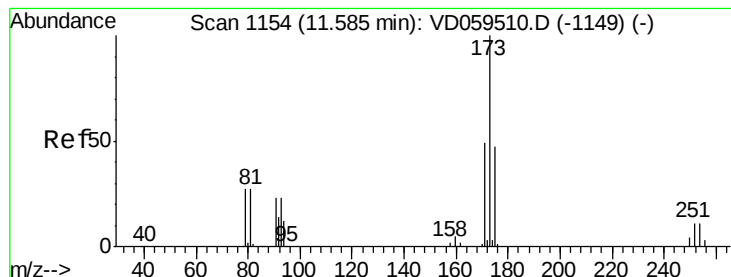
apatel
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#70
Styrene
Concen: 3.86 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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





#71

Bromoform

Concen: 2.97 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

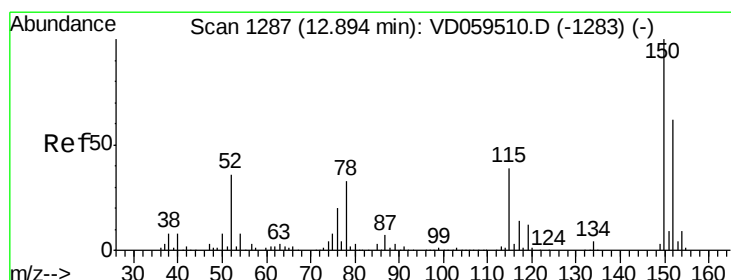
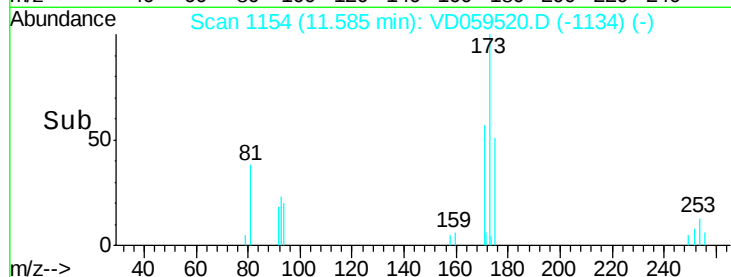
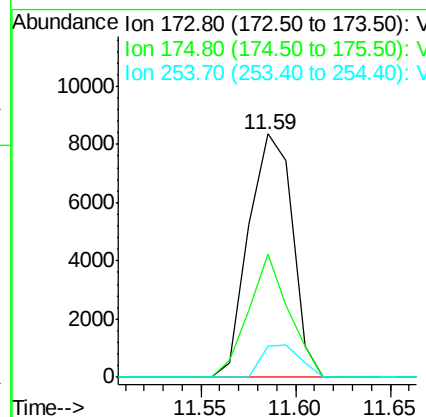
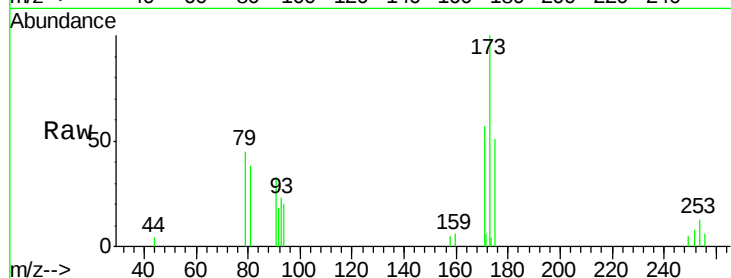
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.7	23.3	69.8
254	12.8	9.0	13.6

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#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

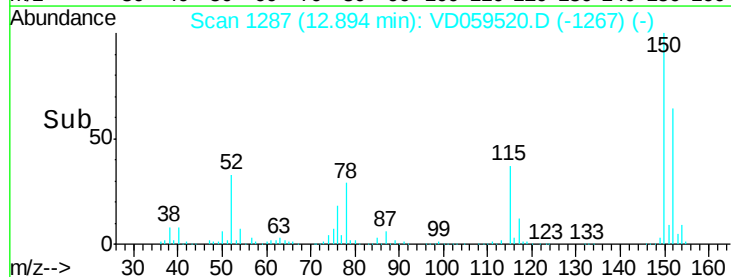
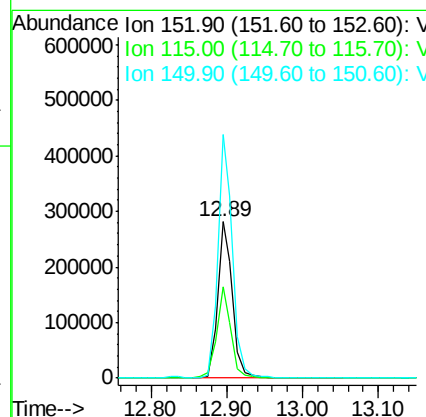
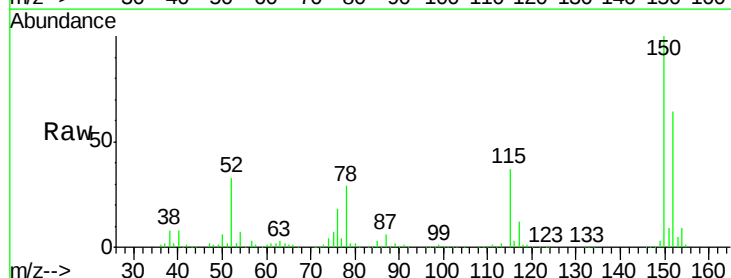
RT: 12.89 min Scan# 1287

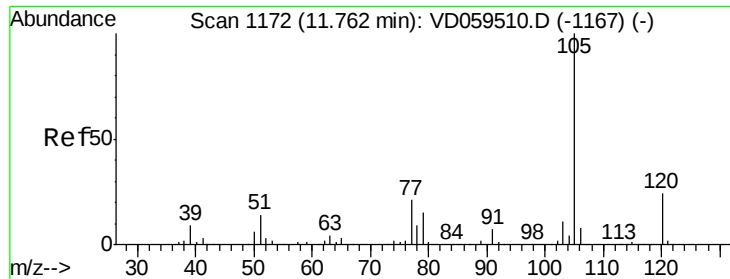
Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	31.3	93.9
150	156.0	0.0	323.6





#73

Isopropylbenzene

Concen: 4.30 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

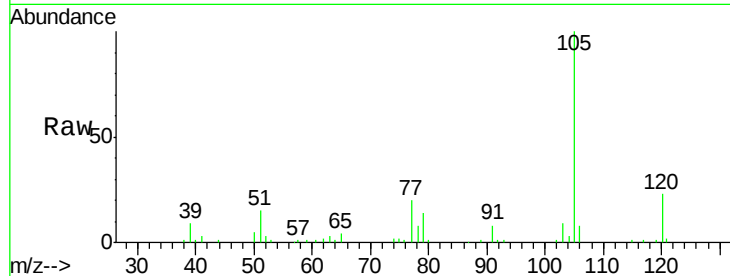
105 100

120 23.3 12.1 36.3

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.76

80000

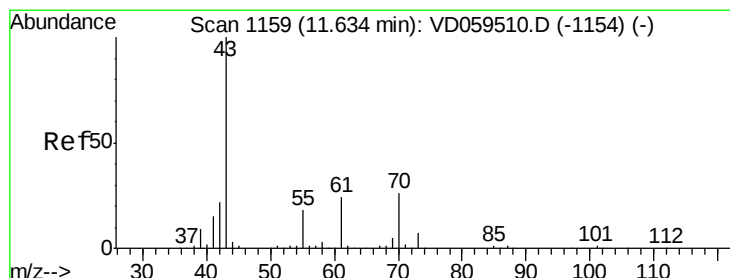
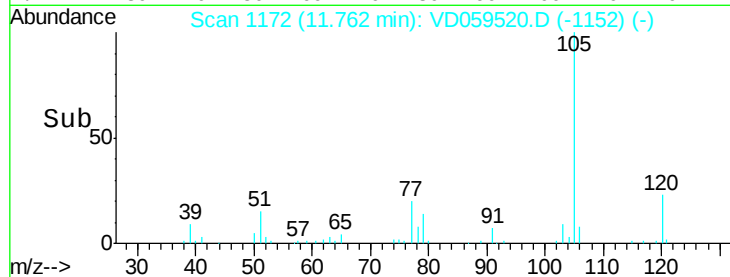
60000

40000

20000

0

Time-->



#74

N-ethyl acetate

Concen: 3.43 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

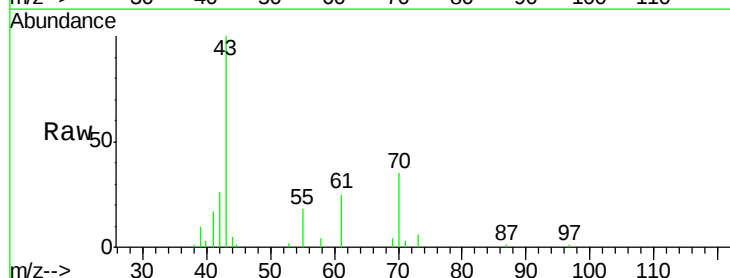
Ion Ratio Lower Upper

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): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

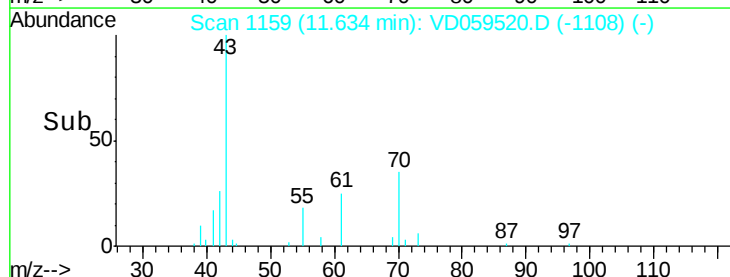
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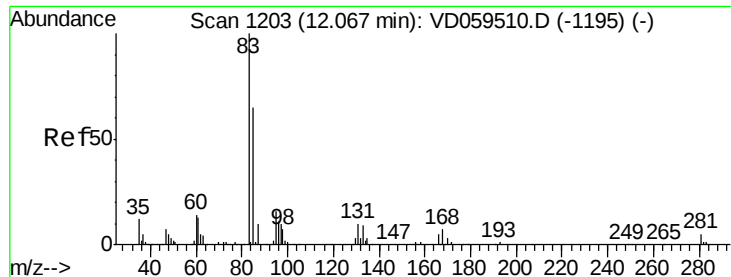
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 3.83 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

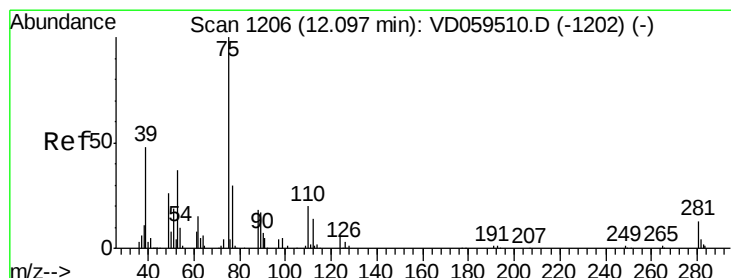
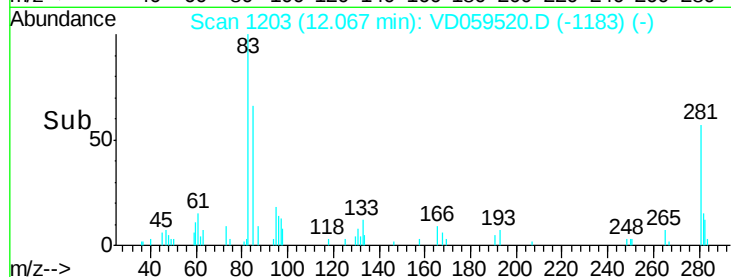
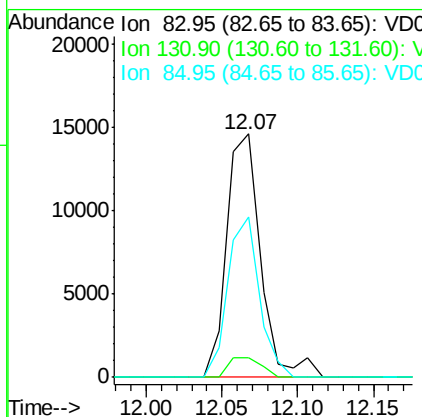
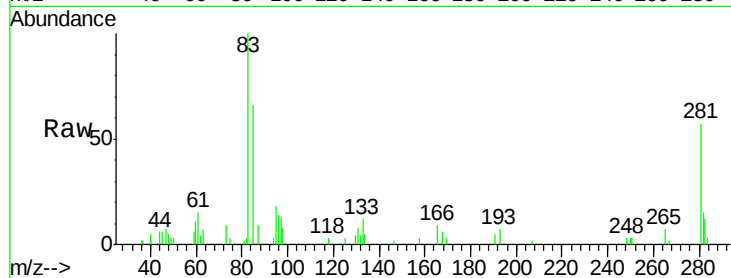
ClientSampleId :

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

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 3.83 ug/l

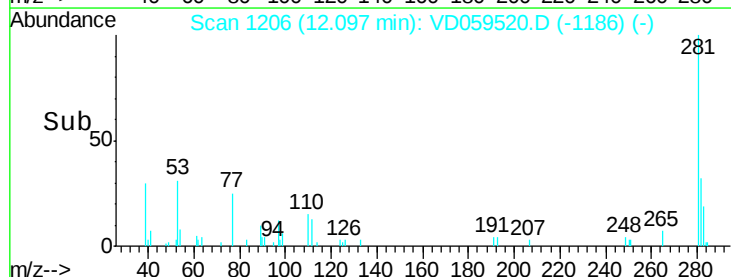
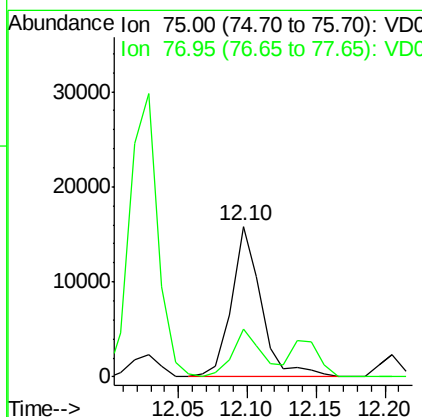
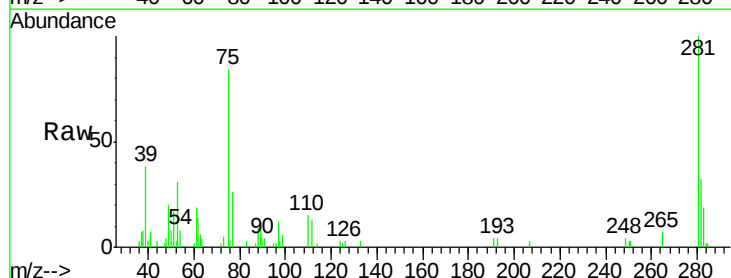
RT: 12.10 min Scan# 1206

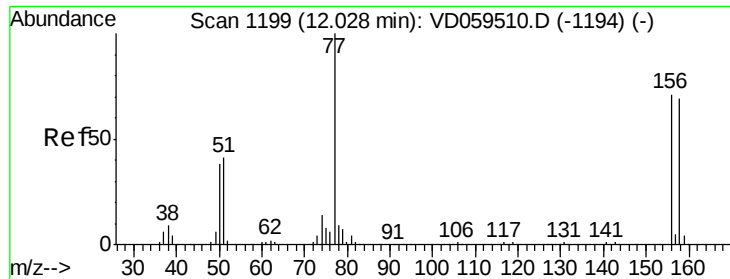
Delta R.T. 0.00 min

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





#77

Bromobenzene

Concen: 3.86 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

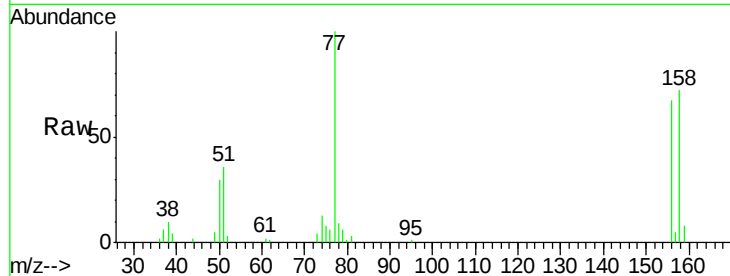
77 149.5 70.0 210.0

158 107.0 48.3 144.9

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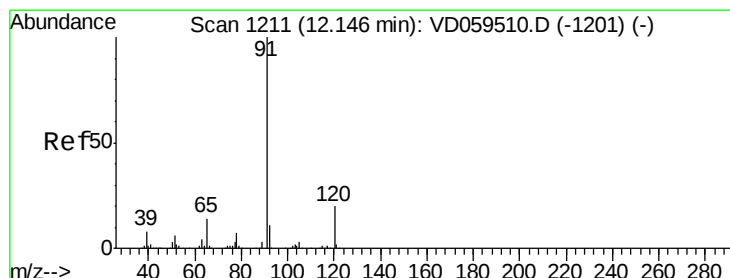
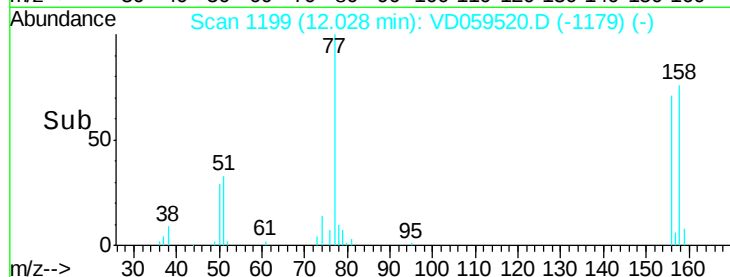
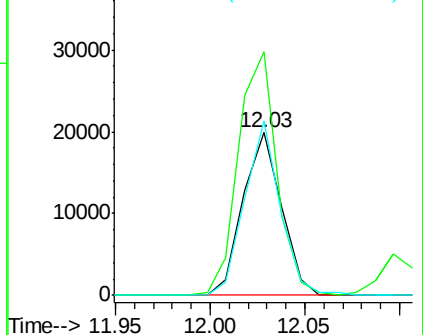
7/3/2018 10:28:20 AM



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: 4.17 ug/l

RT: 12.14 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059520.D

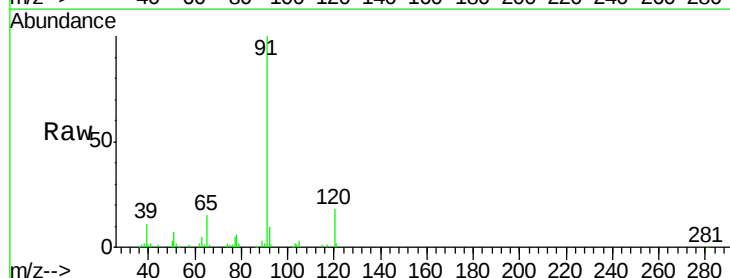
Acq: 3 Jul 2018 00:15

Tgt Ion: 91 Resp: 128393

Ion Ratio Lower Upper

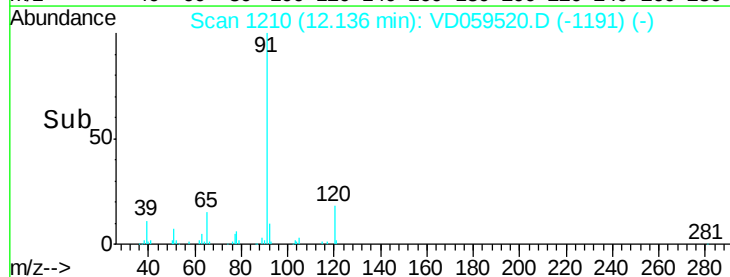
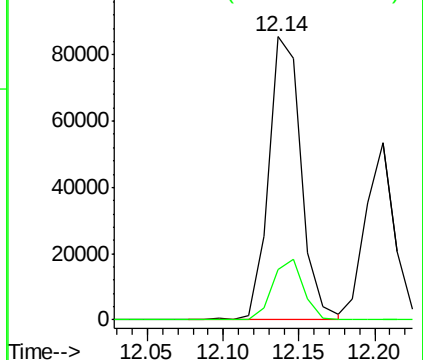
91 100

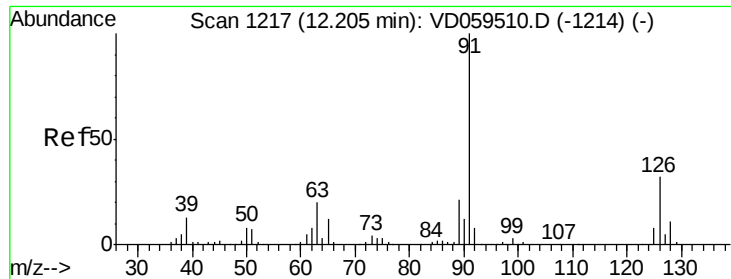
120 17.6 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





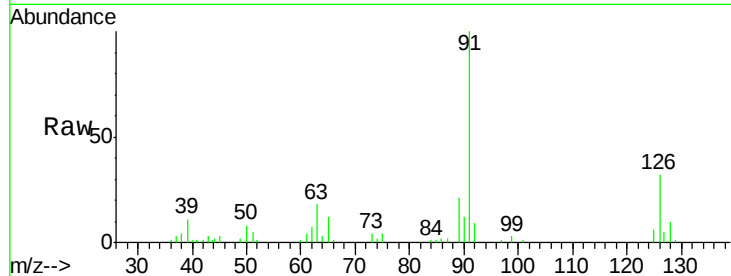
#79
 2-Chlorotoluene
 Concen: 3.93 ug/l
 RT: 12.21 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

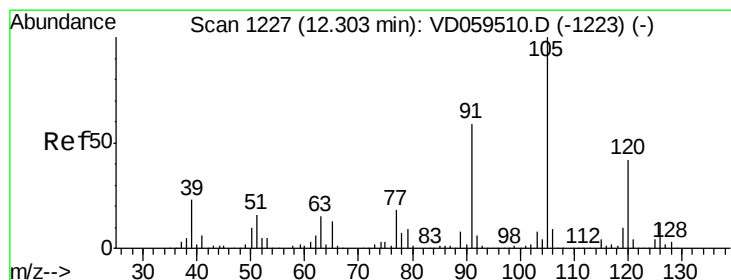
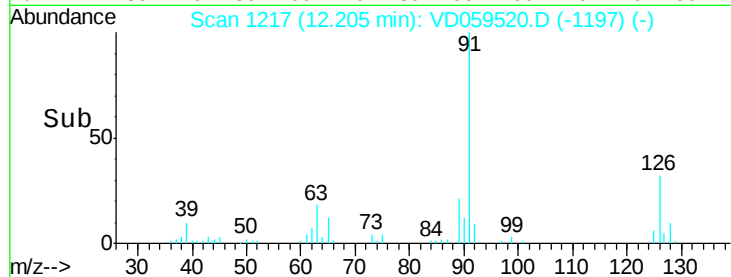
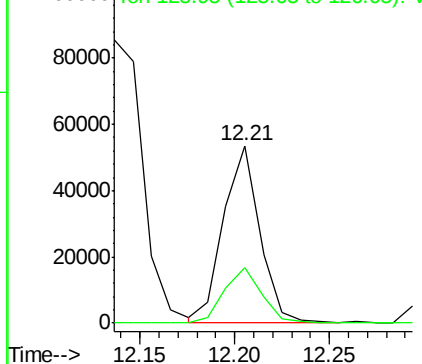
Tot Ion: 91 Resp: 71183
 Ion Ratio Lower Upper
 91 100
 126 31.5 15.9 47.6

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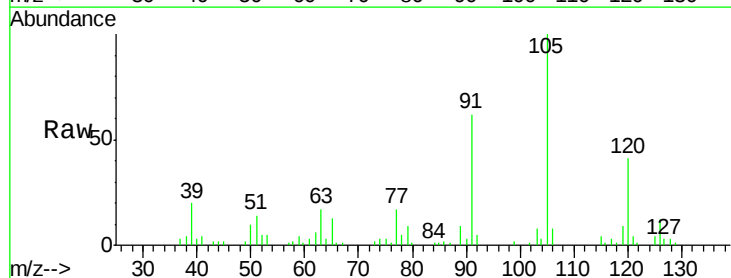


Abundance Ion 91.00 (90.70 to 91.70): VD059510.D (-1214) (-)
 Ion 125.95 (125.65 to 126.65): VD059510.D (-1214) (-)

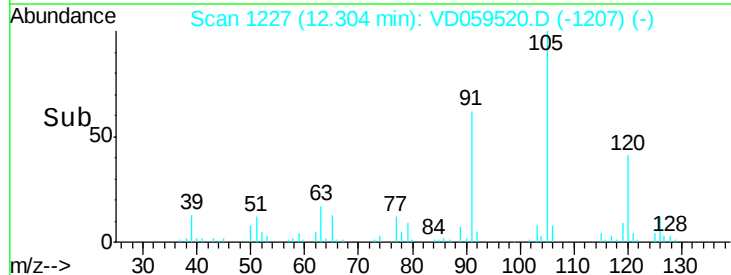
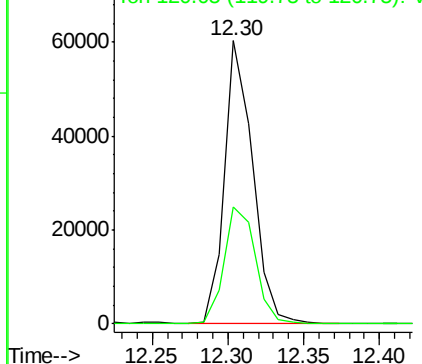


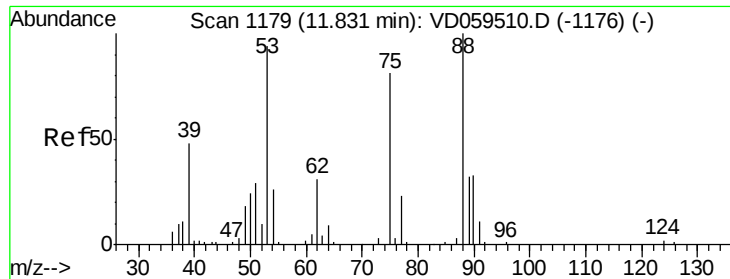
#80
 1,3,5-Trimethylbenzene
 Concen: 4.18 ug/l
 RT: 12.30 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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) (-)





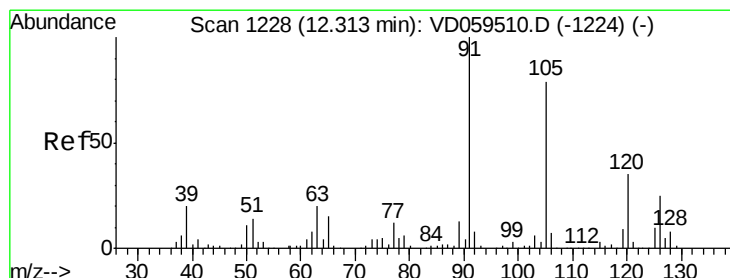
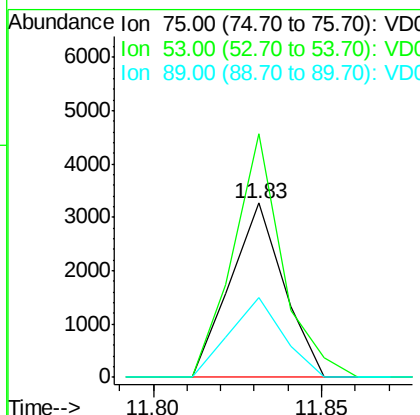
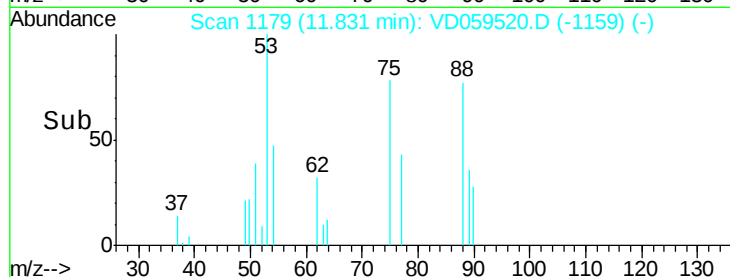
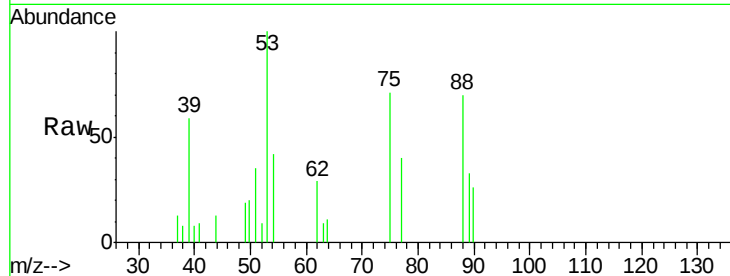
#81
trans-1,4-Dichloro-2-butene
Concen: 4.14 ug/l m
RT: 11.83 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

Tot Ion: 75 Resp: 3626
Ion Ratio Lower Upper
75 100
53 139.9 92.6 139.0#
89 45.8 31.5 47.3

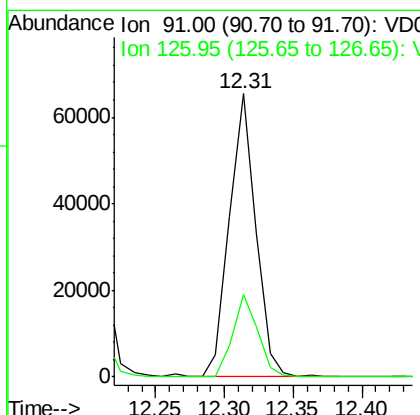
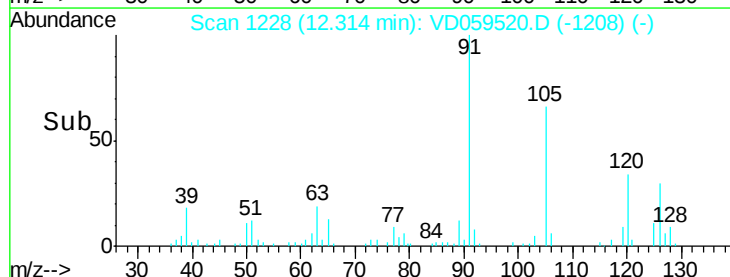
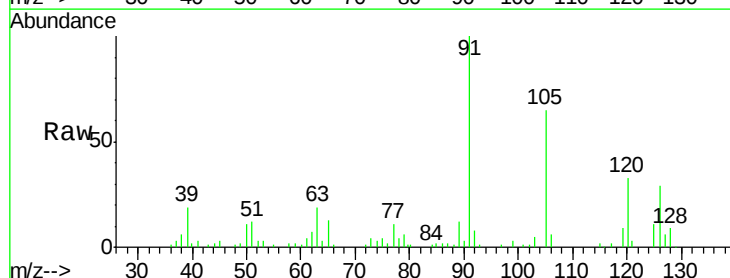
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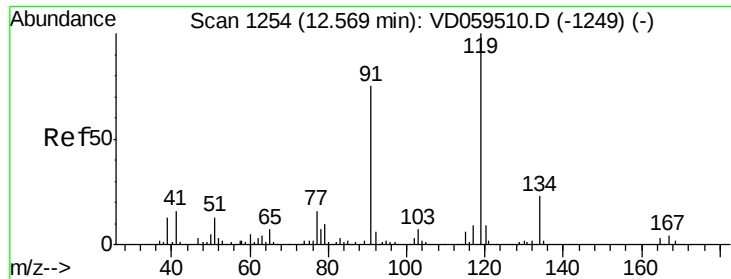
apatel
7/3/2018 10:28:20 AM



#82
4-Chlorotoluene
Concen: 4.25 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





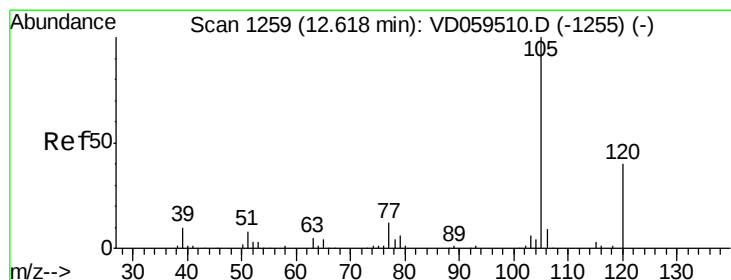
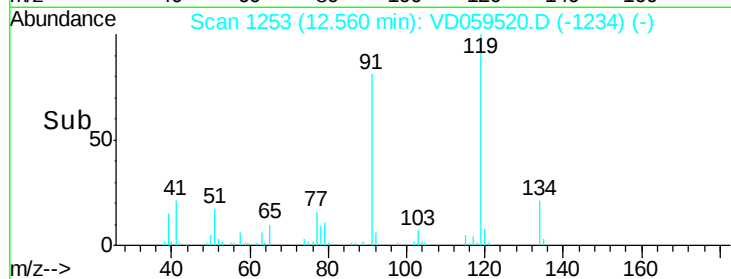
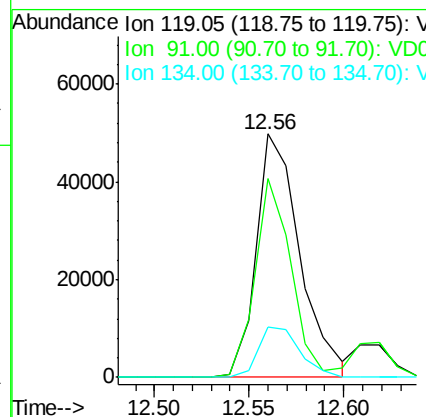
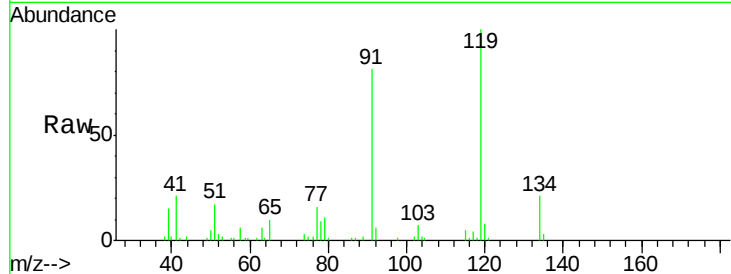
#83
 tert-Butylbenzene
 Concen: 3.75 ug/l
 RT: 12.56 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

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

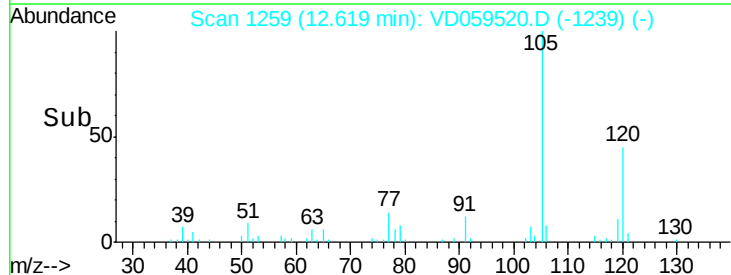
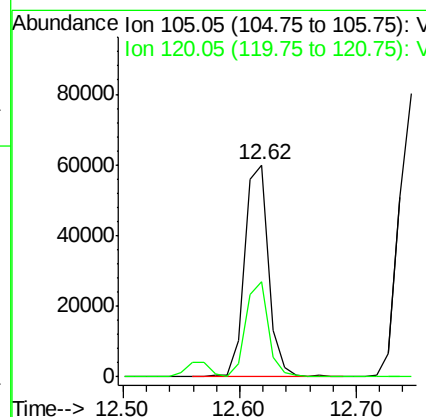
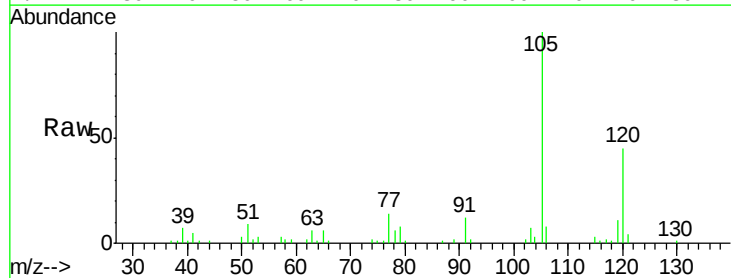
Manual Integrations
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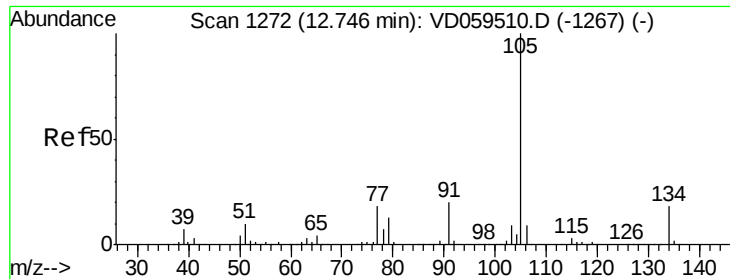
apatel
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#84
 1,2,4-Trimethylbenzene
 Concen: 4.23 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.1	63.3





#85

sec-Butylbenzene

Concen: 4.20 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

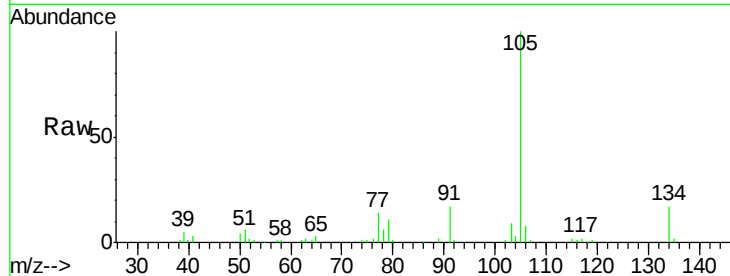
105 100

134 16.7 8.8 26.4

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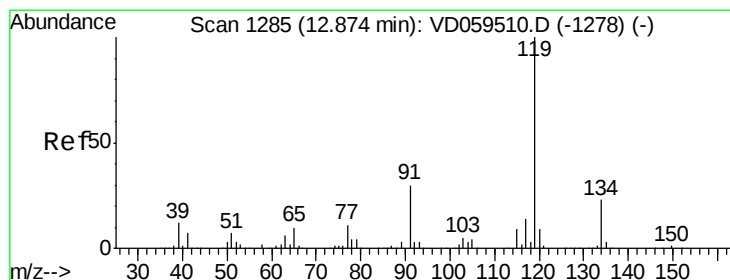
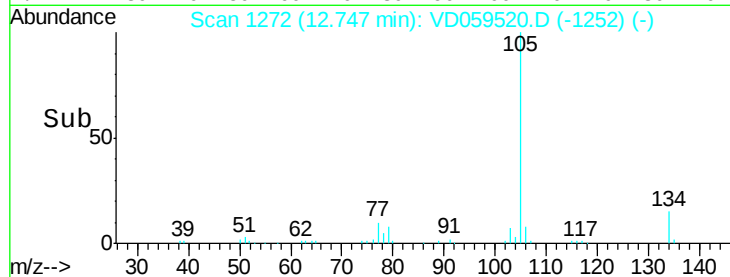
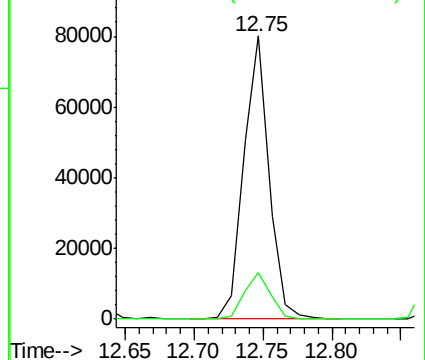
apatel

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 4.18 ug/l

RT: 12.87 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD059520.D

Acq: 3 Jul 2018 00:15

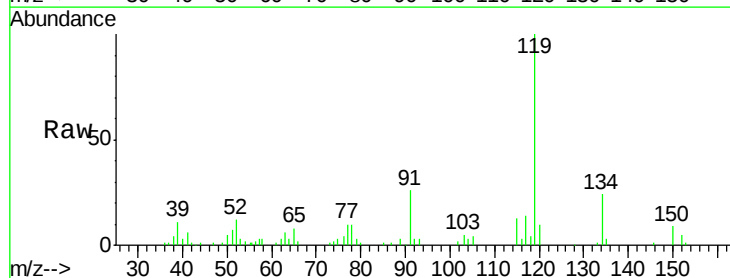
Tgt Ion:119 Resp: 85631

Ion Ratio Lower Upper

119 100

134 23.8 11.6 34.8

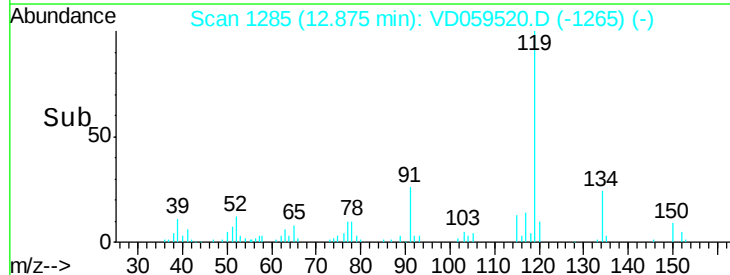
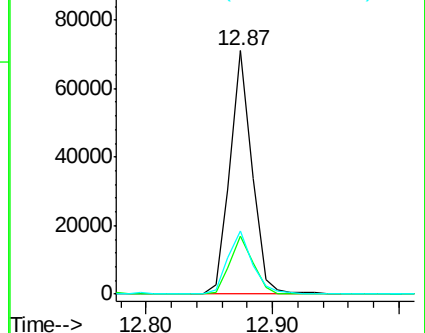
91 26.1 15.3 45.8

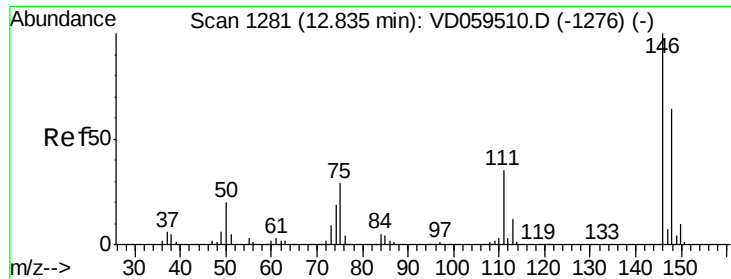


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 4.20 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

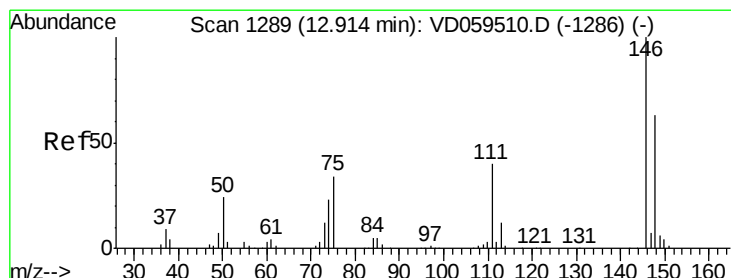
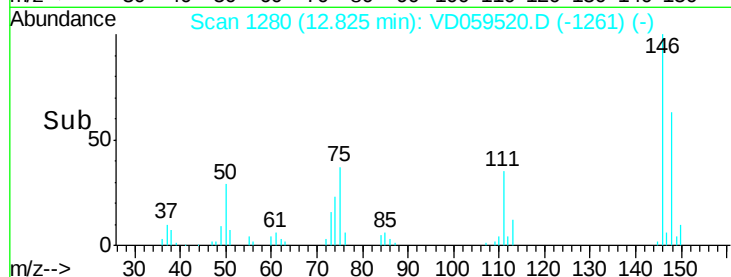
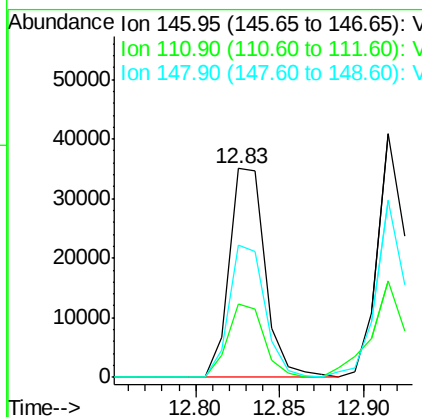
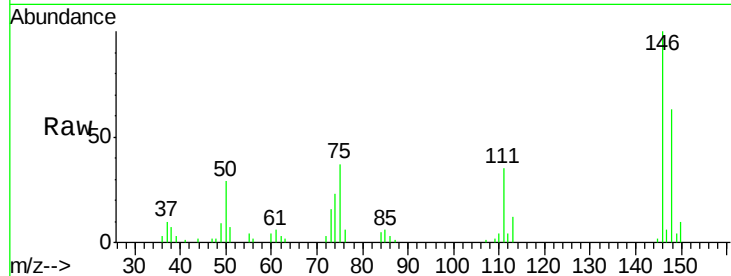
ClientSampleId :

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

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 4.04 ug/l

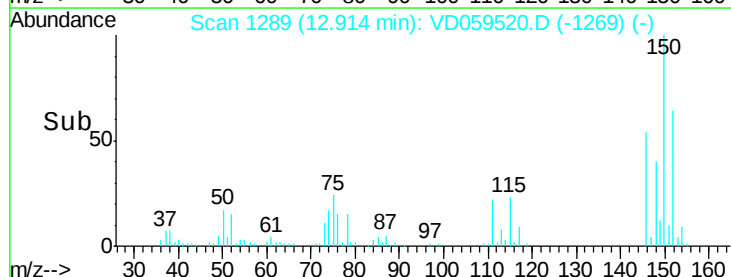
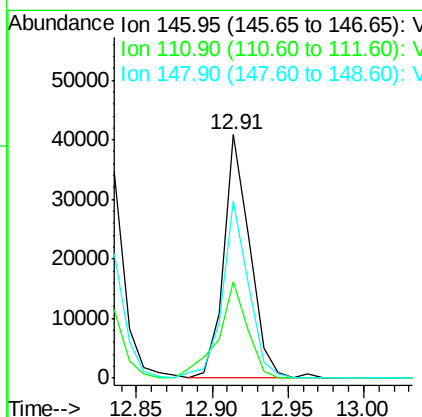
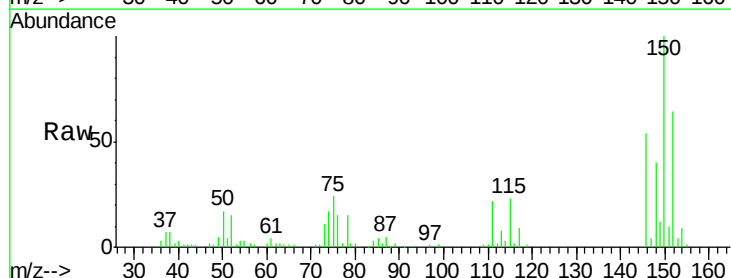
RT: 12.91 min Scan# 1289

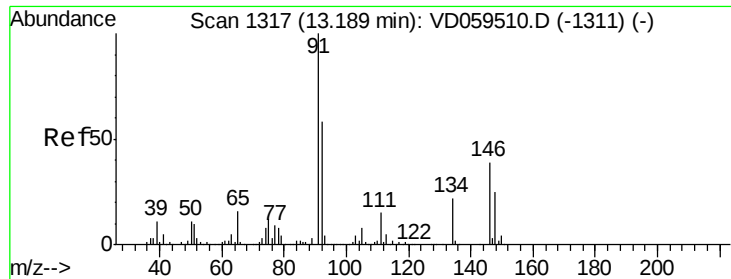
Delta R.T. 0.00 min

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





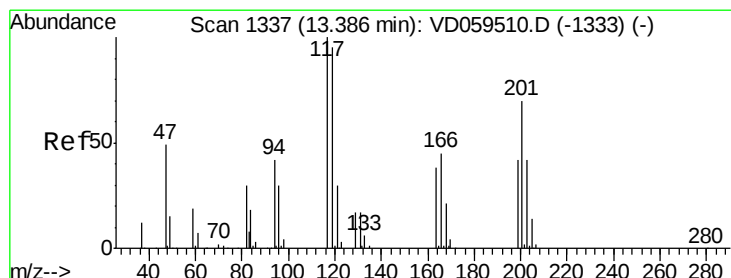
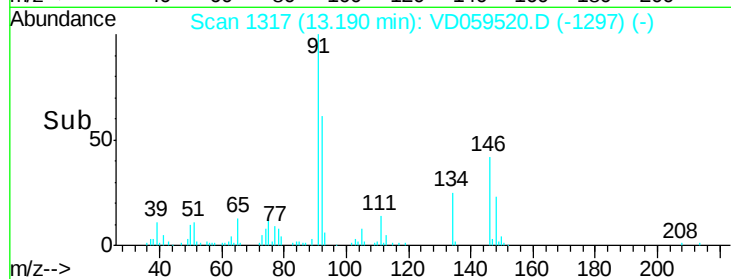
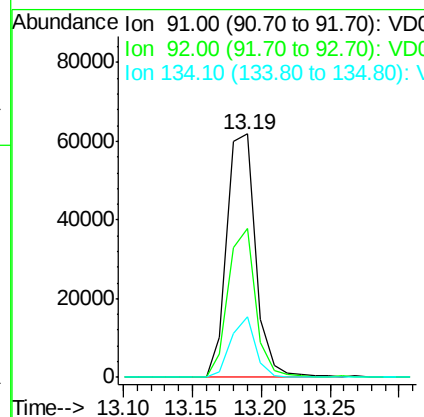
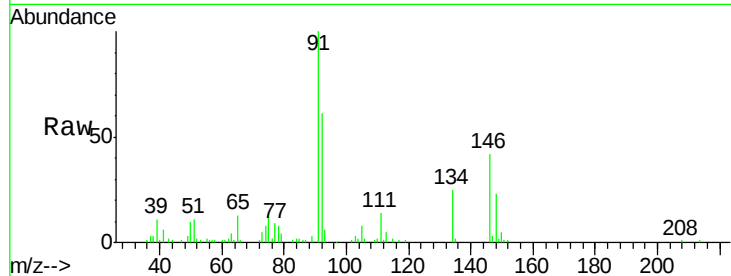
#89
n-Butylbenzene
Concen: 4.32 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

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

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

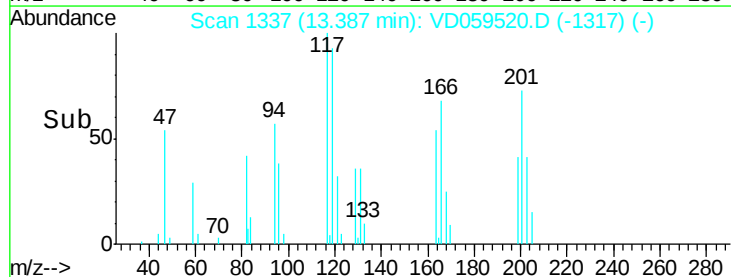
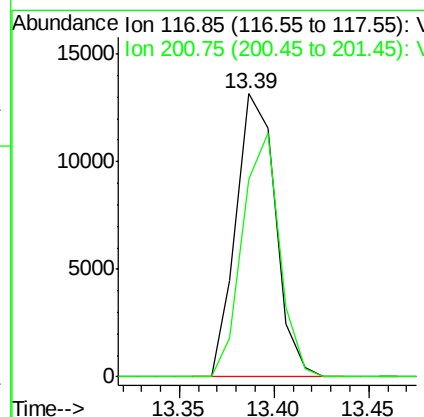
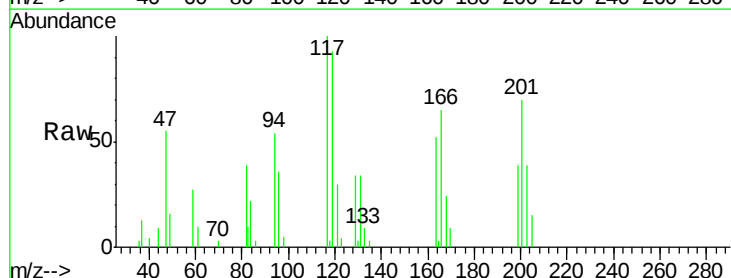
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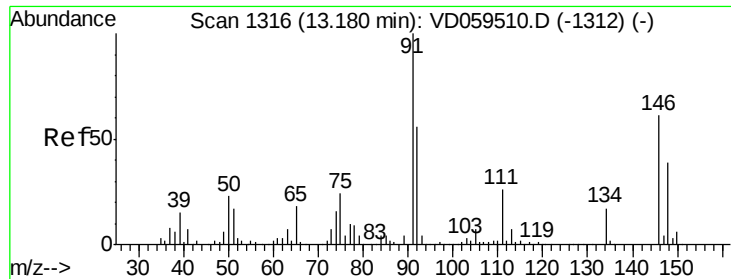
apatel
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#90
Hexachloroethane
Concen: 3.57 ug/l
RT: 13.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VD059520.D
Acq: 3 Jul 2018 00:15

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.8	35.2	105.6





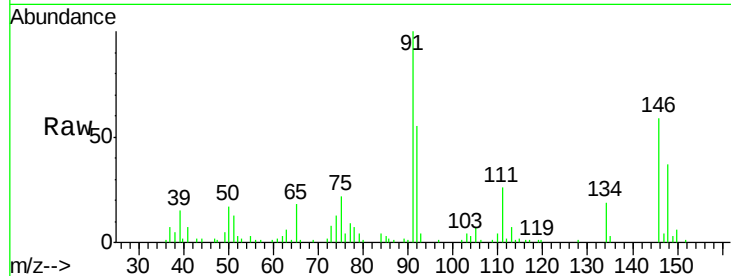
#91
 1,2-Dichlorobenzene
 Concen: 4.43 ug/l
 RT: 13.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

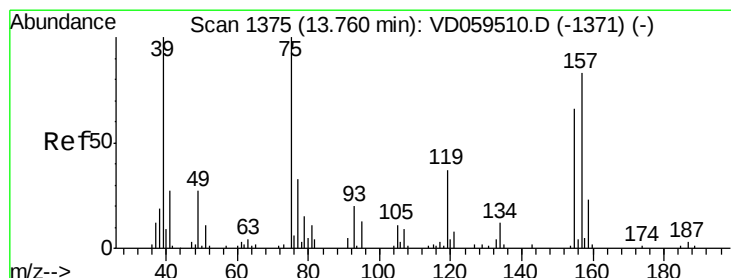
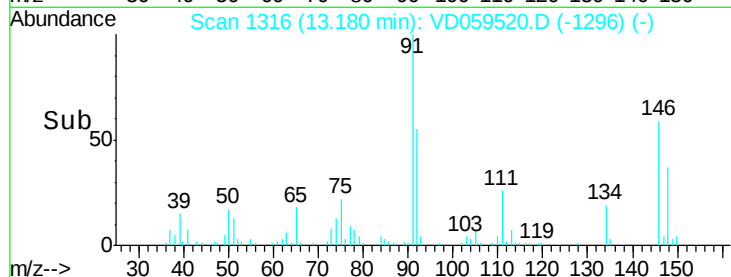
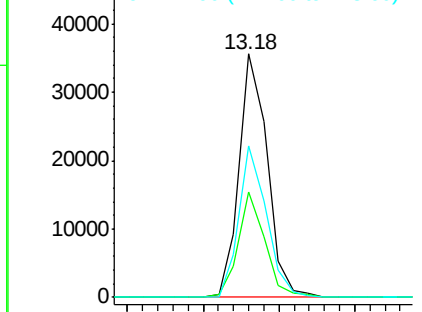
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.3	63.9
148	62.2	32.4	97.0

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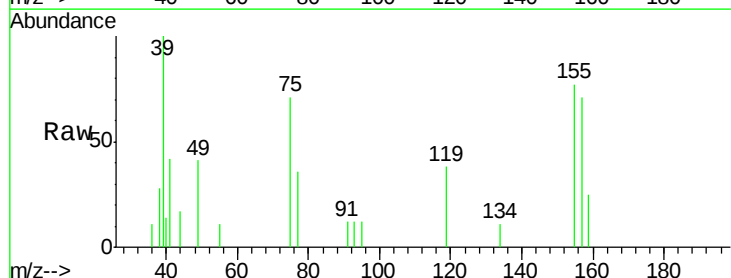


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

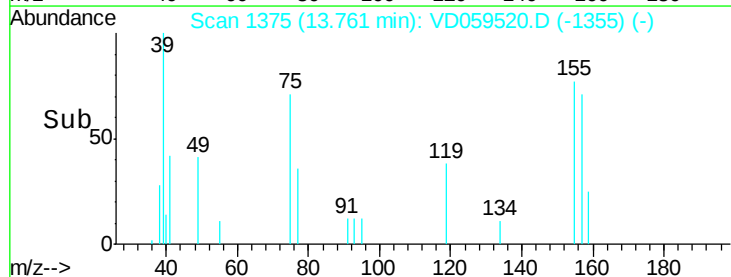
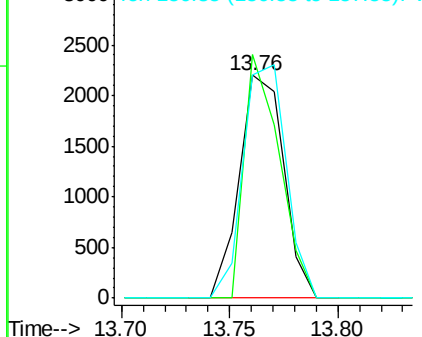


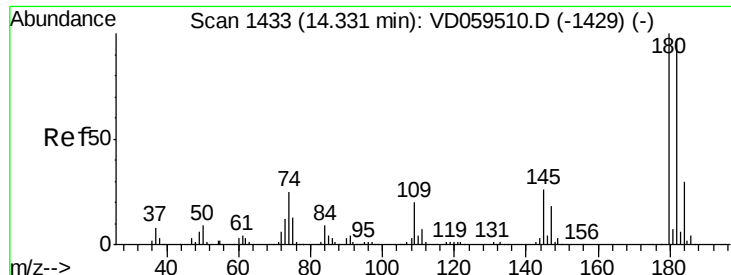
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.05 ug/l
 RT: 13.76 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

Tgt Ion	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





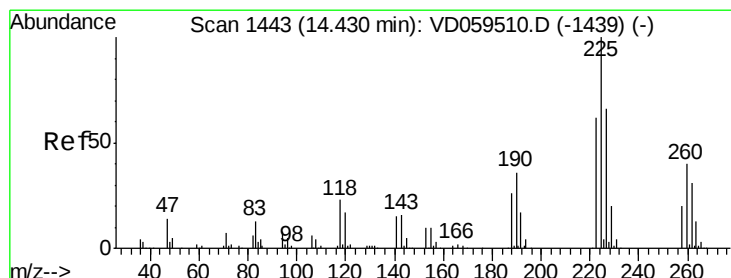
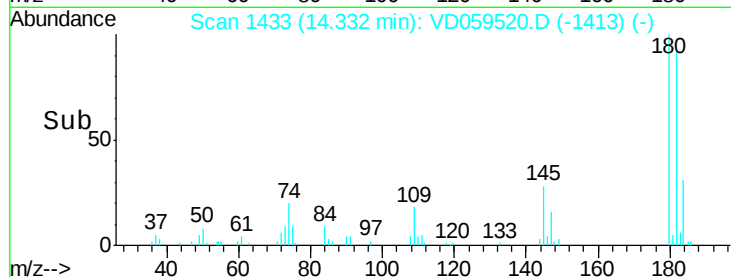
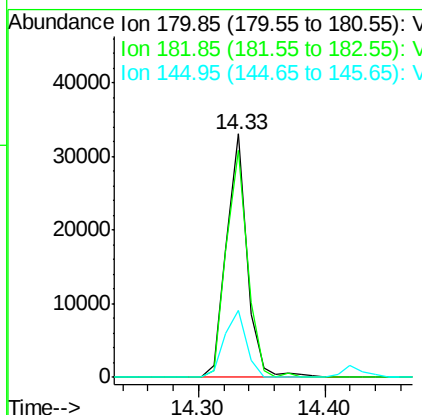
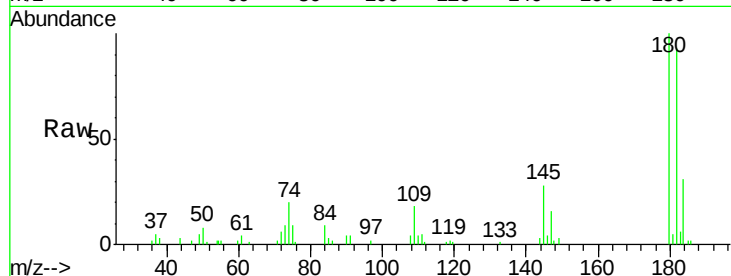
#93
 1,2,4-Trichlorobenzene
 Concen: 4.08 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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

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

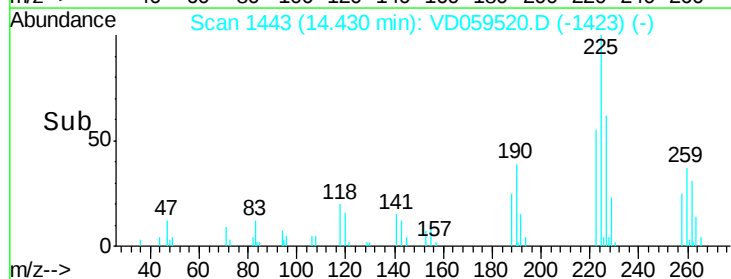
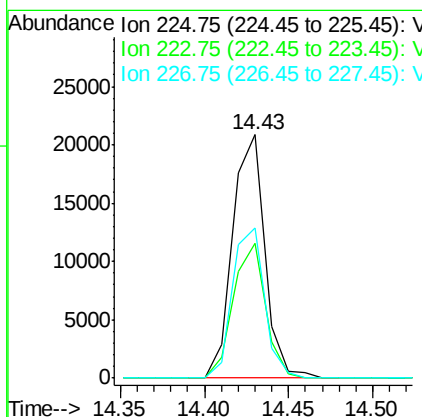
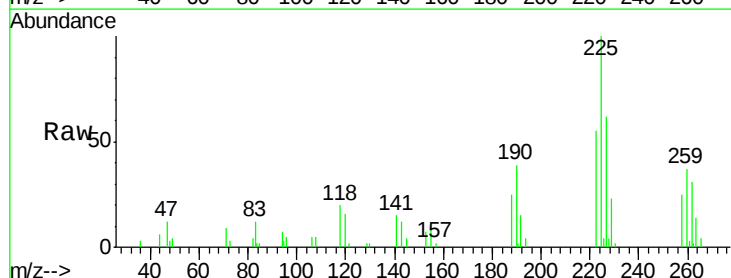
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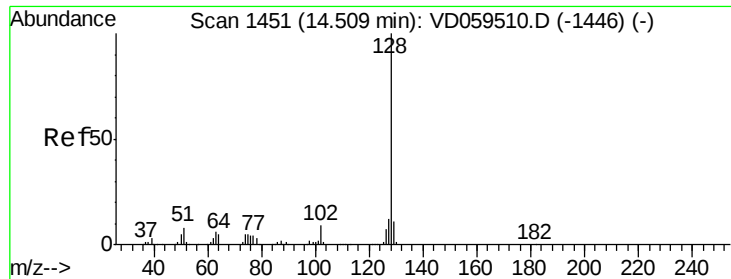
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#94
 Hexachlorobutadiene
 Concen: 3.93 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. 0.00 min
 Lab File: VD059520.D
 Acq: 3 Jul 2018 00:15

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





#95

Naphthalene

Concen: 3.69 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

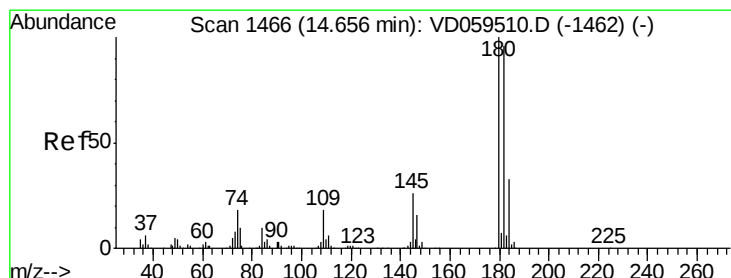
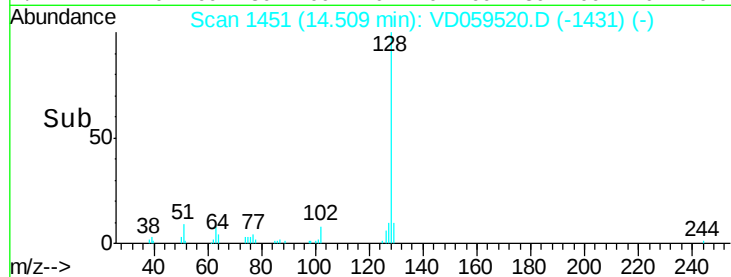
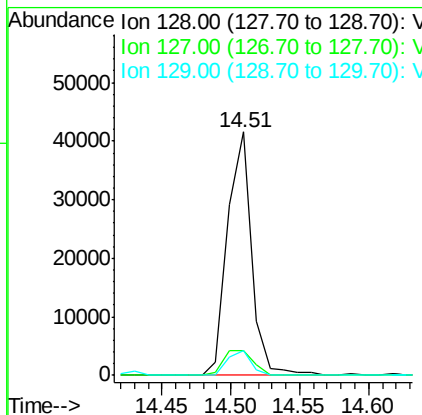
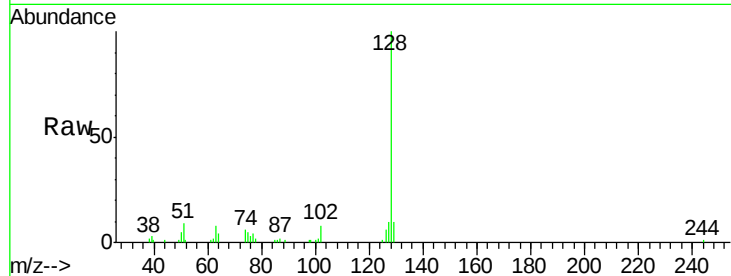
ClientSampleId :

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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

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#96

1,2,3-Trichlorobenzene

Concen: 3.95 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

