

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050820\
 Data File : VD065721.D
 Acq On : 08 May 2020 13:23
 Operator : VA/SY
 Sample : L2182-03 2.5PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Quant Time: May 09 04:20:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050620S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 17:01:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	383698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	570753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	507283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	245309	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	167535	43.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.18%	
35) Dibromofluoromethane	7.92	113	172481	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
50) Toluene-d8	10.34	98	669266	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.64	95	225835	46.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.00%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.99	85	7916	2.630	ug/l	94
3) Chloromethane	2.21	50	11747	3.095	ug/l	95
4) Vinyl Chloride	2.35	62	11307	2.940	ug/l	95
5) Bromomethane	2.78	94	8439	3.477	ug/l	81
6) Chloroethane	2.93	64	7899	3.198	ug/l	96
7) Trichlorofluoromethane	3.27	101	17208	2.805	ug/l	91
8) Diethyl Ether	3.71	74	4985	2.594	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	4.10	101	10566	2.837	ug/l	98
10) Methyl Iodide	4.30	142	8870	2.428	ug/l	96
11) Tert butyl alcohol	5.21	59	4074m	11.896	ug/l	
12) 1,1-Dichloroethene	4.06	96	10549	2.882	ug/l	84
13) Acrolein	3.92	56	3523	11.156	ug/l	94
14) Allyl chloride	4.71	41	15881	2.177	ug/l	87
15) Acrylonitrile	5.43	53	10100	11.178	ug/l	96
16) Acetone	4.16	43	9589	11.686	ug/l	99
17) Carbon Disulfide	4.40	76	31117	2.586	ug/l	97
18) Methyl Acetate	4.72	43	6895	3.379	ug/l #	82
19) Methyl tert-butyl Ether	5.49	73	21735	2.449	ug/l #	85
20) Methylene Chloride	4.96	84	16367	3.960	ug/l	87
21) trans-1,2-Dichloroethene	5.46	96	10941m	2.611	ug/l	
22) Diisopropyl ether	6.37	45	30583	2.254	ug/l	93
23) Vinyl Acetate	6.31	43	83886	10.237	ug/l	99
24) 1,1-Dichloroethane	6.26	63	17929	2.412	ug/l	97
25) 2-Butanone	7.22	43	15196	12.485	ug/l	91
26) 2,2-Dichloropropane	7.21	77	17334	2.590	ug/l	96
27) cis-1,2-Dichloroethene	7.21	96	11778	2.591	ug/l	94
28) Bromochloromethane	7.56	49	6298	2.032	ug/l	86
29) Tetrahydrofuran	7.57	42	9095	11.593	ug/l	97
30) Chloroform	7.71	83	18615	2.603	ug/l	96
31) Cyclohexane	7.98	56	25764	3.350	ug/l #	58
32) 1,1,1-Trichloroethane	7.91	97	16832	2.539	ug/l	97
36) 1,1-Dichloropropene	8.11	75	15877	2.801	ug/l	97
37) Ethyl Acetate	7.31	43	5801	2.125	ug/l	96
38) Carbon Tetrachloride	8.10	117	15992	2.846	ug/l #	81

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	20892	2.936	ug/l	89
40) Benzene	8.36	78	39609	2.559	ug/l	94
41) Methacrylonitrile	7.53	41	4483	2.848	ug/l #	78
42) 1,2-Dichloroethane	8.43	62	11330	2.544	ug/l	97
43) Isopropyl Acetate	8.46	43	12785	2.342	ug/l	97
44) Trichloroethene	9.11	130	12984	3.044	ug/l	91
45) 1,2-Dichloropropane	9.39	63	9683	2.419	ug/l #	87
46) Dibromomethane	9.48	93	4909	2.445	ug/l	97
47) Bromodichloromethane	9.66	83	14317	2.666	ug/l	90
48) Methyl methacrylate	9.46	41	5038	1.843	ug/l #	71
49) 1,4-Dioxane	9.47	88	1171	47.572	ug/l #	82
51) 4-Methyl-2-Pentanone	10.23	43	28307	10.761	ug/l	93
52) Toluene	10.40	92	26219	2.678	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	12410	2.282	ug/l	91
54) cis-1,3-Dichloropropene	10.09	75	16405	2.560	ug/l	90
55) 1,1,2-Trichloroethane	10.80	97	7471	2.760	ug/l #	88
56) Ethyl methacrylate	10.67	69	9323	2.385	ug/l	96
57) 1,3-Dichloropropane	10.95	76	11651	2.394	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.94	63	21356	11.901	ug/l	99
59) 2-Hexanone	10.98	43	21027	11.622	ug/l	96
60) Dibromochloromethane	11.14	129	9292	2.555	ug/l	98
61) 1,2-Dibromoethane	11.25	107	6780	2.489	ug/l	94
64) Tetrachloroethene	10.88	164	10664	2.954	ug/l	94
65) Chlorobenzene	11.67	112	27718	2.712	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	9511	2.496	ug/l	93
67) Ethyl Benzene	11.75	91	50253	2.636	ug/l	99
68) m/p-Xylenes	11.86	106	37946	5.338	ug/l	100
69) o-Xylene	12.18	106	17071	2.574	ug/l	100
70) Styrene	12.20	104	29641	2.599	ug/l	98
71) Bromoform	12.37	173	5514	2.572	ug/l #	99
73) Isopropylbenzene	12.48	105	50123	2.697	ug/l	97
74) N-amyl acetate	12.30	43	11171	2.105	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	12.74	83	7751	2.487	ug/l	95
76) 1,2,3-Trichloropropane	12.79	75	3641m	1.757	ug/l	
77) Bromobenzene	12.77	156	12463	2.924	ug/l	86
78) n-propylbenzene	12.83	91	57218	2.614	ug/l	96
79) 2-Chlorotoluene	12.91	91	32071	2.594	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	40423	2.649	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.54	75	2361m	2.017	ug/l	
82) 4-Chlorotoluene	13.01	91	32167	2.486	ug/l	93
83) tert-Butylbenzene	13.23	119	38012	2.927	ug/l	93
84) 1,2,4-Trimethylbenzene	13.27	105	39050	2.569	ug/l	97
85) sec-Butylbenzene	13.41	105	48352	2.654	ug/l	98
86) p-Isopropyltoluene	13.53	119	44270	2.666	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	22314	2.786	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	22702	2.872	ug/l	90
89) n-Butylbenzene	13.85	91	41163	2.559	ug/l	97
90) Hexachloroethane	14.11	117	8638	2.612	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	18597	2.690	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1354	2.585	ug/l	91

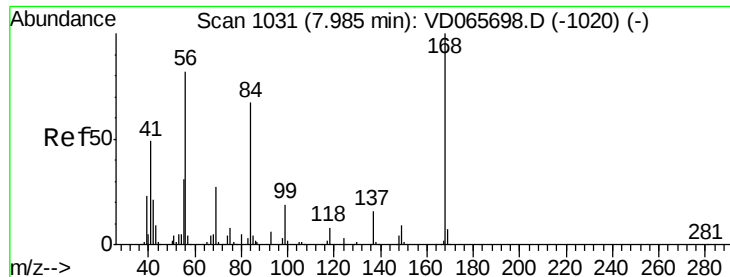
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	15012	2.895	ug/l	94
94) Hexachlorobutadiene	15.27	225	9322	3.101	ug/l	97
95) Naphthalene	15.41	128	25875	2.838	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	13769	3.121	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

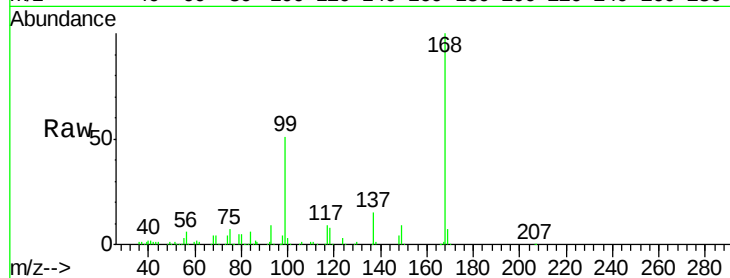
MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 383698

Ion Ratio Lower Upper

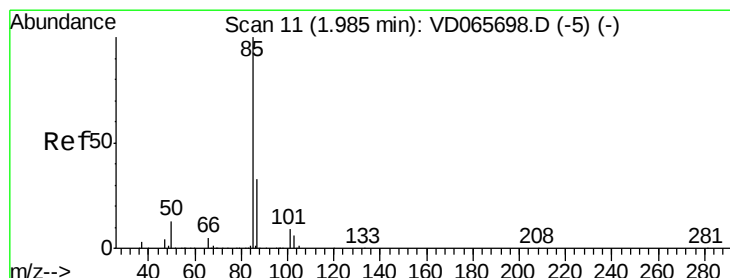
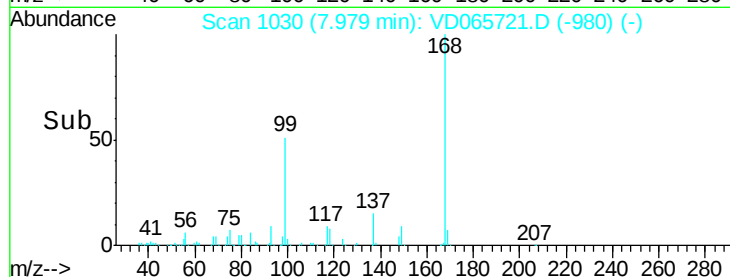
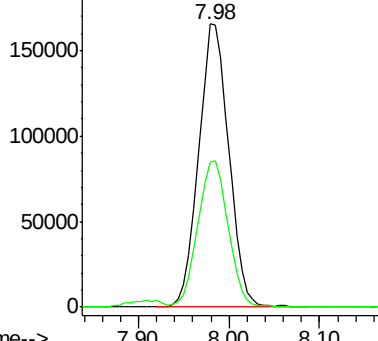
168 100

99 51.3 44.2 66.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.630 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD065721.D

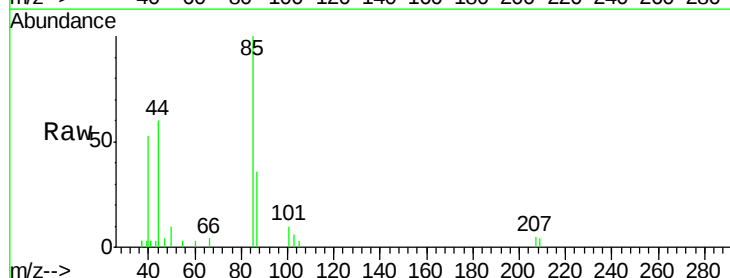
Acq: 08 May 2020 13:23

Tgt Ion: 85 Resp: 7916

Ion Ratio Lower Upper

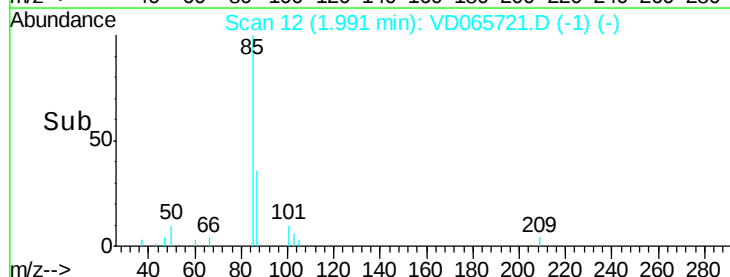
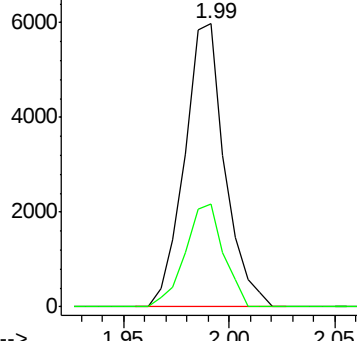
85 100

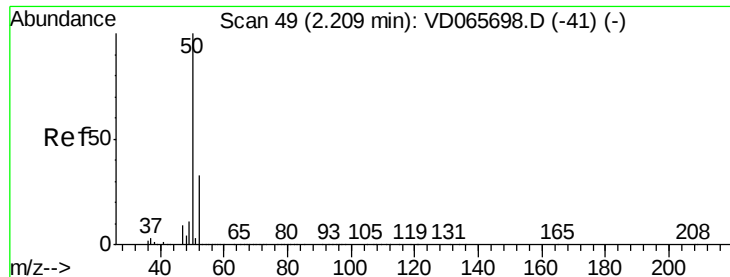
87 36.2 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 3.095 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

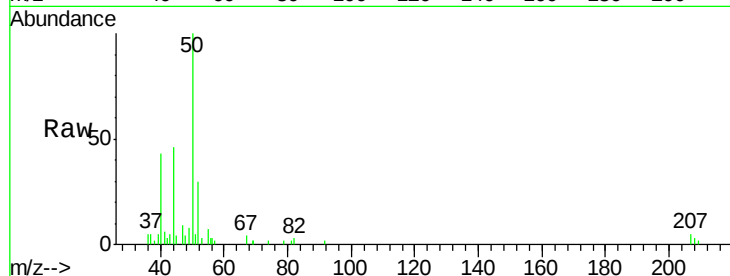
MDL-SOIL-03-QT2-2020DL

Tot Ion: 50 Resp: 11747

Ion Ratio Lower Upper

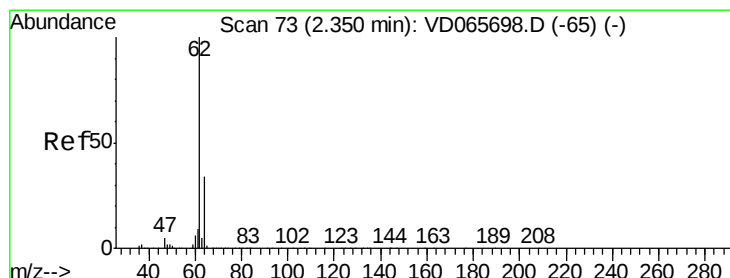
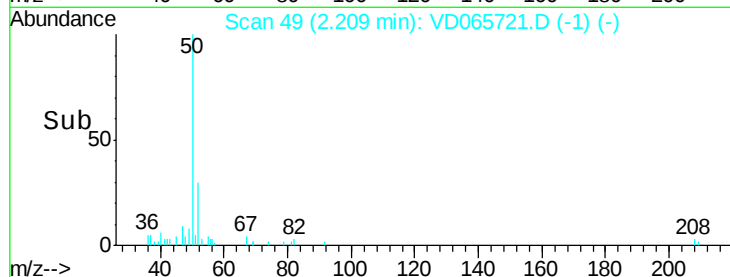
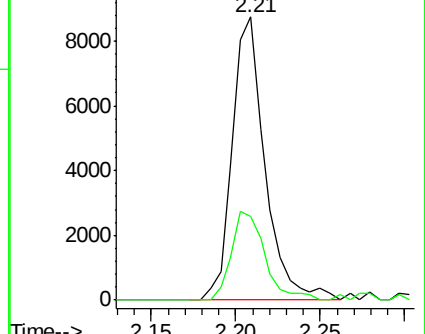
50 100

52 29.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.940 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065721.D

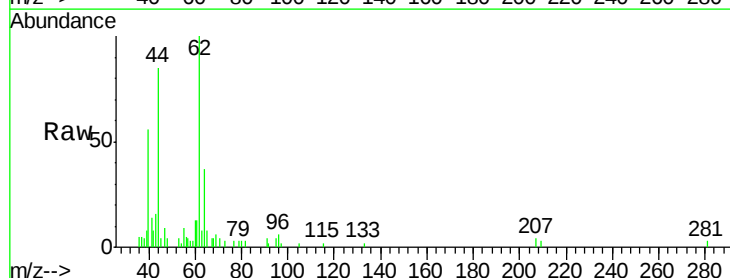
Acq: 08 May 2020 13:23

Tgt Ion: 62 Resp: 11307

Ion Ratio Lower Upper

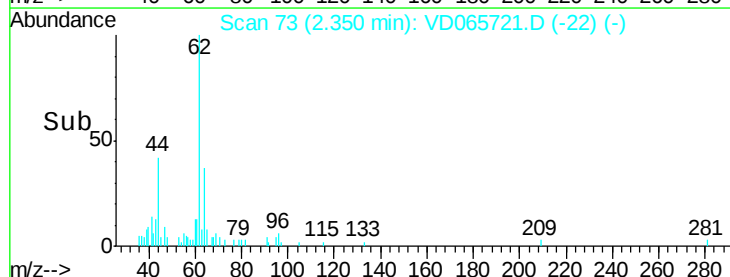
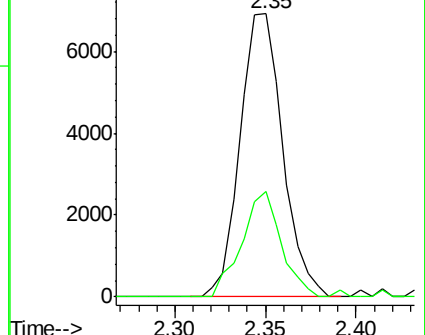
62 100

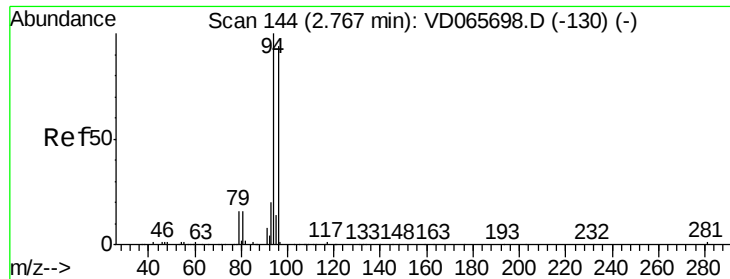
64 37.1 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 3.477 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

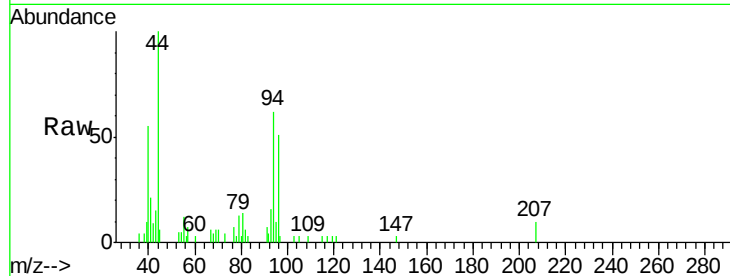
MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 8439

Ion Ratio Lower Upper

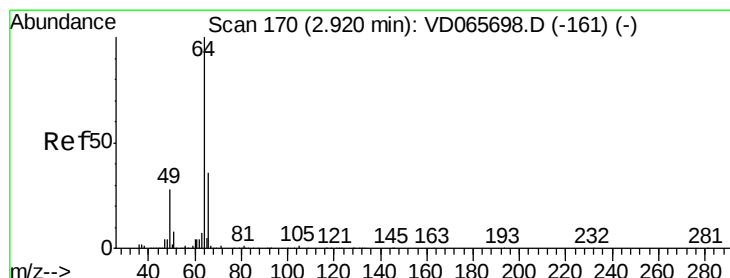
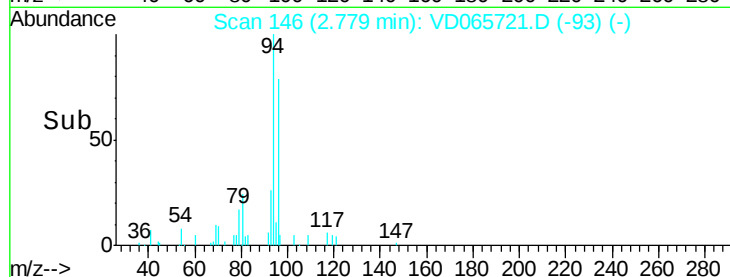
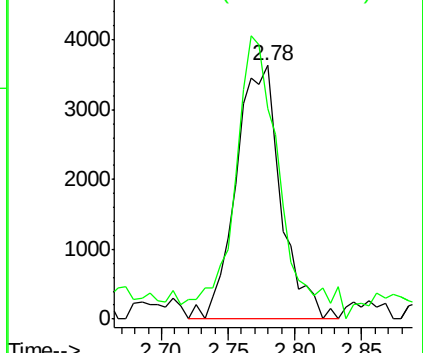
94 100

96 75.1 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.198 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD065721.D

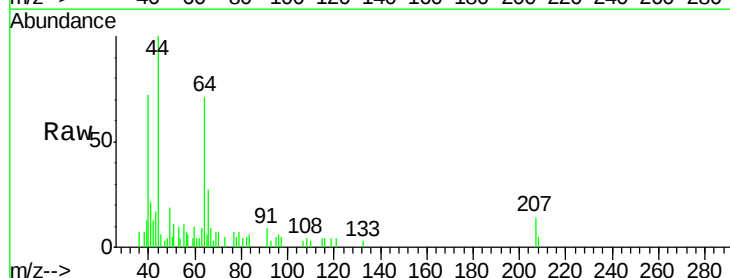
Acq: 08 May 2020 13:23

Tgt Ion: 64 Resp: 7899

Ion Ratio Lower Upper

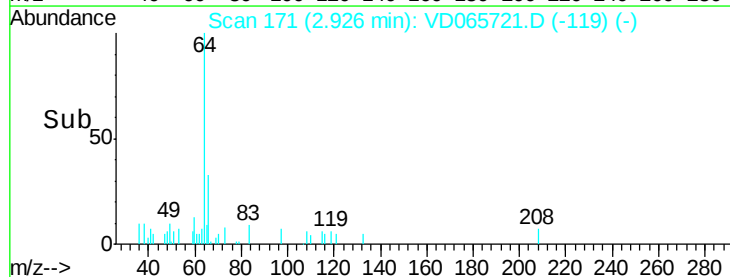
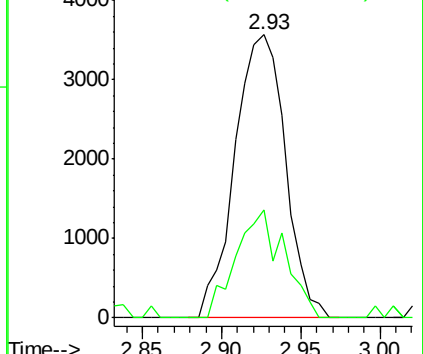
64 100

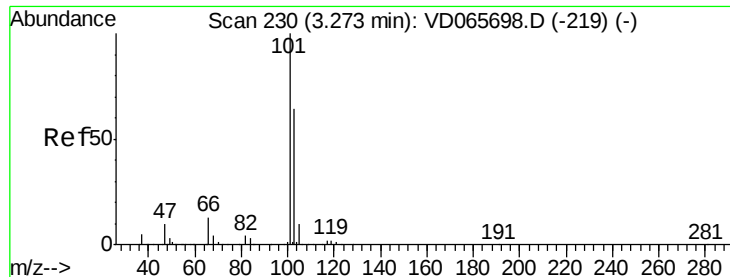
66 38.2 28.5 42.7



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



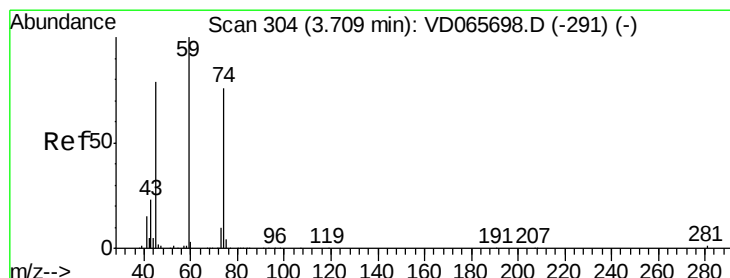
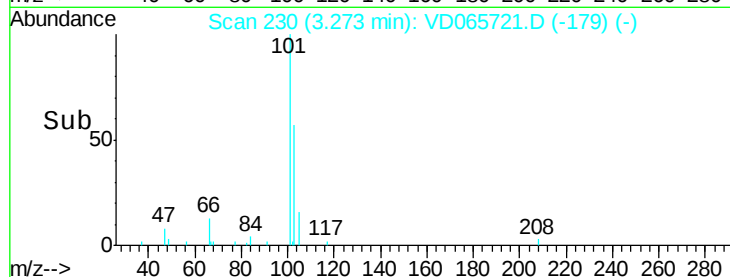
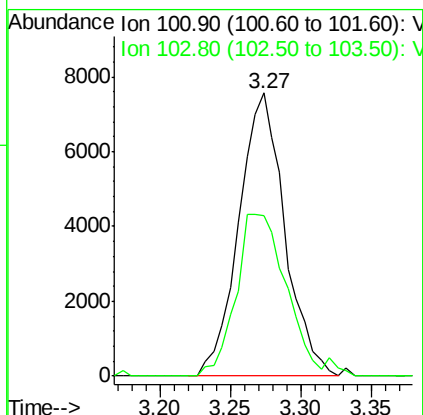
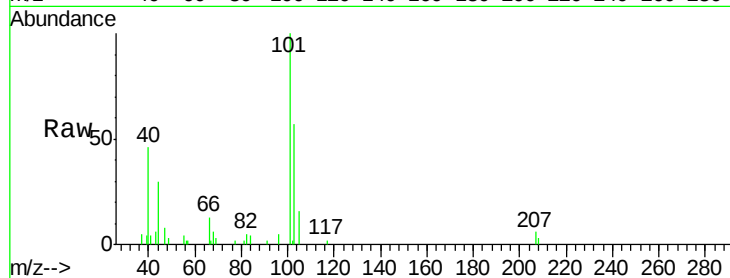


#7

Trichlorofluoromethane
 Concen: 2.805 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

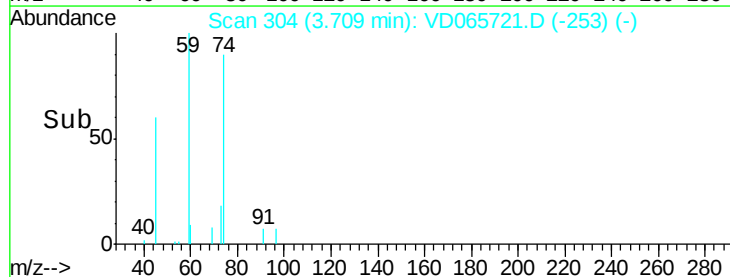
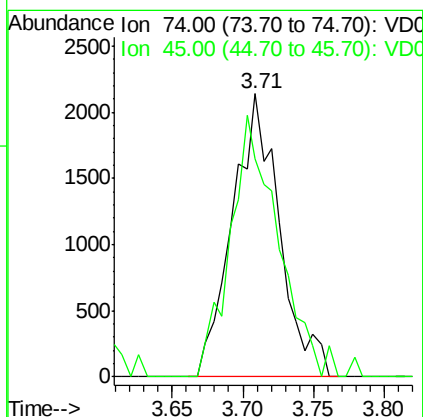
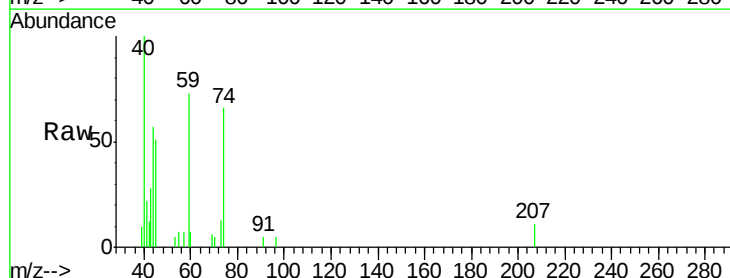
Tot Ion:101 Resp: 17208
 Ion Ratio Lower Upper
 101 100
 103 56.8 51.1 76.7

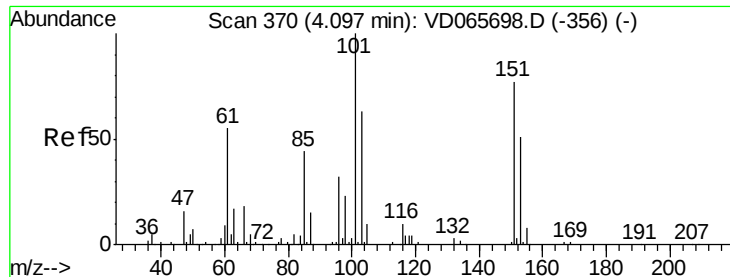


#8

Diethyl Ether
 Concen: 2.594 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 74 Resp: 4985
 Ion Ratio Lower Upper
 74 100
 45 94.2 55.0 165.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.837 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

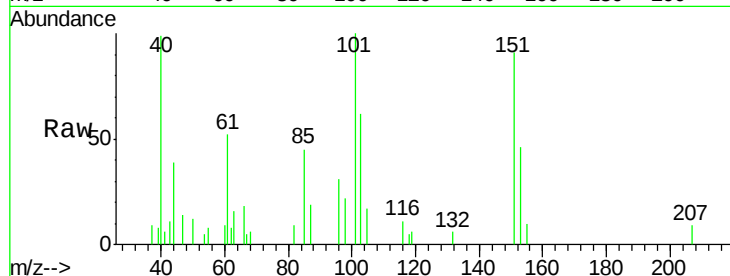
Tot Ion:101 Resp: 10566

Ion Ratio Lower Upper

101 100

85 43.3 34.4 51.6

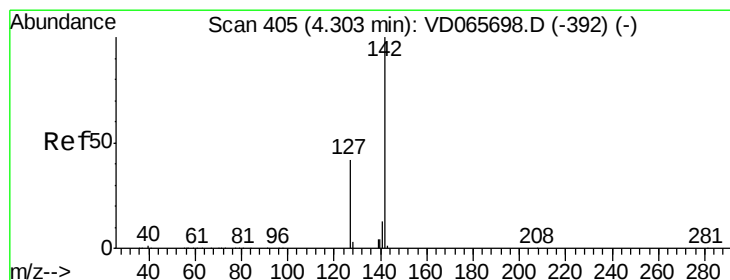
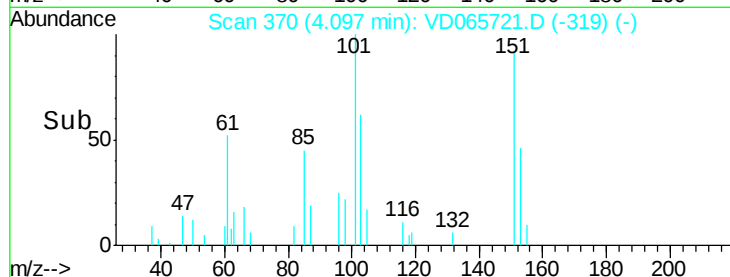
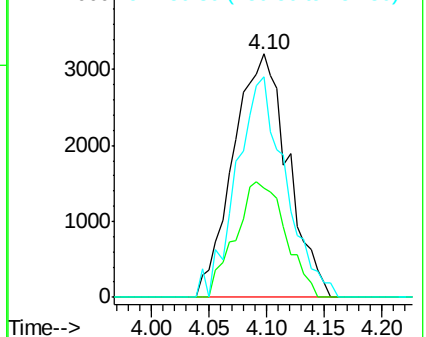
151 80.9 63.0 94.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.428 ug/l

RT: 4.30 min Scan# 404

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

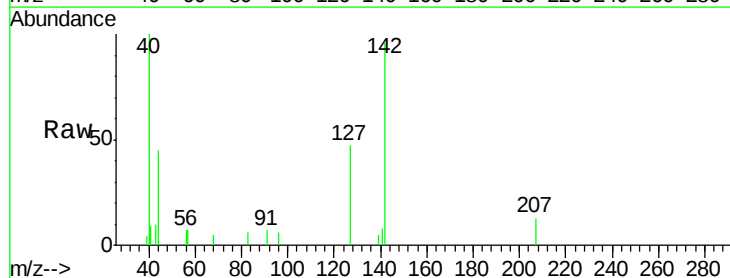
Tgt Ion:142 Resp: 8870

Ion Ratio Lower Upper

142 100

127 46.0 34.5 51.7

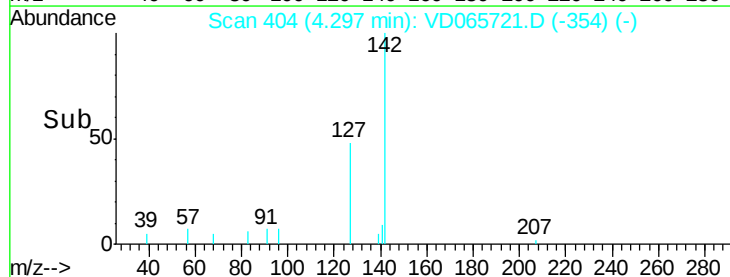
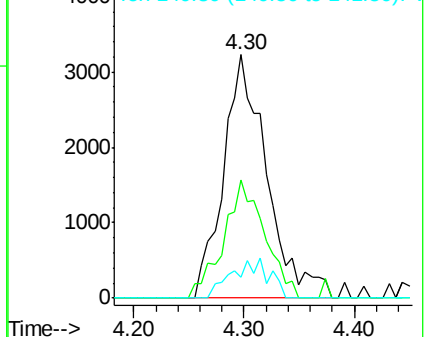
141 14.0 11.6 17.4

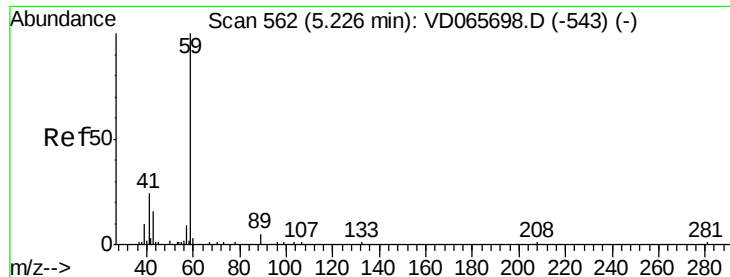


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



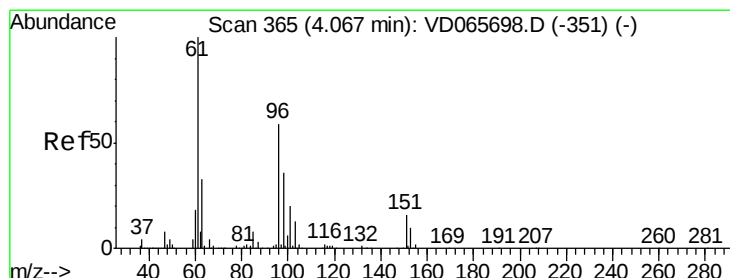
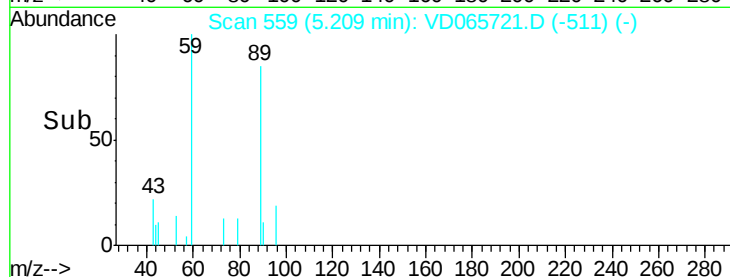
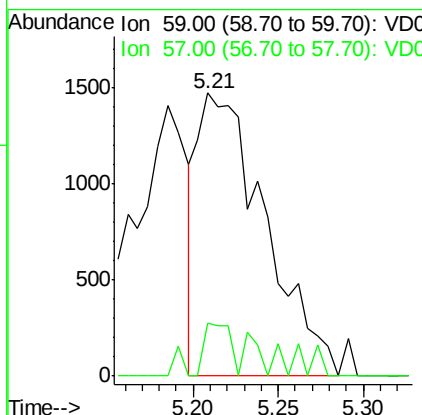
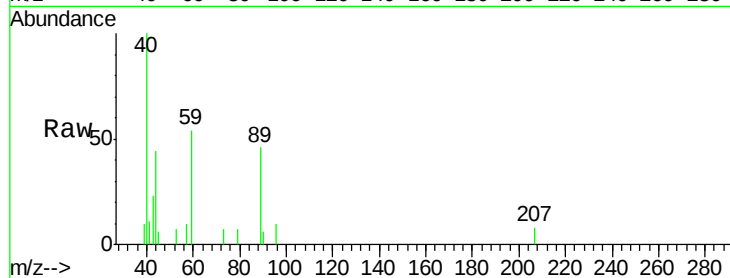


#11

Tert butyl alcohol
 Concen: 11.896 ug/l m
 RT: 5.21 min Scan# 559
 Delta R.T. -0.02 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

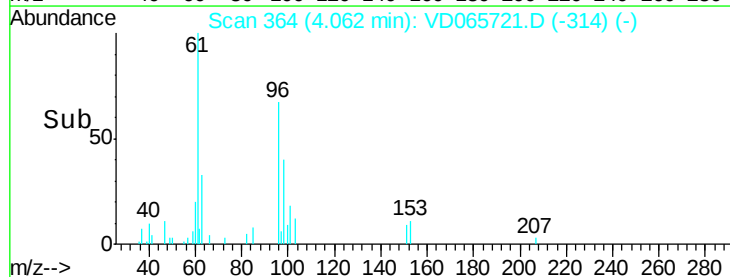
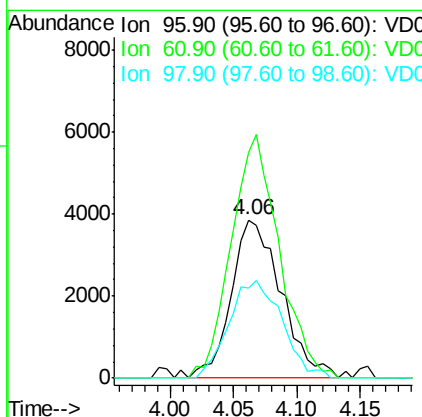
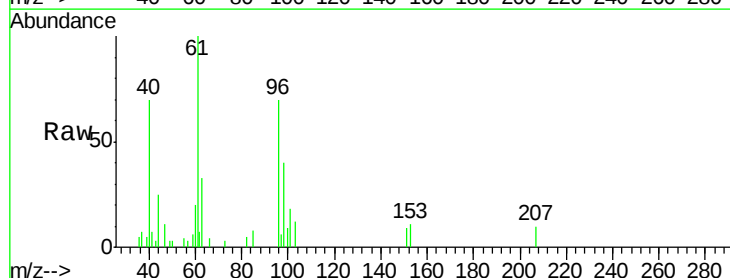
Tot Ion: 59 Resp: 4074
 Ion Ratio Lower Upper
 59 100
 57 6.9 8.7 13.1#

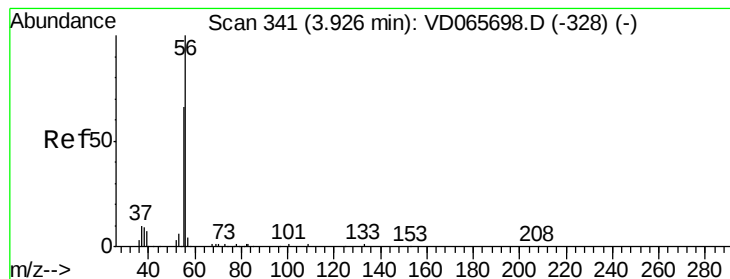


#12

1,1-Dichloroethene
 Concen: 2.882 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 96 Resp: 10549
 Ion Ratio Lower Upper
 96 100
 61 143.1 136.0 204.0
 98 57.1 49.7 74.5





#13

Acrolein

Concen: 11.156 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

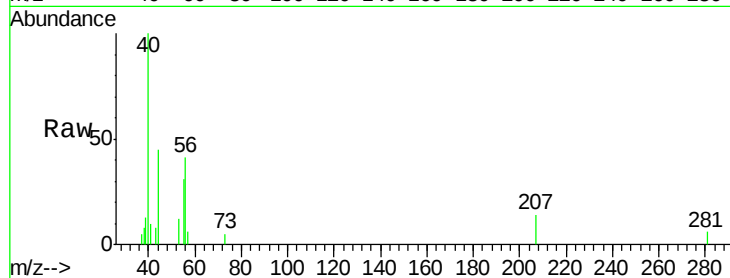
MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 3523

Ion Ratio Lower Upper

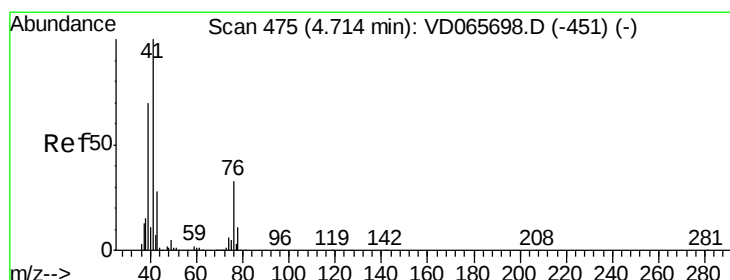
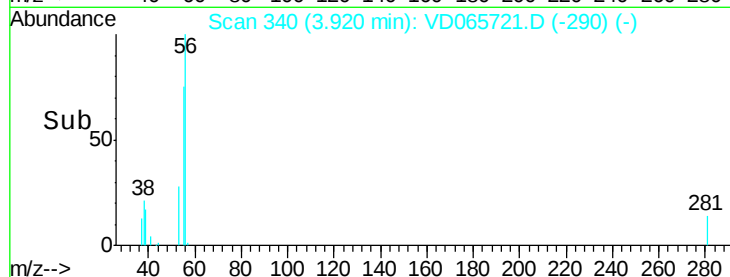
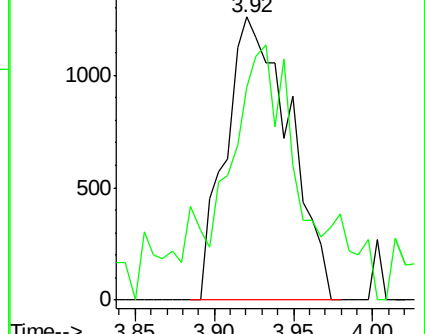
56 100

55 65.8 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.177 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

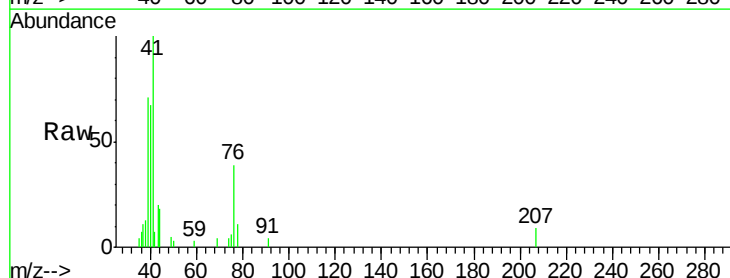
Tgt Ion: 41 Resp: 15881

Ion Ratio Lower Upper

41 100

39 81.7 55.6 83.4

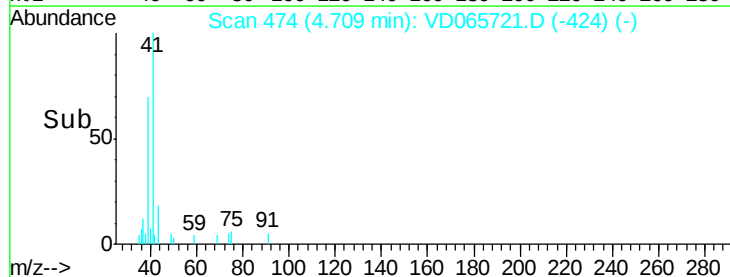
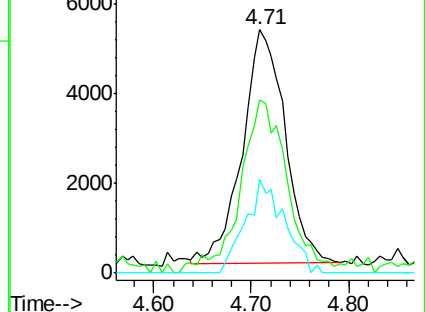
76 36.9 25.6 38.4

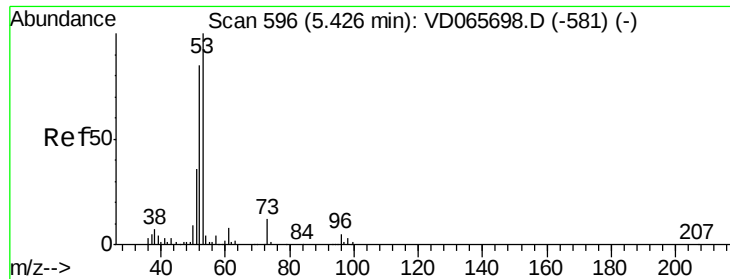


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 11.178 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

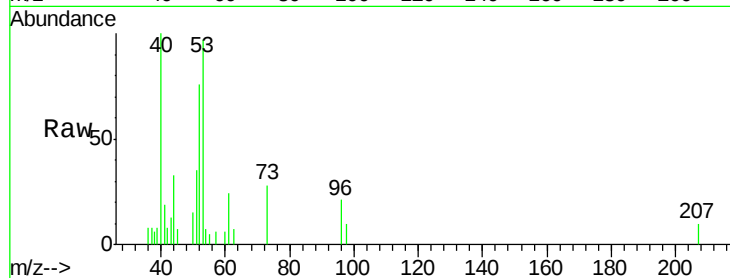
Tot Ion: 53 Resp: 10100

Ion Ratio Lower Upper

53 100

52 78.5 66.2 99.2

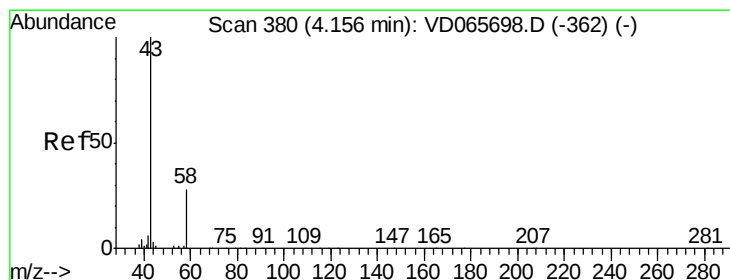
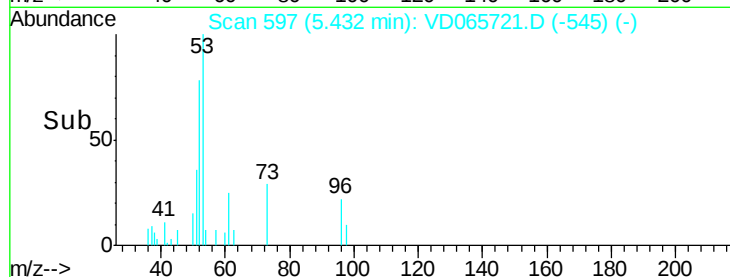
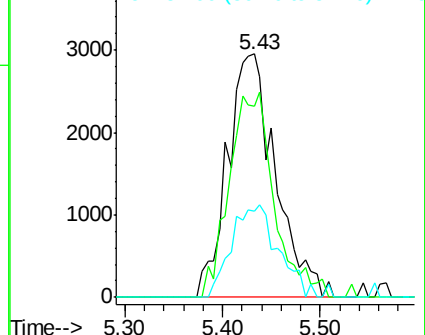
51 36.7 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 11.686 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065721.D

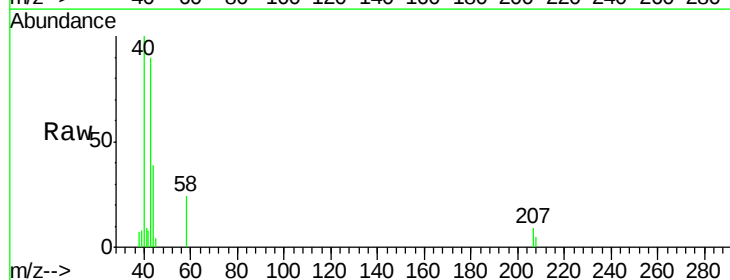
Acq: 08 May 2020 13:23

Tgt Ion: 43 Resp: 9589

Ion Ratio Lower Upper

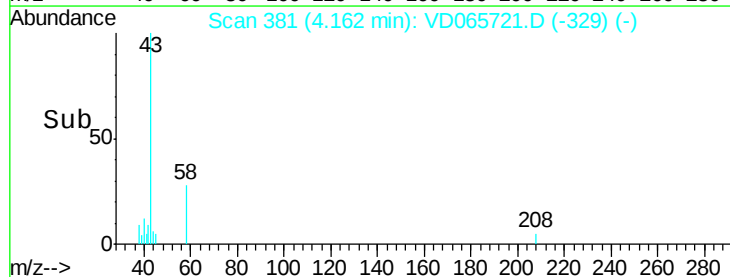
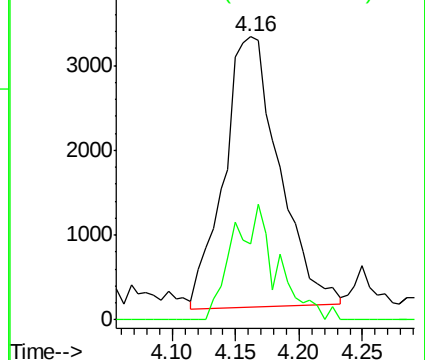
43 100

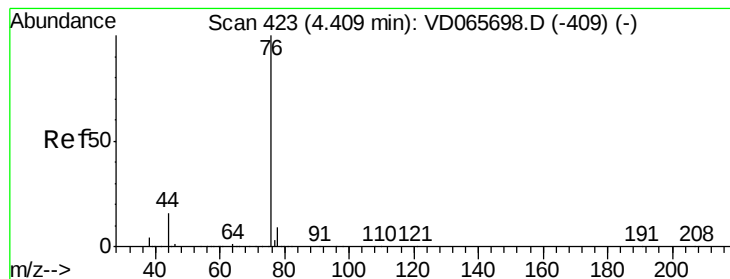
58 28.7 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 2.586 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

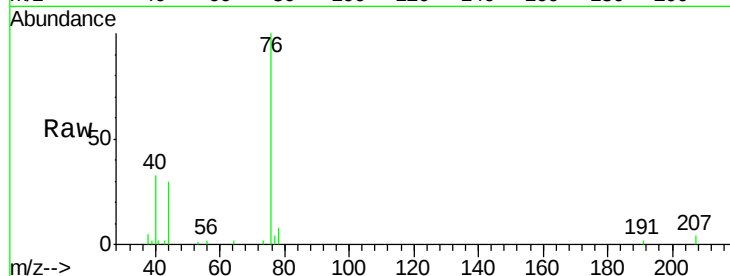
MDL-SOIL-03-QT2-2020DL

Tot Ion: 76 Resp: 31117

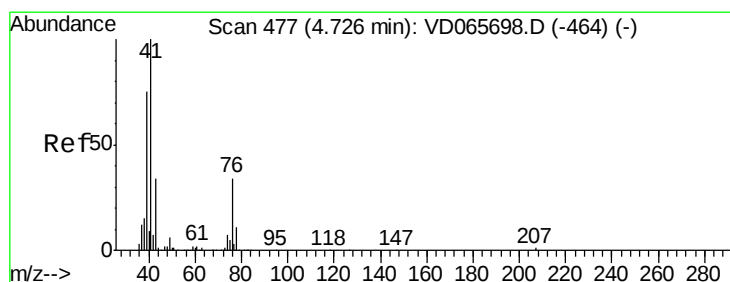
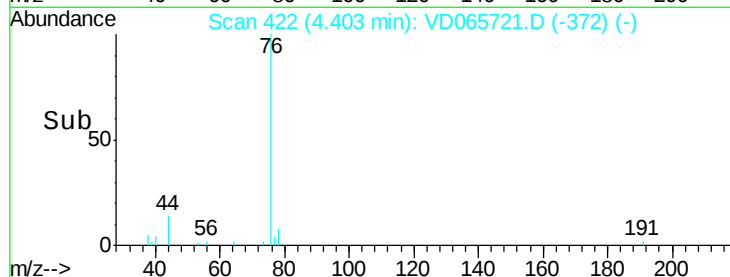
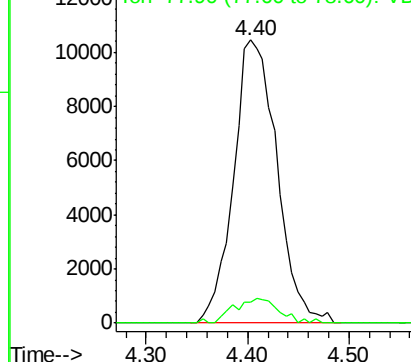
Ion Ratio Lower Upper

76 100

78 7.5 6.8 10.2



Abundance Ion 75.90 (75.60 to 76.60): VDC
Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 3.379 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065721.D

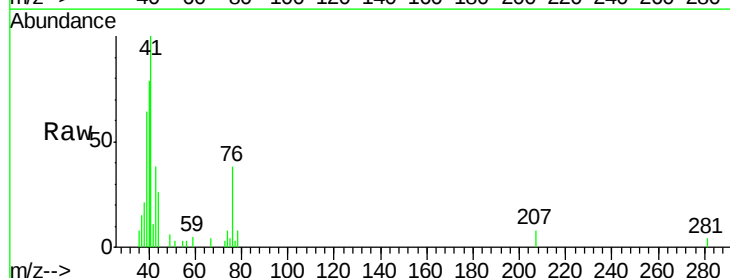
Acq: 08 May 2020 13:23

Tgt Ion: 43 Resp: 6895

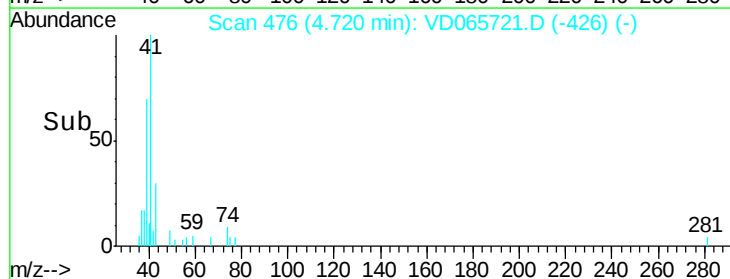
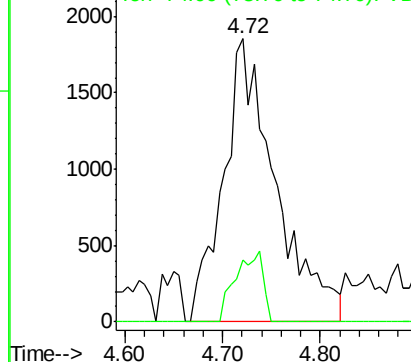
Ion Ratio Lower Upper

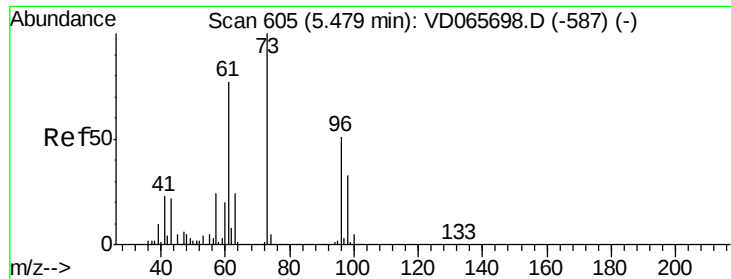
43 100

74 13.1 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 74.00 (73.70 to 74.70): VDC



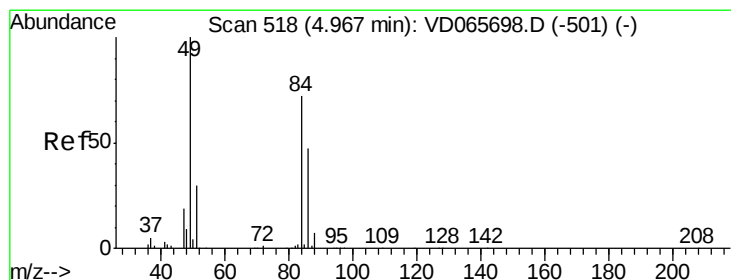
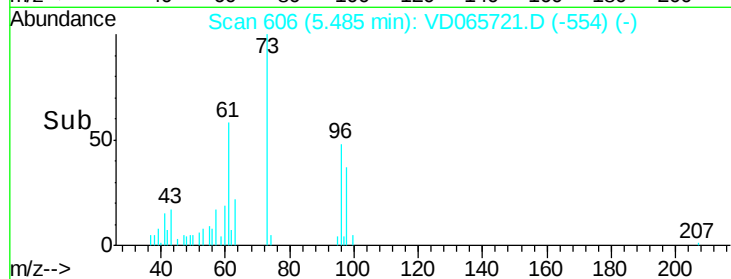
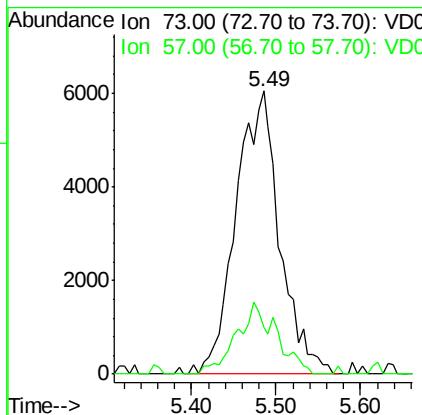
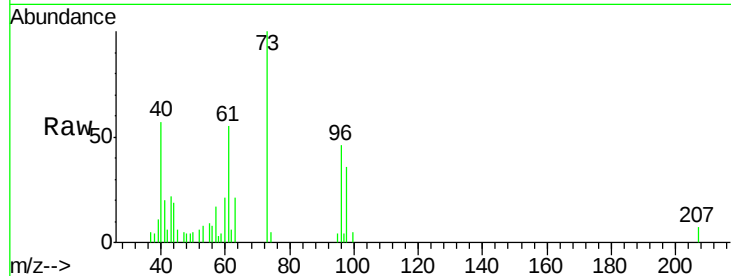


#19

Methyl tert-butyl Ether
 Concen: 2.449 ug/l
 RT: 5.49 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Instrument :
 MSVOA_D
 ClientSampleID :
 MDL-SOIL-03-QT2-2020DL

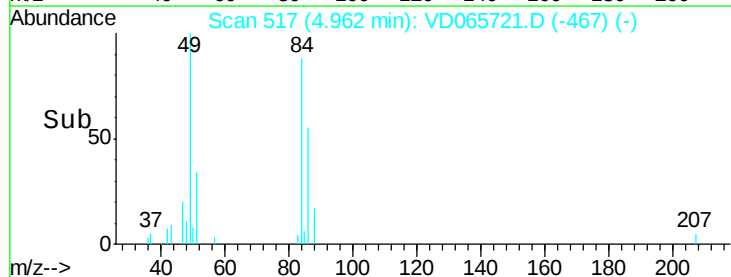
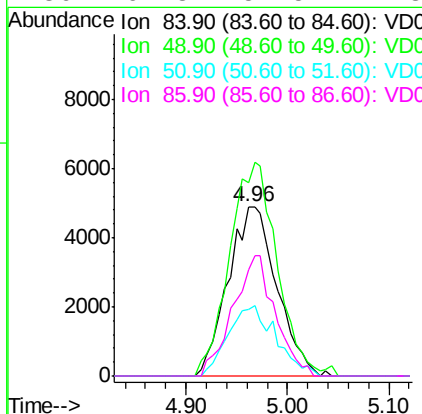
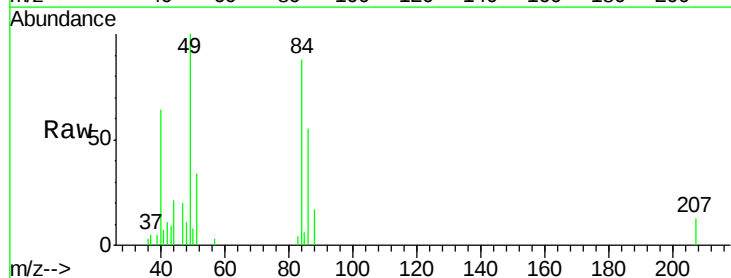
Tot Ion: 73 Resp: 21735
 Ion Ratio Lower Upper
 73 100
 57 16.5 19.4 29.0#

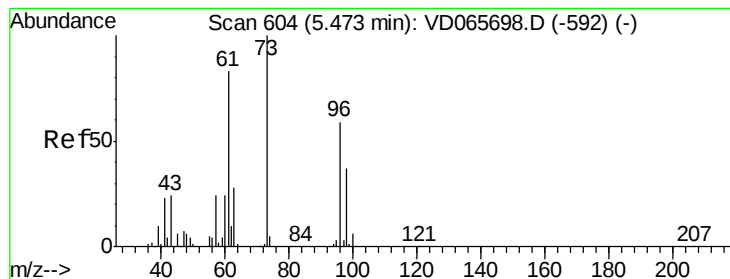


#20

Methylene Chloride
 Concen: 3.960 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 84 Resp: 16367
 Ion Ratio Lower Upper
 84 100
 49 113.9 110.4 165.6
 51 38.9 33.4 50.2
 86 62.8 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 2.611 ug/l m

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

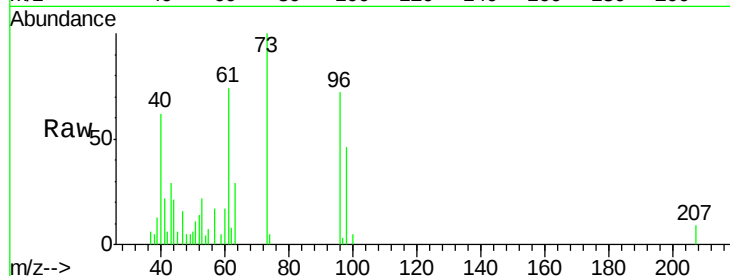
Tot Ion: 96 Resp: 10941

Ion Ratio Lower Upper

96 100

61 102.5 113.0 169.4#

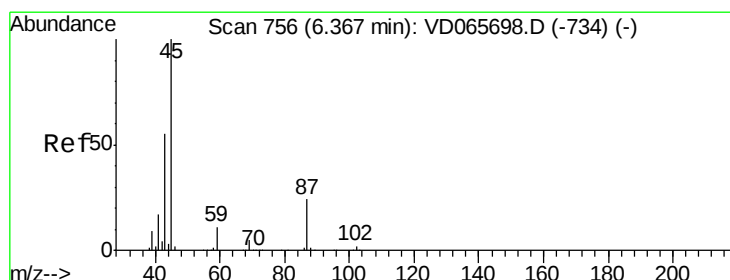
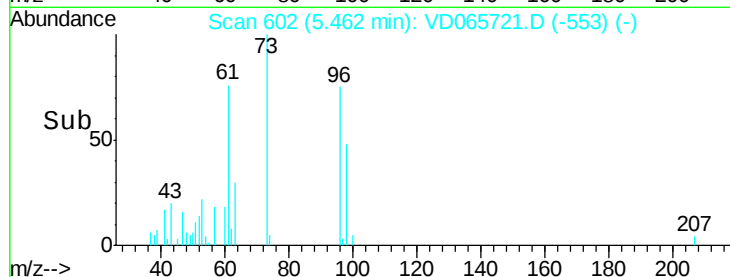
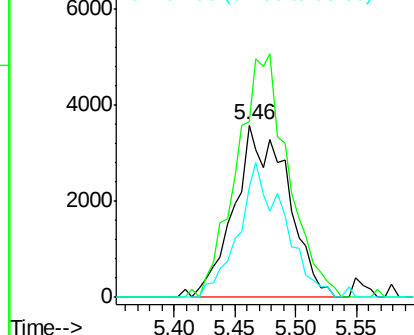
98 64.2 49.5 74.3



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 2.254 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Tgt Ion: 45 Resp: 30583

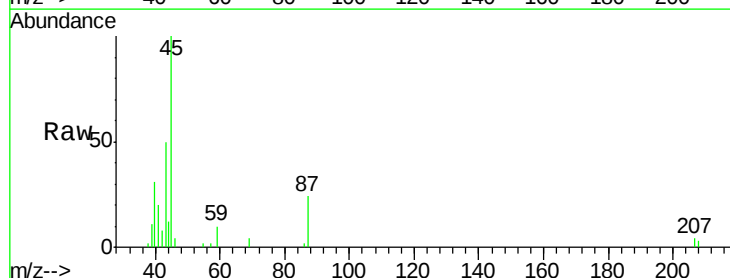
Ion Ratio Lower Upper

45 100

43 48.2 44.2 66.4

87 24.4 19.0 28.4

59 10.0 8.6 13.0

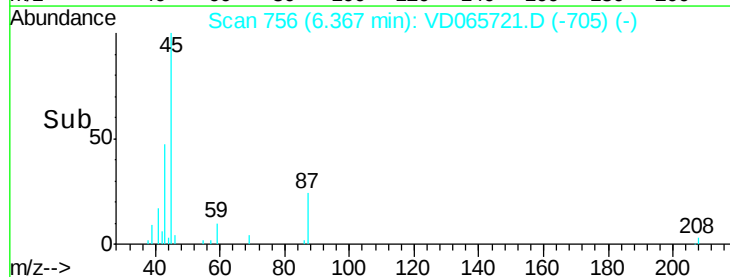
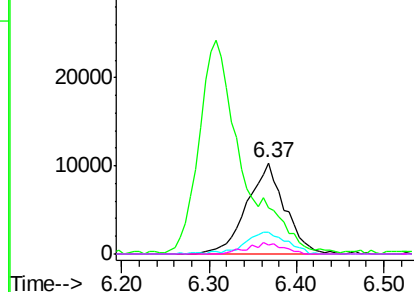


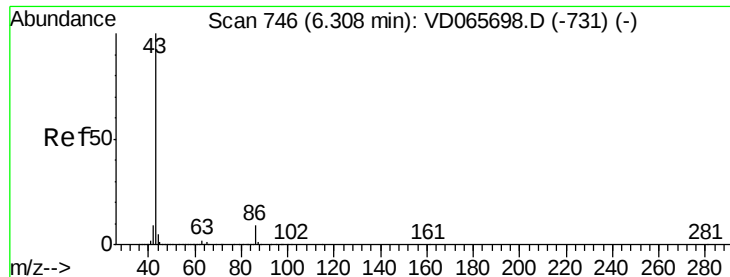
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 10.237 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

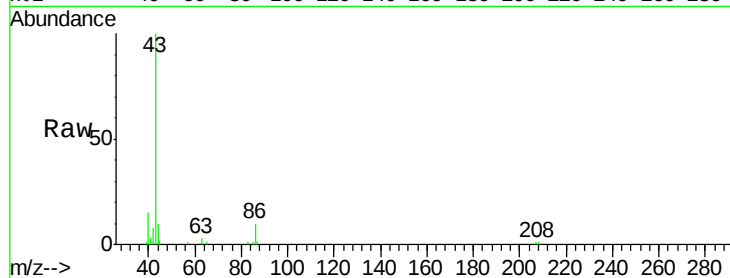
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 83886

Ion Ratio Lower Upper

43 100

86 9.6 7.4 11.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

25000

20000

15000

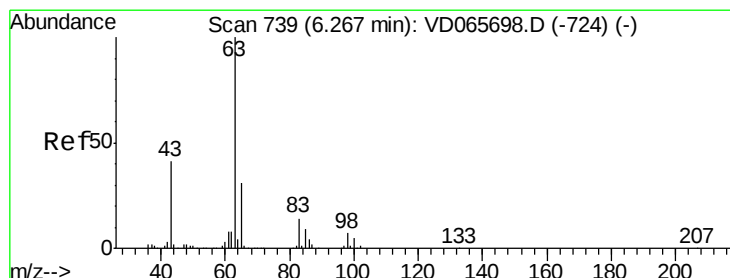
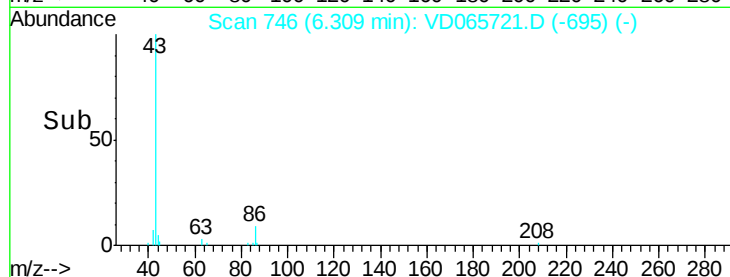
10000

5000

0

Time-->

6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 2.412 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

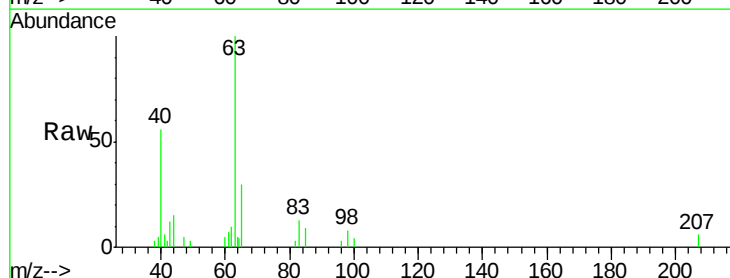
Tgt Ion: 63 Resp: 17929

Ion Ratio Lower Upper

63 100

98 8.2 3.4 10.2

100 4.2 2.3 6.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

8000

6000

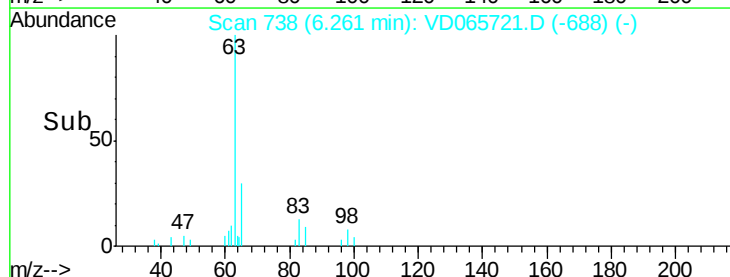
4000

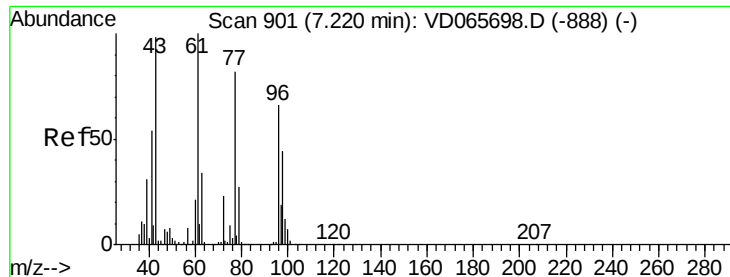
2000

0

Time-->

6.20 6.30





#25

2-Butanone

Concen: 12.485 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

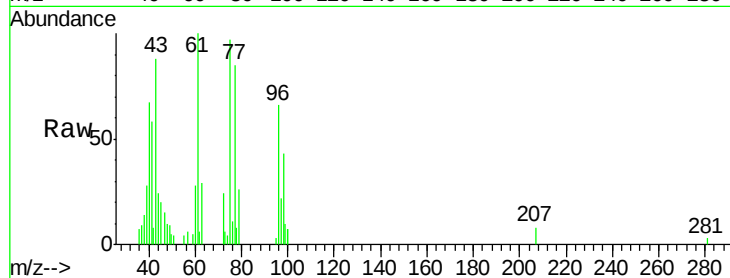
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 15196

Ion Ratio Lower Upper

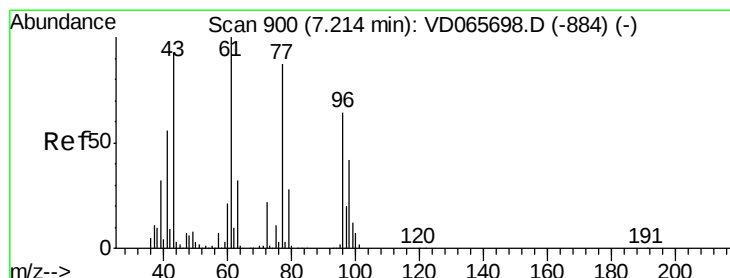
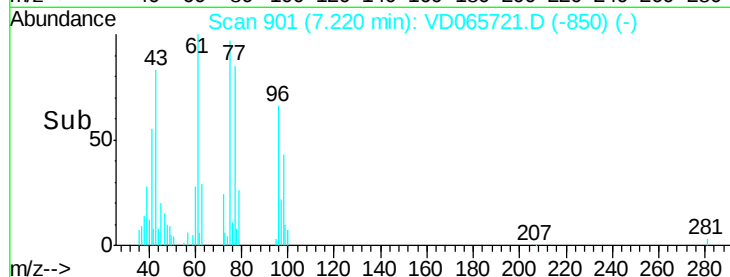
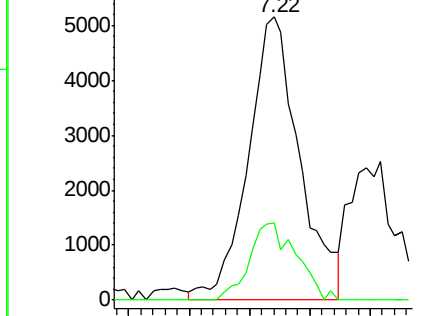
43 100

72 28.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.590 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065721.D

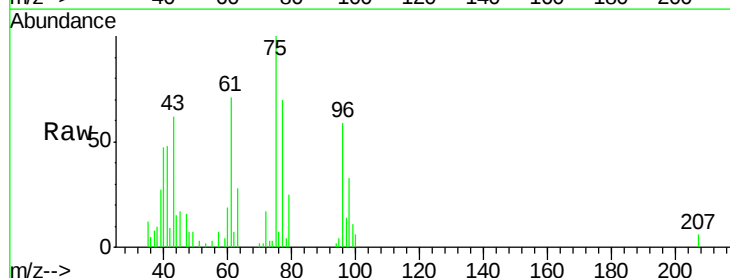
Acq: 08 May 2020 13:23

Tgt Ion: 77 Resp: 17334

Ion Ratio Lower Upper

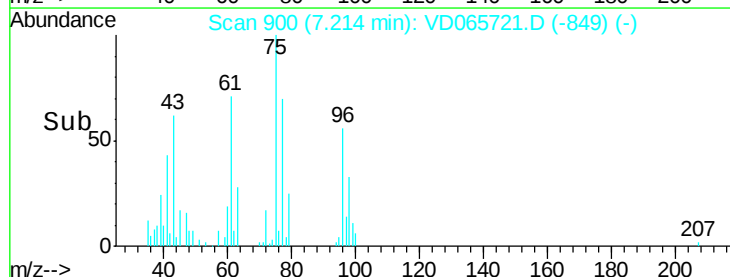
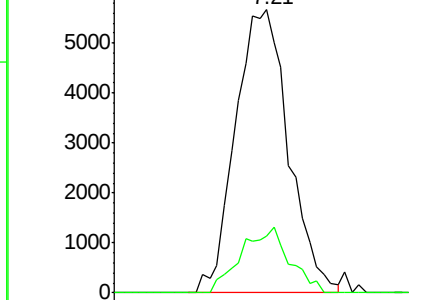
77 100

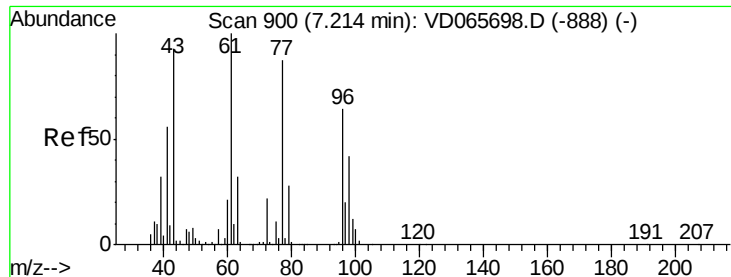
97 20.9 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



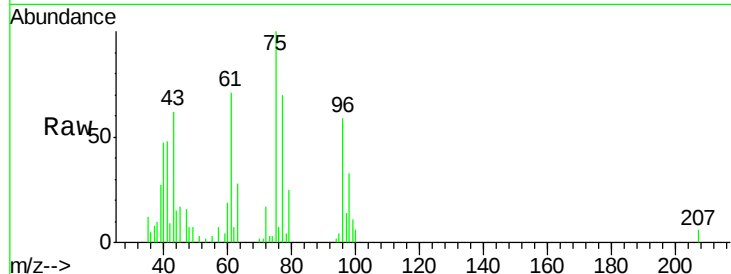


#27

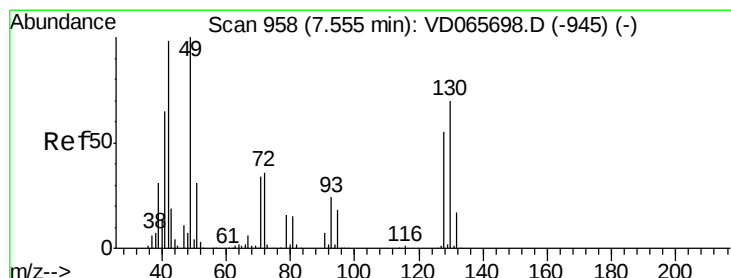
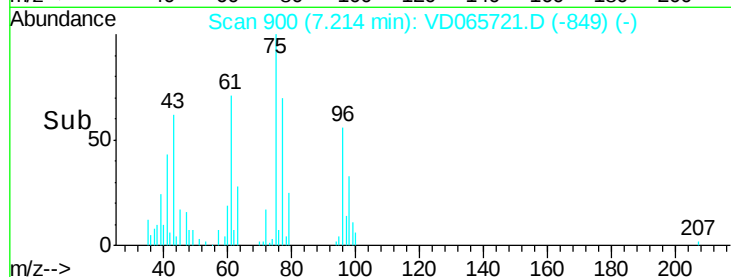
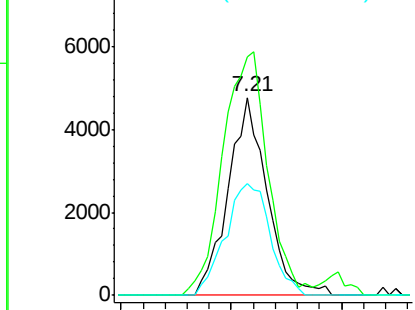
cis-1,2-Dichloroethene
Concen: 2.591 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 96 Resp: 11778
Ion Ratio Lower Upper
96 100
61 141.8 0.0 306.6
98 64.6 0.0 129.4



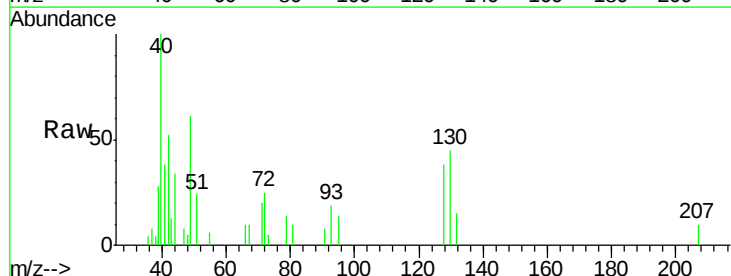
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



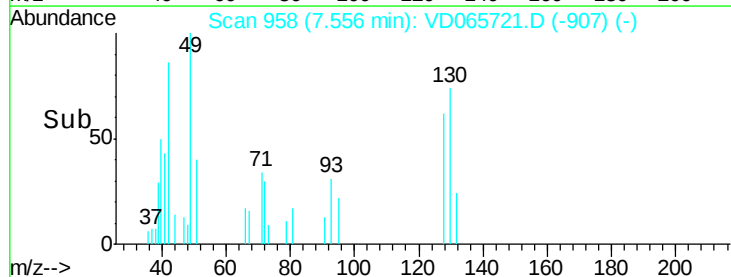
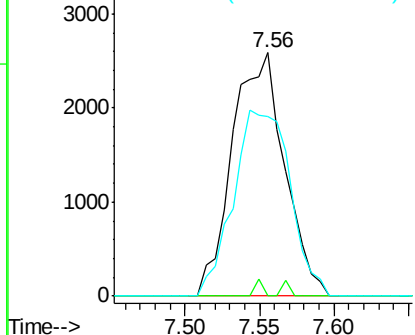
#28

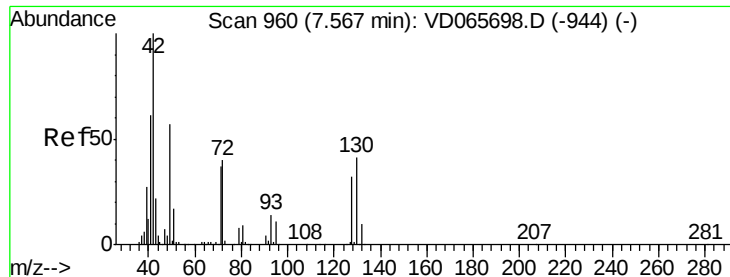
Bromochloromethane
Concen: 2.032 ug/l
RT: 7.56 min Scan# 958
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 49 Resp: 6298
Ion Ratio Lower Upper
49 100
129 1.0 0.0 3.8
130 82.4 56.4 84.6



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





#29

Tetrahydrofuran

Concen: 11.593 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

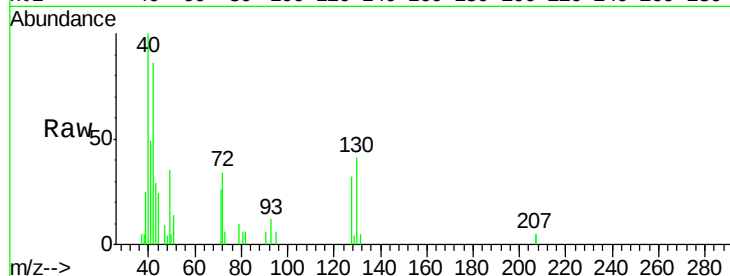
Tot Ion: 42 Resp: 9095

Ion Ratio Lower Upper

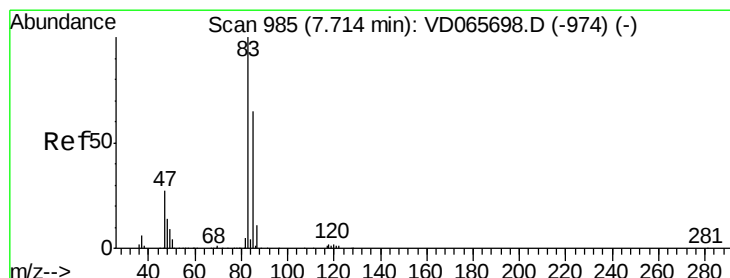
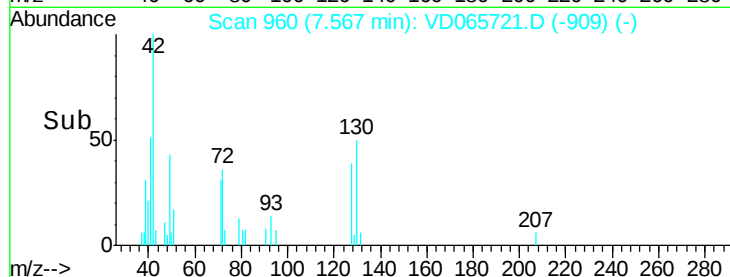
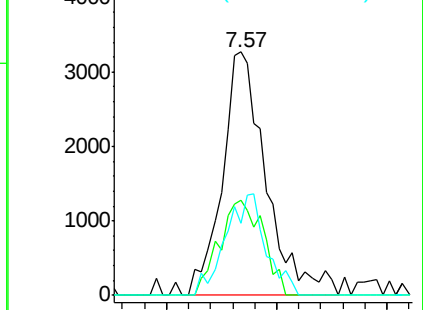
42 100

72 38.7 30.4 45.6

71 38.4 28.0 42.0



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 2.603 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD065721.D

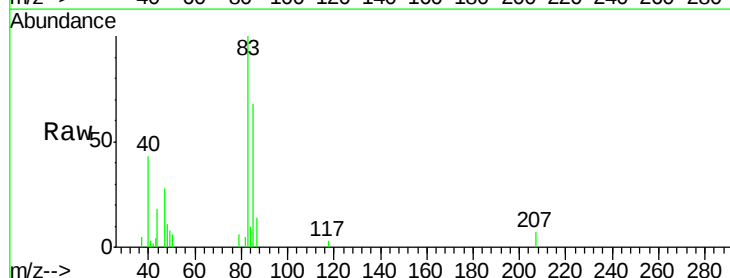
Acq: 08 May 2020 13:23

Tgt Ion: 83 Resp: 18615

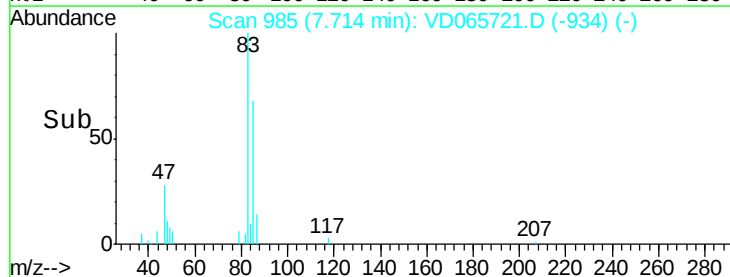
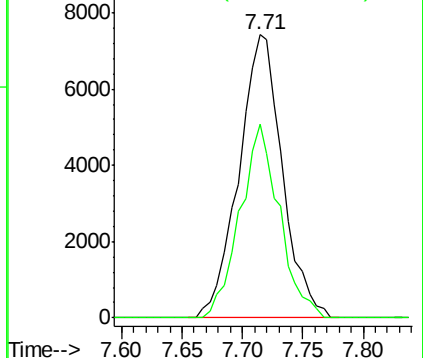
Ion Ratio Lower Upper

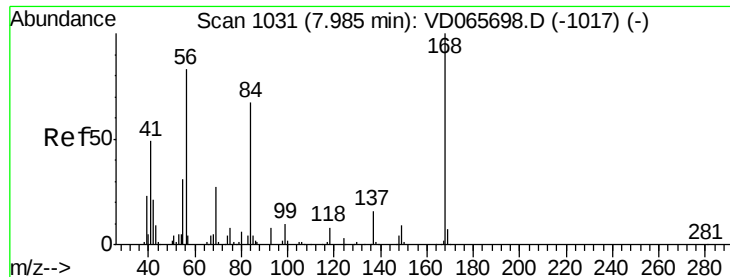
83 100

85 68.4 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

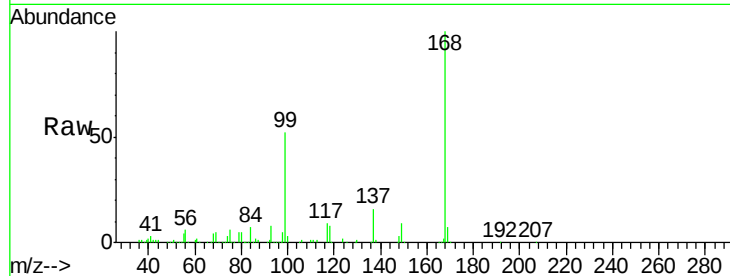




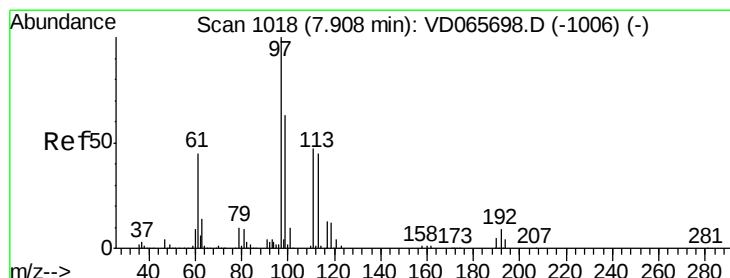
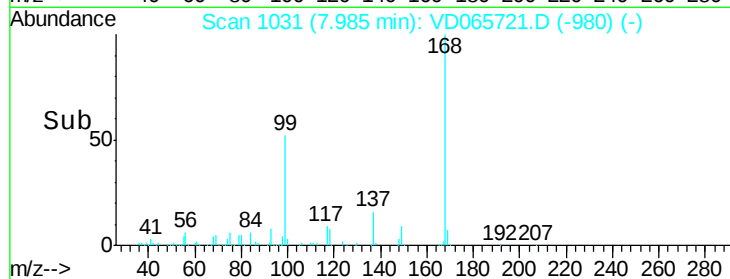
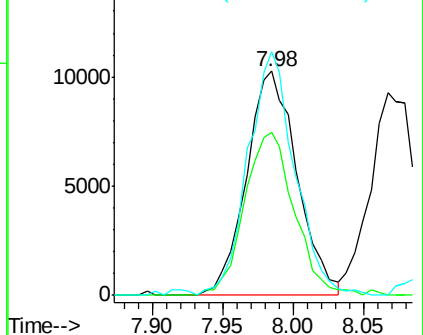
#31
Cyclohexane
Concen: 3.350 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 25764
Ion Ratio Lower Upper
56 100
69 72.8 26.3 39.5#
84 106.8 64.5 96.7#

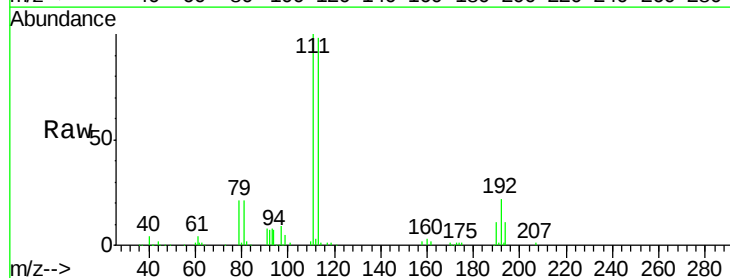


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

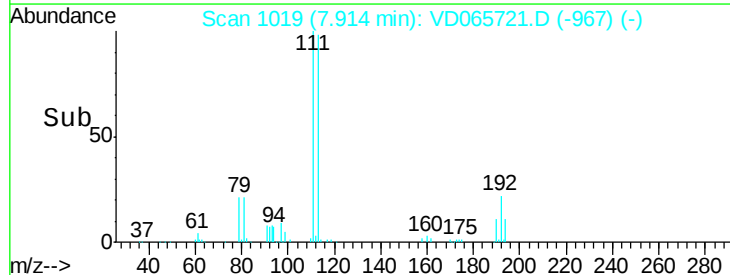
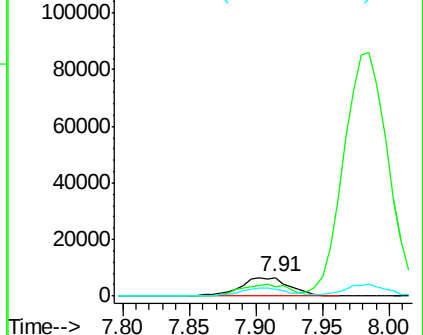


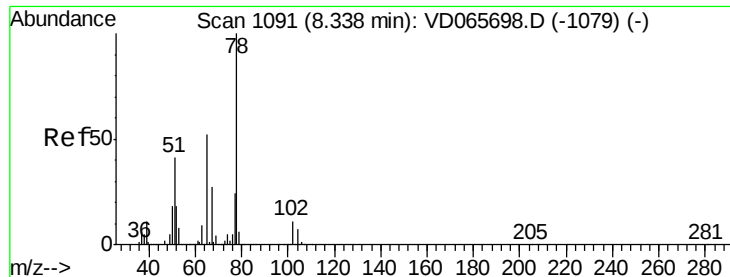
#32
1,1,1-Trichloroethane
Concen: 2.539 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 97 Resp: 16832
Ion Ratio Lower Upper
97 100
99 61.4 50.8 76.2
61 42.8 36.0 54.0



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC

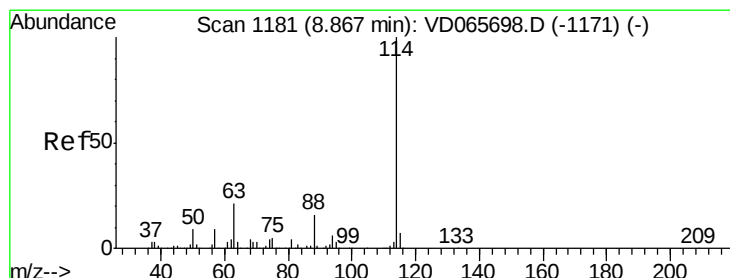
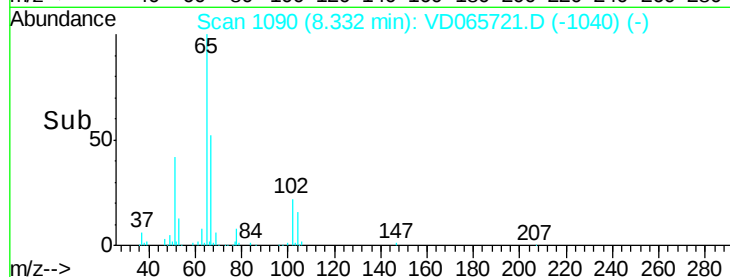
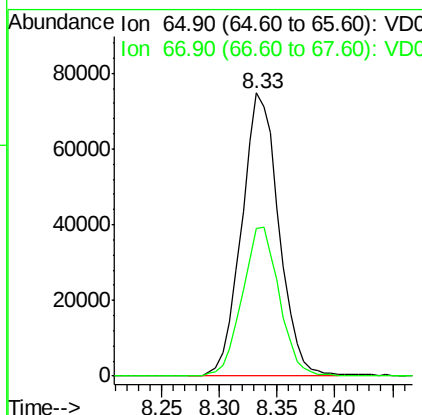
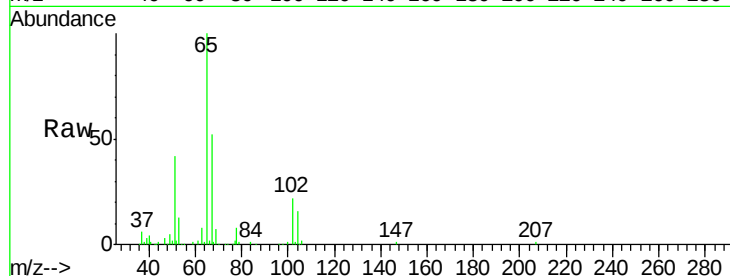




#33
 1,2-Dichloroethane-d4
 Concen: 43.591 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

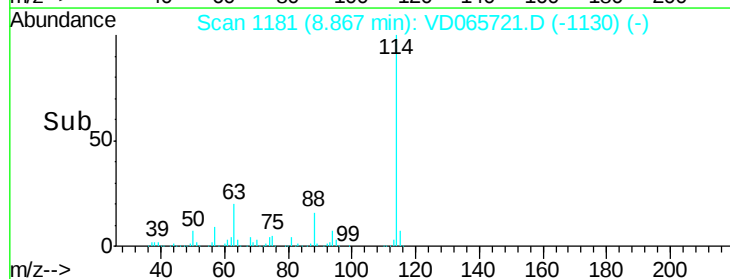
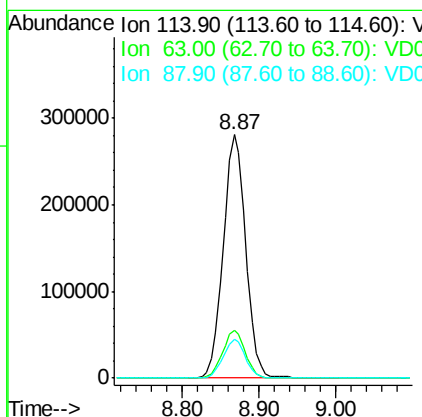
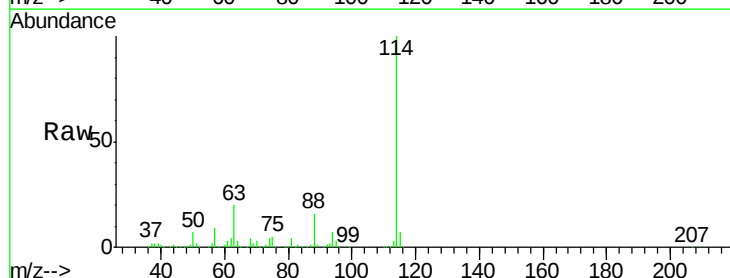
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

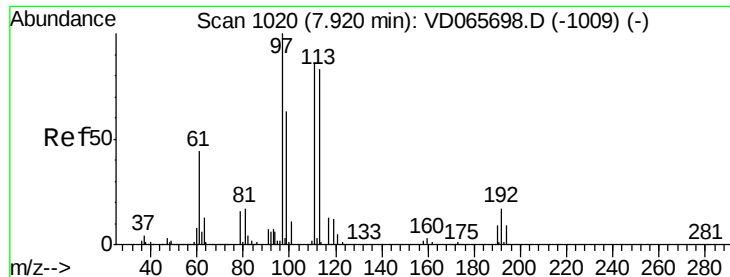
Tot Ion: 65 Resp: 167535
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 114 Resp: 570753
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.4
 88 15.7 0.0 32.6

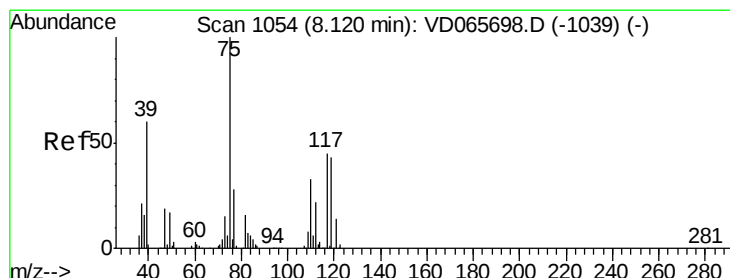
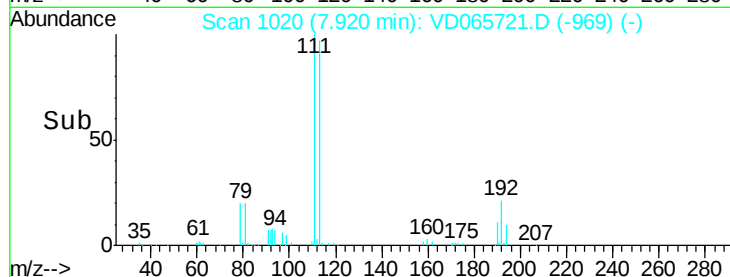
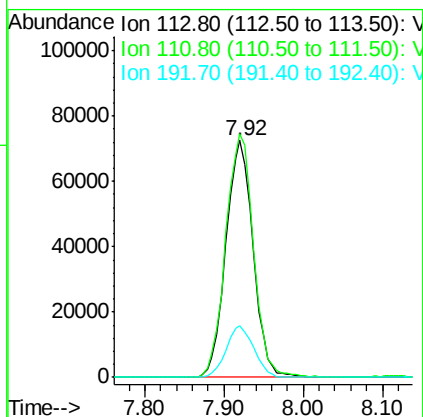
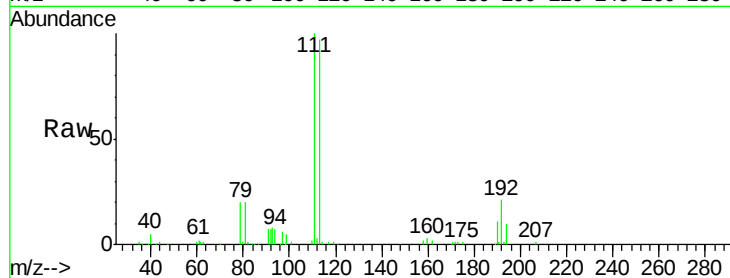




#35
 Dibromofluoromethane
 Concen: 48.353 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

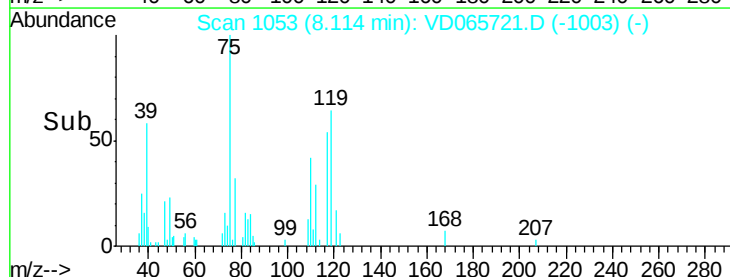
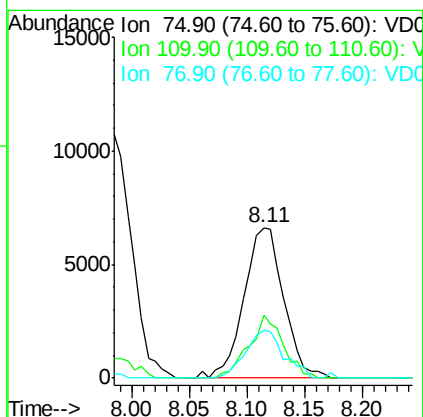
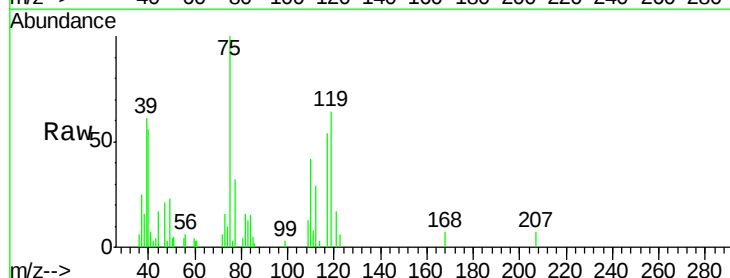
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

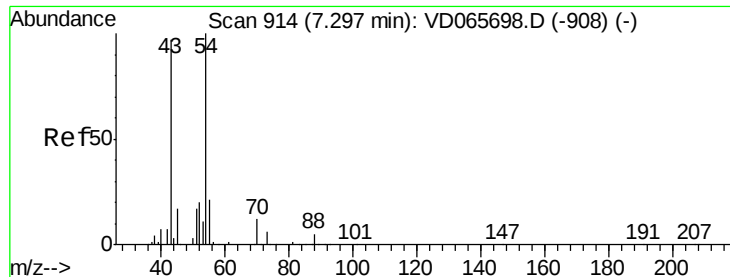
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.7	124.1
192	22.1	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 2.801 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.1	17.2	51.6
77	30.9	23.7	35.5





#37

Ethyl Acetate

Concen: 2.125 ug/l

RT: 7.31 min Scan# 916

Delta R.T. 0.01 min

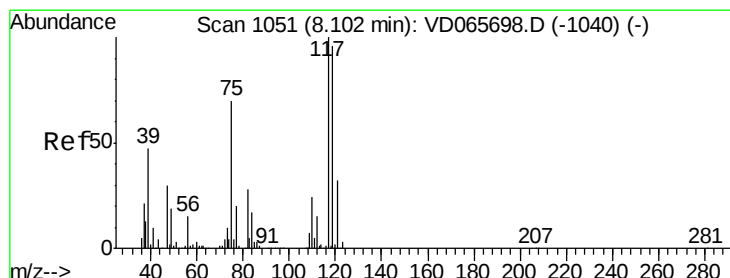
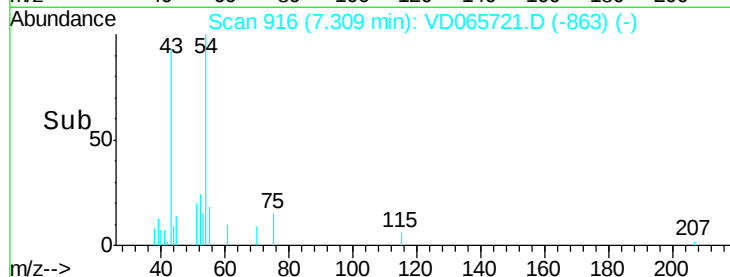
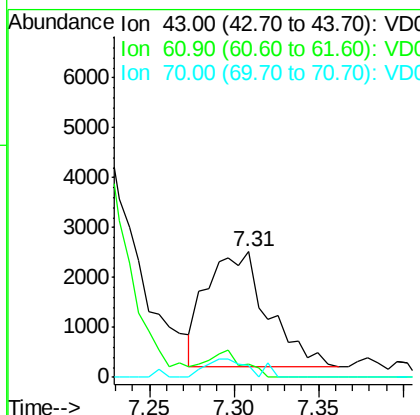
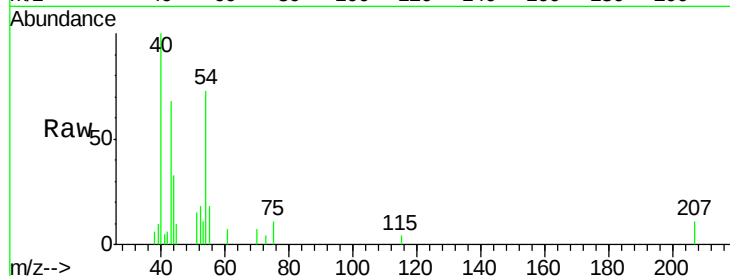
Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 5801

Ion	Ratio	Lower	Upper
43	100		
61	14.2	9.9	14.9
70	10.2	7.3	10.9



#38

Carbon Tetrachloride

Concen: 2.846 ug/l

RT: 8.10 min Scan# 1050

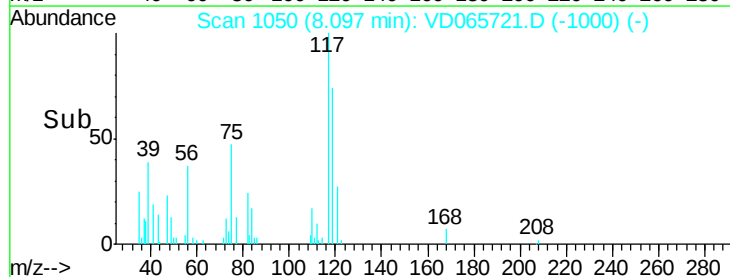
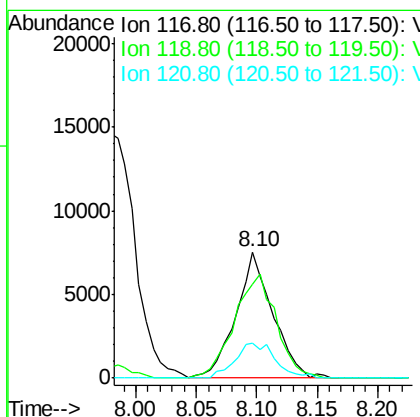
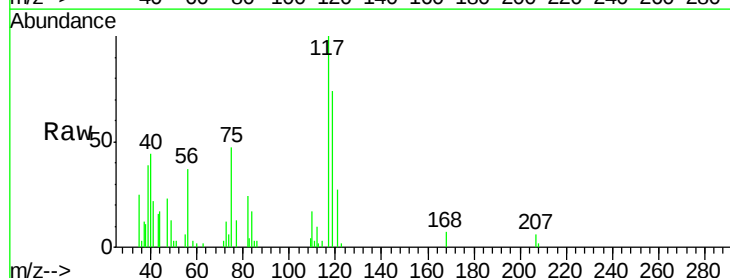
Delta R.T. -0.01 min

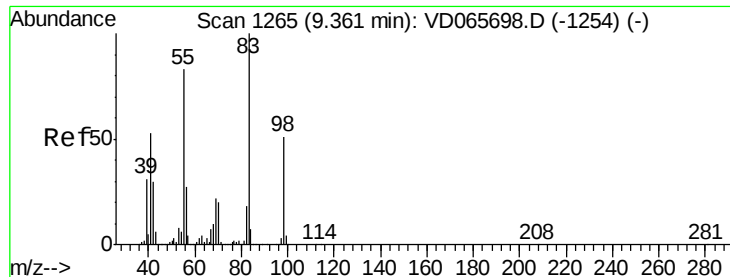
Lab File: VD065721.D

Acq: 08 May 2020 13:23

Tgt Ion: 117 Resp: 15992

Ion	Ratio	Lower	Upper
117	100		
119	74.4	77.1	115.7#
121	27.4	25.5	38.3

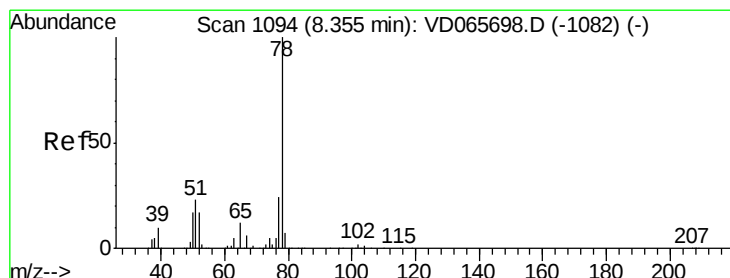
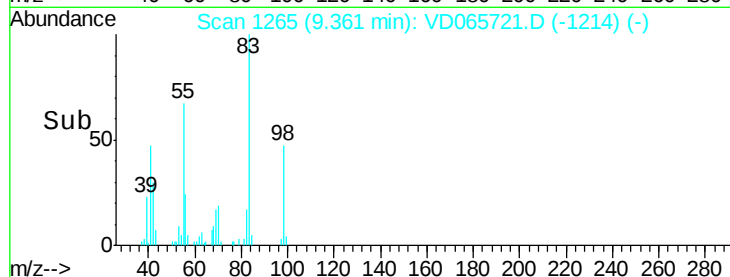
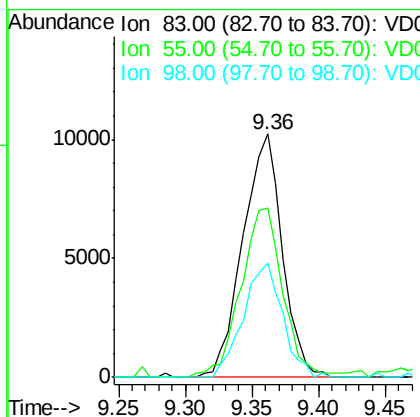
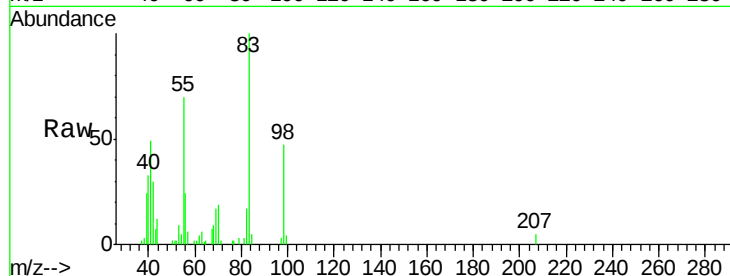




#39
Methvlcvclohexane
Concen: 2.936 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

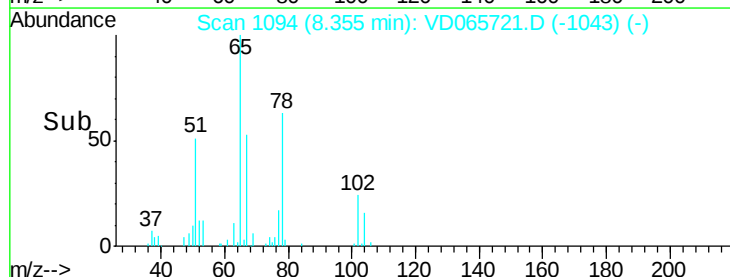
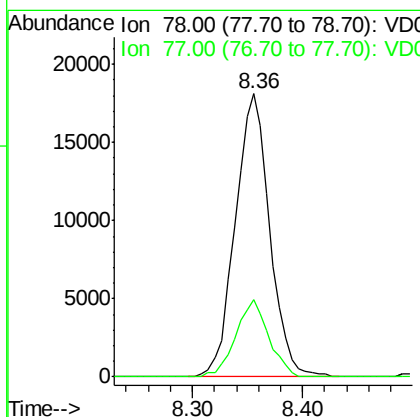
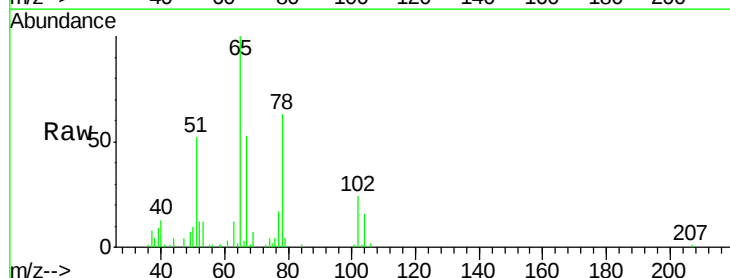
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

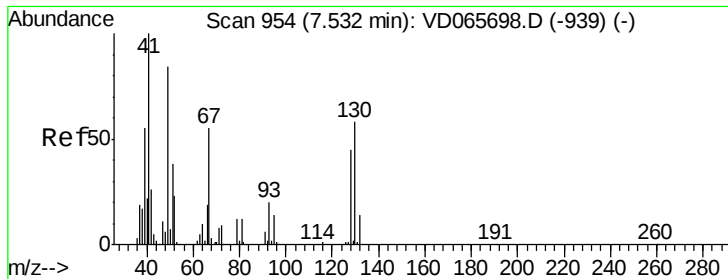
Tot Ion: 83 Resp: 20892
Ion Ratio Lower Upper
83 100
55 69.6 66.0 99.0
98 46.9 41.0 61.4



#40
Benzene
Concen: 2.559 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 78 Resp: 39609
Ion Ratio Lower Upper
78 100
77 27.3 19.6 29.4





#41

Methacrylonitrile

Concen: 2.848 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 41 Resp: 4483

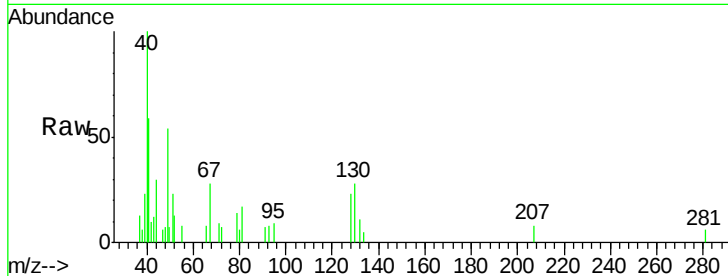
Ion Ratio Lower Upper

41 100

39 49.8 52.5 78.7#

67 53.1 59.4 89.0#

52 22.5 25.6 38.4#

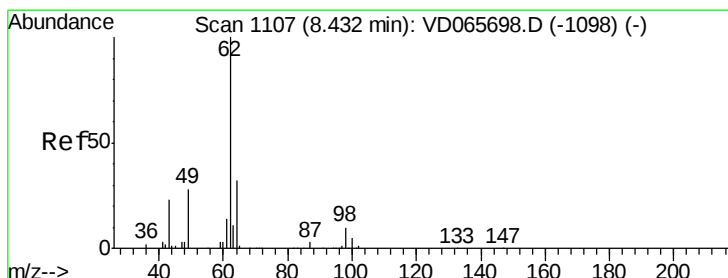
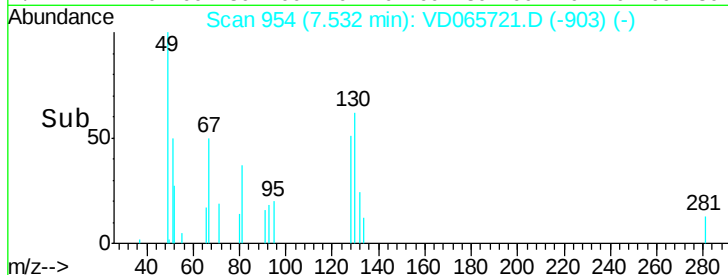
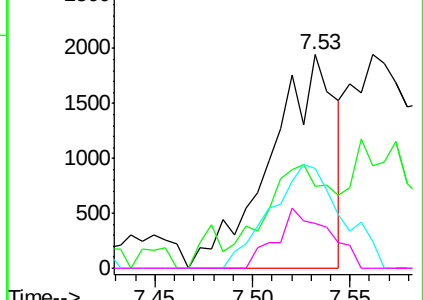


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 2.544 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD065721.D

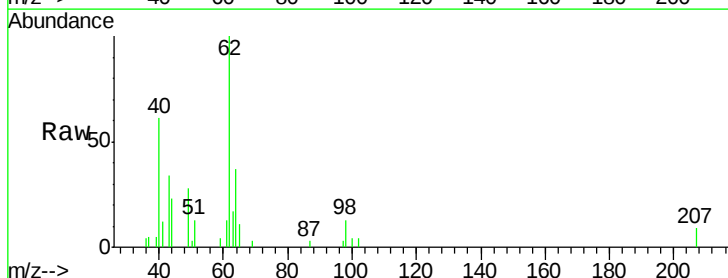
Acq: 08 May 2020 13:23

Tgt Ion: 62 Resp: 11330

Ion Ratio Lower Upper

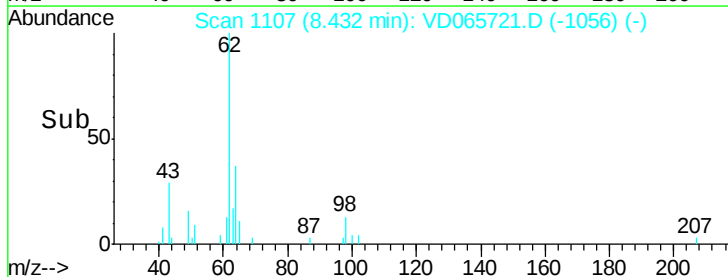
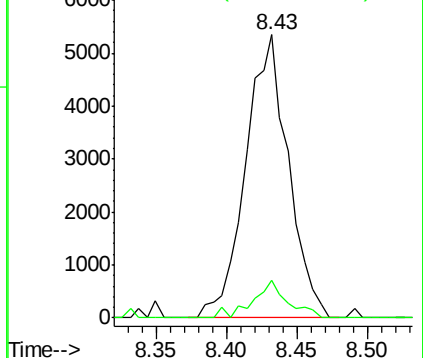
62 100

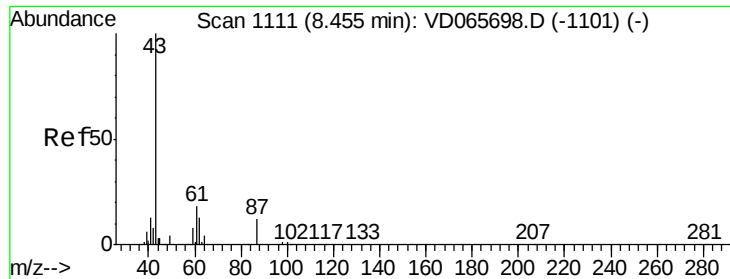
98 10.8 0.0 19.2



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 2.342 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

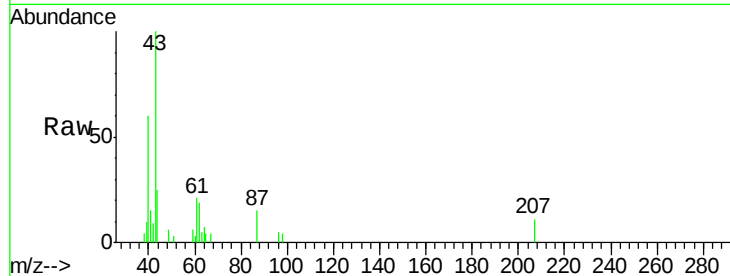
Tot Ion: 43 Resp: 12785

Ion Ratio Lower Upper

43 100

61 26.2 21.9 32.9

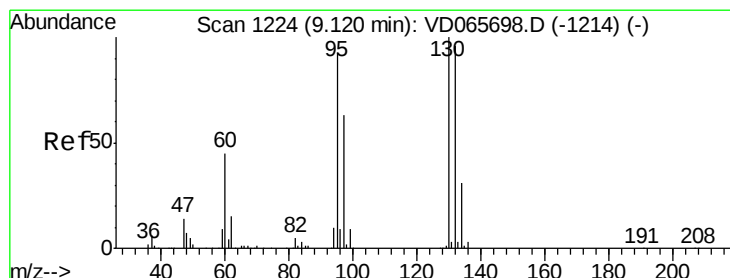
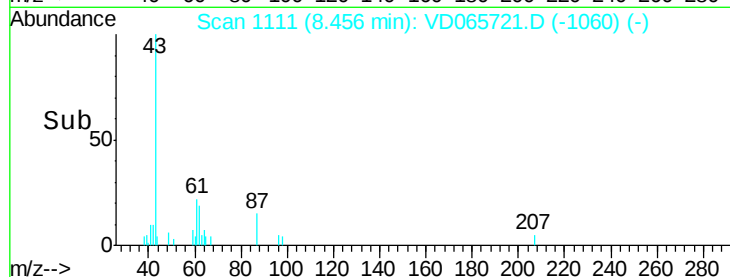
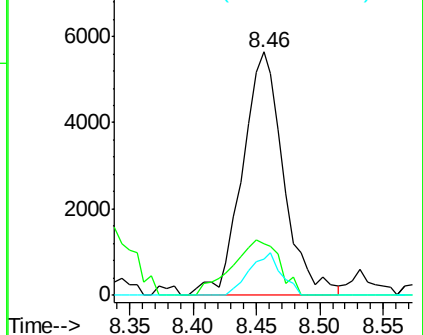
87 13.4 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 3.044 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD065721.D

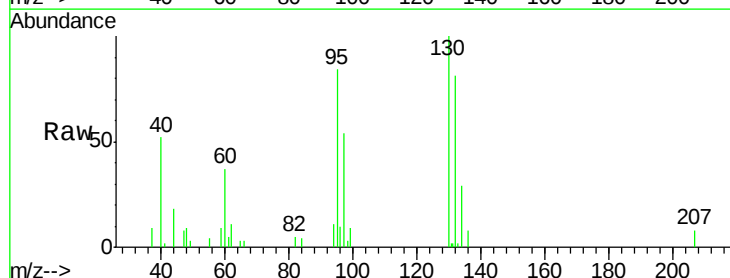
Acq: 08 May 2020 13:23

Tgt Ion: 130 Resp: 12984

Ion Ratio Lower Upper

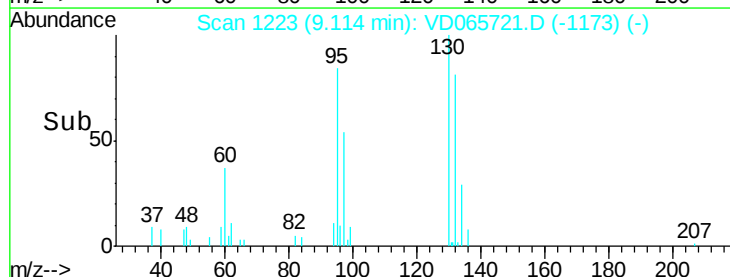
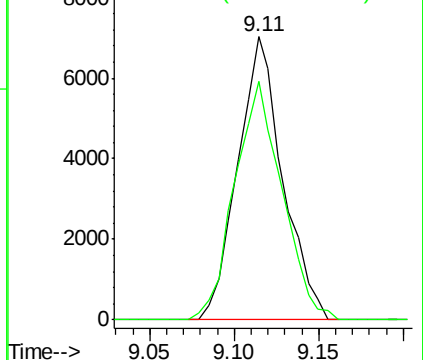
130 100

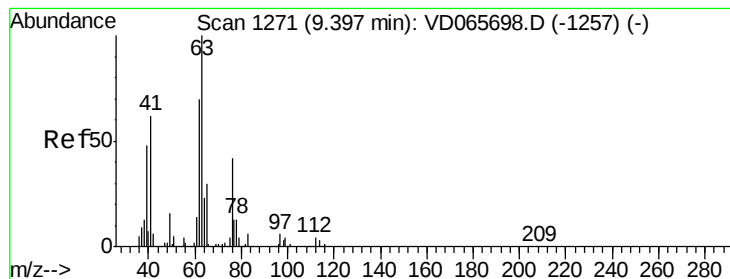
95 84.1 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.419 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

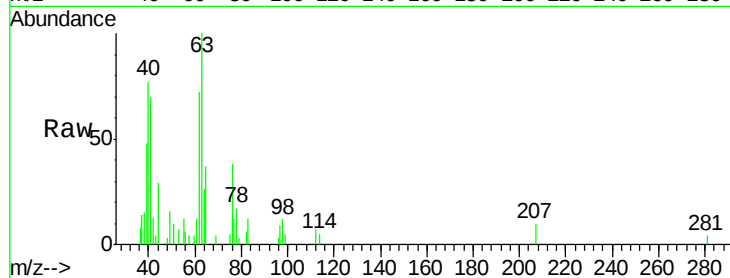
MDL-SOIL-03-QT2-2020DL

Tot Ion: 63 Resp: 9683

Ion Ratio Lower Upper

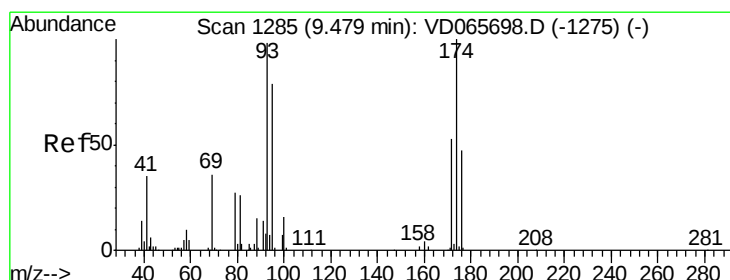
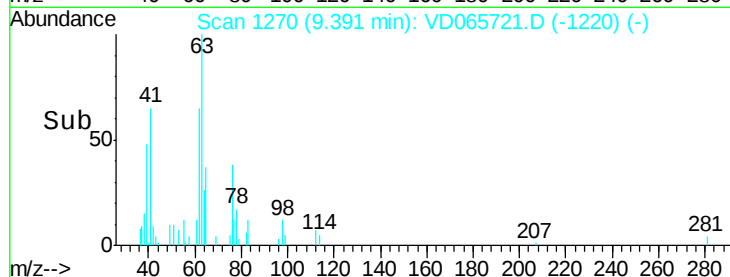
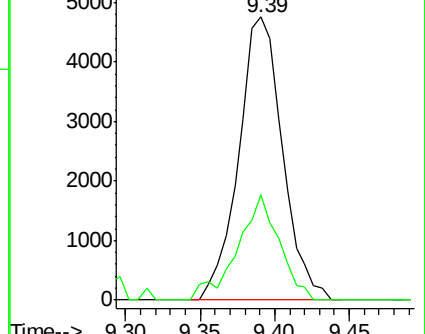
63 100

65 37.4 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 2.445 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

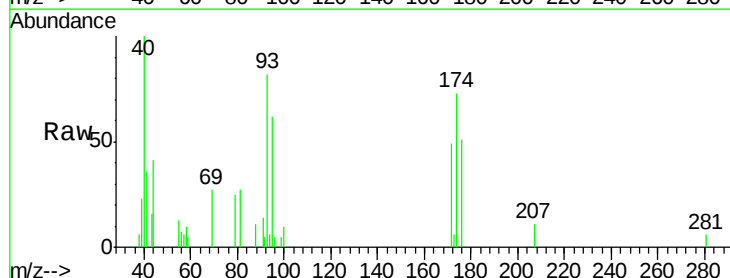
Tgt Ion: 93 Resp: 4909

Ion Ratio Lower Upper

93 100

95 82.7 65.3 97.9

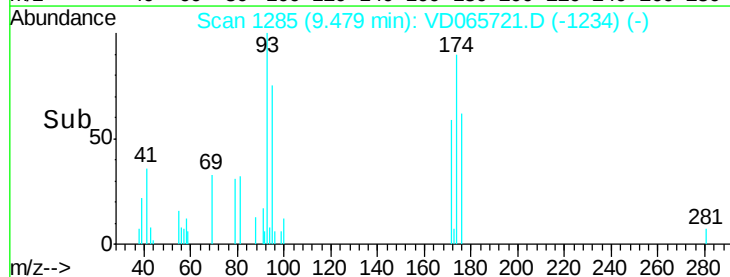
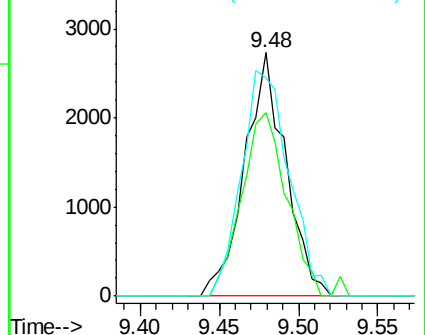
174 107.3 82.7 124.1

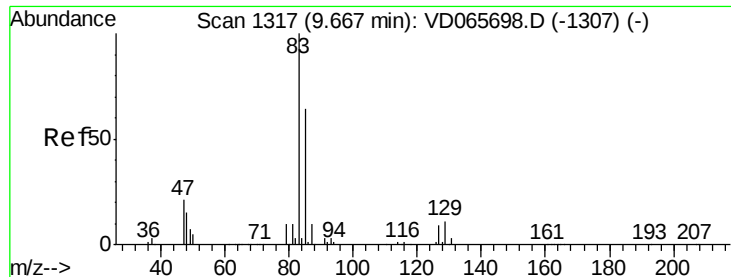


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.666 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

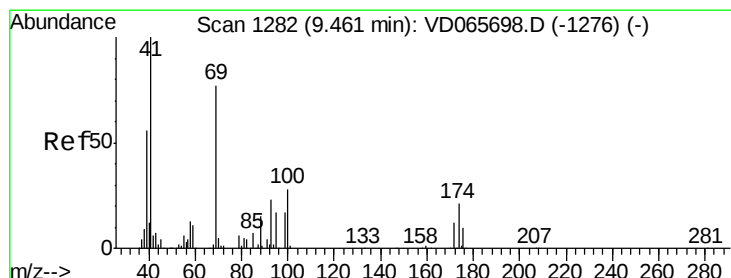
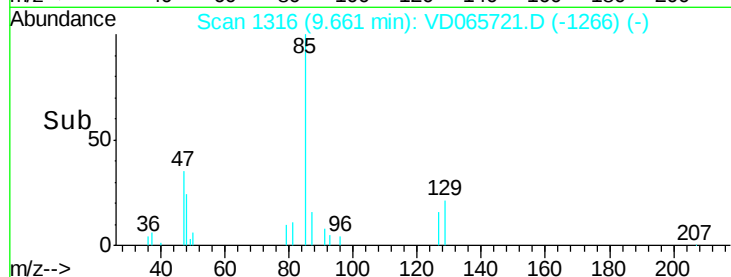
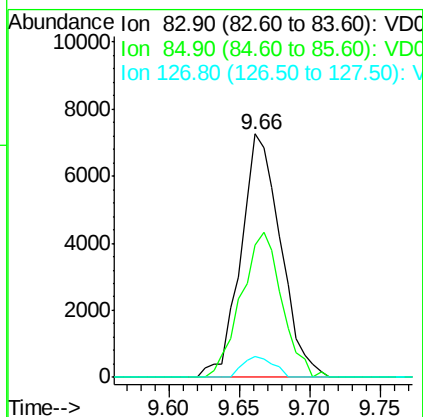
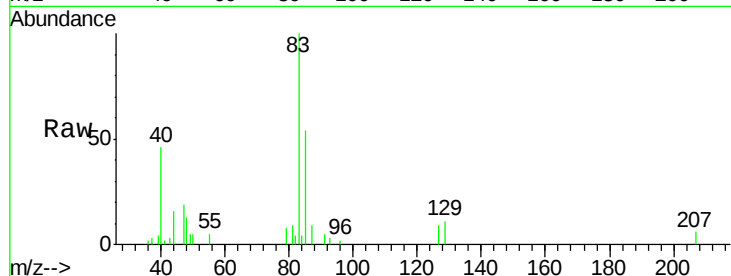
Tot Ion: 83 Resp: 14317

Ion Ratio Lower Upper

83 100

85 54.4 50.9 76.3

127 8.5 6.9 10.3



#48

Methyl methacrylate

Concen: 1.843 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

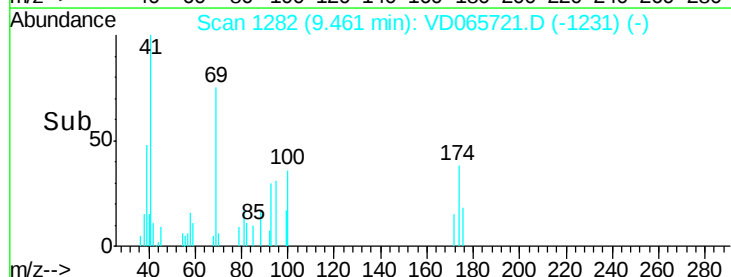
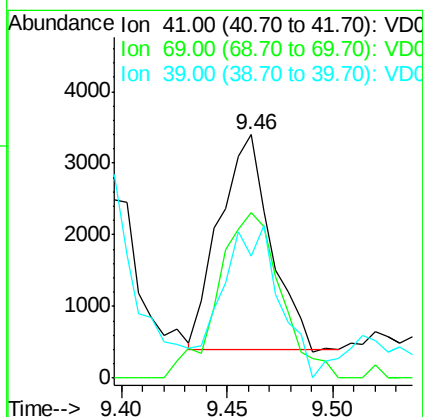
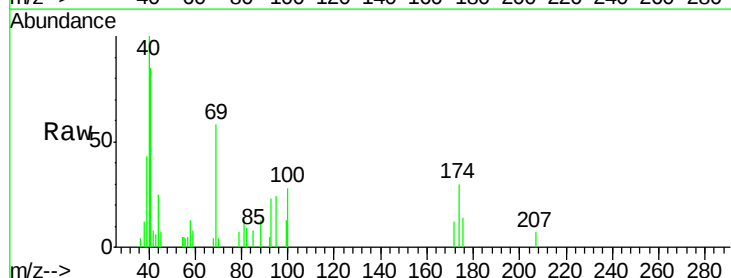
Tgt Ion: 41 Resp: 5038

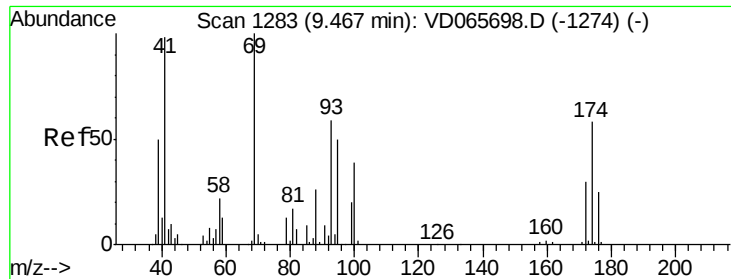
Ion Ratio Lower Upper

41 100

69 94.6 58.2 87.2#

39 78.4 43.3 64.9#

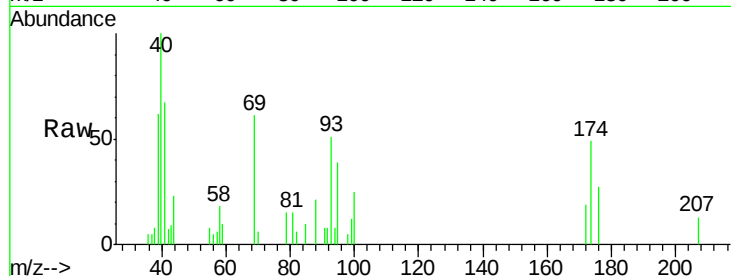




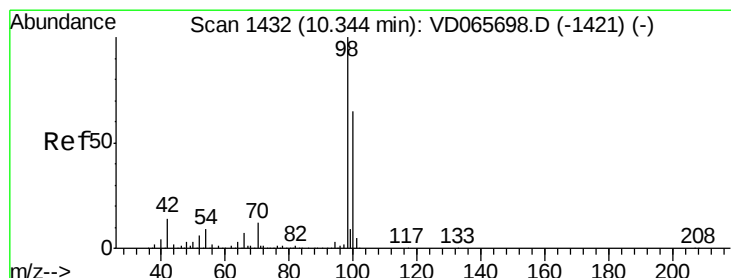
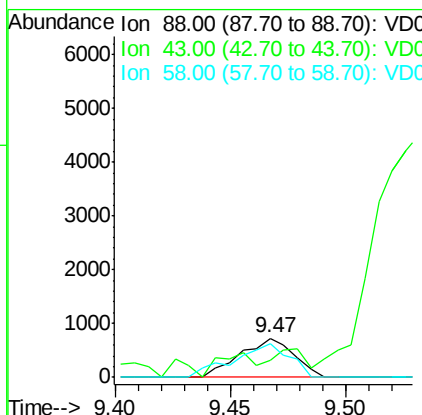
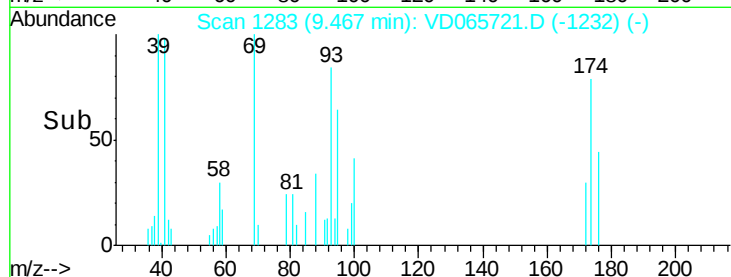
#49
 1,4-Dioxane
 Concen: 47.572 ug/l
 RT: 9.47 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion: 88 Resp: 1171
 Ion Ratio Lower Upper
 88 100
 43 25.2 31.6 47.4#
 58 88.4 60.2 90.4

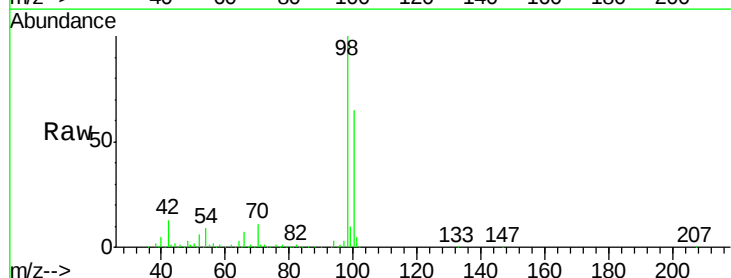


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

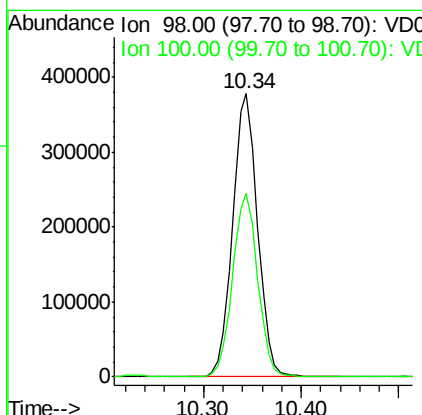
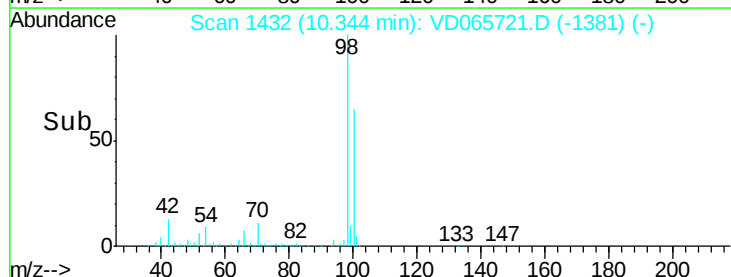


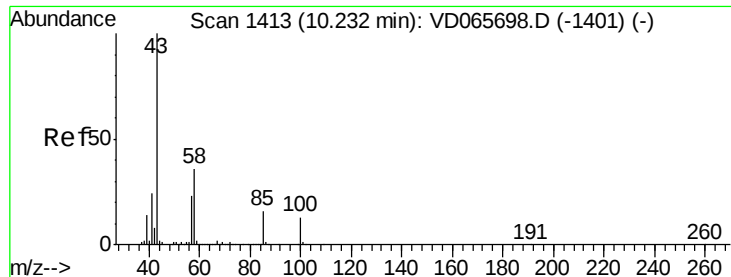
#50
 Toluene-d8
 Concen: 48.856 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 98 Resp: 669266
 Ion Ratio Lower Upper
 98 100
 100 65.6 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 10.761 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

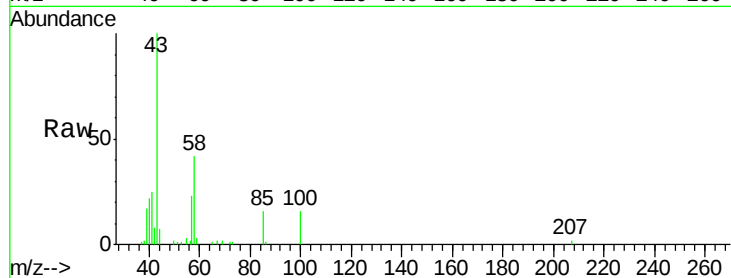
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 28307

Ion Ratio Lower Upper

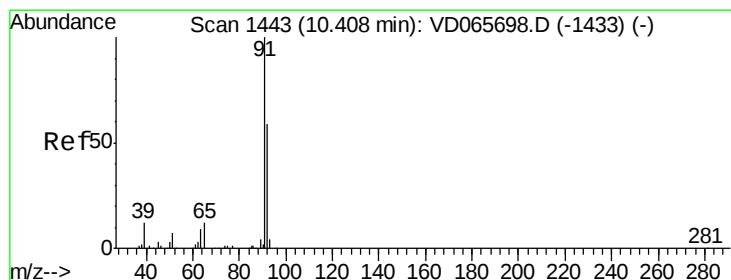
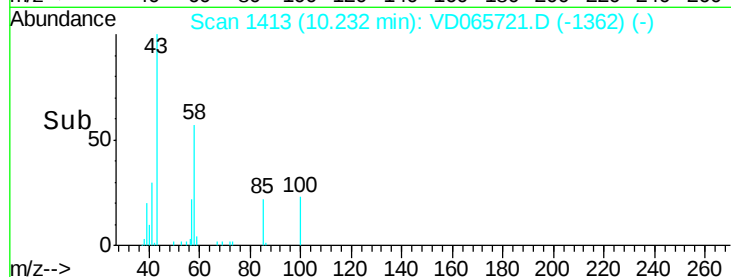
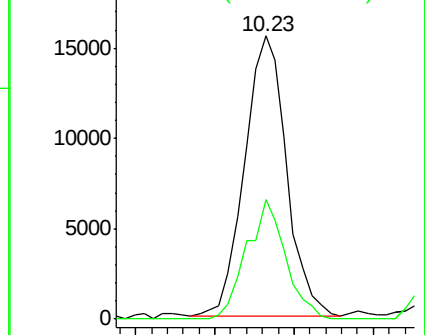
43 100

58 40.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 2.678 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD065721.D

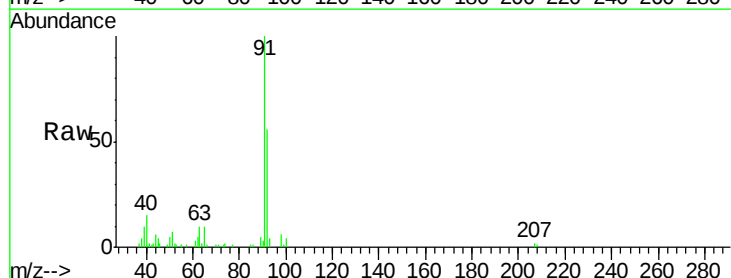
Acq: 08 May 2020 13:23

Tgt Ion: 92 Resp: 26219

Ion Ratio Lower Upper

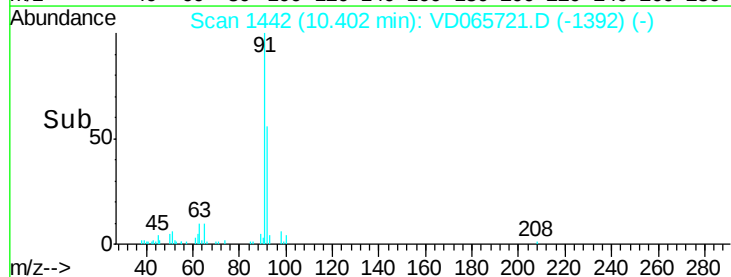
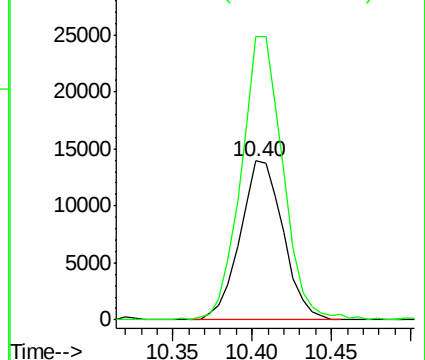
92 100

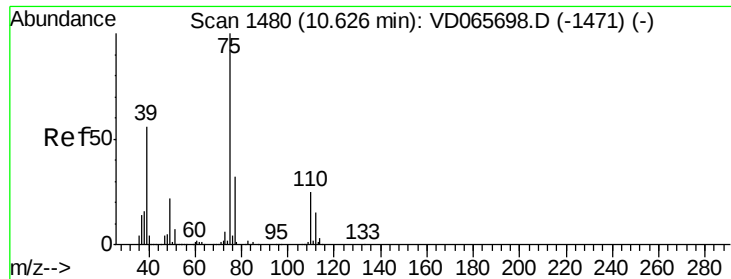
91 173.7 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

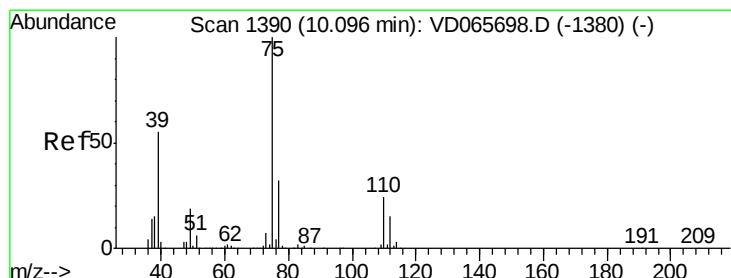
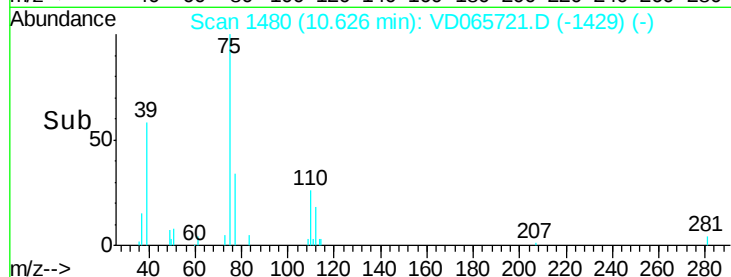
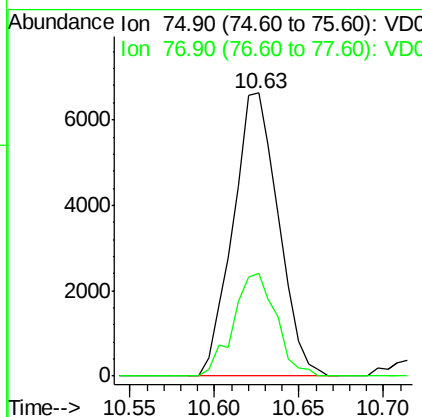
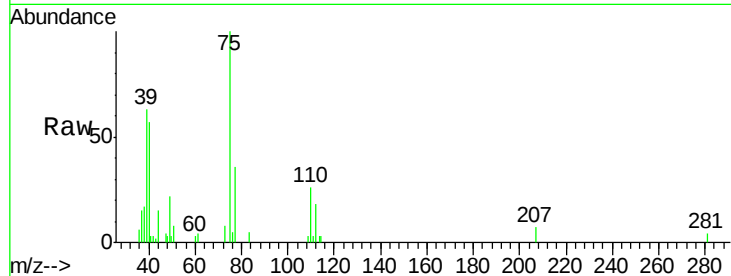




#53
t-1,3-Dichloropropene
Concen: 2.282 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

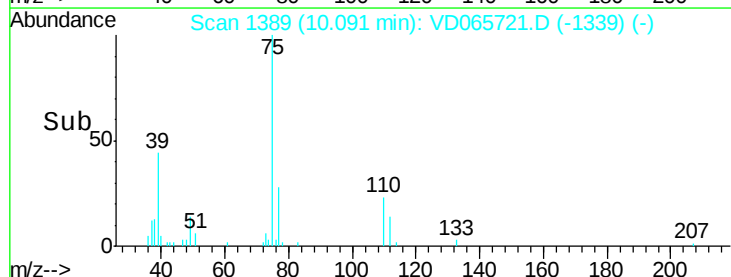
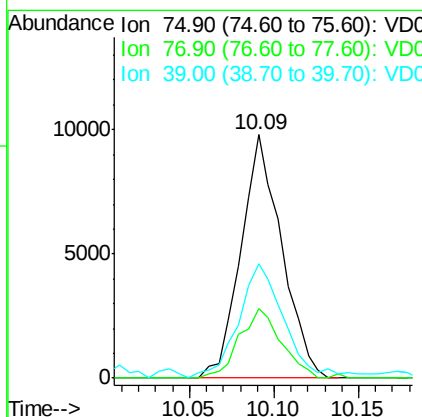
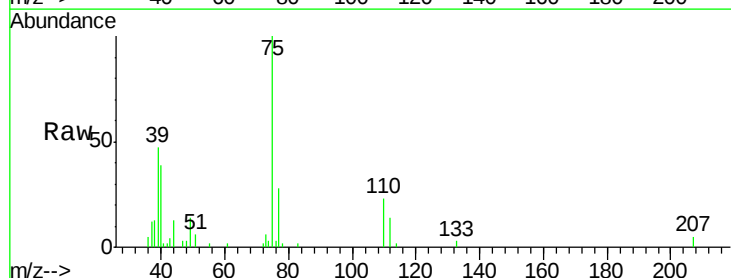
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

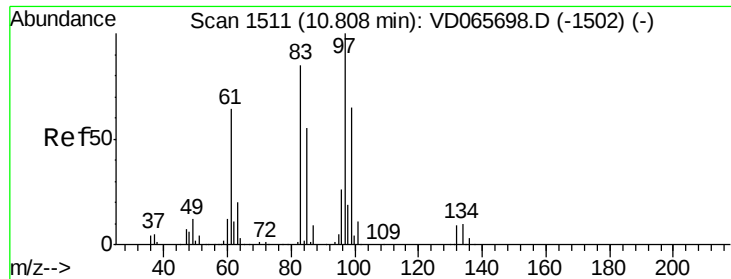
Tot Ion: 75 Resp: 12410
Ion Ratio Lower Upper
75 100
77 36.4 25.4 38.0



#54
cis-1,3-Dichloropropene
Concen: 2.560 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 75 Resp: 16405
Ion Ratio Lower Upper
75 100
77 28.5 25.8 38.8
39 46.8 44.4 66.6





#55

1,1,2-Trichloroethane

Concen: 2.760 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 97 Resp: 7471

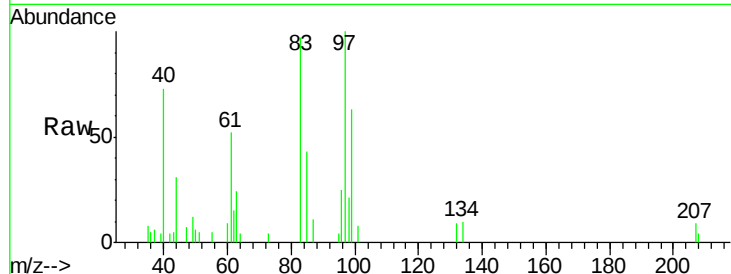
Ion Ratio Lower Upper

97 100

83 96.5 68.2 102.4

85 39.7 43.6 65.4#

99 62.9 52.2 78.4

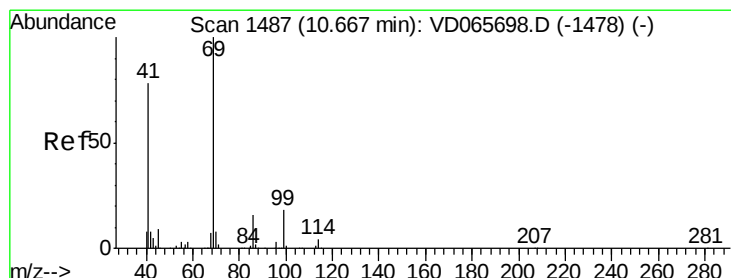
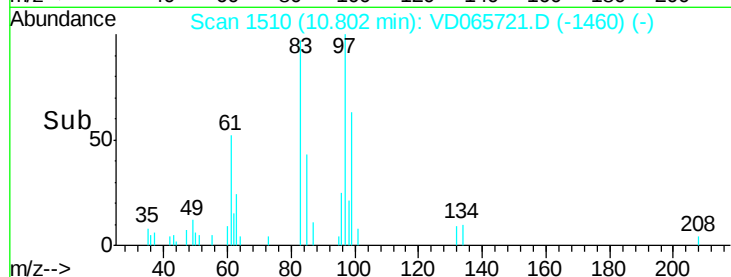
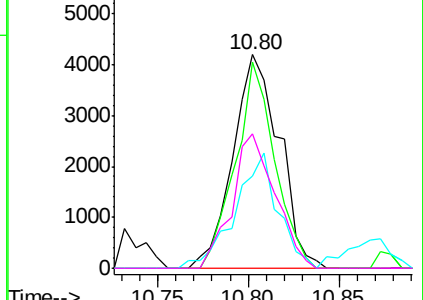


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 2.385 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

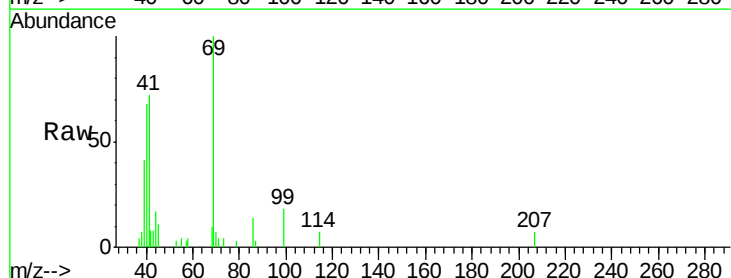
Tgt Ion: 69 Resp: 9323

Ion Ratio Lower Upper

69 100

41 81.9 61.4 92.0

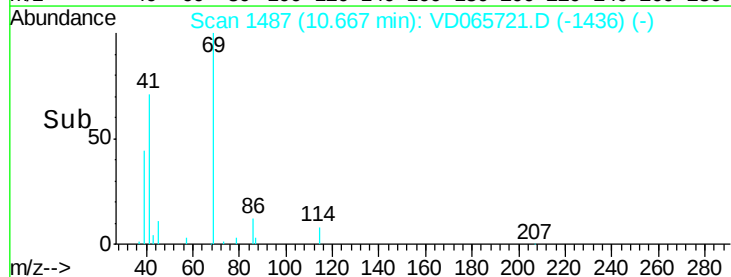
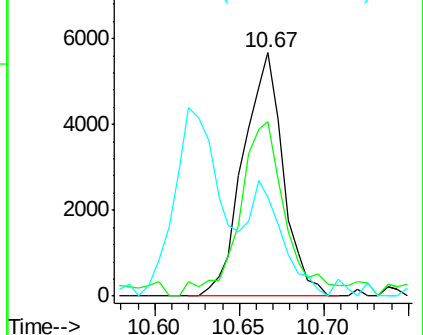
39 40.0 32.7 49.1

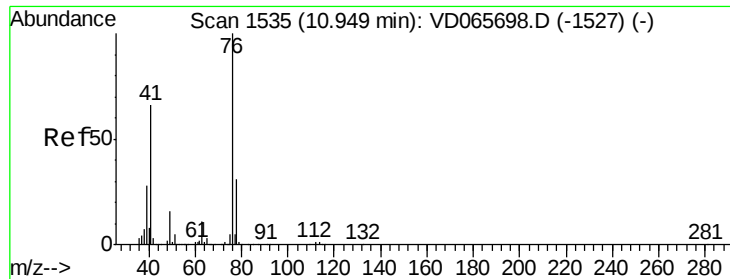


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

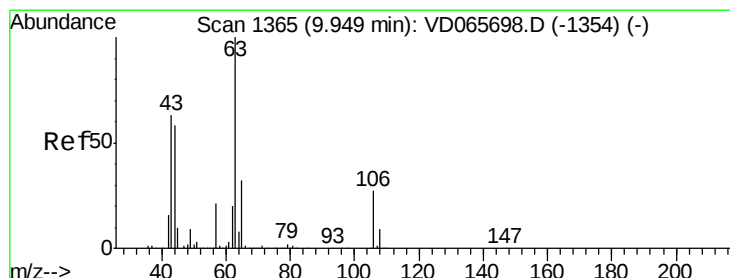
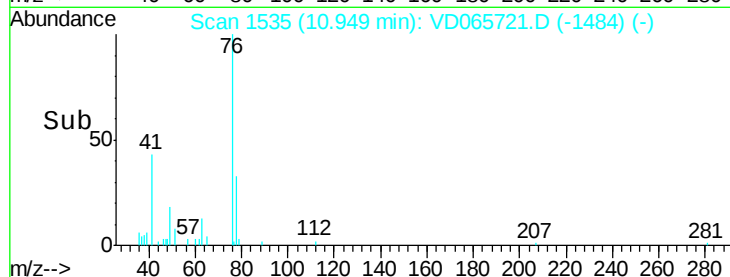
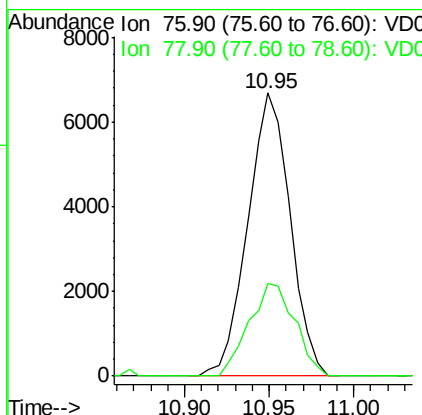
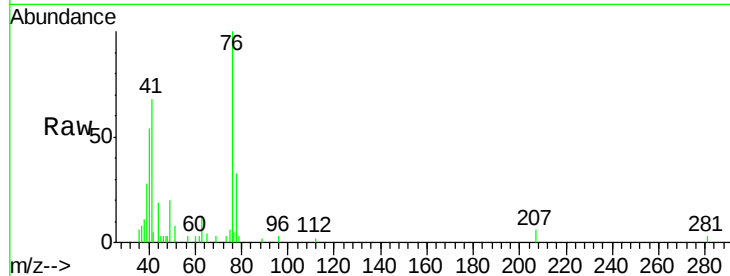




#57
 1,3-Dichloropropane
 Concen: 2.394 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

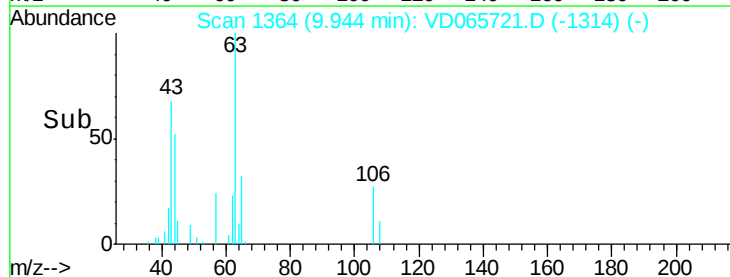
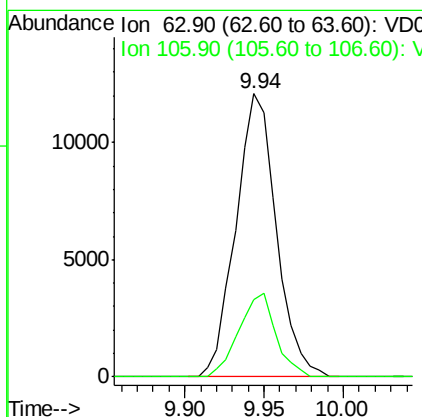
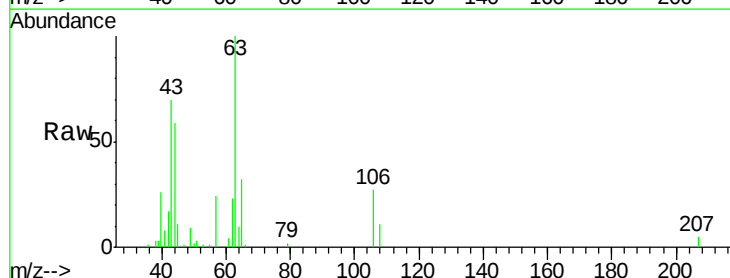
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

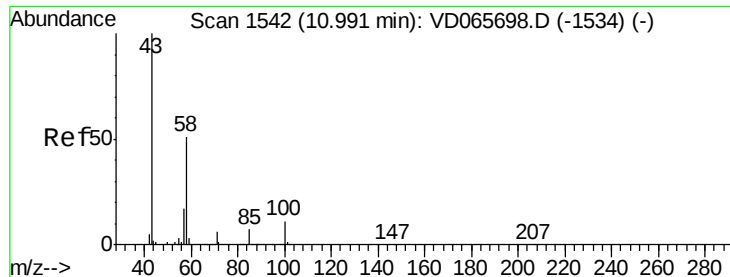
Tot Ion: 76 Resp: 11651
 Ion Ratio Lower Upper
 76 100
 78 35.5 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.901 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 63 Resp: 21356
 Ion Ratio Lower Upper
 63 100
 106 27.1 22.0 33.0

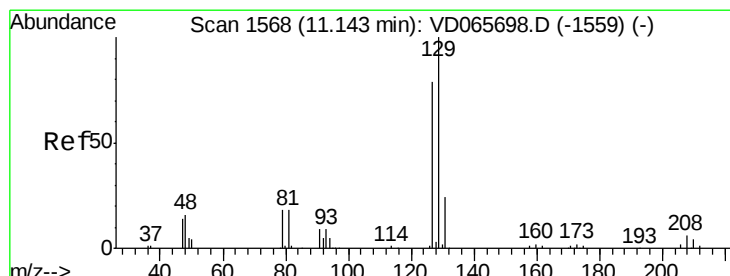
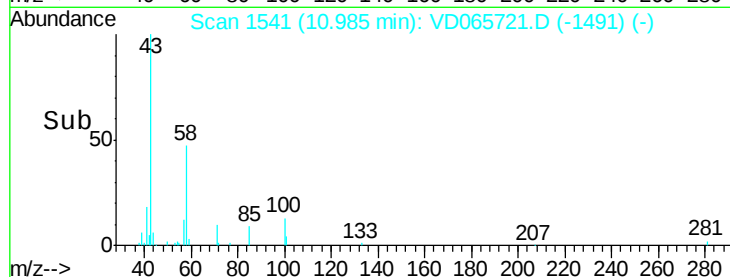
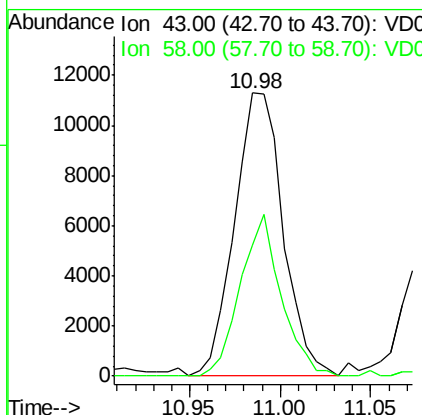
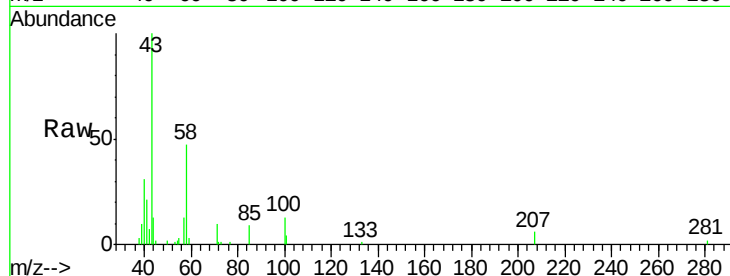




#59
2-Hexanone
Concen: 11.622 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

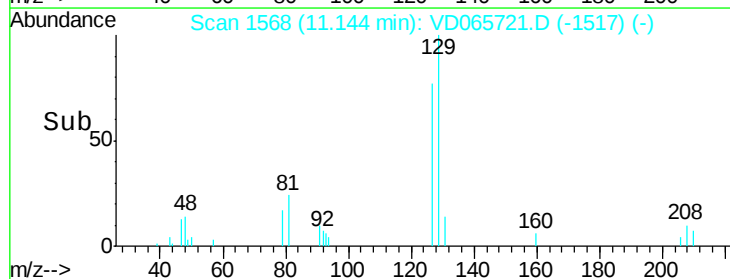
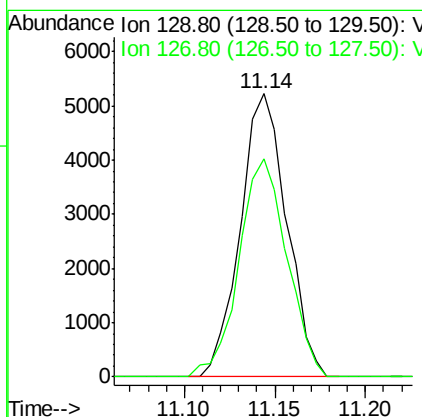
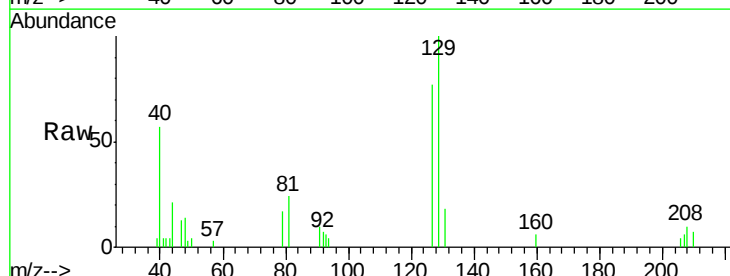
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

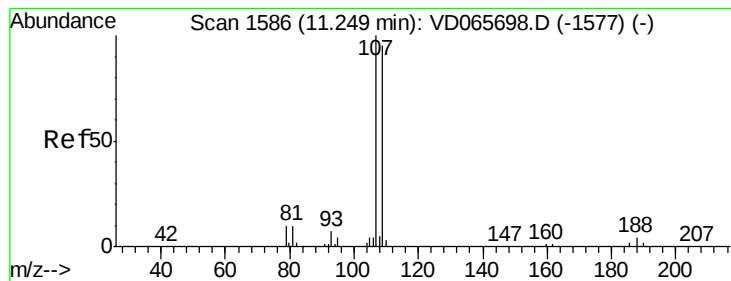
Tot Ion: 43 Resp: 21027
Ion Ratio Lower Upper
43 100
58 48.2 25.4 76.0



#60
Dibromochloromethane
Concen: 2.555 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 129 Resp: 9292
Ion Ratio Lower Upper
129 100
127 79.6 38.9 116.6





#61

1,2-Dibromoethane

Concen: 2.489 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

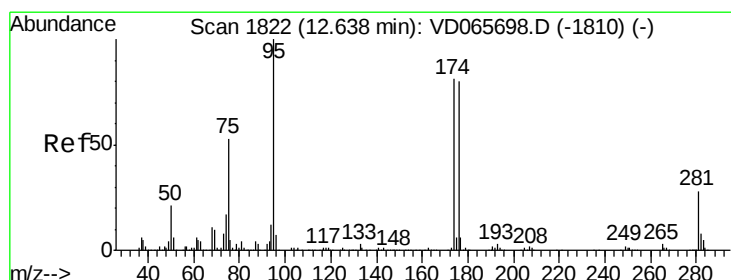
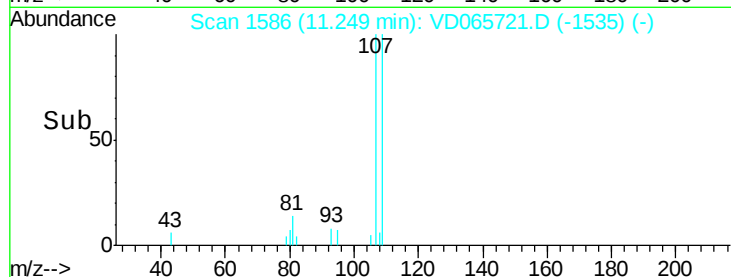
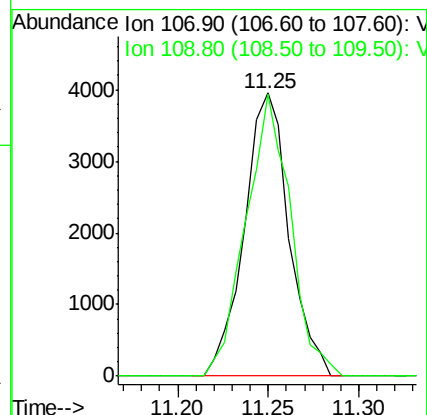
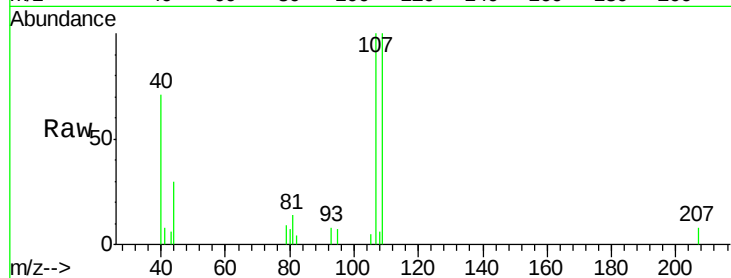
MDL-SOIL-03-QT2-2020DL

Tot Ion: 107 Resp: 6780

Ion Ratio Lower Upper

107 100

109 99.3 74.9 112.3



#62

4-Bromofluorobenzene

Concen: 46.503 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

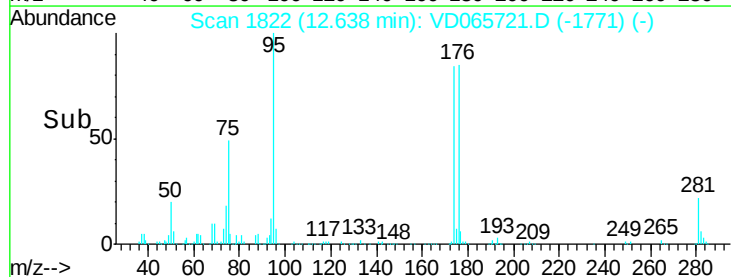
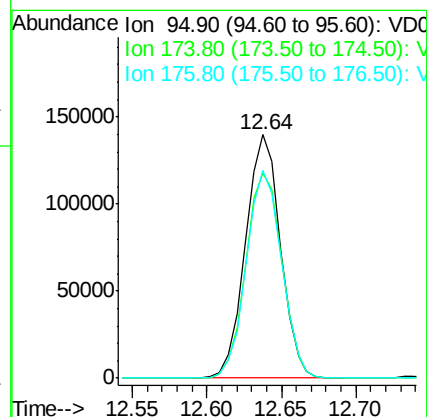
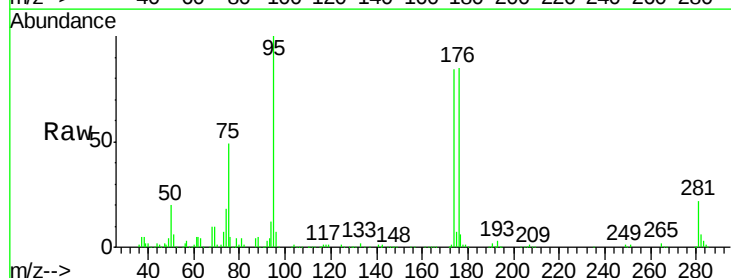
Tgt Ion: 95 Resp: 225835

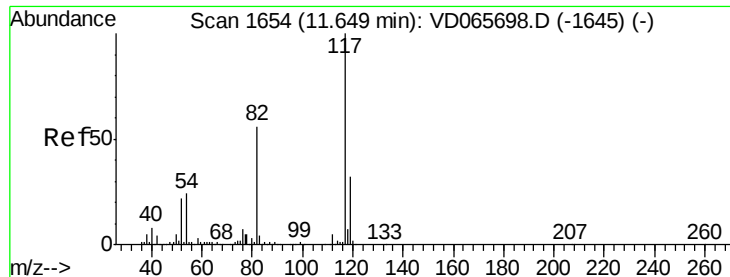
Ion Ratio Lower Upper

95 100

174 87.4 0.0 162.6

176 86.2 0.0 159.0

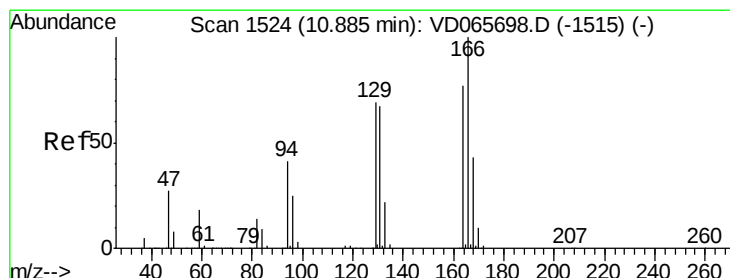
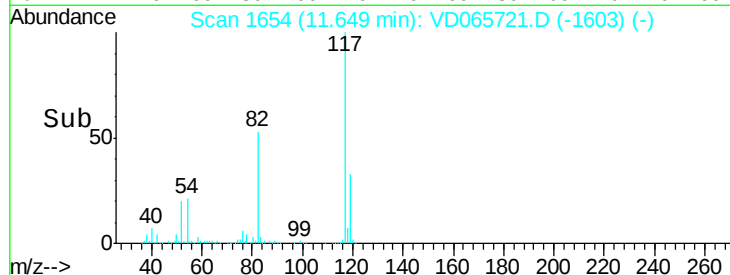
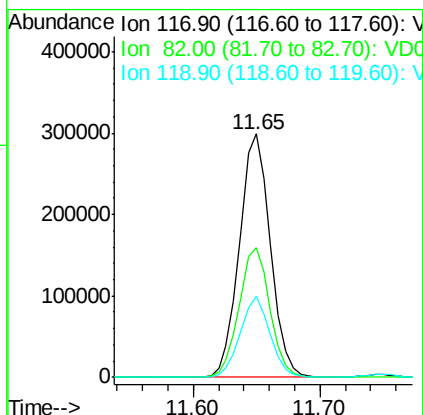
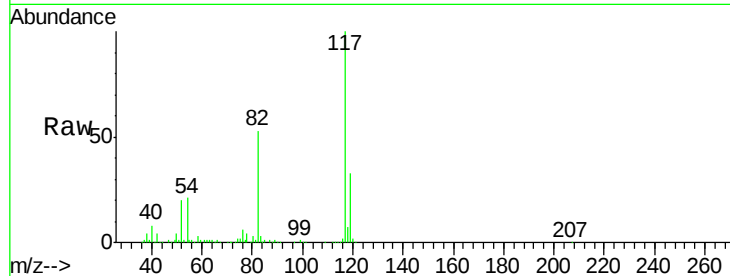




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

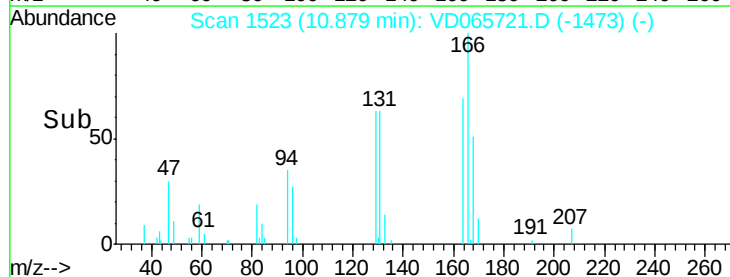
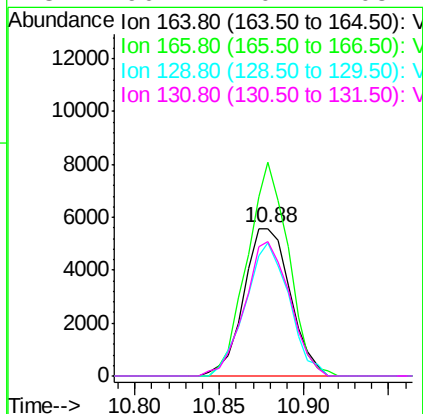
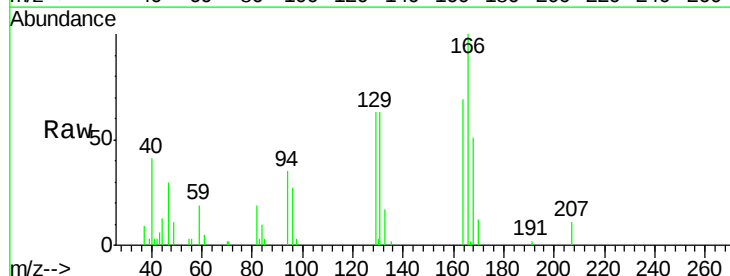
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

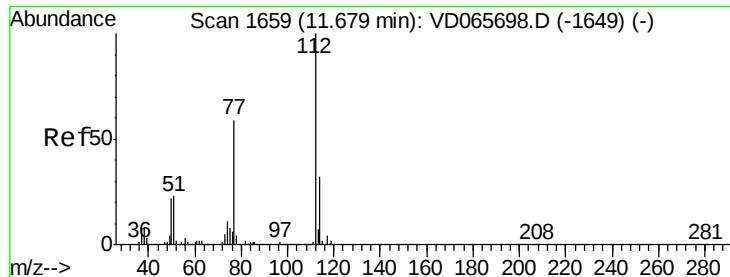
Tot Ion:117 Resp: 507283
Ion Ratio Lower Upper
117 100
82 53.3 44.9 67.3
119 33.2 25.4 38.2



#64
Tetrachloroethene
Concen: 2.954 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion:164 Resp: 10664
Ion Ratio Lower Upper
164 100
166 144.8 104.3 156.5
129 90.5 71.9 107.9
131 90.7 70.2 105.2





#65

Chlorobenzene

Concen: 2.712 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

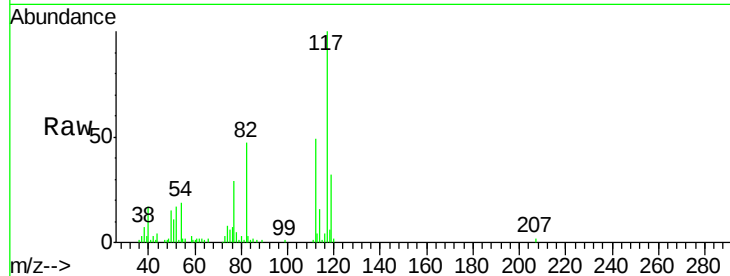
MDL-SOIL-03-QT2-2020DL

Tot Ion:112 Resp: 27718

Ion Ratio Lower Upper

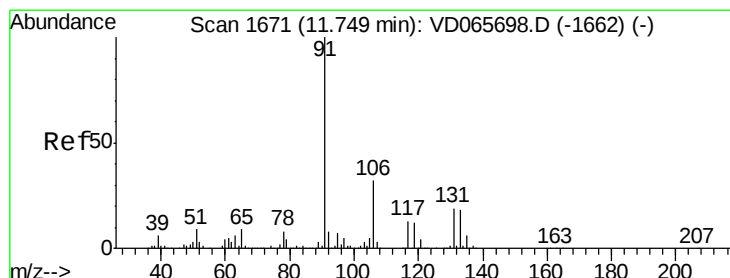
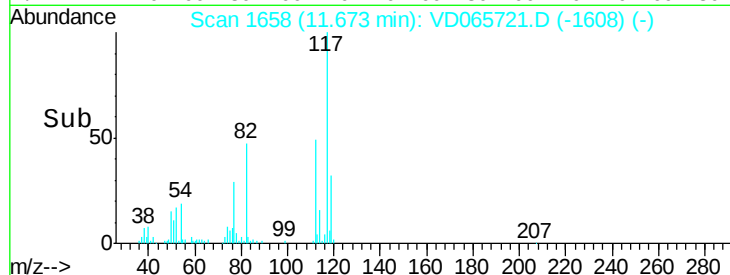
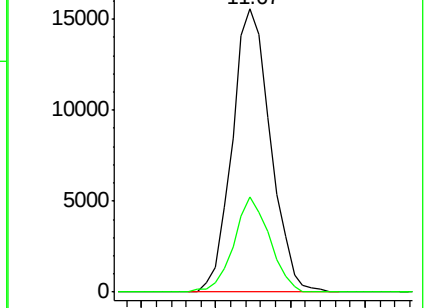
112 100

114 33.7 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.496 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

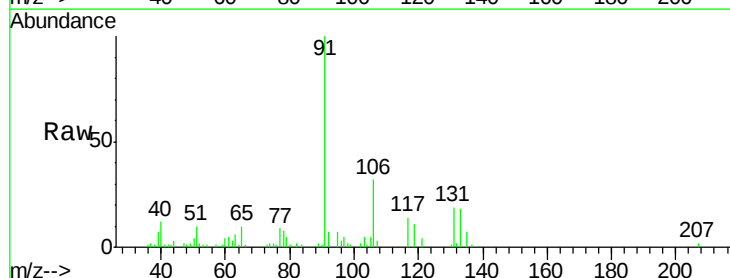
Tgt Ion:131 Resp: 9511

Ion Ratio Lower Upper

131 100

133 99.8 47.3 141.8

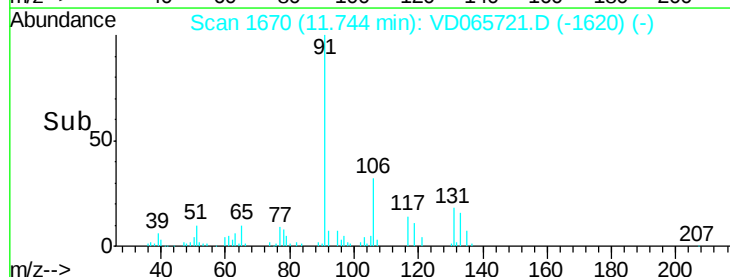
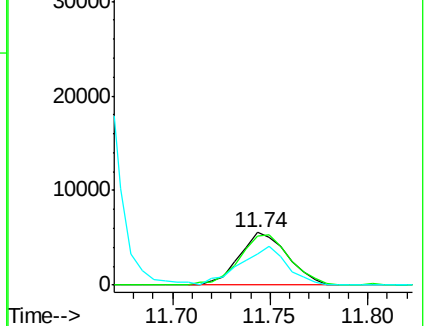
119 71.1 31.8 95.4

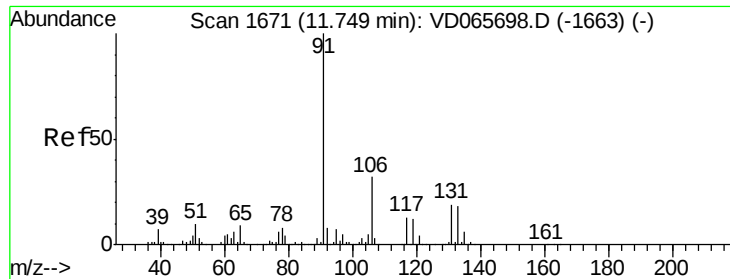


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

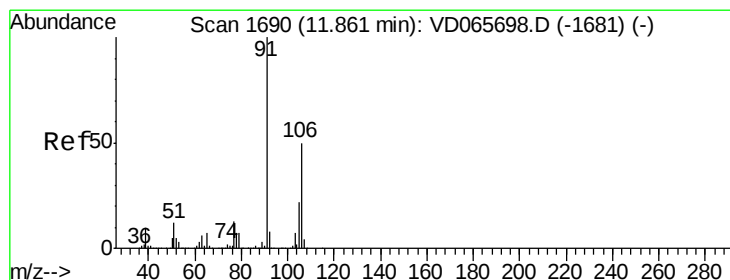
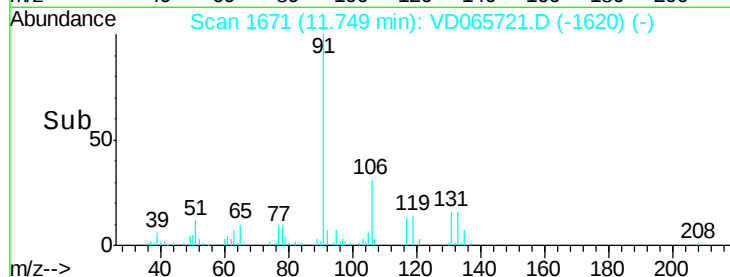
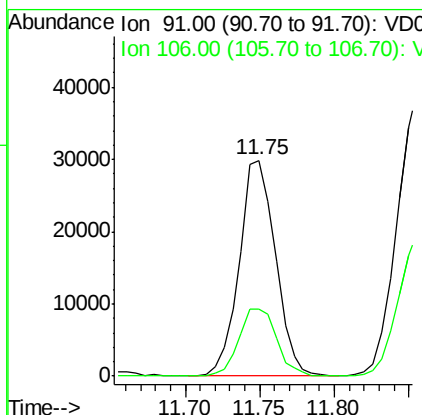
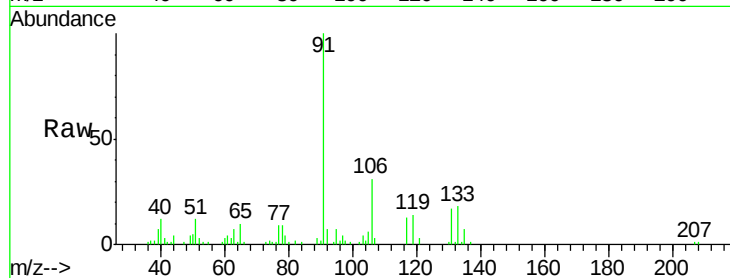




#67
Ethyl Benzene
Concen: 2.636 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

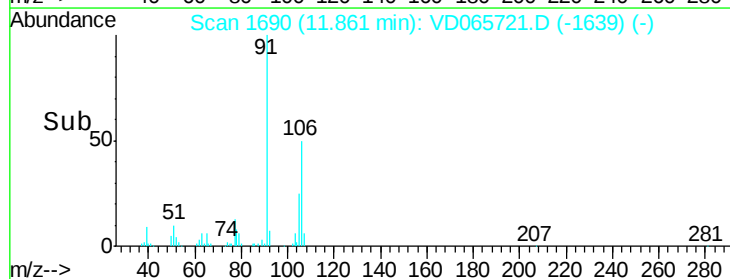
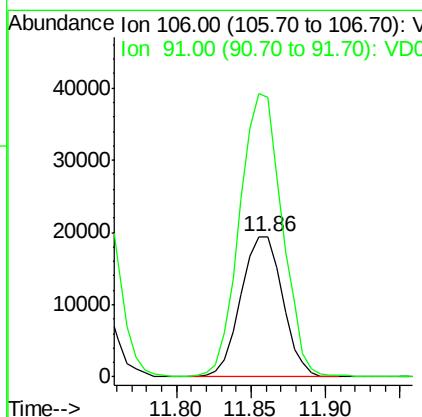
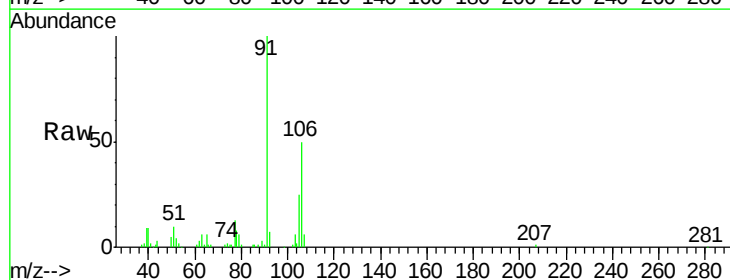
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

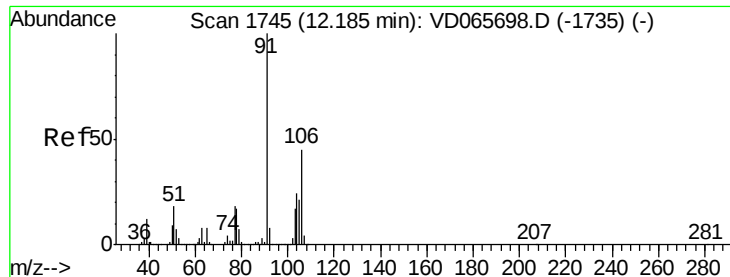
Tot Ion: 91 Resp: 50253
Ion Ratio Lower Upper
91 100
106 30.9 25.2 37.8



#68
m/p-Xylenes
Concen: 5.338 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 106 Resp: 37946
Ion Ratio Lower Upper
106 100
91 204.6 163.1 244.7

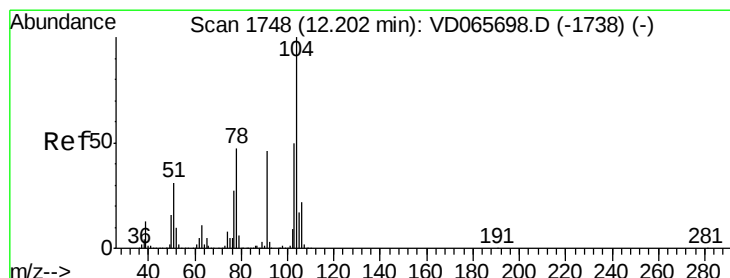
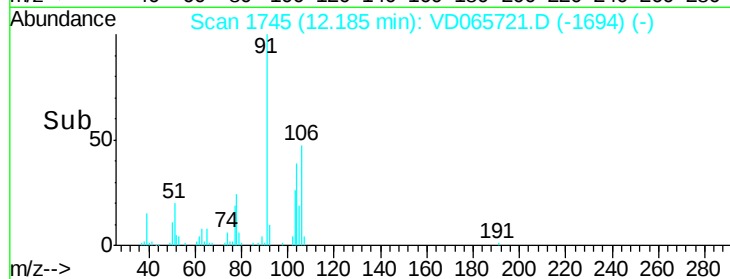
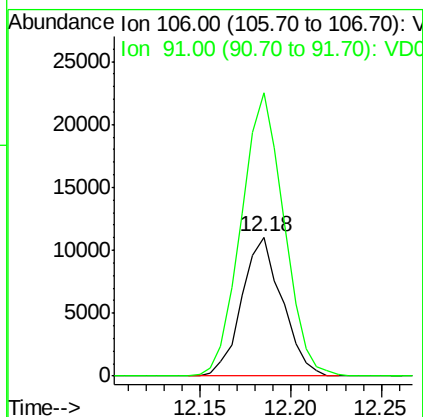
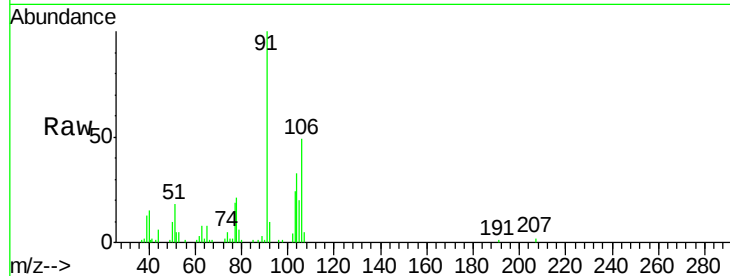




#69
o-Xylene
Concen: 2.574 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

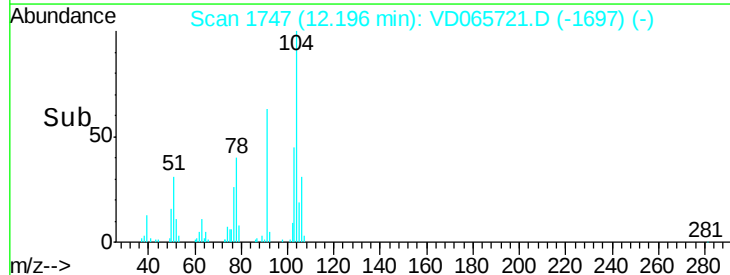
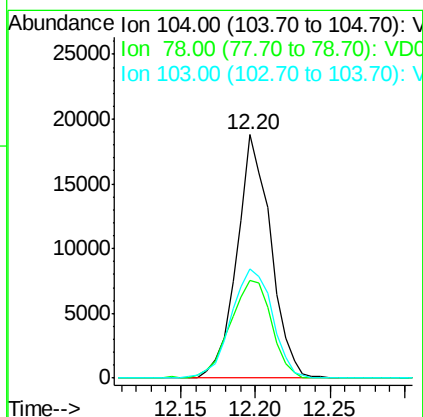
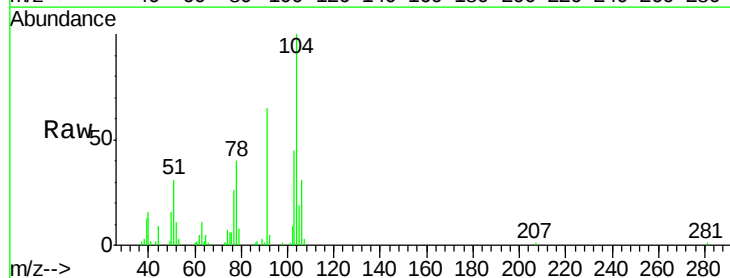
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

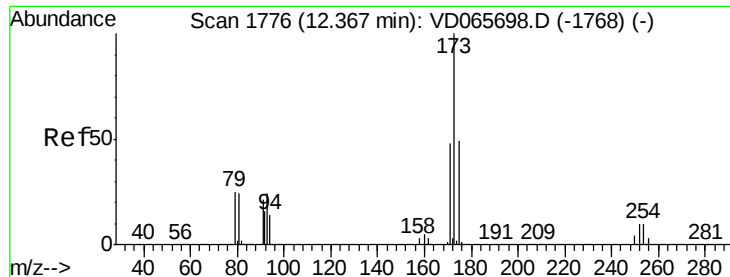
Tot Ion:106 Resp: 17071
Ion Ratio Lower Upper
106 100
91 216.0 107.9 323.7



#70
Styrene
Concen: 2.599 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion:104 Resp: 29641
Ion Ratio Lower Upper
104 100
78 48.9 41.0 61.4
103 54.7 43.8 65.6

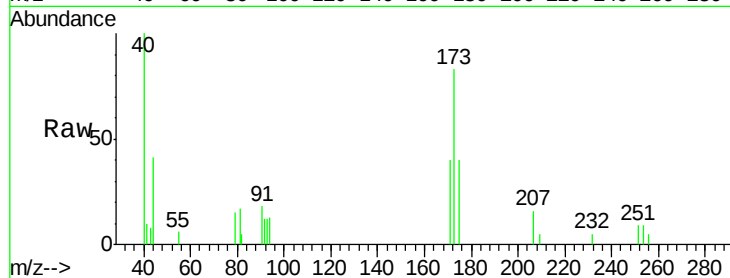




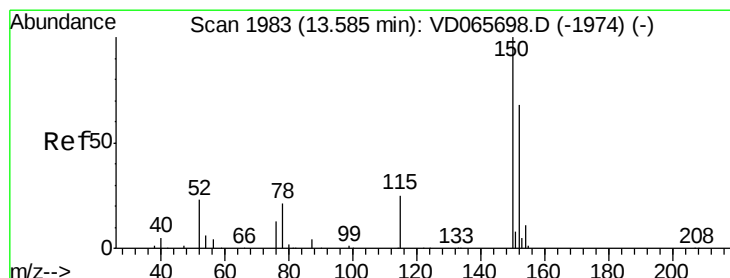
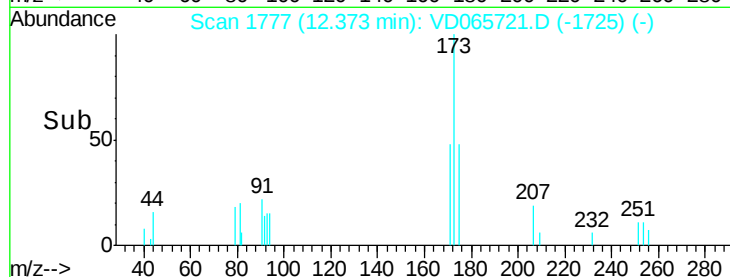
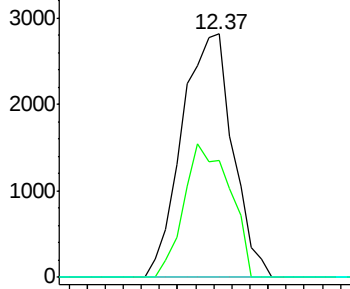
#71
Bromoform
Concen: 2.572 ug/l
RT: 12.37 min Scan# 1777
Delta R.T. 0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:173 Resp: 5514
Ion Ratio Lower Upper
173 100
175 49.4 24.5 73.5
254 0.0 0.0 0.0

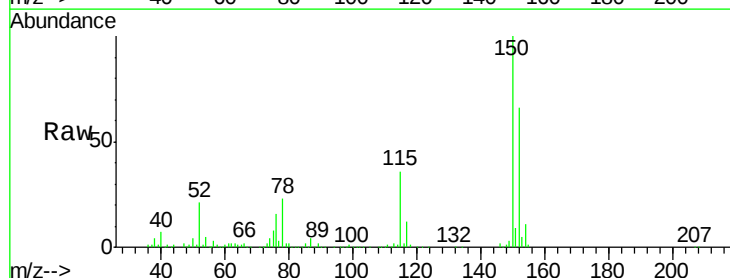


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

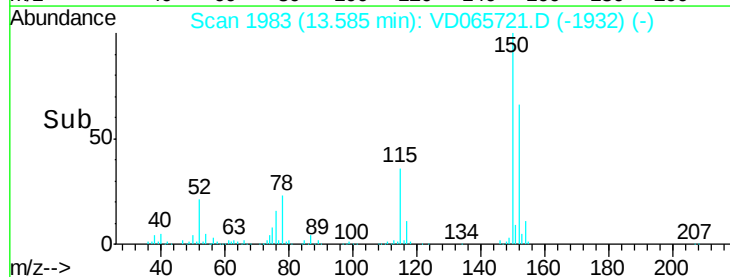
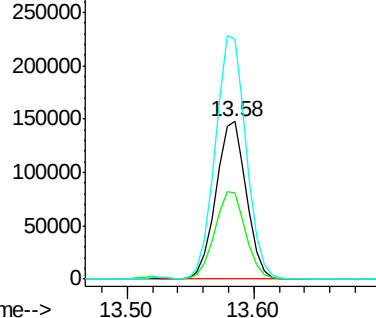


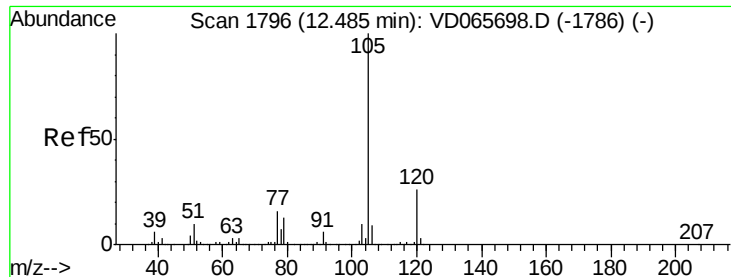
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion:152 Resp: 245309
Ion Ratio Lower Upper
152 100
115 56.3 29.5 88.5
150 156.7 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.697 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

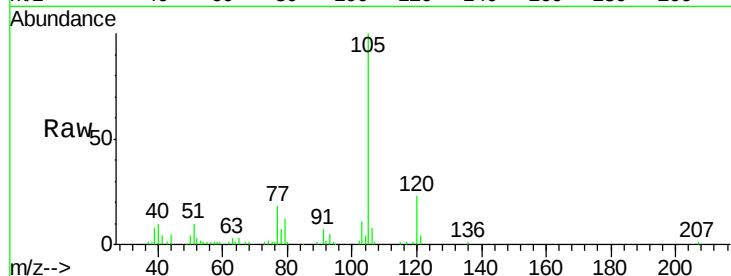
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 50123

Ion Ratio Lower Upper

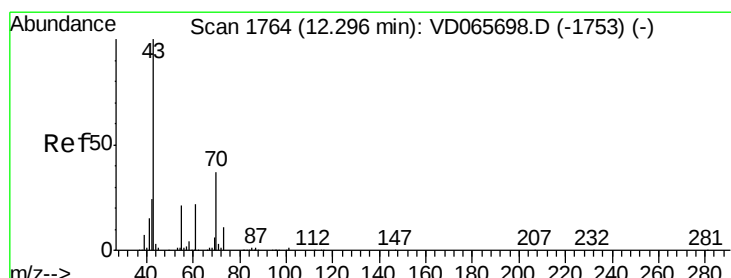
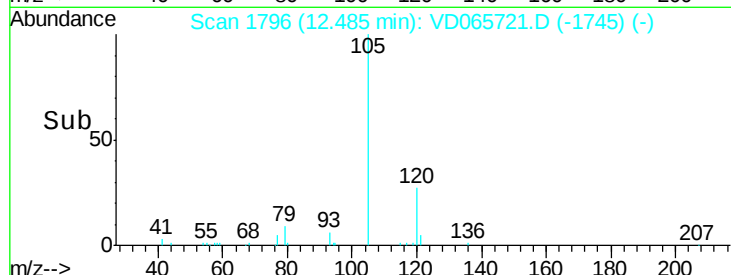
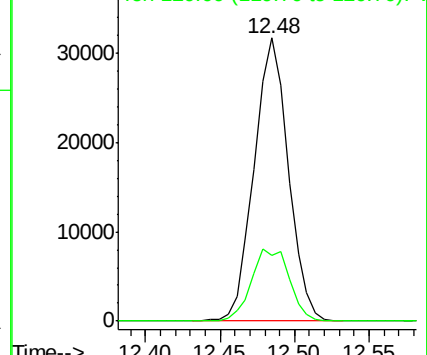
105 100

120 28.2 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.105 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Tgt Ion: 43 Resp: 11171

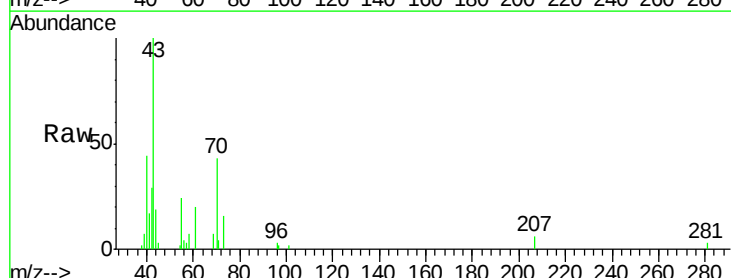
Ion Ratio Lower Upper

43 100

70 43.6 29.3 43.9

55 29.3 16.4 24.6#

61 24.2 18.0 27.0

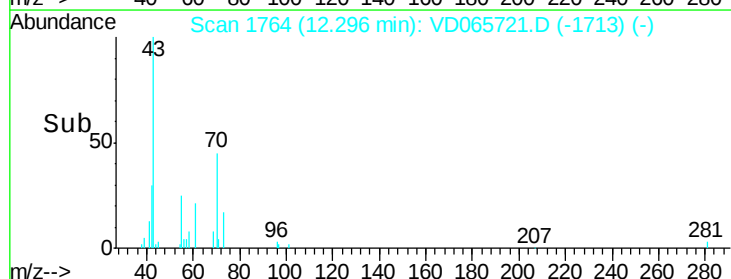
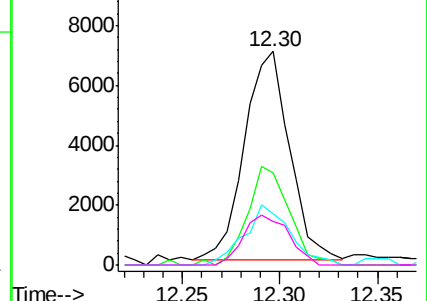


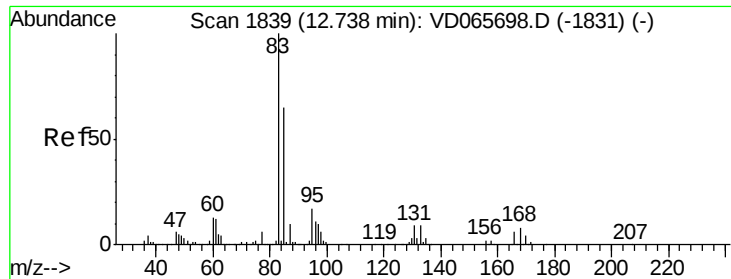
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.487 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

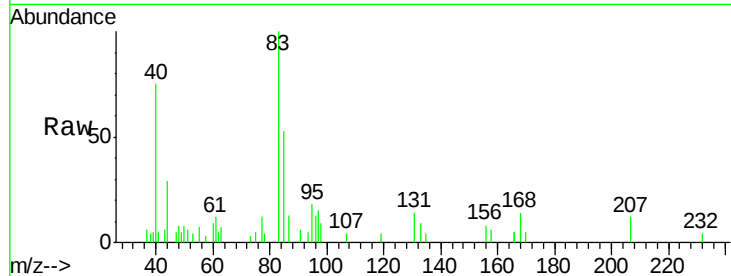
Tot Ion: 83 Resp: 7751

Ion Ratio Lower Upper

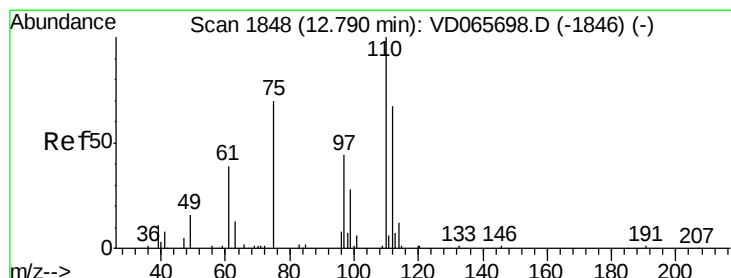
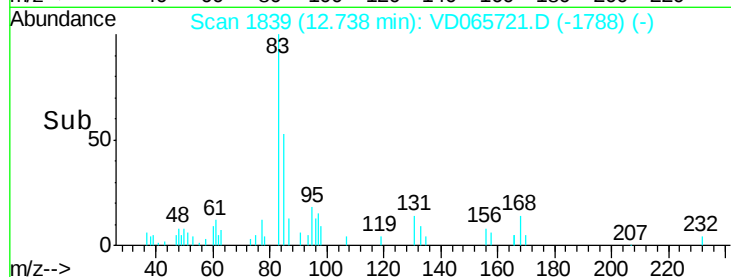
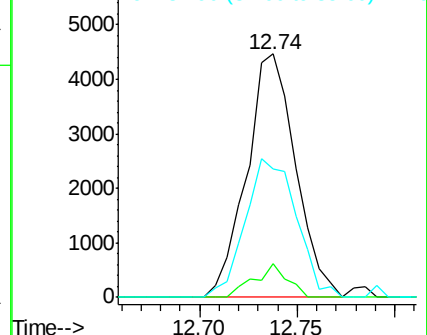
83 100

131 9.4 5.5 16.7

85 59.5 31.9 95.9



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 1.757 ug/l m

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD065721.D

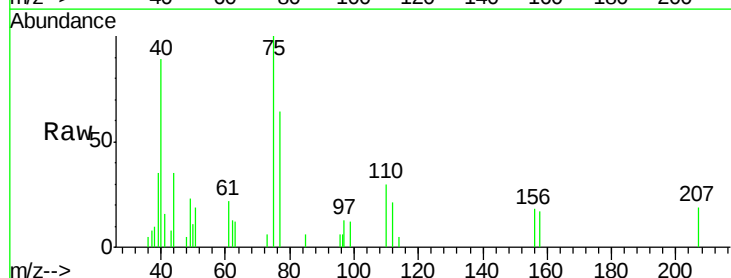
Acq: 08 May 2020 13:23

Tgt Ion: 75 Resp: 3641

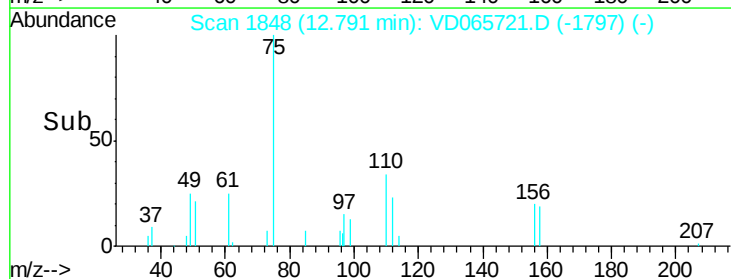
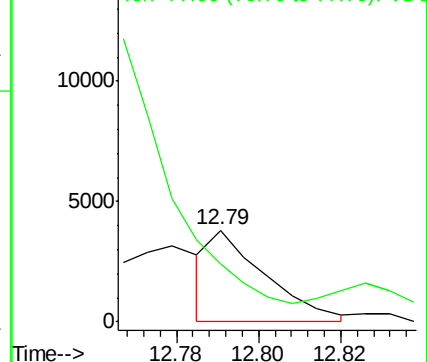
Ion Ratio Lower Upper

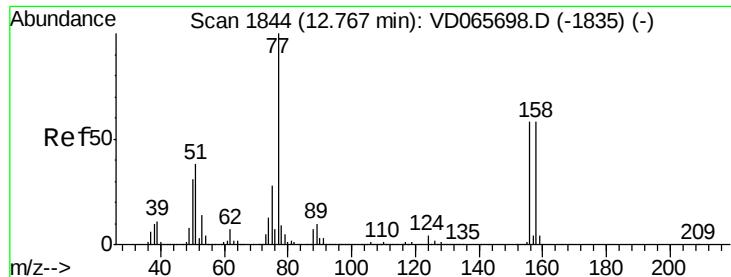
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 2.924 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

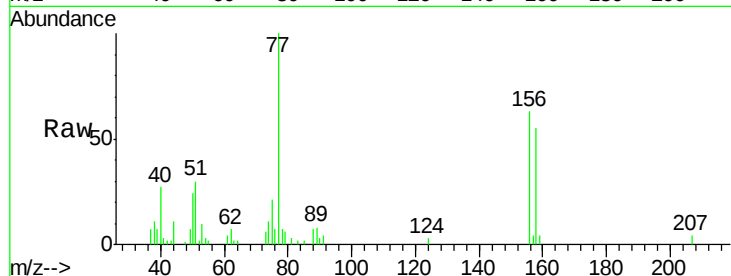
Tot Ion:156 Resp: 12463

Ion Ratio Lower Upper

156 100

77 162.8 92.9 278.7

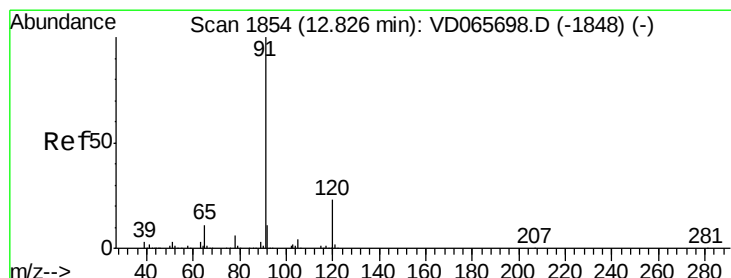
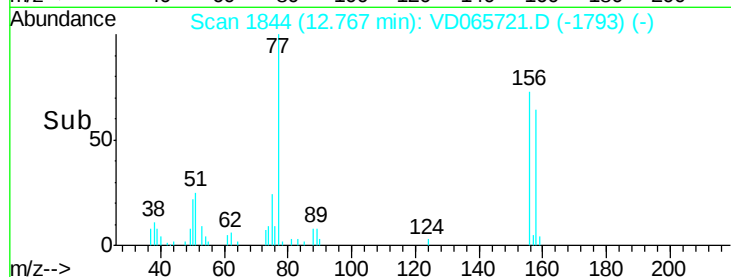
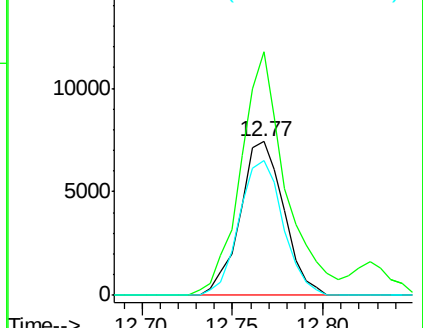
158 87.7 48.9 146.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.614 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065721.D

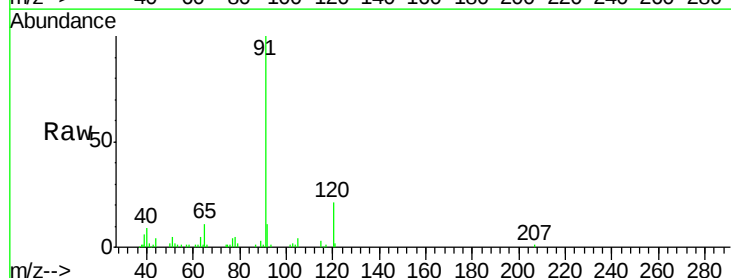
Acq: 08 May 2020 13:23

Tgt Ion: 91 Resp: 57218

Ion Ratio Lower Upper

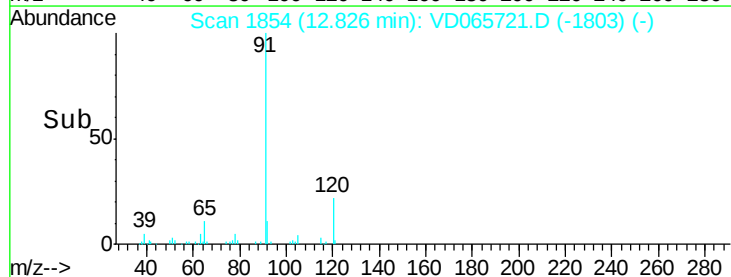
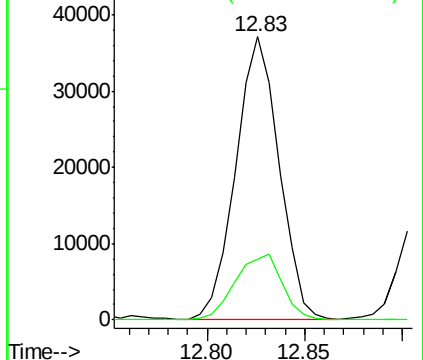
91 100

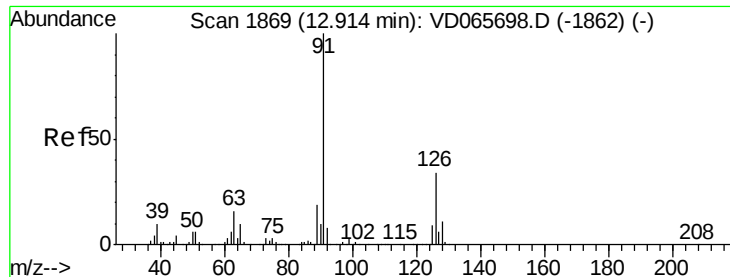
120 25.1 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

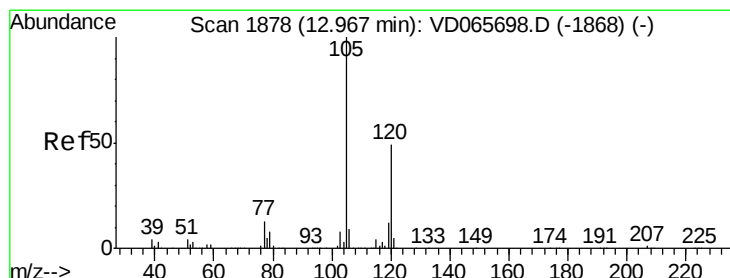
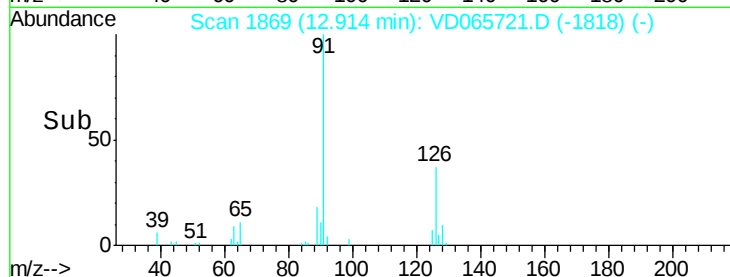
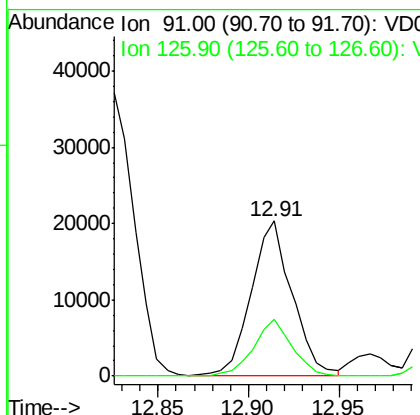
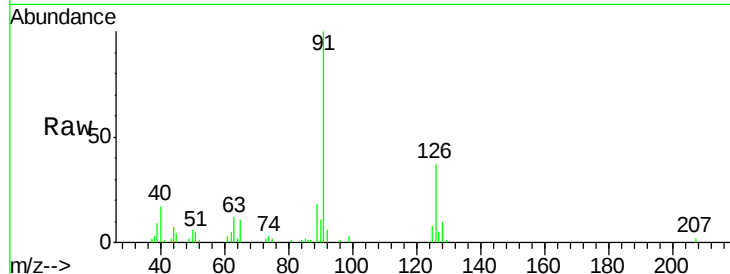




#79
 2-Chlorotoluene
 Concen: 2.594 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

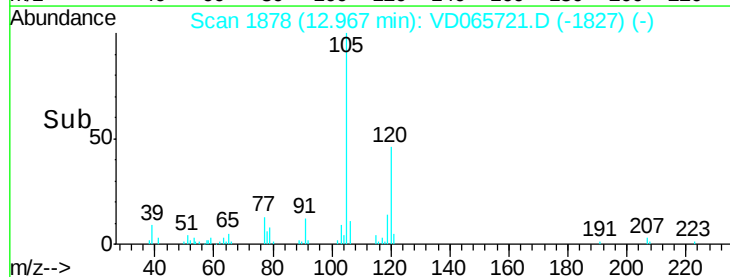
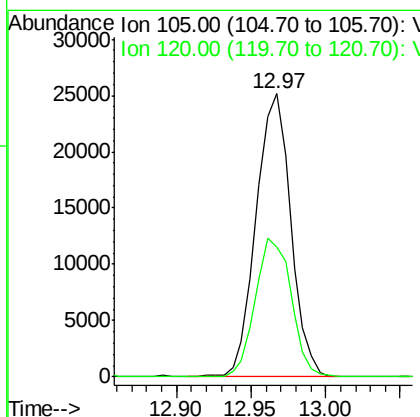
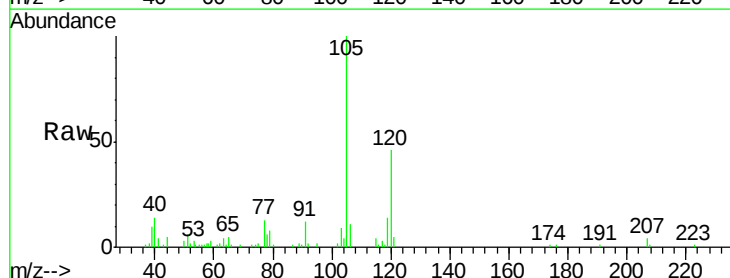
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

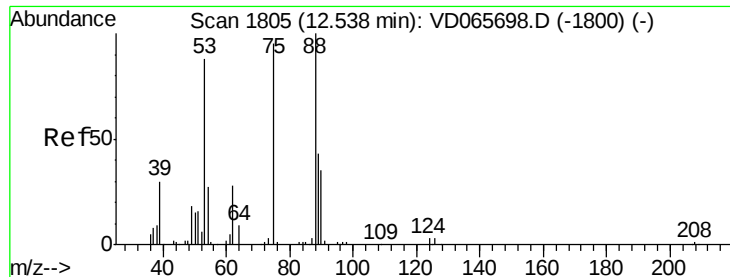
Tot Ion: 91 Resp: 32071
 Ion Ratio Lower Upper
 91 100
 126 34.5 16.9 50.6



#80
 1,3,5-Trimethylbenzene
 Concen: 2.649 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion: 105 Resp: 40423
 Ion Ratio Lower Upper
 105 100
 120 50.6 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.017 ug/l m

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

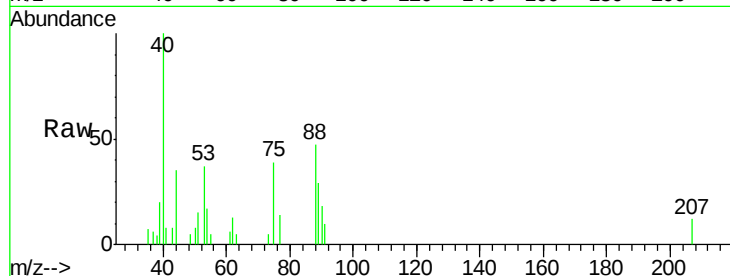
Tot Ion: 75 Resp: 2361

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

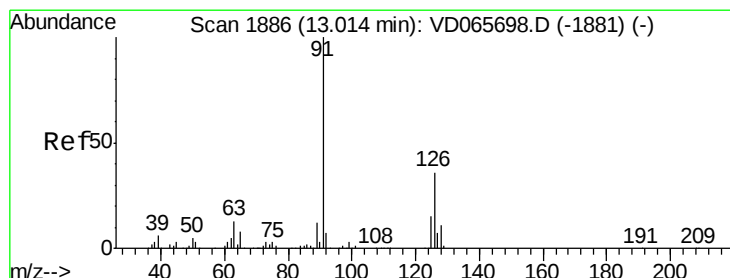
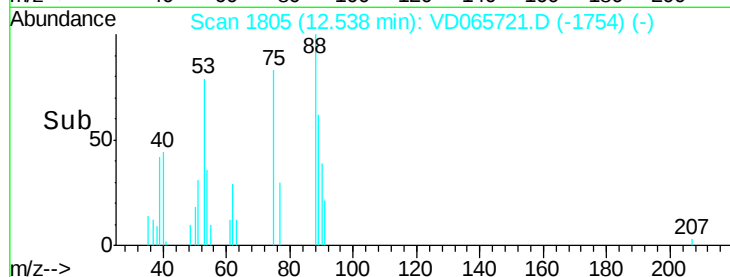
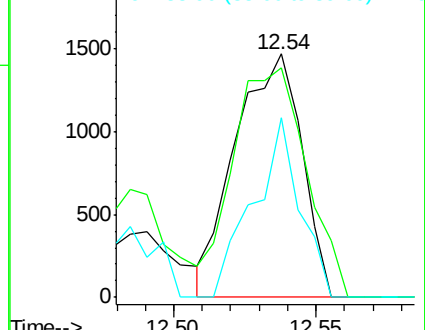
89 4.1 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 2.486 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD065721.D

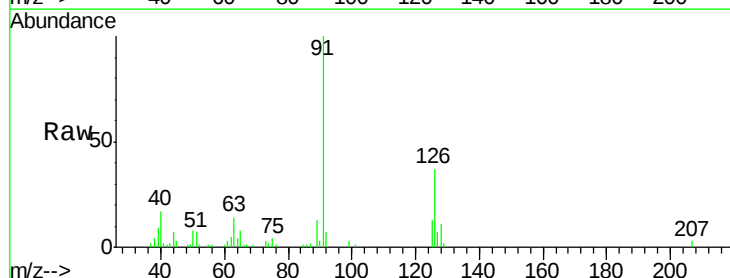
Acq: 08 May 2020 13:23

Tgt Ion: 91 Resp: 32167

Ion Ratio Lower Upper

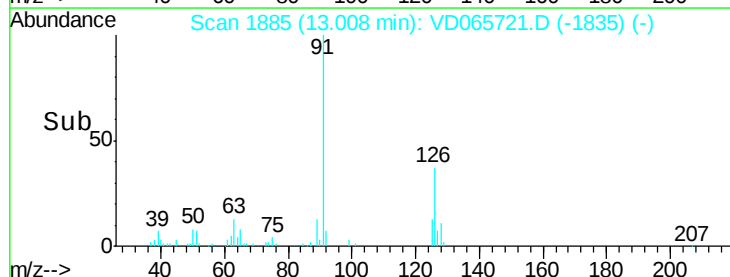
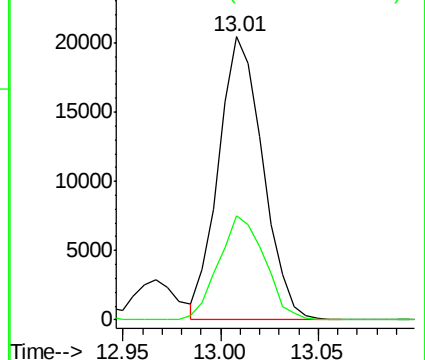
91 100

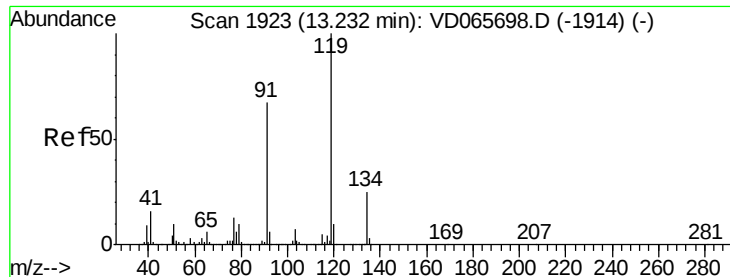
126 38.3 17.1 51.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.927 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

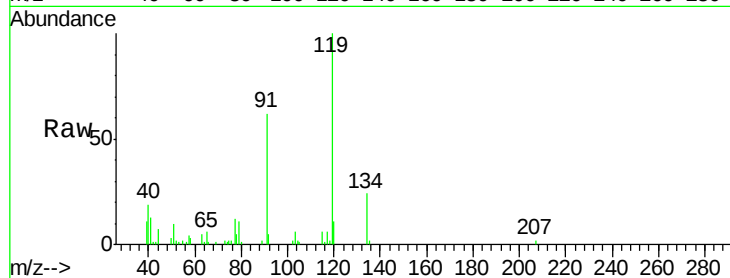
Tot Ion:119 Resp: 38012

Ion Ratio Lower Upper

119 100

91 60.4 33.6 100.8

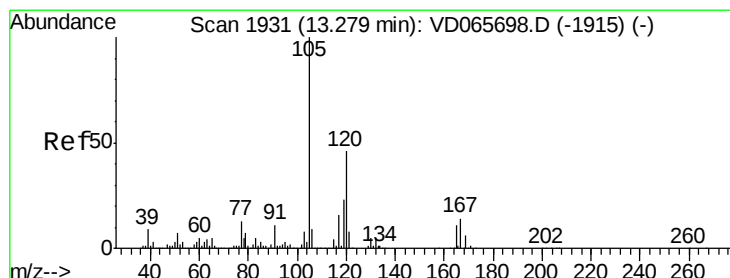
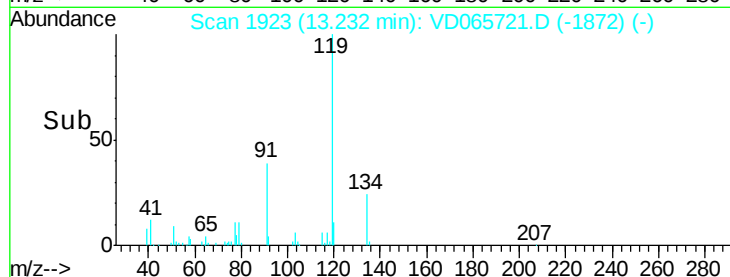
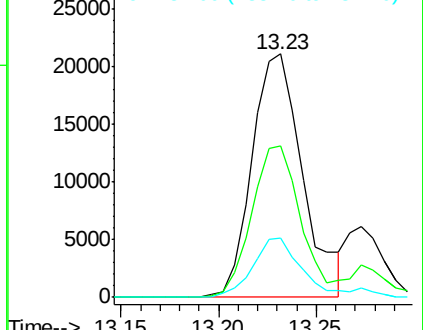
134 24.8 13.6 40.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.569 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD065721.D

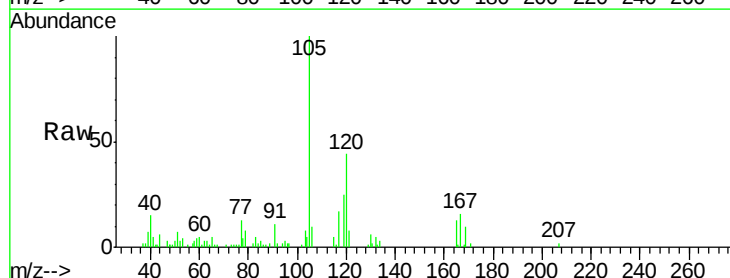
Acq: 08 May 2020 13:23

Tgt Ion:105 Resp: 39050

Ion Ratio Lower Upper

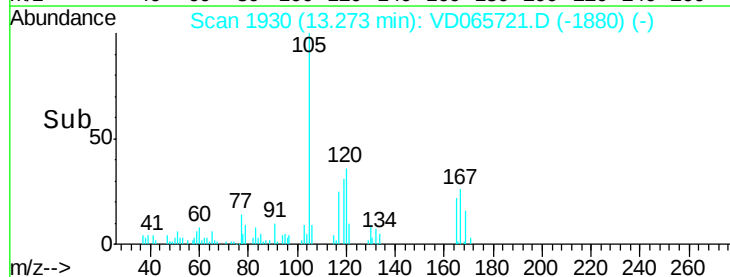
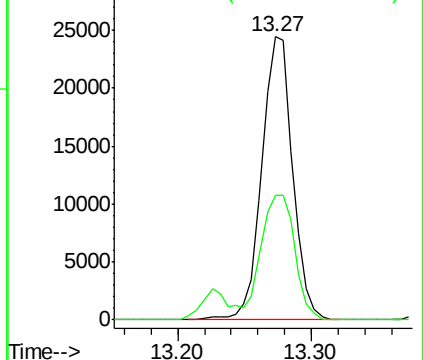
105 100

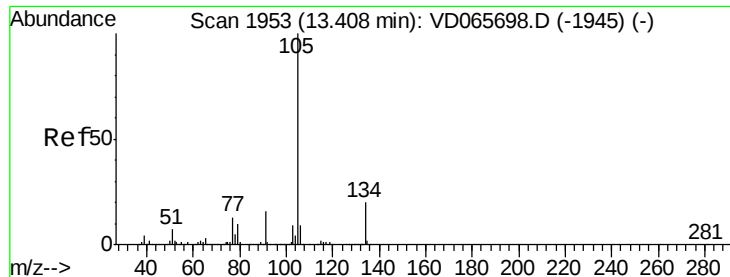
120 47.8 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.654 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

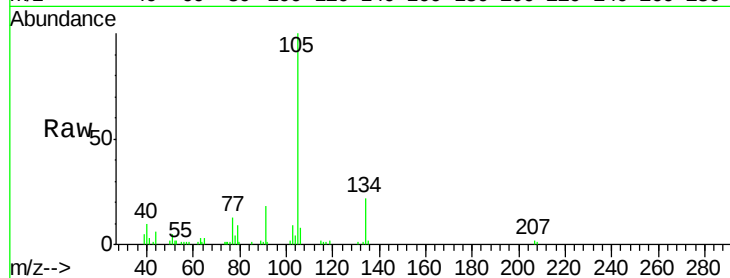
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 48352

Ion Ratio Lower Upper

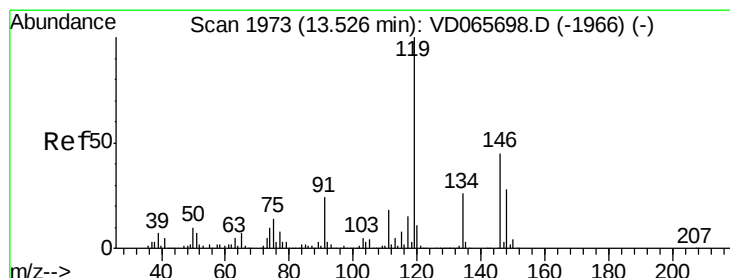
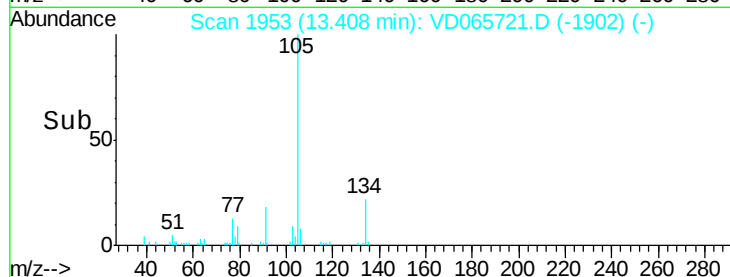
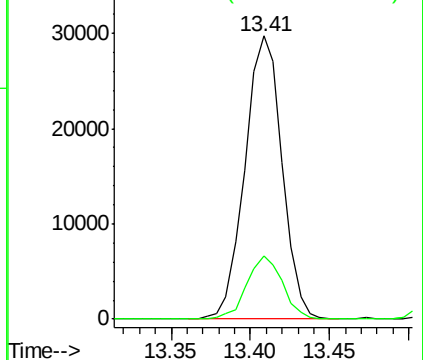
105 100

134 21.4 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.666 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

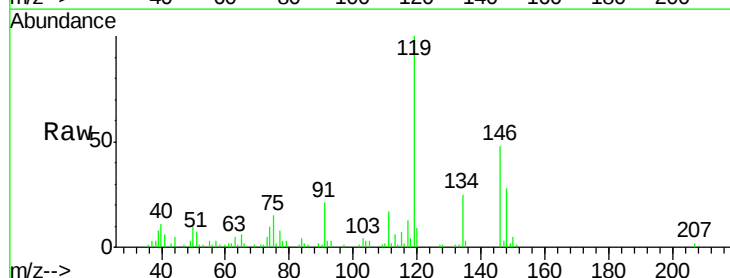
Tgt Ion:119 Resp: 44270

Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.6

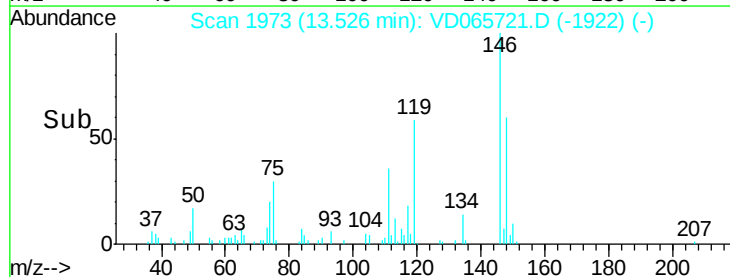
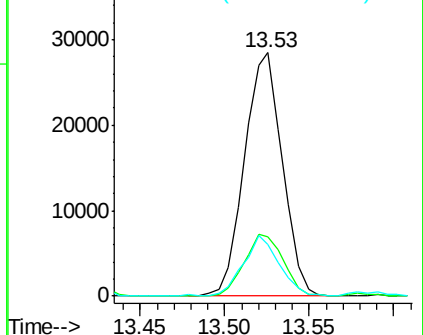
91 23.6 12.0 36.1

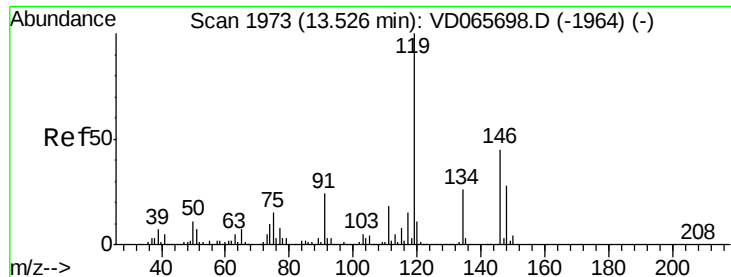


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

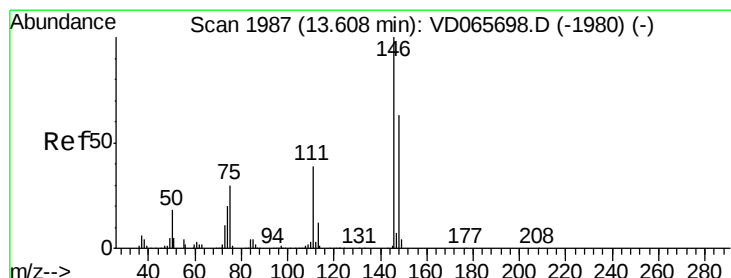
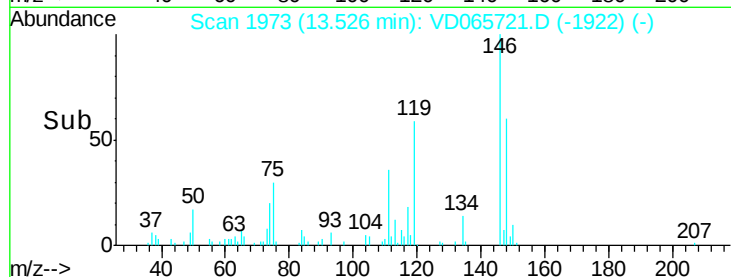
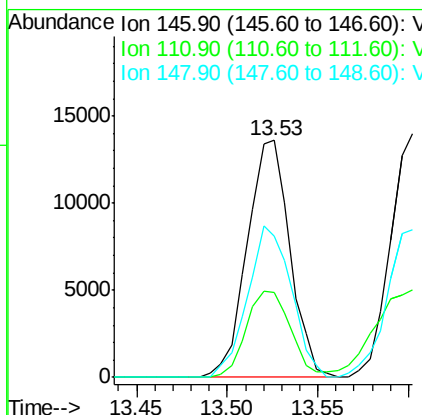
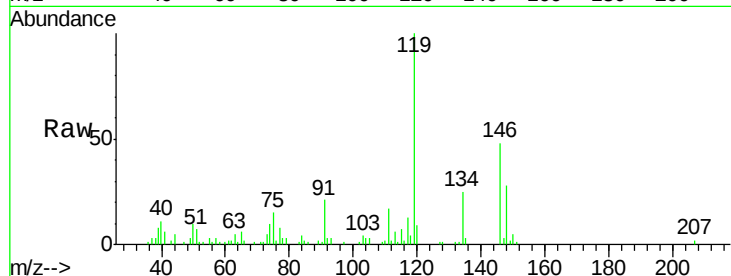




#87
 1,3-Dichlorobenzene
 Concen: 2.786 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

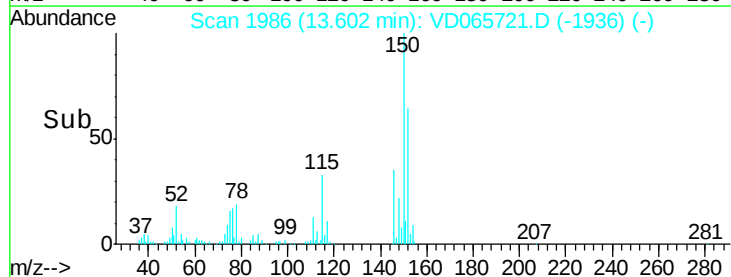
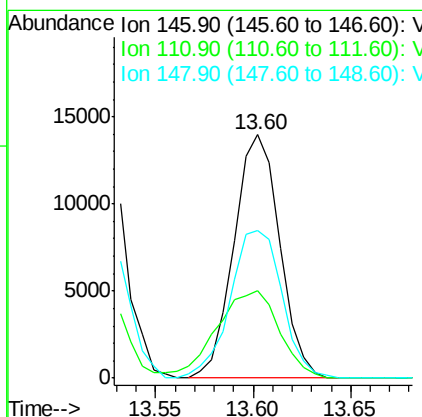
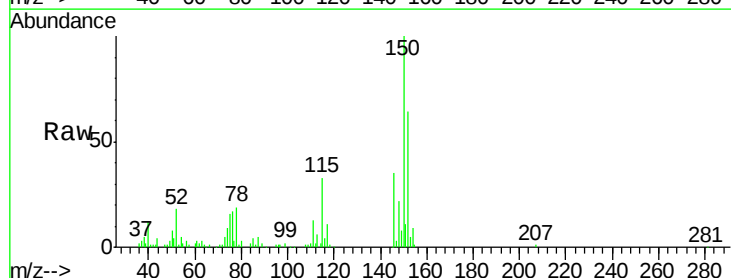
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

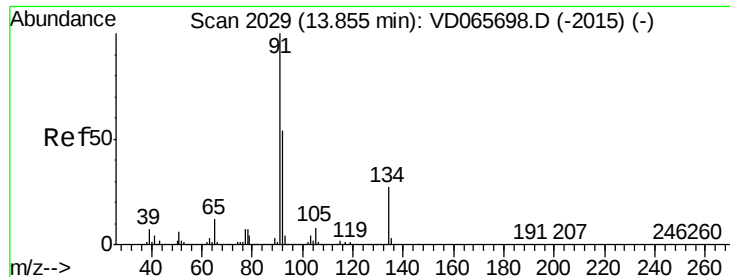
Tot Ion:146 Resp: 22314
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.6 58.8
 148 65.2 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 2.872 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion:146 Resp: 22702
 Ion Ratio Lower Upper
 146 100
 111 48.9 19.6 58.7
 148 68.9 31.9 95.5





#89

n-Butylbenzene

Concen: 2.559 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. -0.01 min

Lab File: VD065721.D

Acq: 08 May 2020 13:23

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

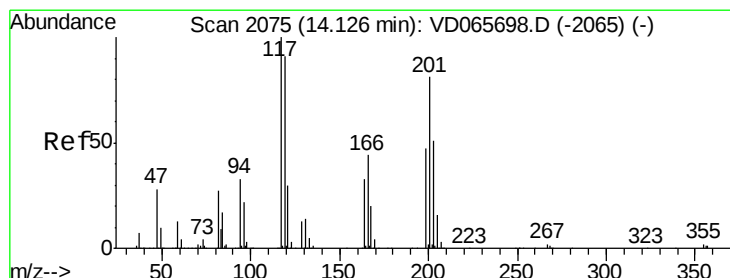
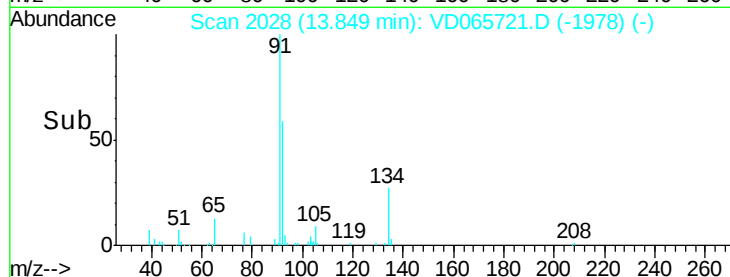
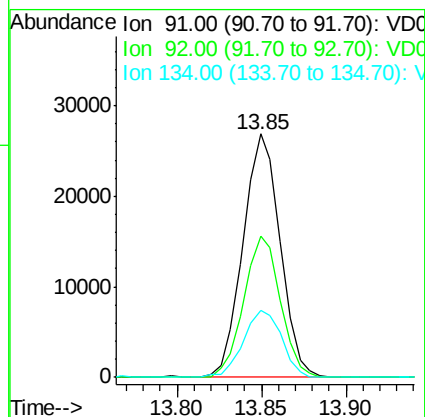
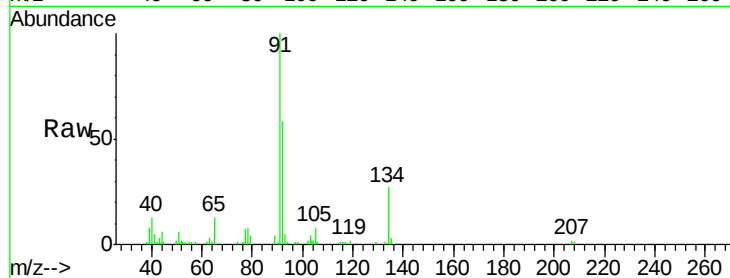
Tot Ion: 91 Resp: 41163

Ion Ratio Lower Upper

91 100

92 57.1 27.4 82.0

134 28.3 13.3 39.8



#90

Hexachloroethane

Concen: 2.612 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. -0.01 min

Lab File: VD065721.D

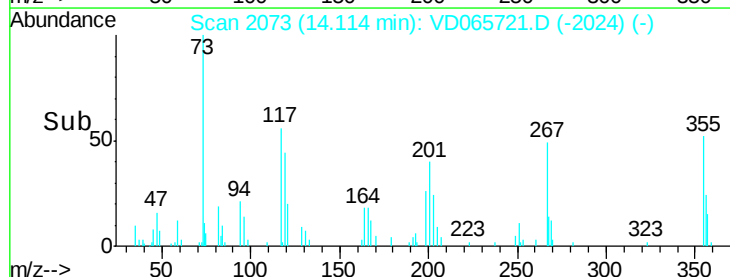
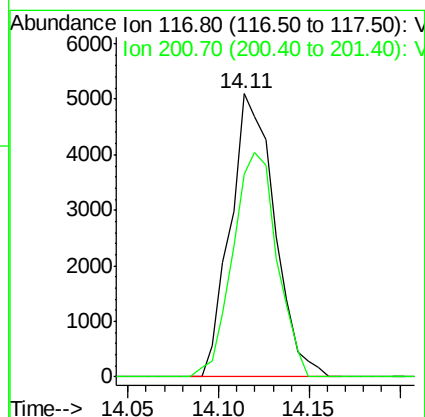
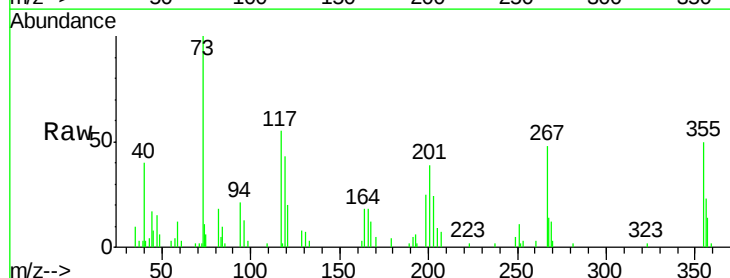
Acq: 08 May 2020 13:23

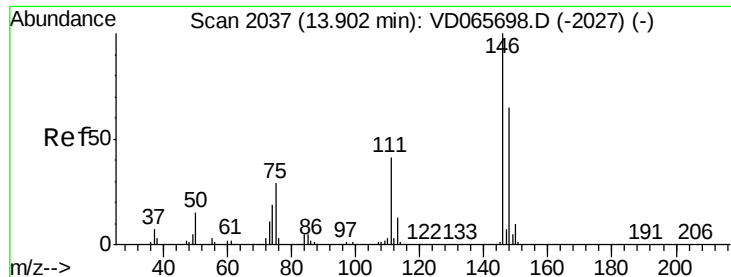
Tgt Ion: 117 Resp: 8638

Ion Ratio Lower Upper

117 100

201 79.1 39.1 117.2

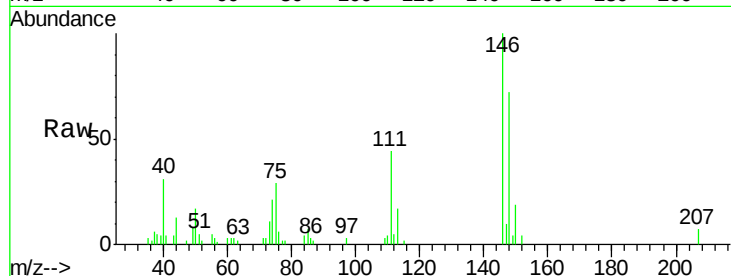




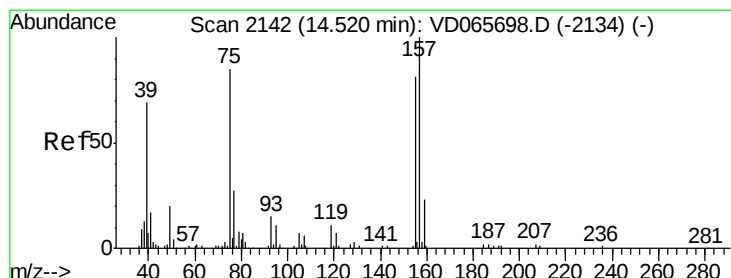
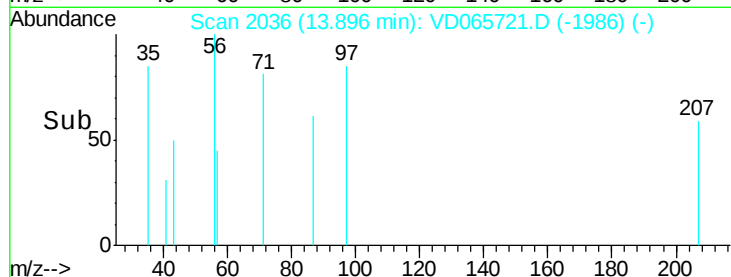
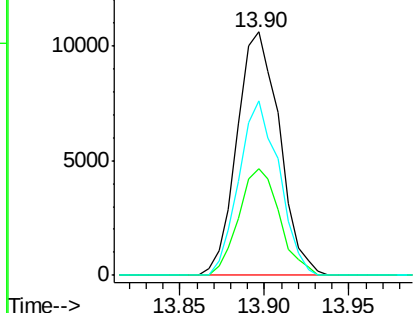
#91
1,2-Dichlorobenzene
Concen: 2.690 ug/l
RT: 13.90 min Scan# 2036
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:146 Resp: 18597
Ion Ratio Lower Upper
146 100
111 42.0 20.3 61.0
148 67.6 31.9 95.9

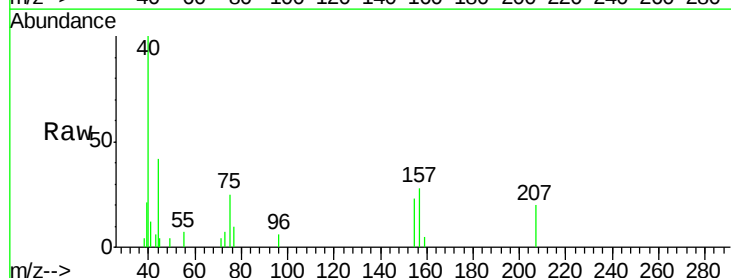


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

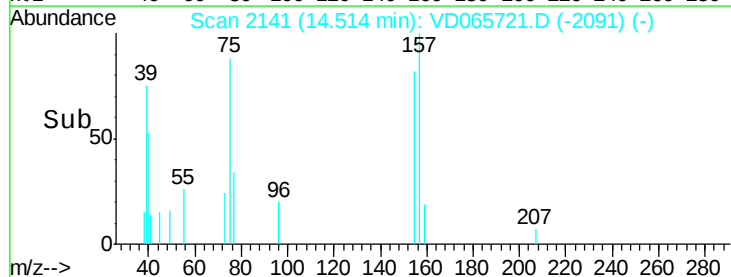
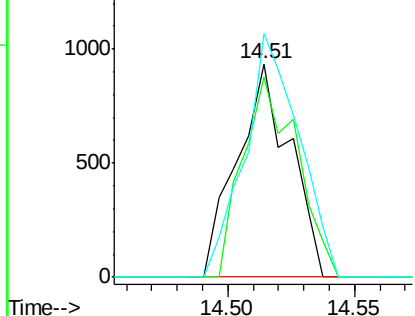


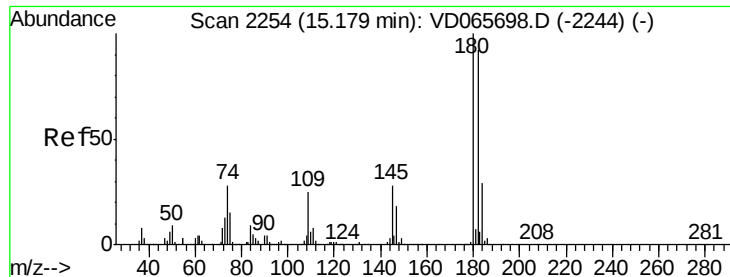
#92
1,2-Dibromo-3-Chloropropane
Concen: 2.585 ug/l
RT: 14.51 min Scan# 2141
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion: 75 Resp: 1354
Ion Ratio Lower Upper
75 100
155 95.9 43.5 130.5
157 117.2 54.5 163.6



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

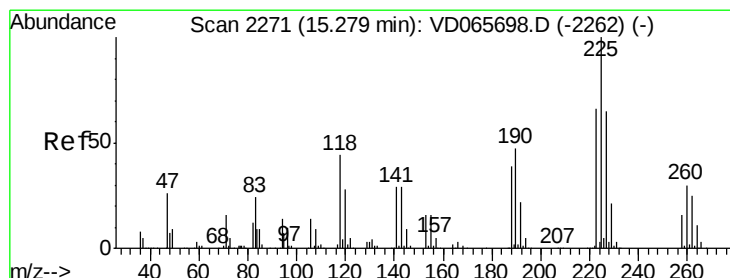
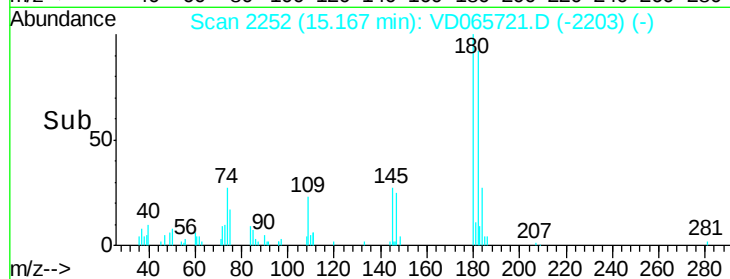
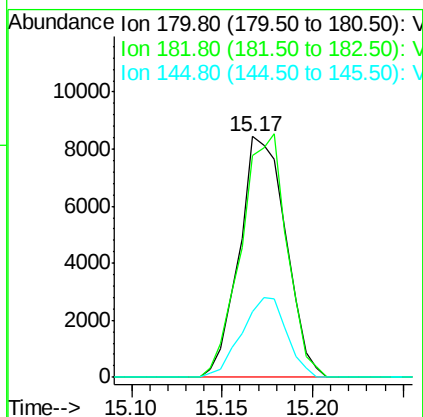
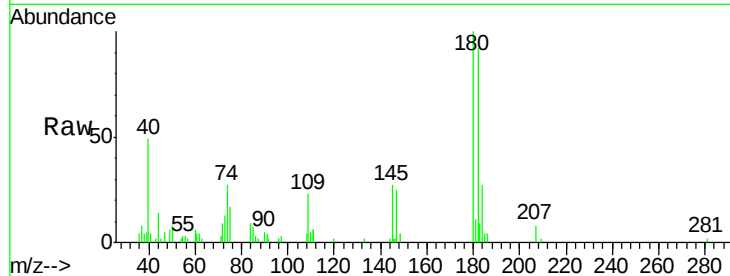




#93
 1,2,4-Trichlorobenzene
 Concen: 2.895 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

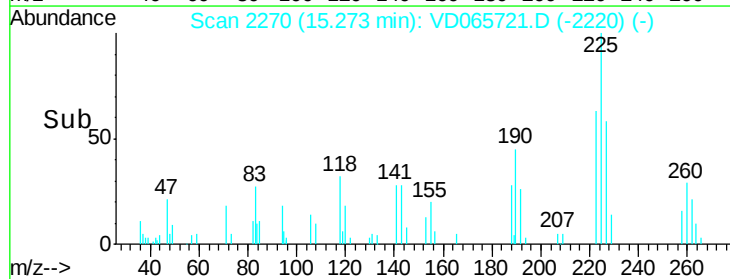
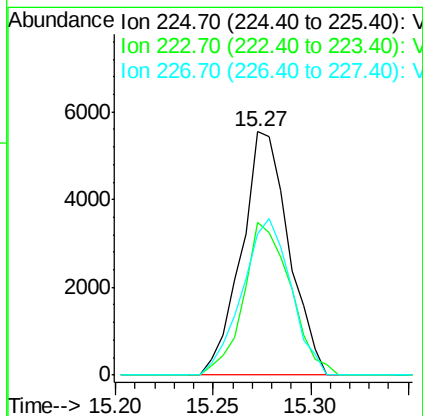
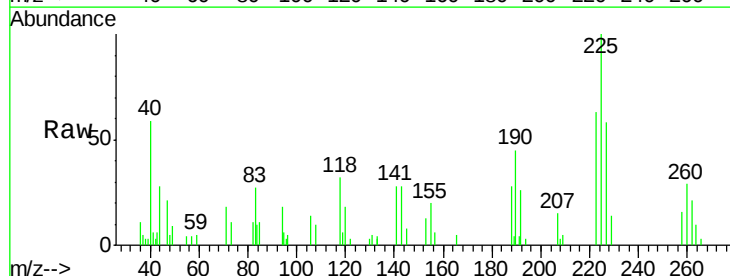
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

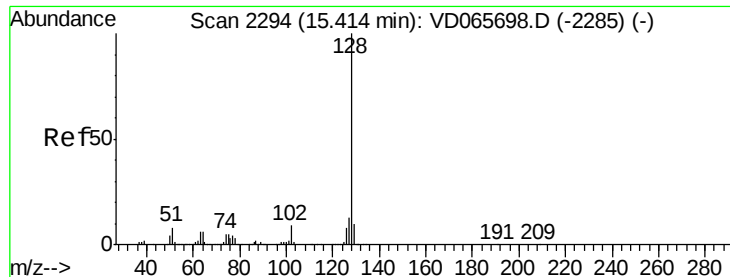
Tot Ion:180 Resp: 15012
 Ion Ratio Lower Upper
 180 100
 182 99.6 47.0 141.0
 145 32.1 14.8 44.3



#94
 Hexachlorobutadiene
 Concen: 3.101 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: VD065721.D
 Acq: 08 May 2020 13:23

Tgt Ion:225 Resp: 9322
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.8 95.3
 227 66.2 31.6 94.8

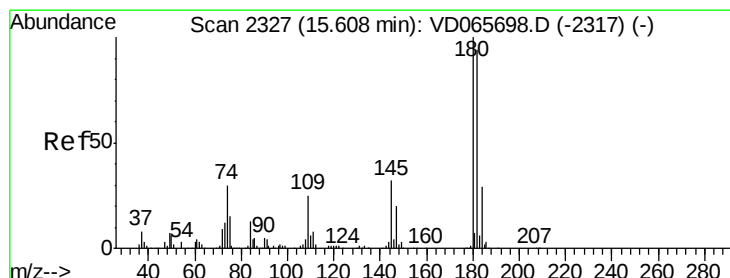
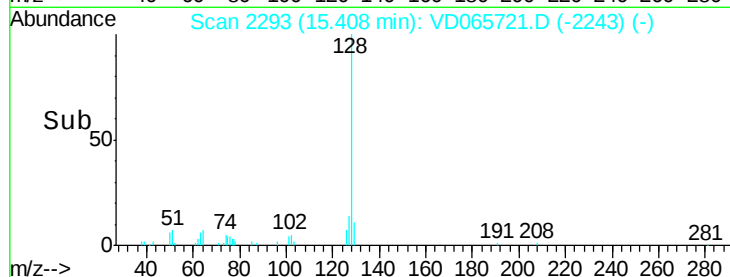
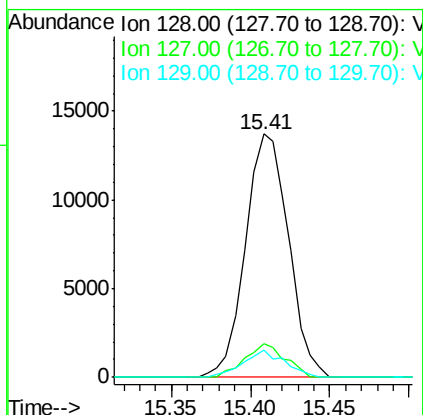
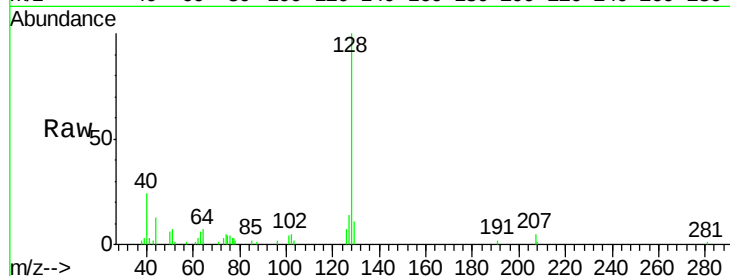




#95
Naphthalene
Concen: 2.838 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:128 Resp: 25875
Ion Ratio Lower Upper
128 100
127 12.7 10.4 15.6
129 10.9 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 3.121 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD065721.D
Acq: 08 May 2020 13:23

Tgt Ion:180 Resp: 13769
Ion Ratio Lower Upper
180 100
182 89.7 46.9 140.6
145 29.1 16.0 47.9

