

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030520\
 Data File : VD065427.D
 Acq On : 05 Mar 2020 13:18
 Operator : VA/SY
 Sample : L1161-03 2.5PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/6/2020 11:17:29 AM

Quant Time: Mar 06 04:23:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	436687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	679310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	607396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	287799	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	214105	57.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.32%	
35) Dibromofluoromethane	7.92	113	223329	53.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.32%	
50) Toluene-d8	10.34	98	842394	52.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.54%	
62) 4-Bromofluorobenzene	12.64	95	252469	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	10891	2.902	ug/l	93
3) Chloromethane	2.21	50	13741	3.033	ug/l	97
4) Vinyl Chloride	2.35	62	13446	3.009	ug/l	99
5) Bromomethane	2.77	94	9902	3.465	ug/l	95
6) Chloroethane	2.92	64	8540	3.120	ug/l	94
7) Trichlorofluoromethane	3.27	101	20591	3.127	ug/l	92
8) Diethyl Ether	3.71	74	5424	2.770	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	4.10	101	13357	3.149	ug/l	99
10) Methyl Iodide	4.30	142	11654	2.645	ug/l	98
11) Tert butyl alcohol	5.24	59	2969m	13.818	ug/l	
12) 1,1-Dichloroethene	4.06	96	12946	3.188	ug/l	87
13) Acrolein	3.93	56	4956	13.374	ug/l	98
14) Allyl chloride	4.71	41	18118	2.904	ug/l	99
15) Acrylonitrile	5.43	53	12923	15.168	ug/l	98
16) Acetone	4.16	43	13168	17.382	ug/l	99
17) Carbon Disulfide	4.40	76	41641	3.079	ug/l	96
18) Methyl Acetate	4.73	43	6580m	3.424	ug/l	
19) Methyl tert-butyl Ether	5.48	73	19667	2.518	ug/l #	85
20) Methylene Chloride	4.96	84	49238	10.506	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	13442	2.975	ug/l	93
22) Diisopropyl ether	6.37	45	27933	2.409	ug/l	96
23) Vinyl Acetate	6.31	43	70641	10.970	ug/l	99
24) 1,1-Dichloroethane	6.27	63	22141	2.976	ug/l	94
25) 2-Butanone	7.23	43	13536	13.093	ug/l #	82
26) 2,2-Dichloropropane	7.21	77	18330	2.820	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	12868	2.787	ug/l	93
28) Bromochloromethane	7.55	49	9544	3.207	ug/l	96
29) Tetrahydrofuran	7.57	42	8459	12.813	ug/l	96
30) Chloroform	7.72	83	23389	3.146	ug/l	98
31) Cyclohexane	7.98	56	25828	3.472	ug/l #	68
32) 1,1,1-Trichloroethane	7.91	97	20805	3.028	ug/l	96
36) 1,1-Dichloropropene	8.12	75	17697	2.718	ug/l	99
37) Ethyl Acetate	7.30	43	7072	2.810	ug/l #	73
38) Carbon Tetrachloride	8.10	117	18994	2.813	ug/l #	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	19578	2.489	ug/l	99
40) Benzene	8.36	78	50875	2.794	ug/l	91
41) Methacrylonitrile	7.54	41	3892	2.924	ug/l #	74
42) 1,2-Dichloroethane	8.43	62	13819	2.907	ug/l	97
43) Isopropyl Acetate	8.46	43	12050	2.593	ug/l	93
44) Trichloroethene	9.11	130	15240	2.964	ug/l	90
45) 1,2-Dichloropropane	9.38	63	12597	2.856	ug/l	91
46) Dibromomethane	9.48	93	6141	2.685	ug/l	94
47) Bromodichloromethane	9.67	83	16981	2.853	ug/l #	98
48) Methyl methacrylate	9.46	41	5539	2.534	ug/l	93
49) 1,4-Dioxane	9.47	88	1186	45.325	ug/l #	84
51) 4-Methyl-2-Pentanone	10.24	43	25994	11.115	ug/l	99
52) Toluene	10.41	92	31124	2.714	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	14556	2.617	ug/l	96
54) cis-1,3-Dichloropropene	10.10	75	16171	2.402	ug/l #	87
55) 1,1,2-Trichloroethane	10.81	97	9258	2.857	ug/l	98
56) Ethyl methacrylate	10.66	69	8169	2.237	ug/l	93
57) 1,3-Dichloropropane	10.96	76	14036	2.560	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.95	63	13145	11.160	ug/l	98
59) 2-Hexanone	10.99	43	18567	11.469	ug/l	94
60) Dibromochloromethane	11.14	129	11539	2.778	ug/l	99
61) 1,2-Dibromoethane	11.25	107	8563	2.771	ug/l	99
64) Tetrachloroethene	10.88	164	13276	3.050	ug/l	95
65) Chlorobenzene	11.68	112	35260	2.934	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	12386	2.829	ug/l	97
67) Ethyl Benzene	11.75	91	53088	2.556	ug/l	96
68) m/p-Xylenes	11.86	106	38598	4.820	ug/l	99
69) o-Xylene	12.19	106	16998	2.413	ug/l	94
70) Styrene	12.20	104	26690	2.153	ug/l	99
71) Bromoform	12.37	173	6982	2.839	ug/l #	99
73) Isopropylbenzene	12.48	105	43440	2.295	ug/l	99
74) N-amyl acetate	12.30	43	8859	2.286	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.74	83	10354	3.112	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	7649m	3.368	ug/l	
77) Bromobenzene	12.77	156	14163	3.011	ug/l	95
78) n-propylbenzene	12.83	91	59829	2.664	ug/l	98
79) 2-Chlorotoluene	12.91	91	34228	2.704	ug/l	96
80) 1,3,5-Trimethylbenzene	12.97	105	35573	2.286	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.53	75	2784m	2.587	ug/l	
82) 4-Chlorotoluene	13.01	91	36389	2.736	ug/l	96
83) tert-Butylbenzene	13.23	119	30284	2.300	ug/l	96
84) 1,2,4-Trimethylbenzene	13.28	105	34082	2.222	ug/l	96
85) sec-Butylbenzene	13.41	105	44508	2.368	ug/l	100
86) p-Isopropyltoluene	13.53	119	37292	2.175	ug/l	98
87) 1,3-Dichlorobenzene	13.53	146	25030	2.768	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	27099	3.013	ug/l	89
89) n-Butylbenzene	13.85	91	38541	2.431	ug/l	98
90) Hexachloroethane	14.13	117	10312	2.920	ug/l	97
91) 1,2-Dichlorobenzene	13.90	146	21596	2.807	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1560	3.078	ug/l	94

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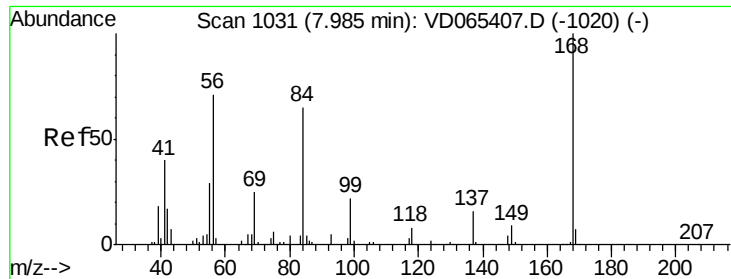
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	14713	2.821	ug/l	93
94) Hexachlorobutadiene	15.28	225	9998	2.918	ug/l	94
95) Naphthalene	15.41	128	20259	2.429	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	12949	2.873	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 436687

Ion Ratio Lower Upper

168 100

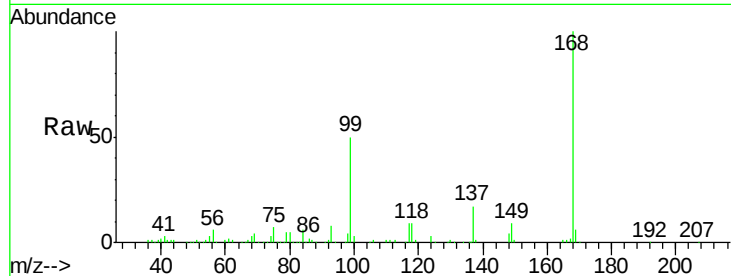
99 50.3 41.5 62.3

Manual Integrations

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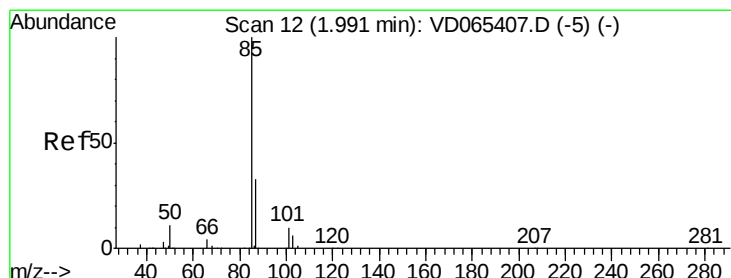
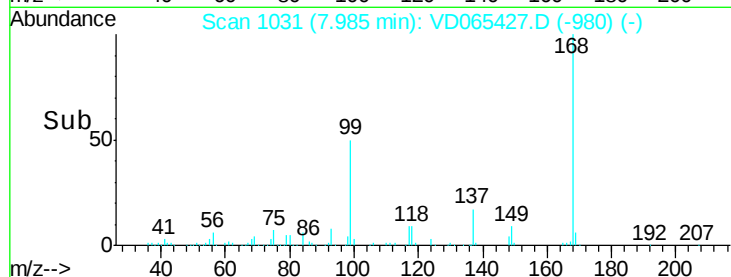
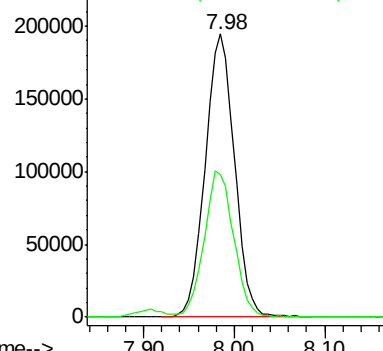
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3/6/2020 11:17:29 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.902 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065427.D

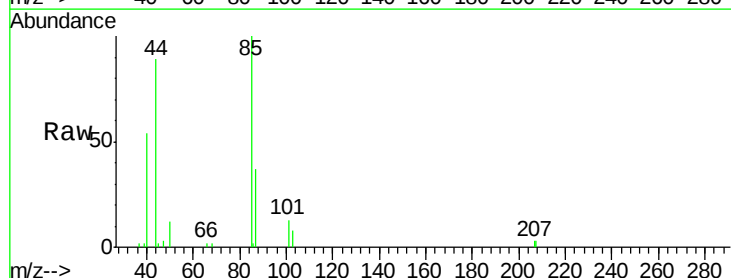
Acq: 05 Mar 2020 13:18

Tgt Ion: 85 Resp: 10891

Ion Ratio Lower Upper

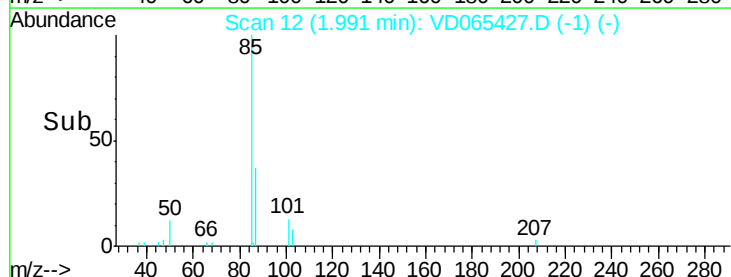
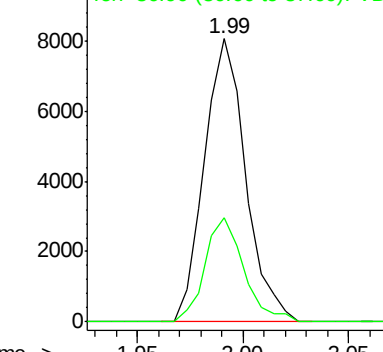
85 100

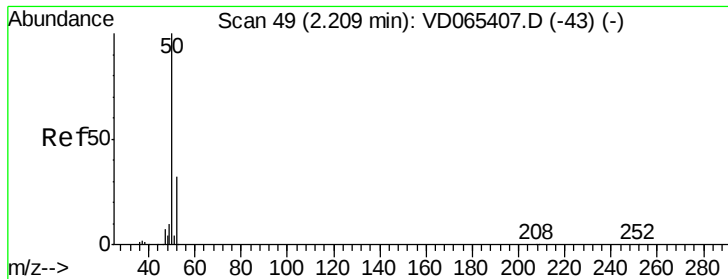
87 36.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 3.033 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 13741

Ion Ratio Lower Upper

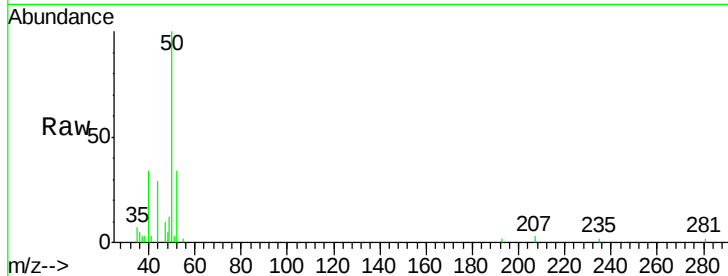
50 100

52 34.1 25.8 38.8

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

12000

10000

8000

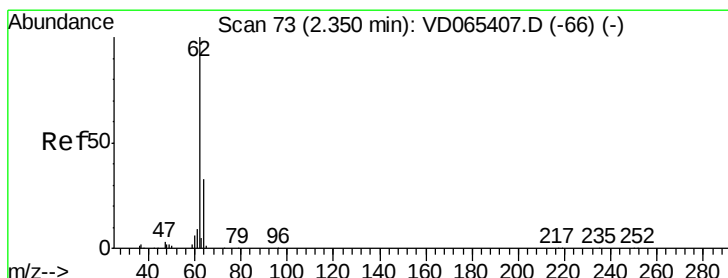
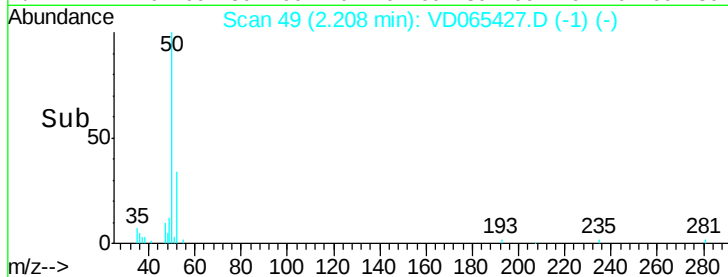
6000

4000

2000

0

Time-->



#4

Vinyl Chloride

Concen: 3.009 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065427.D

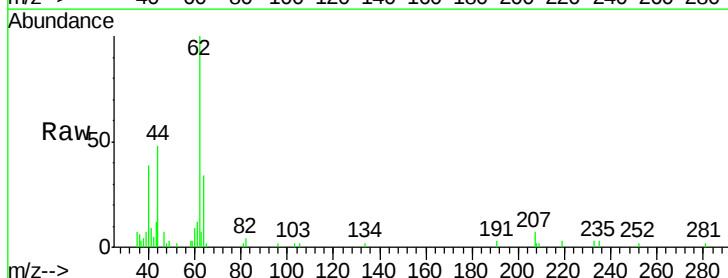
Acq: 05 Mar 2020 13:18

Tgt Ion: 62 Resp: 13446

Ion Ratio Lower Upper

62 100

64 33.9 26.6 39.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

10000

8000

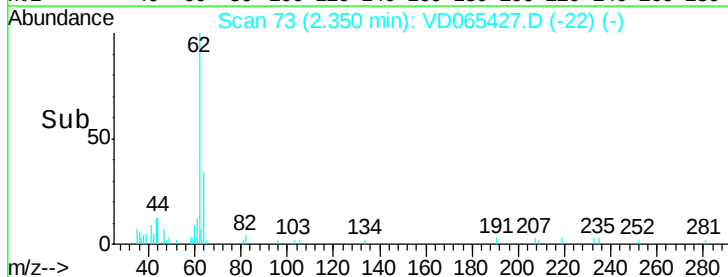
6000

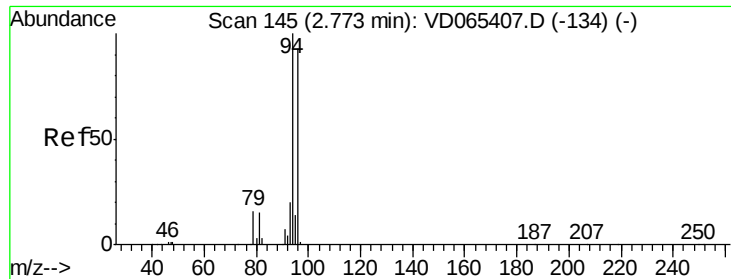
4000

2000

0

Time-->





#5

Bromomethane

Concen: 3.465 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 9902

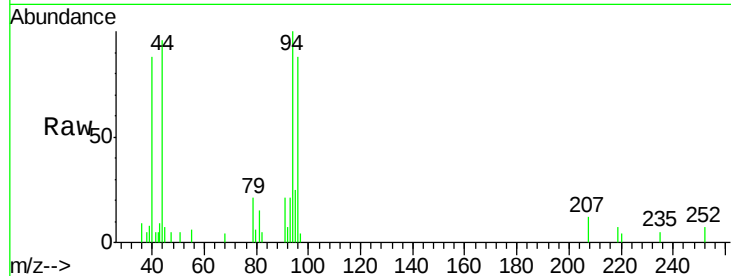
Ion Ratio Lower Upper

94 100

96 88.3 74.4 111.6

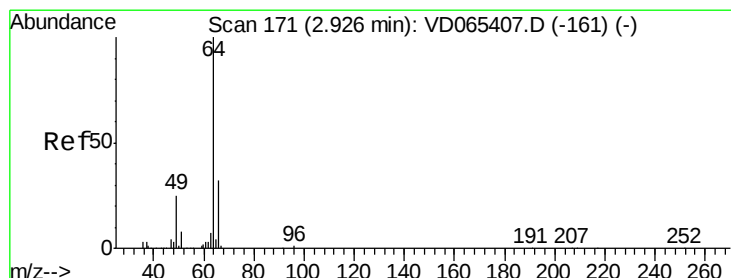
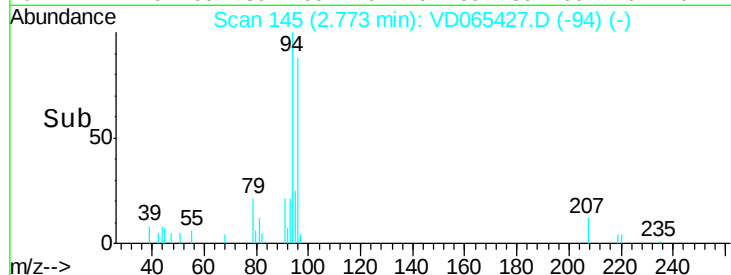
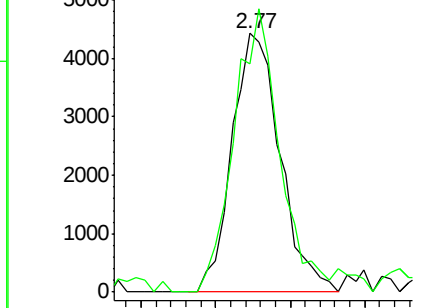
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.120 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065427.D

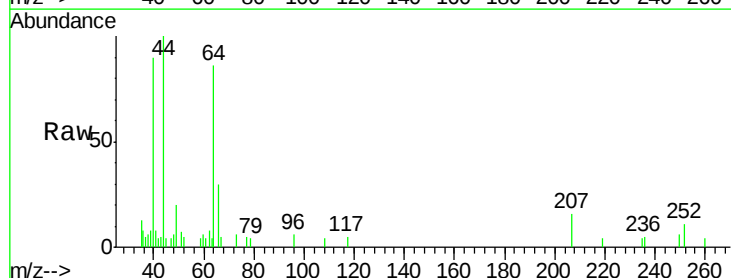
Acq: 05 Mar 2020 13:18

Tgt Ion: 64 Resp: 8540

Ion Ratio Lower Upper

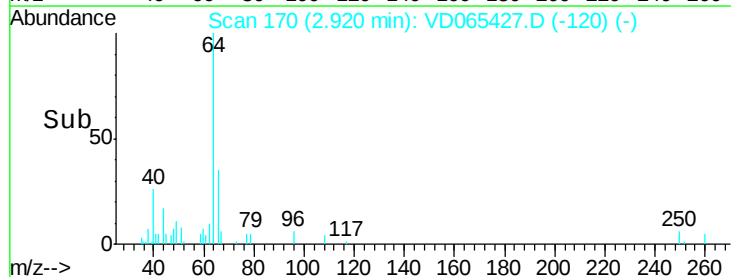
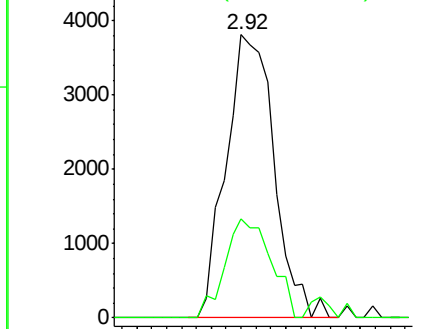
64 100

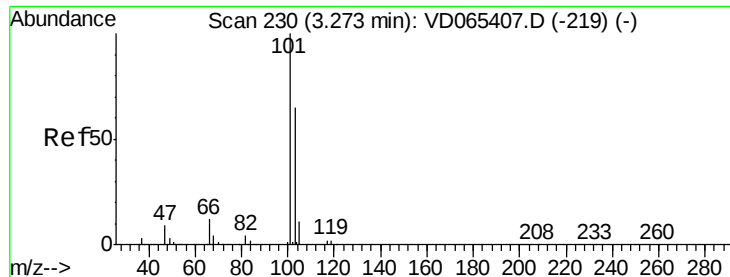
66 35.1 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 3.127 ug/l

RT: 3.27 min Scan# 230

Delta R.T. -0.00 min

Lab File: VD065427.D

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Tot Ion:101 Resp: 20591

Ion Ratio Lower Upper

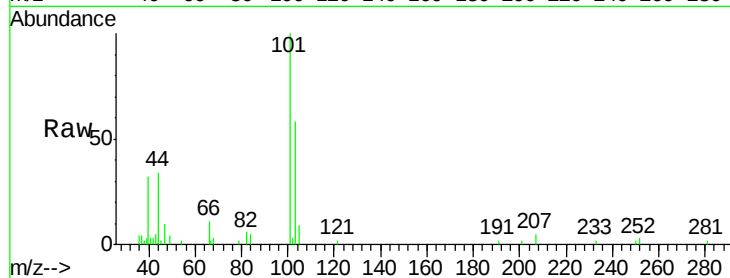
101 100

103 58.4 52.1 78.1

Manual Integrations
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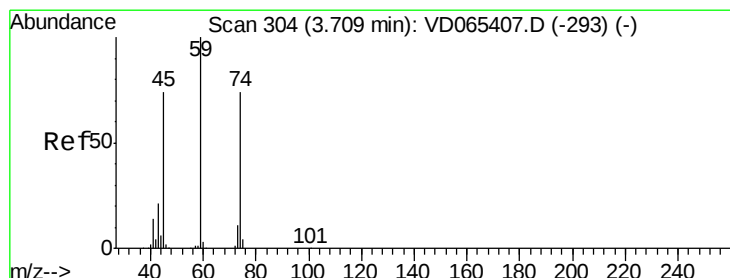
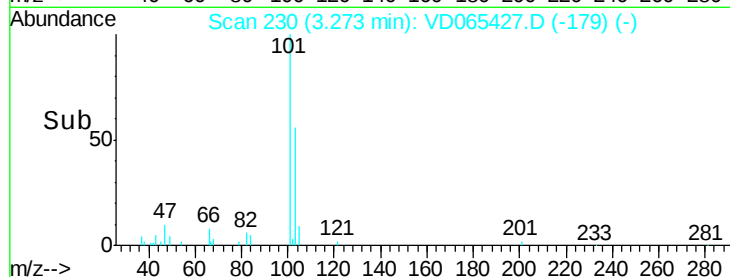
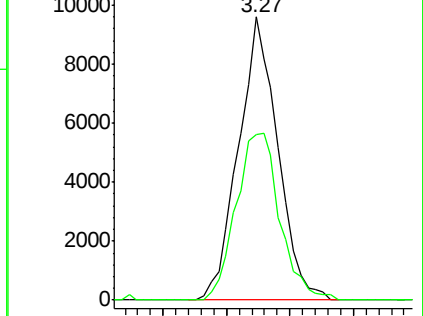
MMDadoda

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.770 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD065427.D

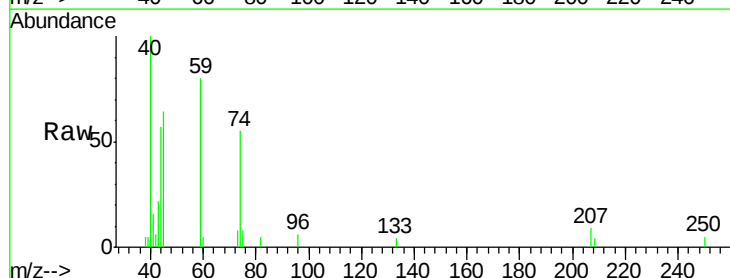
Acq: 05 Mar 2020 13:18

Tgt Ion: 74 Resp: 5424

Ion Ratio Lower Upper

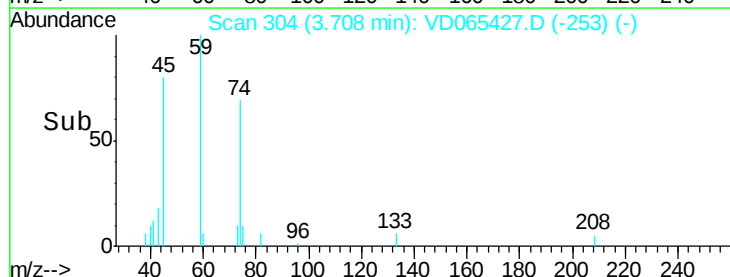
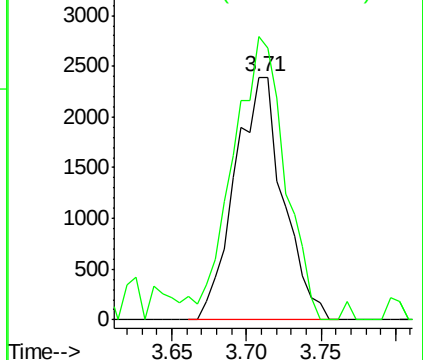
74 100

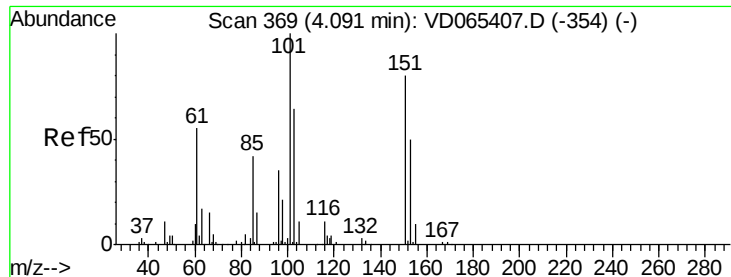
45 123.3 49.5 148.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.149 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065427.D

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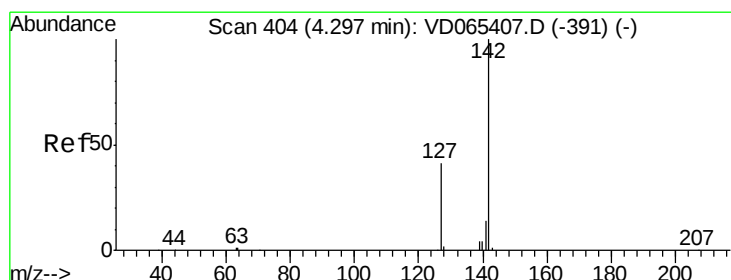
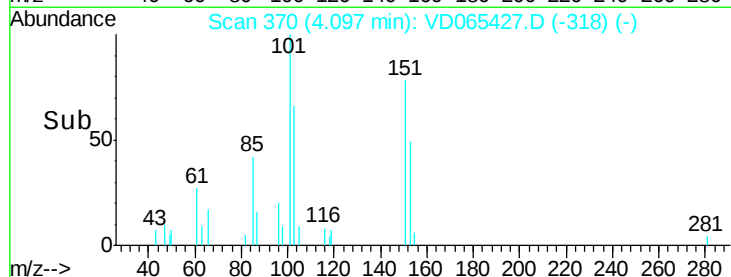
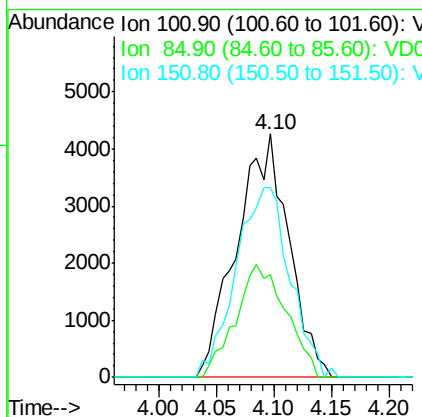
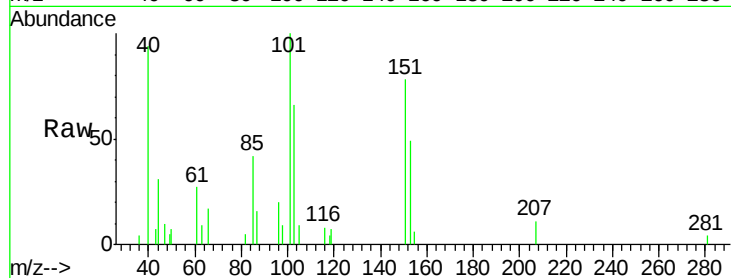
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	13357
Ion Ratio	Lower	Upper	
101	100		
85	44.9	34.2	51.2
151	81.4	65.1	97.7

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#10

Methyl Iodide

Concen: 2.645 ug/l

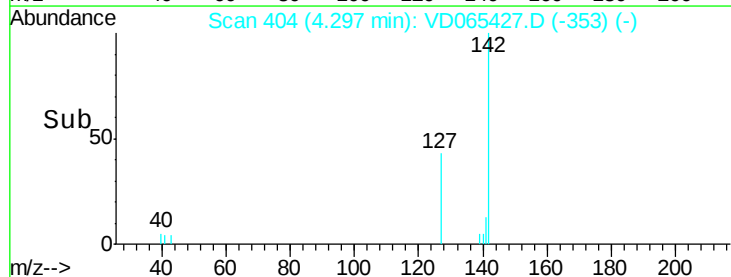
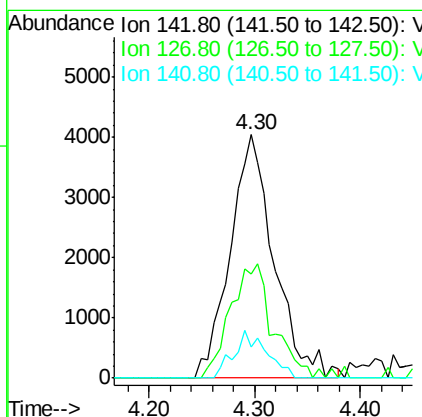
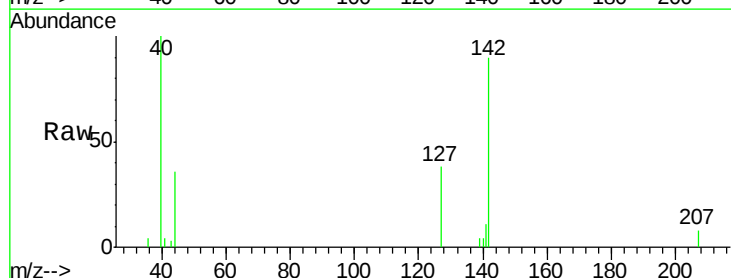
RT: 4.30 min Scan# 404

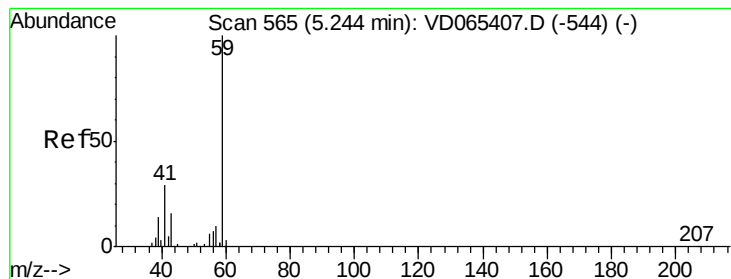
Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	142	Resp:	11654
Ion Ratio	Lower	Upper	
142	100		
127	45.2	35.0	52.6
141	14.6	12.4	18.6





#11

Tert butyl alcohol

Concen: 13.818 ug/l m

RT: 5.24 min Scan# 565

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 59 Resp: 2969

Ion Ratio Lower Upper

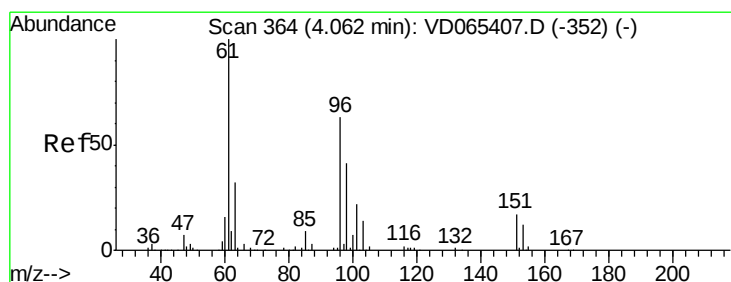
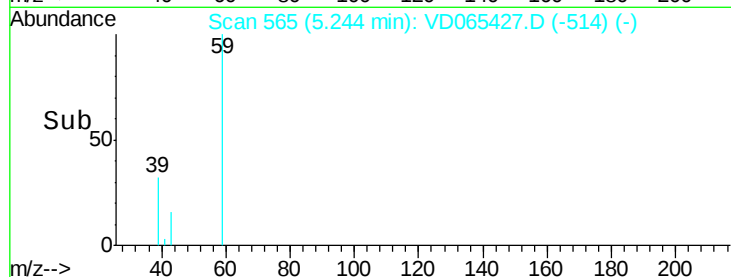
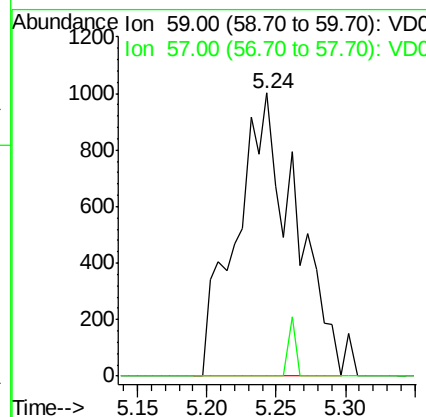
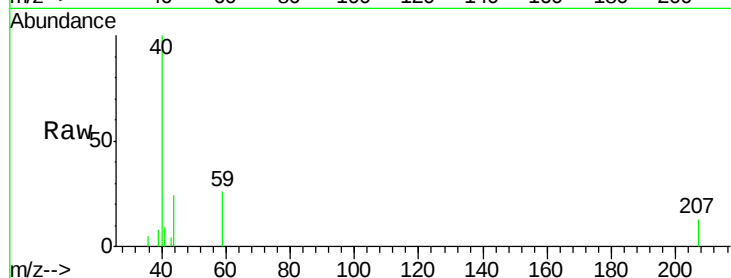
59 100

57 2.5 6.9 10.3#

Manual Integrations
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MMDadoda

3/6/2020 11:17:29 AM



#12

1,1-Dichloroethene

Concen: 3.188 ug/l

RT: 4.06 min Scan# 364

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

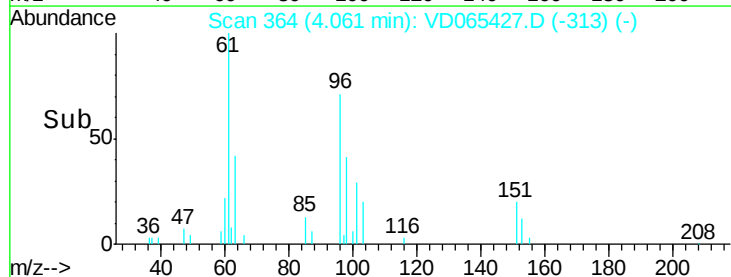
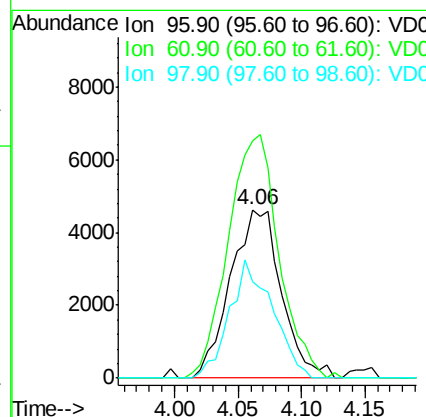
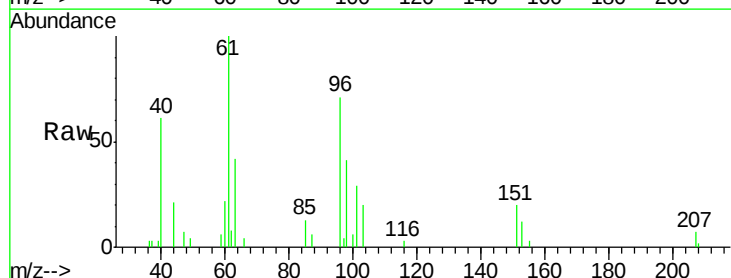
Tgt Ion: 96 Resp: 12946

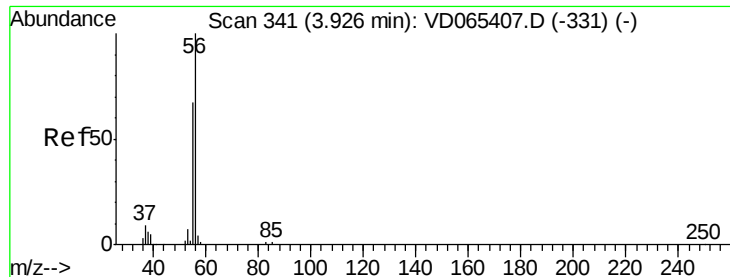
Ion Ratio Lower Upper

96 100

61 141.1 128.0 192.0

98 57.3 51.9 77.9





#13

Acrolein

Concen: 13.374 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 4956

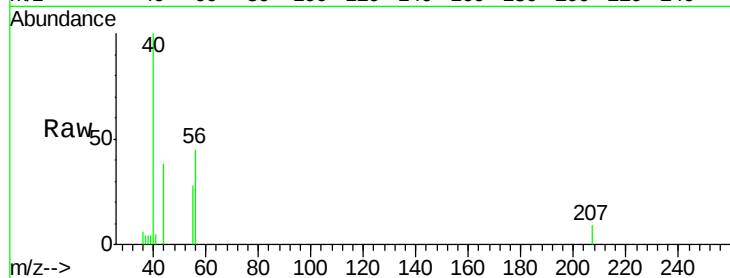
Ion Ratio Lower Upper

56 100

55 69.1 56.6 85.0

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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.93

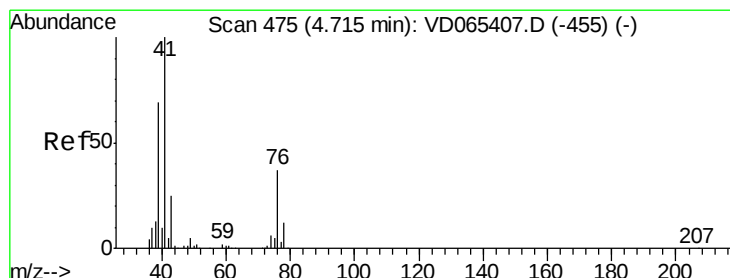
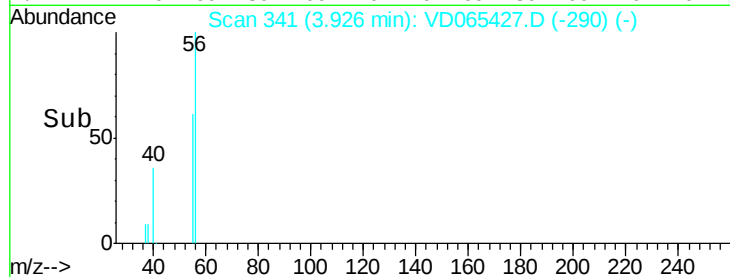
1500

1000

500

0

Time-->



#14

Allyl chloride

Concen: 2.904 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

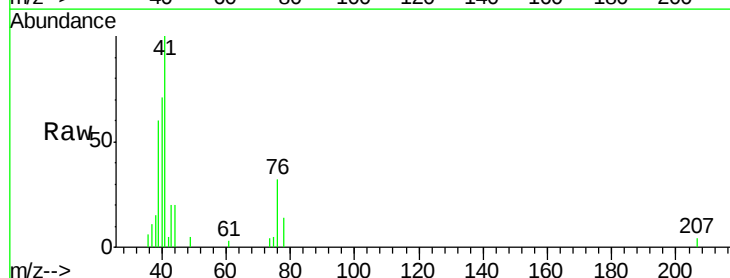
Tgt Ion: 41 Resp: 18118

Ion Ratio Lower Upper

41 100

39 66.3 52.6 79.0

76 35.1 29.2 43.8



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

4.71

8000

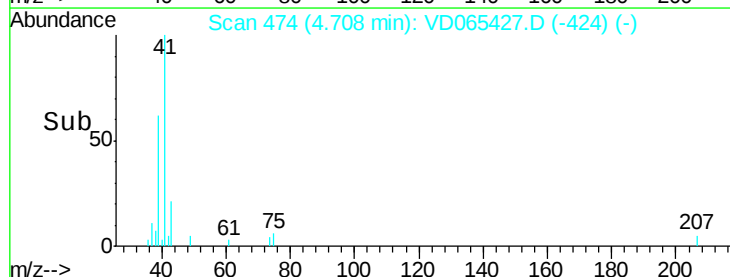
6000

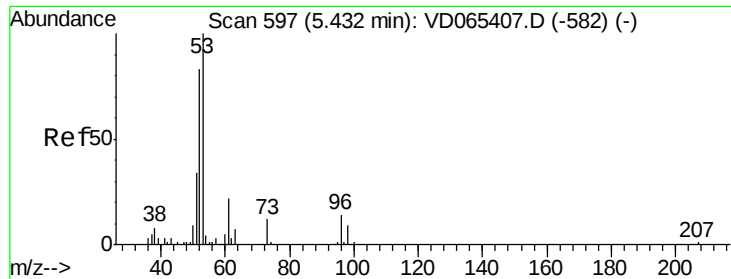
4000

2000

0

Time-->





#15

Acrylonitrile

Concen: 15.168 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

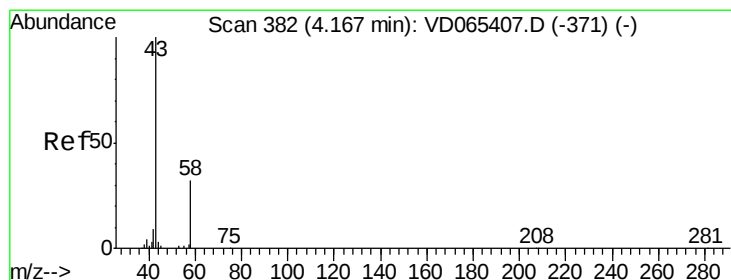
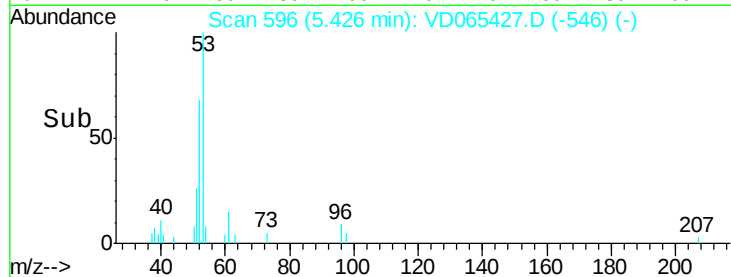
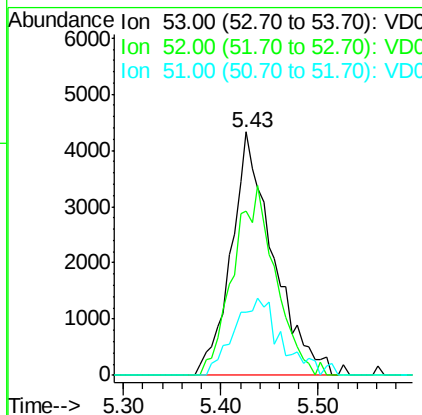
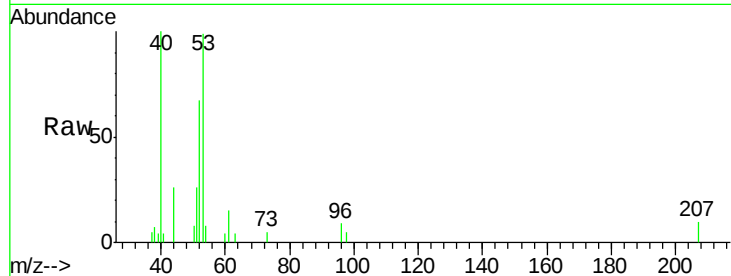
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	53	Resp:	12923
Ion Ratio	Lower	Upper	
53	100		
52	78.9	65.1	97.7
51	35.3	28.5	42.7

Manual Integrations
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#16

Acetone

Concen: 17.382 ug/l

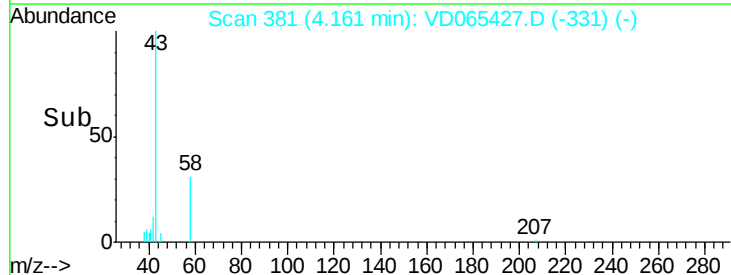
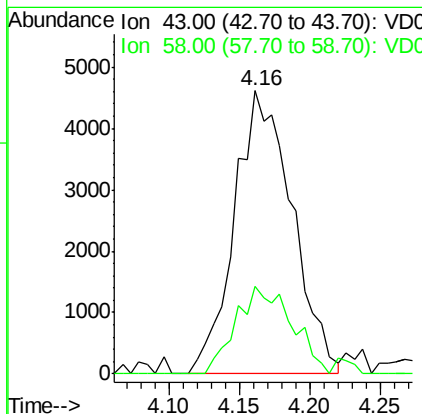
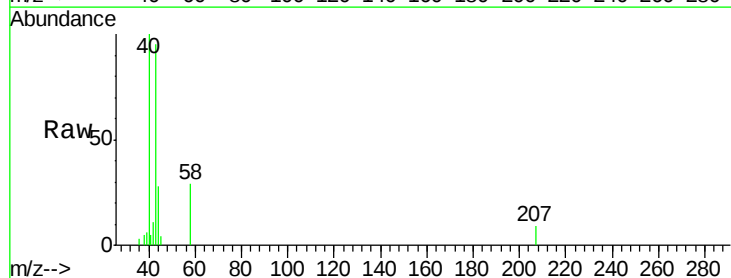
RT: 4.16 min Scan# 381

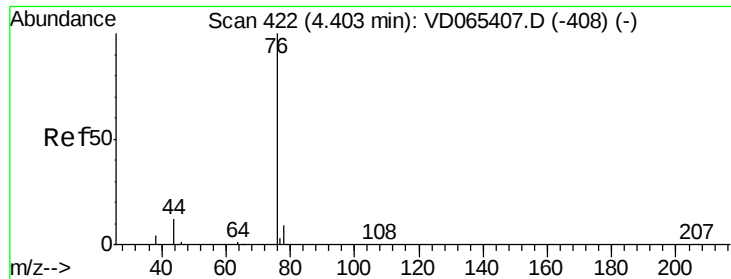
Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	43	Resp:	13168
Ion Ratio	Lower	Upper	
43	100		
58	30.9	25.1	37.7





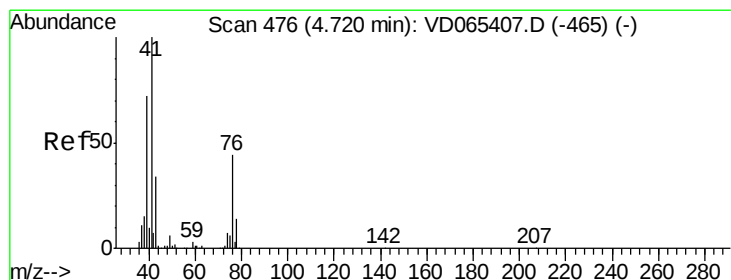
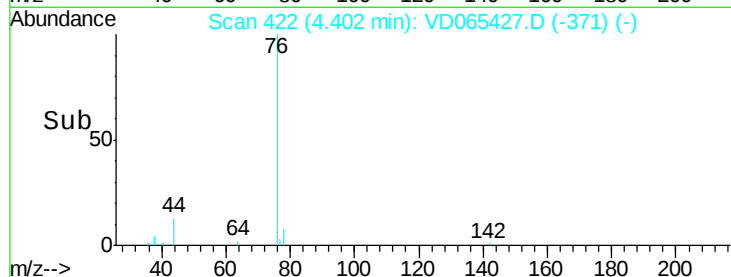
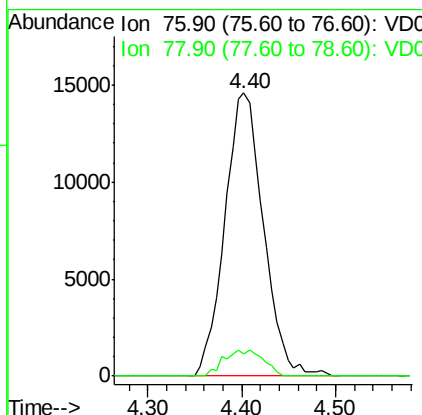
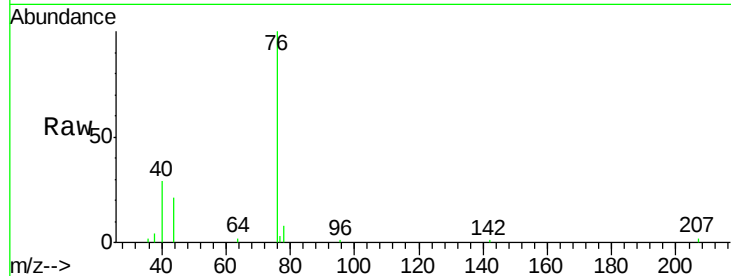
#17
Carbon Disulfide
Concen: 3.079 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 41641
Ion Ratio Lower Upper
76 100
78 7.8 7.4 11.0

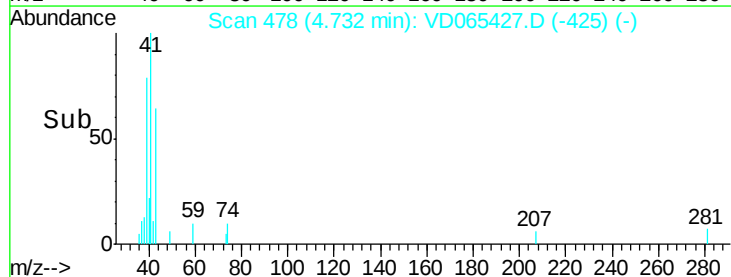
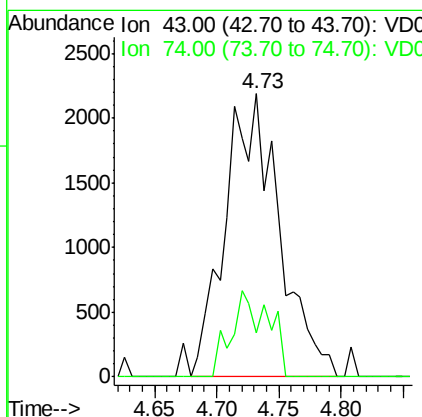
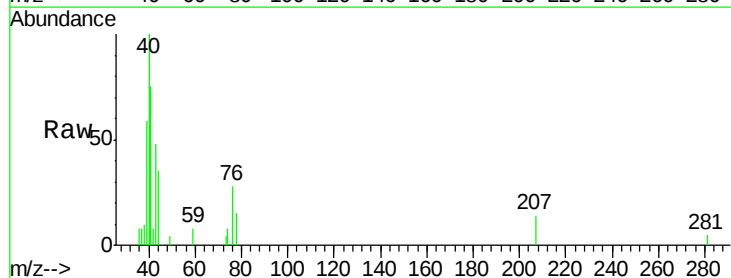
Manual Integrations
APPROVED

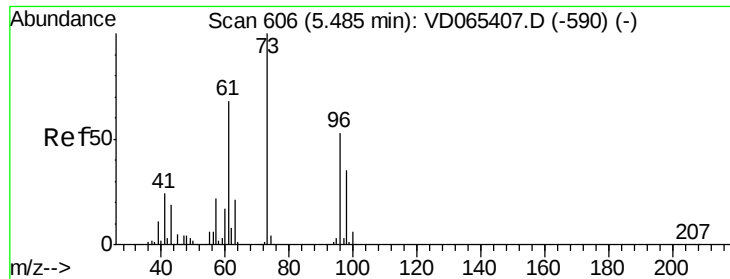
MMDadoda
3/6/2020 11:17:29 AM



#18
Methyl Acetate
Concen: 3.424 ug/l m
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion: 43 Resp: 6580
Ion Ratio Lower Upper
43 100
74 13.4 19.6 29.4#





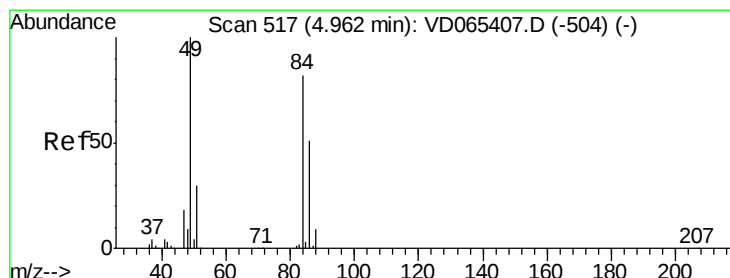
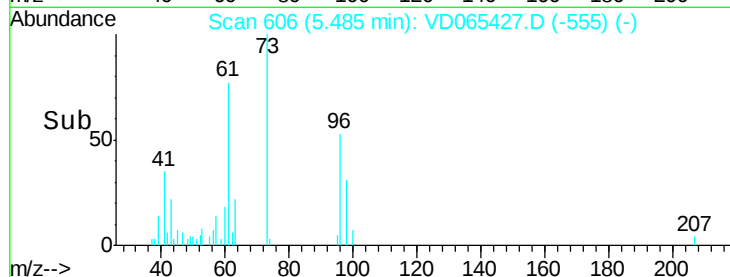
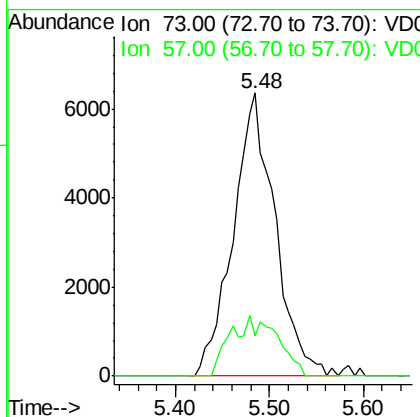
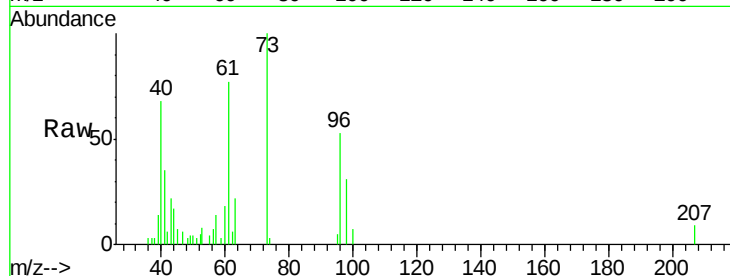
#19
Methvl tert-butvl Ether
Concen: 2.518 ug/l
RT: 5.48 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 73 Resp: 19667
Ion Ratio Lower Upper
73 100
57 14.3 17.3 25.9#

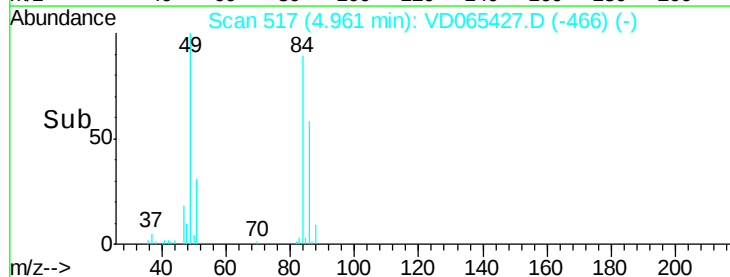
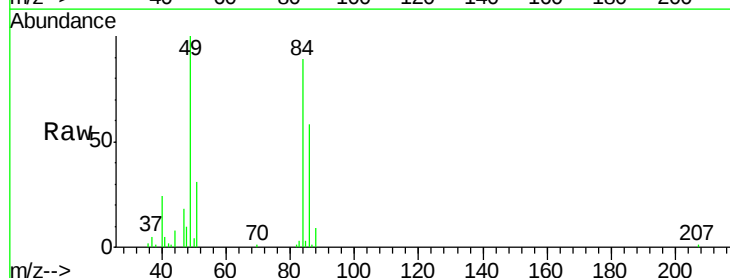
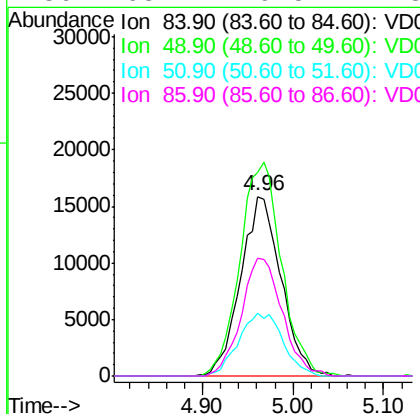
Manual Integrations
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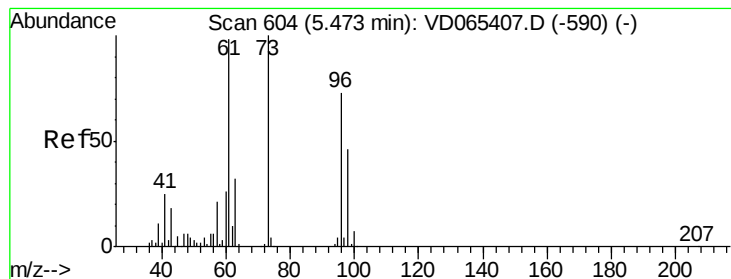
MMDadoda
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#20
Methylene Chloride
Concen: 10.506 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion: 84 Resp: 49238
Ion Ratio Lower Upper
84 100
49 112.9 97.7 146.5
51 34.7 28.8 43.2
86 65.2 49.5 74.3





#21

trans-1,2-Dichloroethene

Concen: 2.975 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

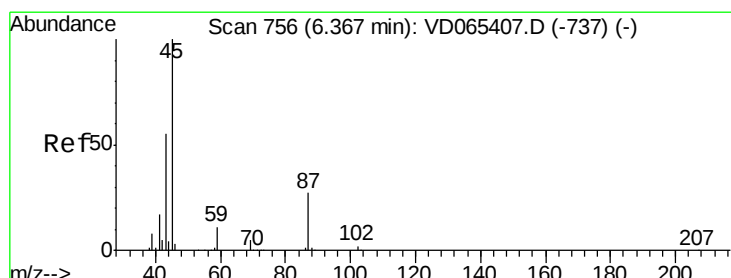
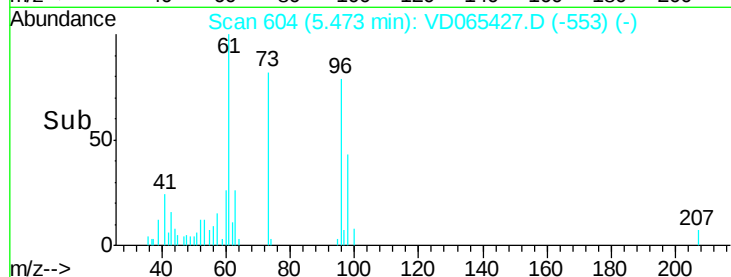
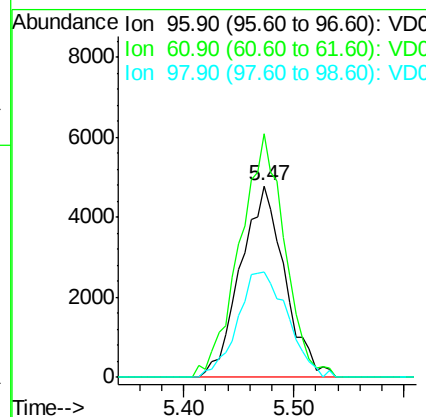
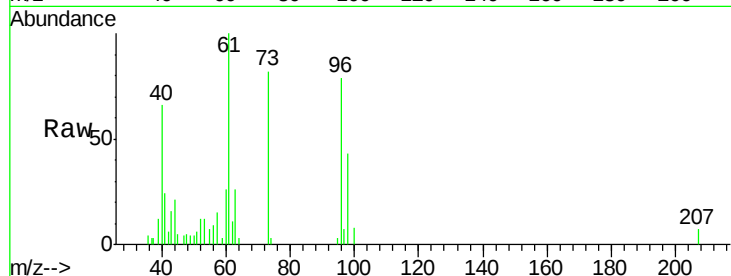
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	96	Resp:	13442
Ion	Ratio	Lower	Upper
96	100		
61	127.1	106.3	159.5
98	55.1	50.2	75.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.409 ug/l

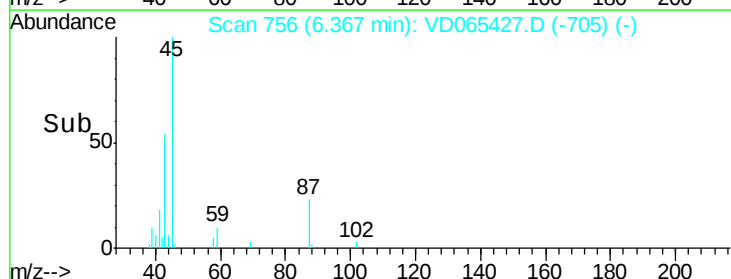
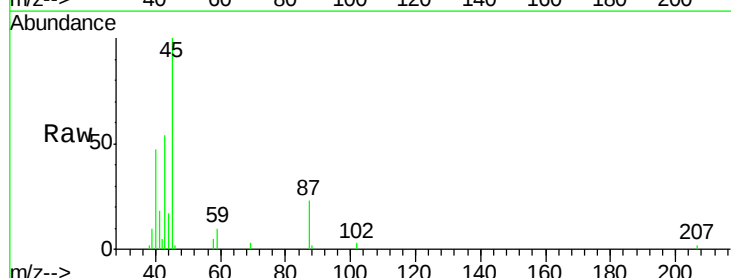
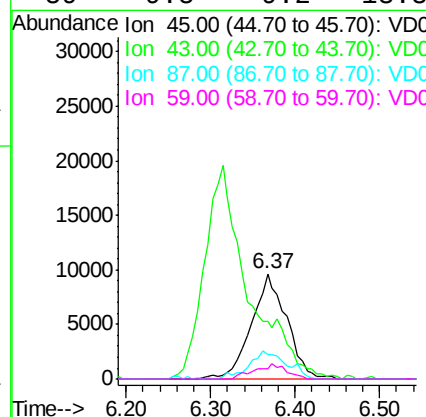
RT: 6.37 min Scan# 756

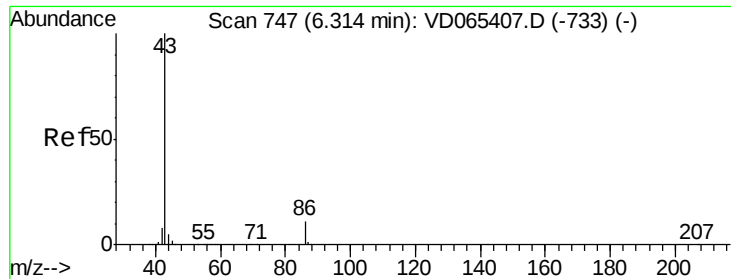
Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	45	Resp:	27933
Ion	Ratio	Lower	Upper
45	100		
43	54.3	44.4	66.6
87	23.5	21.9	32.9
59	9.5	9.2	13.8





#23

Vinyl Acetate

Concen: 10.970 ug/l

RT: 6.31 min Scan# 747

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 70641

Ion Ratio Lower Upper

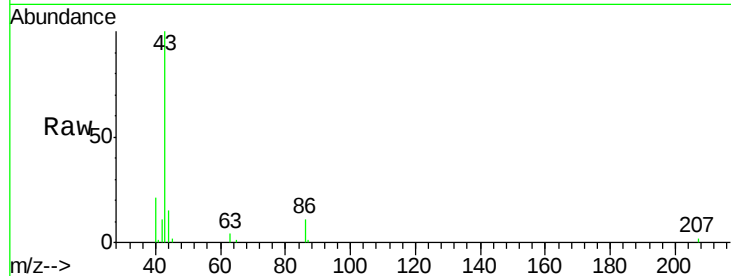
43 100

86 10.6 8.9 13.3

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

20000

15000

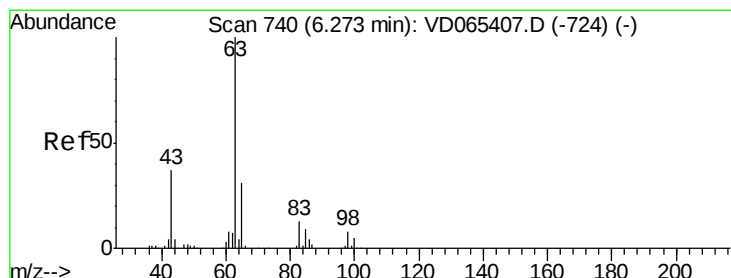
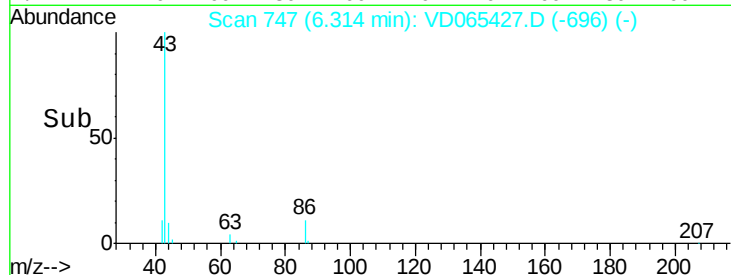
10000

5000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 2.976 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

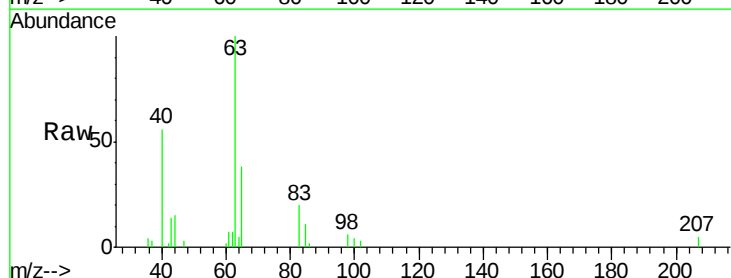
Tgt Ion: 63 Resp: 22141

Ion Ratio Lower Upper

63 100

98 6.0 4.2 12.6

100 3.6 2.4 7.2



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

10000

8000

6000

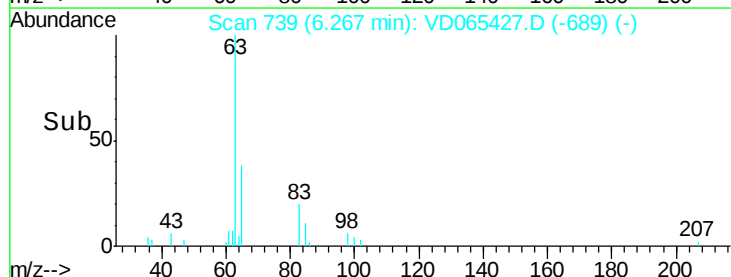
4000

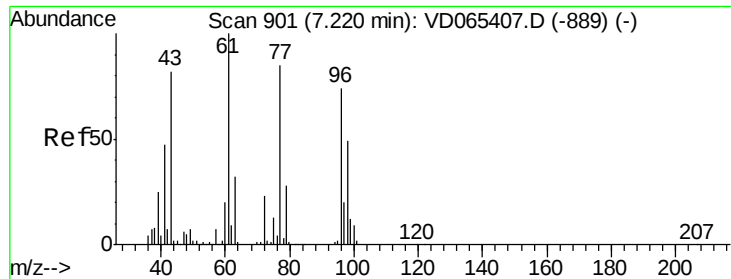
2000

0

6.20 6.30

Time-->





#25

2-Butanone

Concen: 13.093 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 13536

Ion Ratio Lower Upper

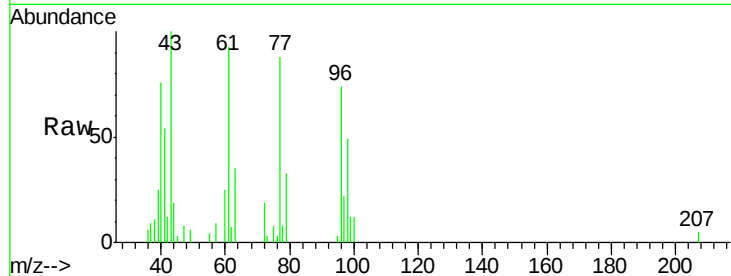
43 100

72 18.6 22.3 33.5#

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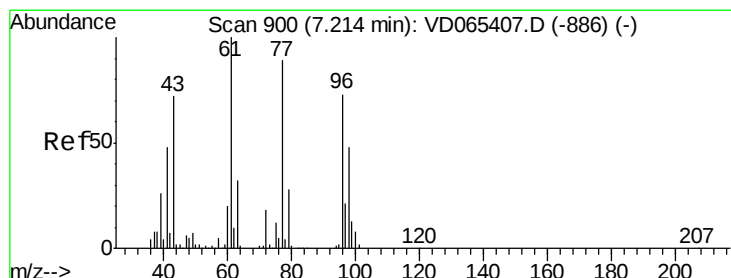
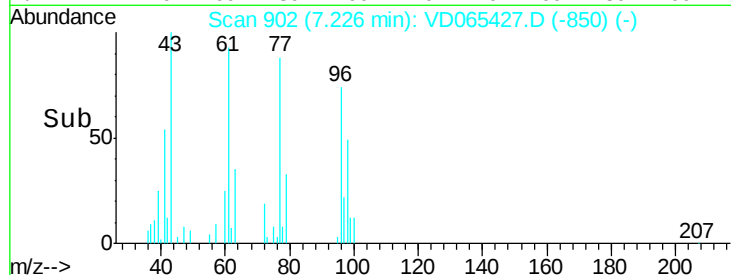
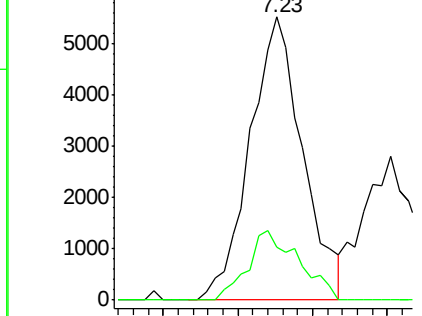
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.820 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065427.D

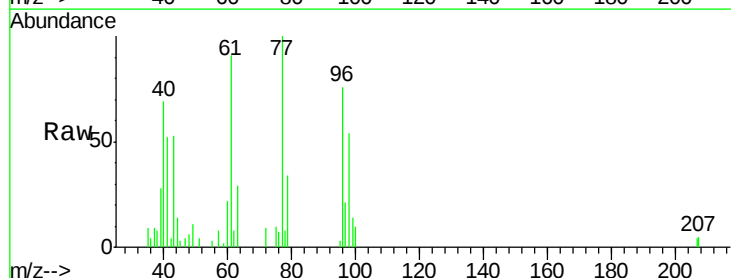
Acq: 05 Mar 2020 13:18

Tgt Ion: 77 Resp: 18330

Ion Ratio Lower Upper

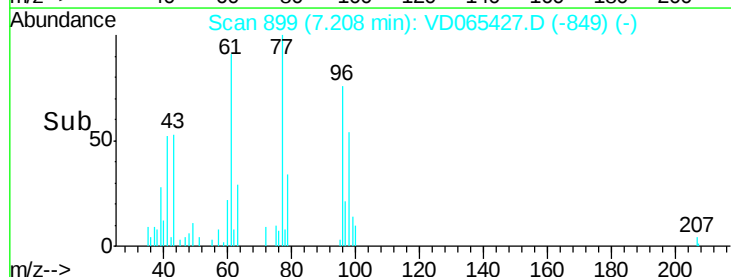
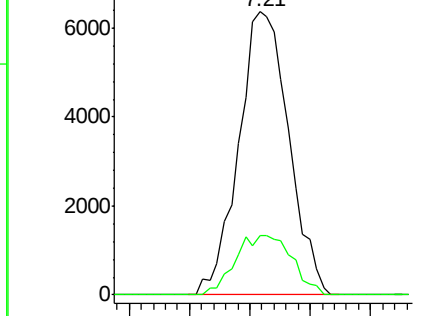
77 100

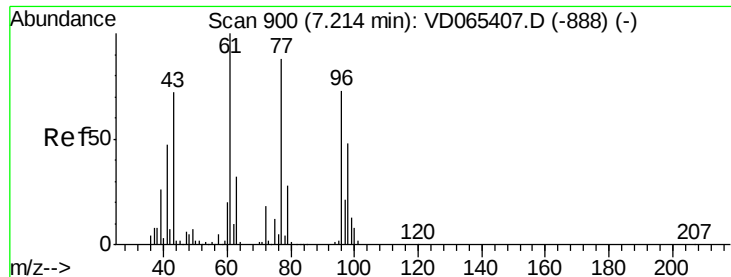
97 23.7 11.8 35.4



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

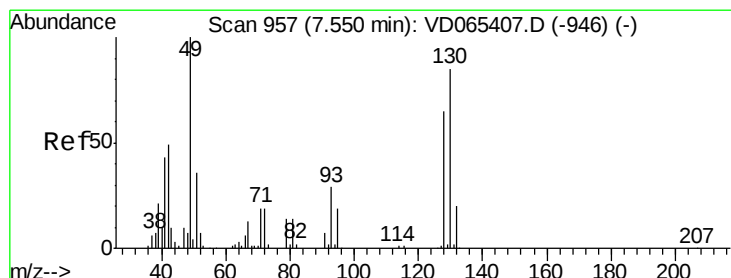
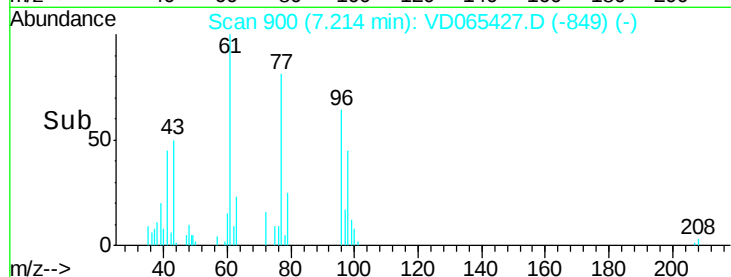
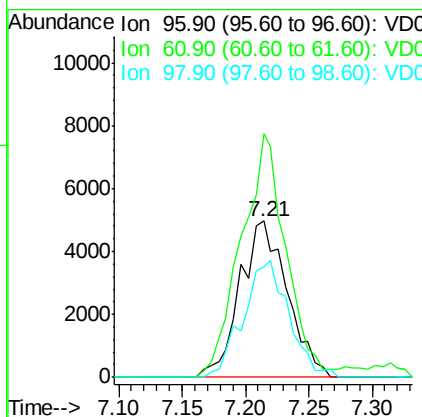
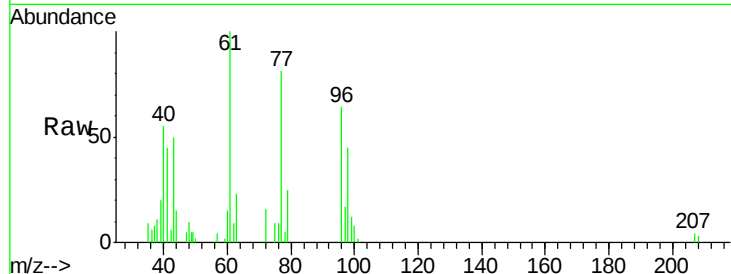
cis-1,2-Dichloroethene
Concen: 2.787 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	148.3	0.0	280.4	
98	72.4	0.0	132.6	

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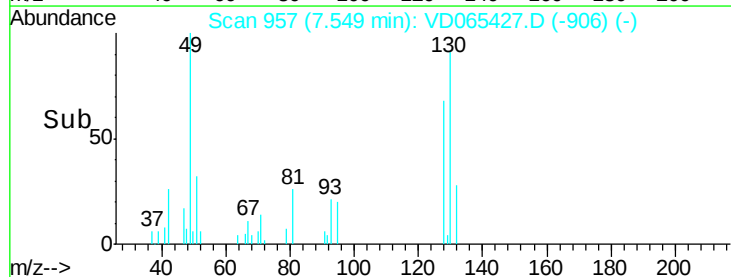
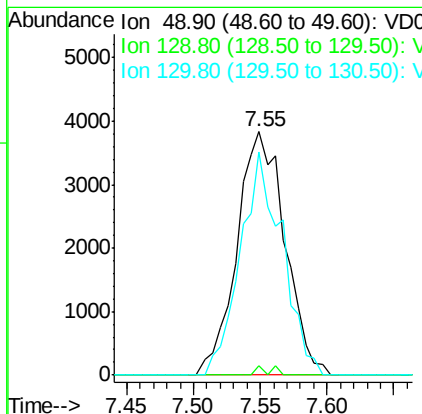
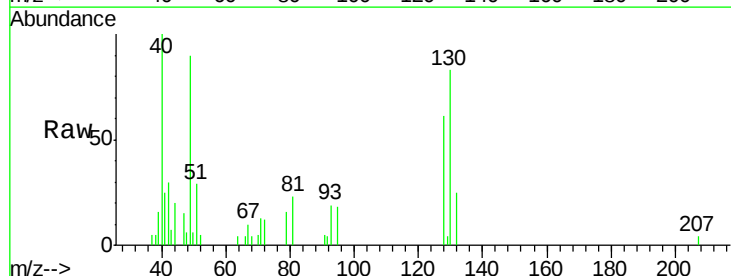
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3/6/2020 11:17:29 AM

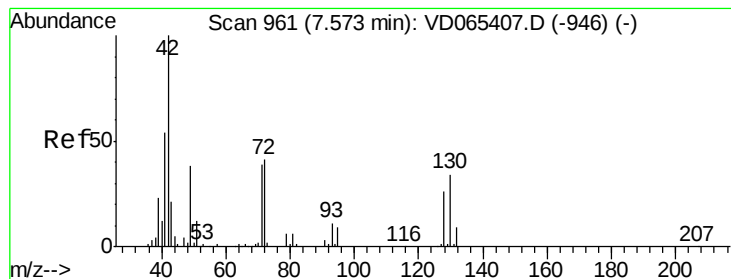


#28

Bromochloromethane
Concen: 3.207 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.1	0.0	4.6	
130	80.0	66.6	100.0	





#29

Tetrahydrofuran

Concen: 12.813 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

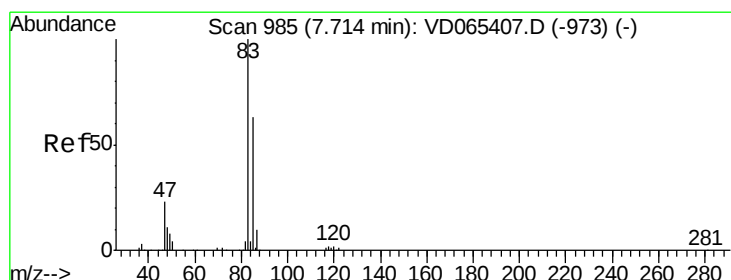
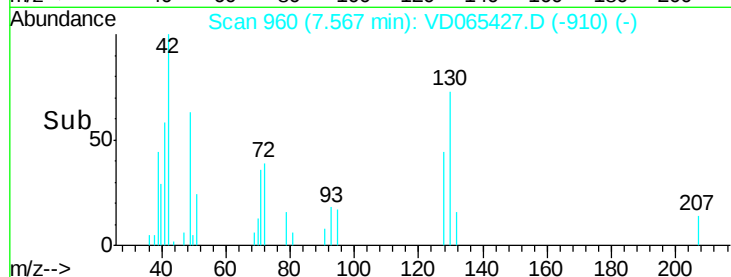
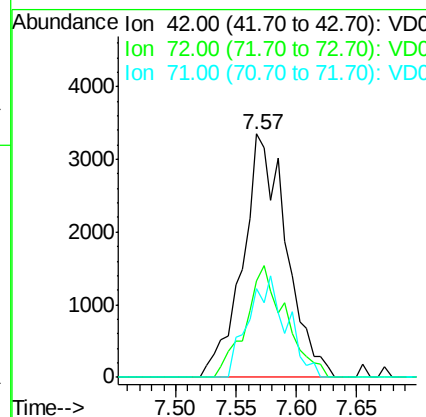
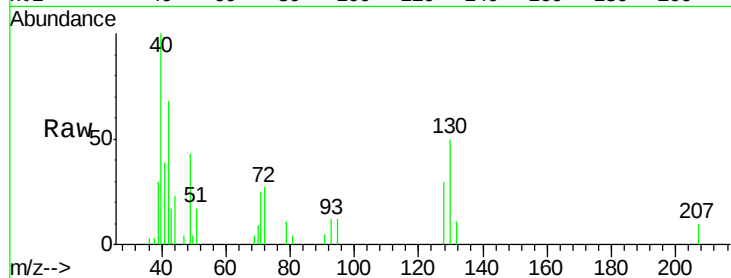
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	42	Resp:	8459
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.0	49.6
71	36.0	32.0	48.0

Manual Integrations
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#30

Chloroform

Concen: 3.146 ug/l

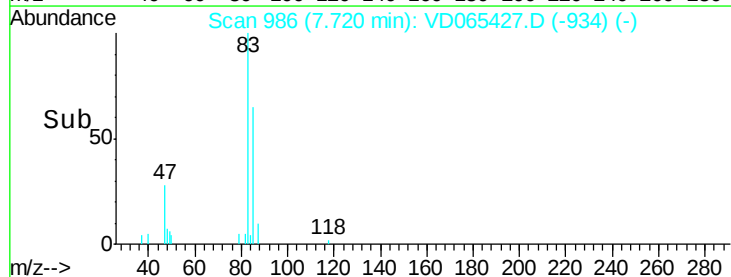
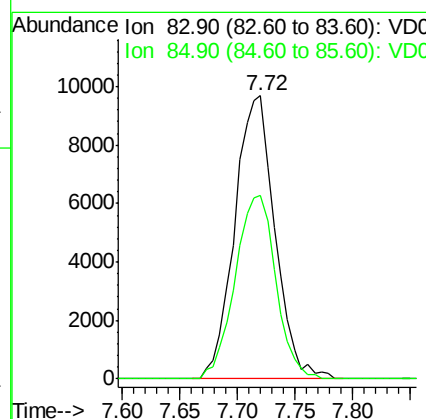
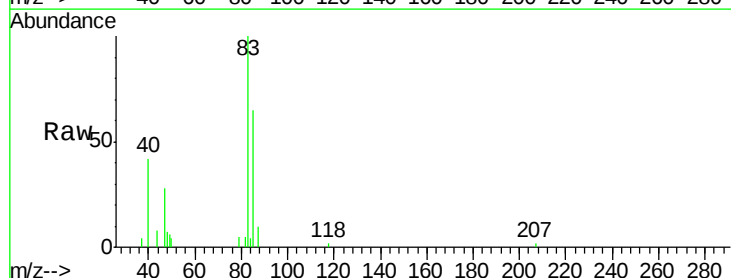
RT: 7.72 min Scan# 986

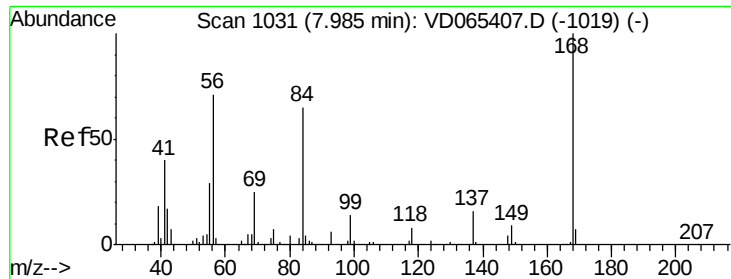
Delta R.T. 0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	83	Resp:	23389
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.3	75.5





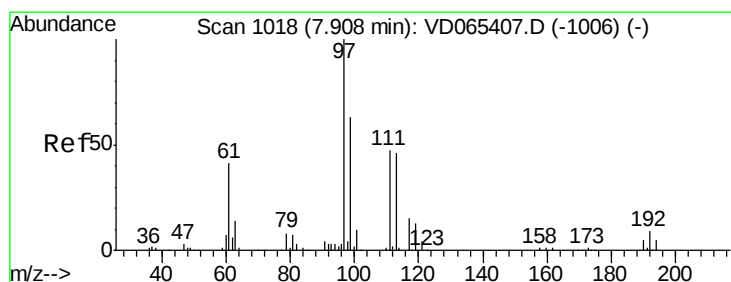
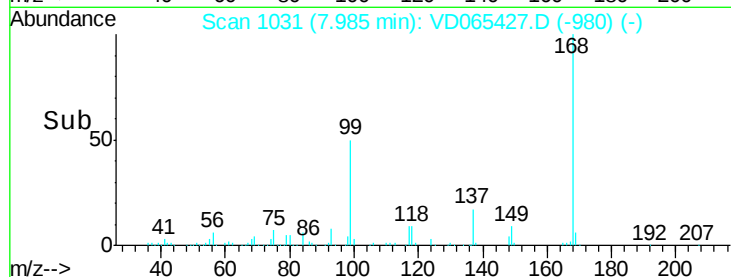
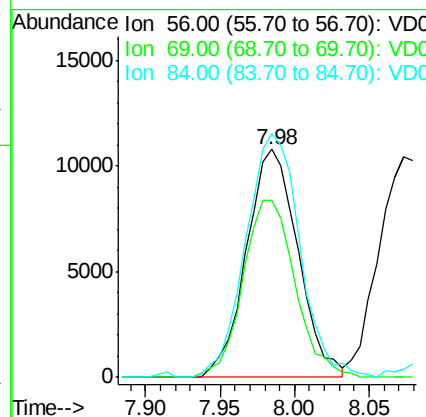
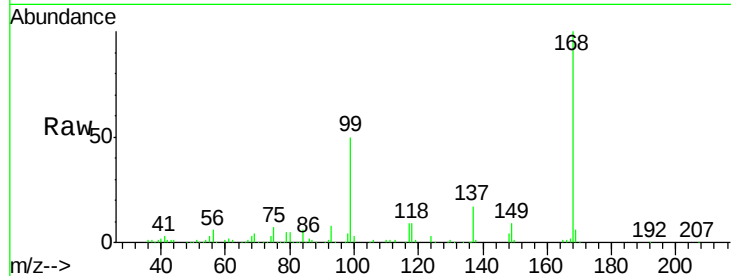
#31
Cyclohexane
Concen: 3.472 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	77.6	28.3	42.5#
84	106.8	73.1	109.7

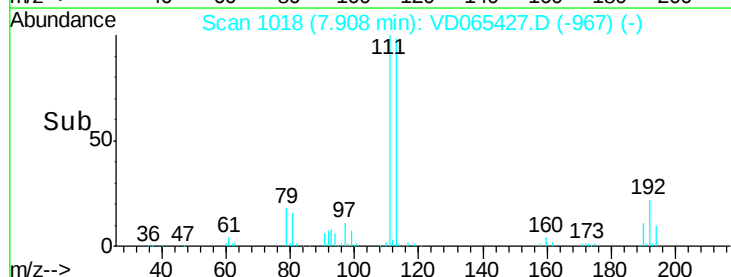
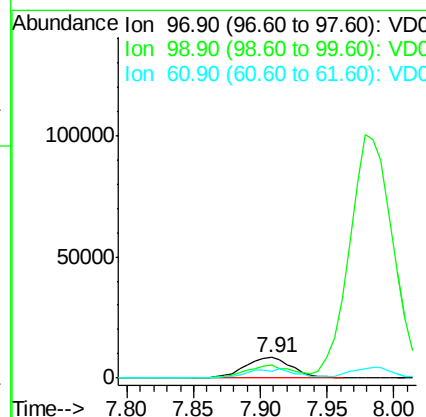
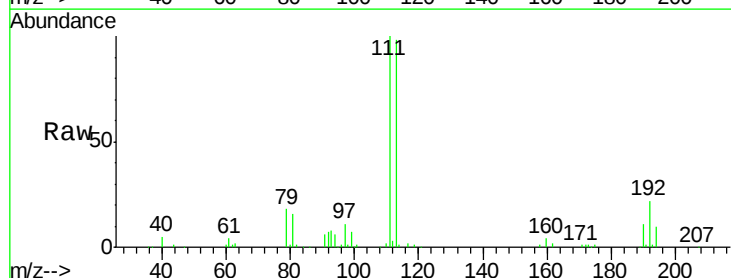
Manual Integrations
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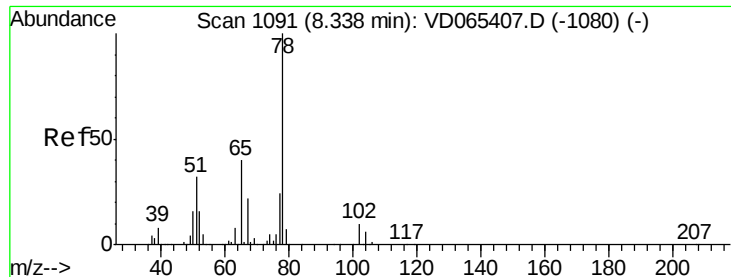
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#32
1,1,1-Trichloroethane
Concen: 3.028 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.6	50.9	76.3
61	45.2	33.2	49.8





#33

1,2-Dichloroethane-d4

Concen: 57.157 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 65 Resp: 214105

Ion Ratio Lower Upper

65 100

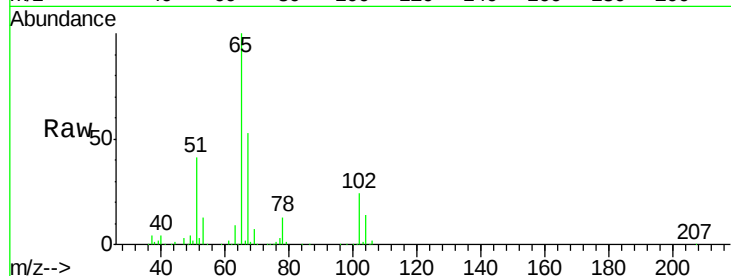
67 53.1 0.0 108.0

Manual Integrations

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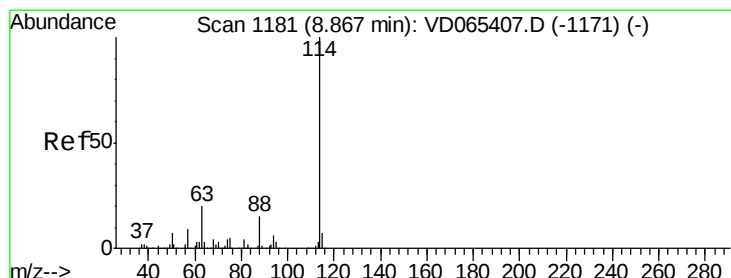
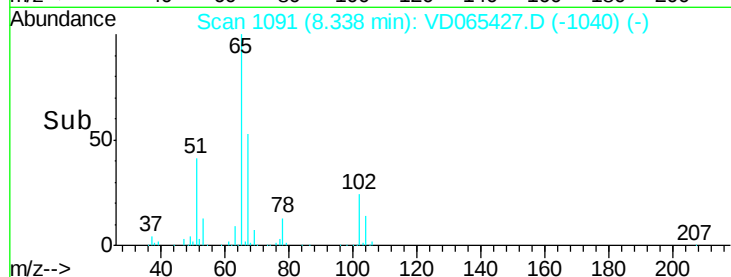
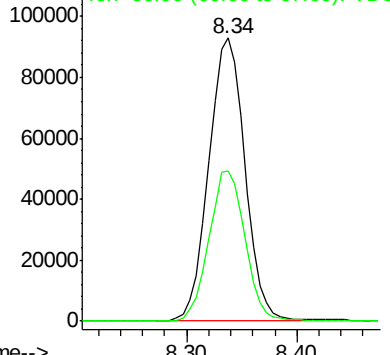
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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

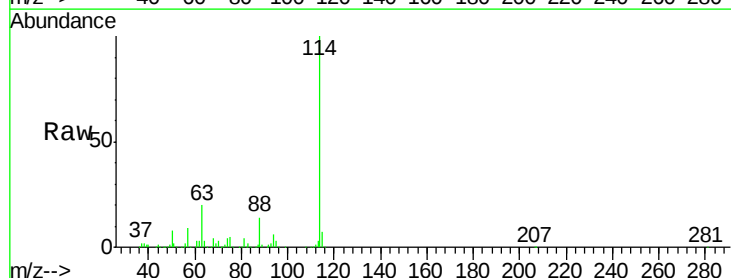
Tgt Ion: 114 Resp: 679310

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

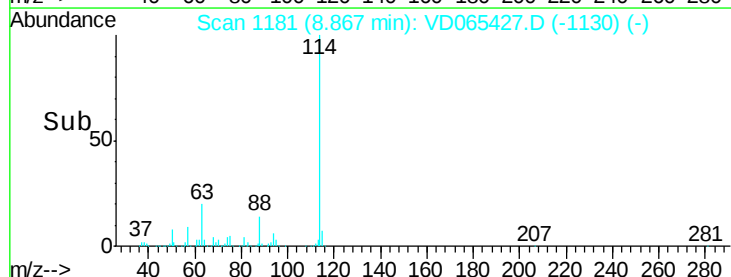
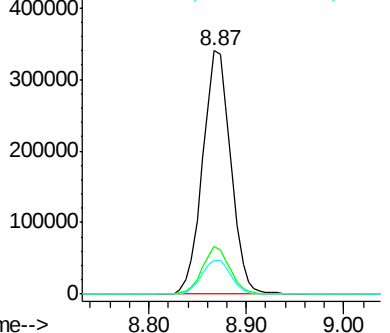
88 14.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





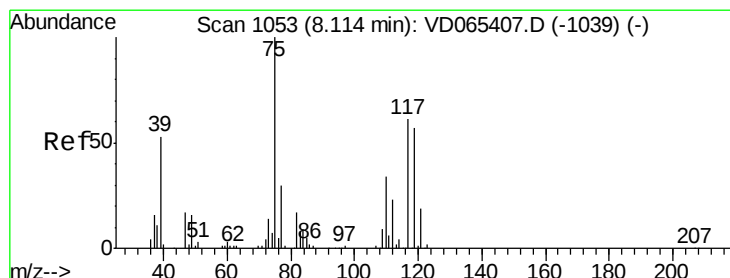
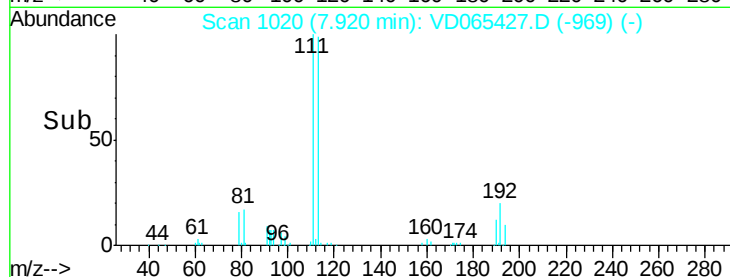
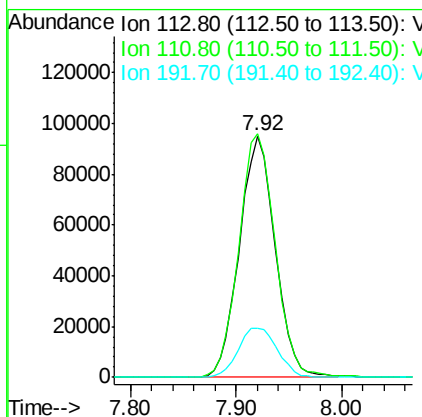
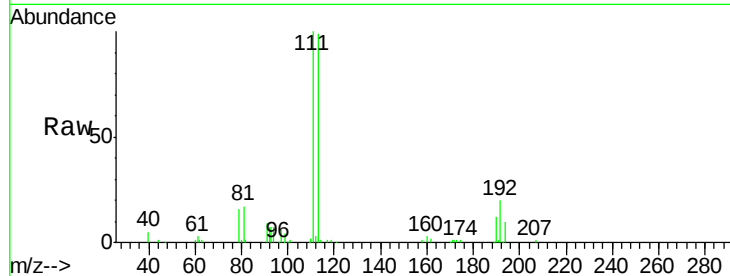
#35
Dibromofluoromethane
Concen: 53.162 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.1	123.1
192	22.4	17.2	25.8

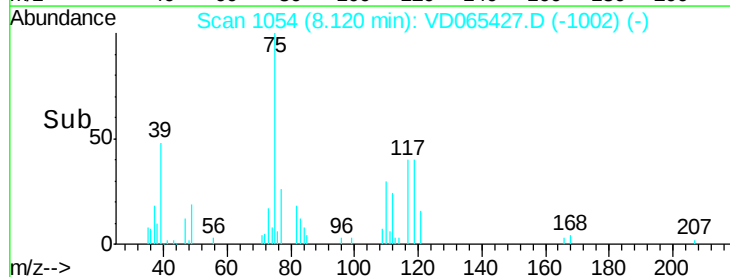
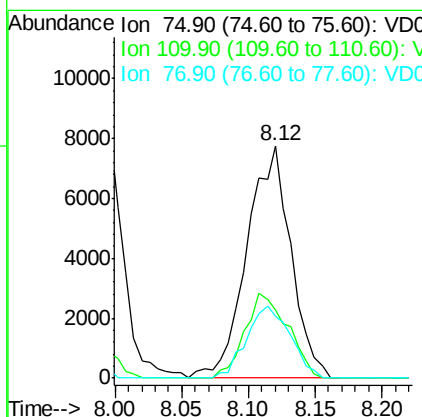
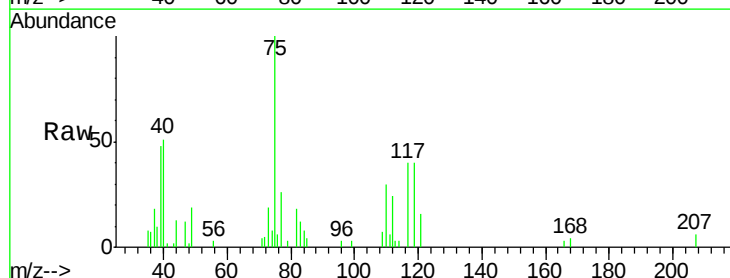
Manual Integrations
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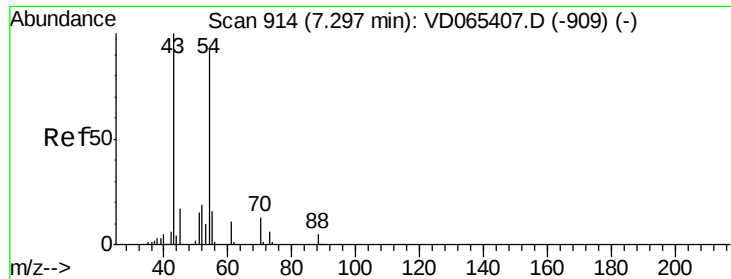
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#36
1,1-Dichloropropene
Concen: 2.718 ug/l
RT: 8.12 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.8	18.1	54.1
77	30.7	25.2	37.8





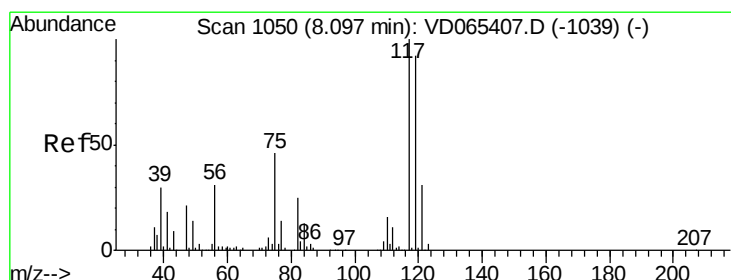
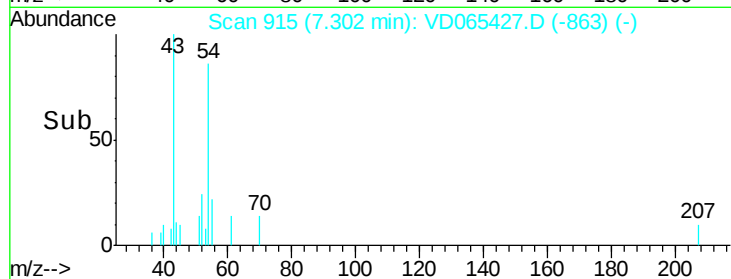
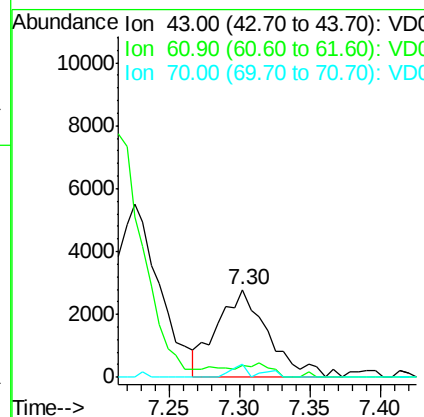
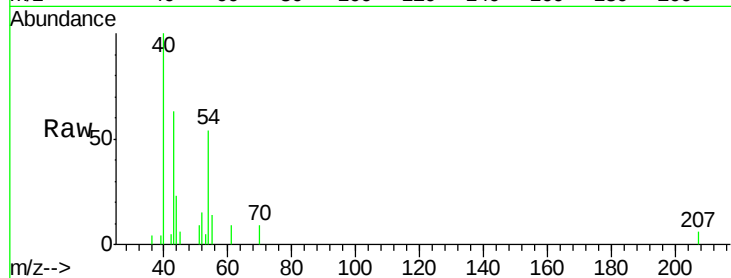
#37
Ethyl Acetate
Concen: 2.810 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleID :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	4.3	9.0	13.4#

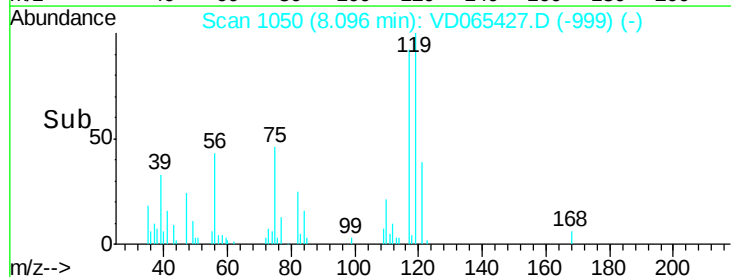
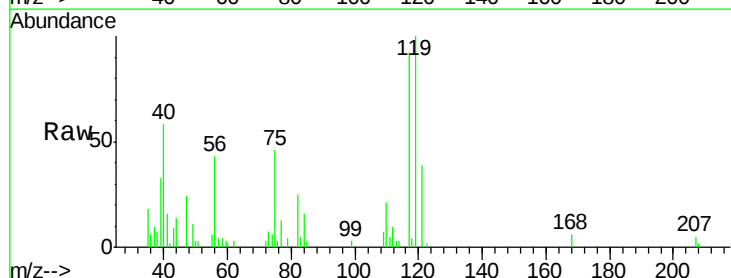
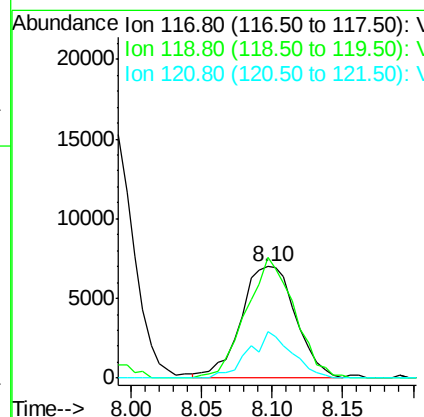
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#38
Carbon Tetrachloride
Concen: 2.813 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	108.6	73.3	109.9
121	41.9	25.0	37.4#





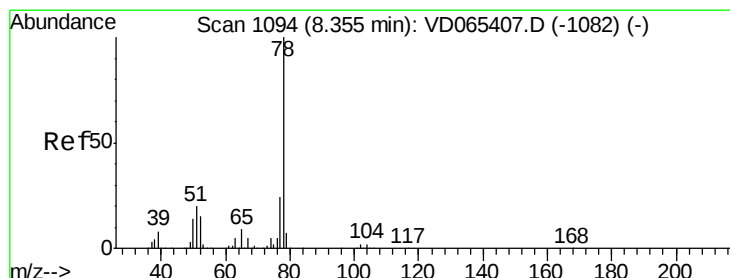
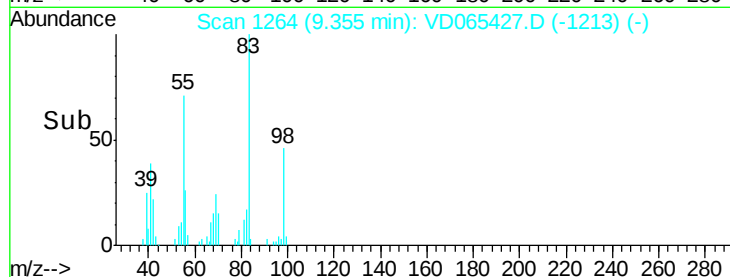
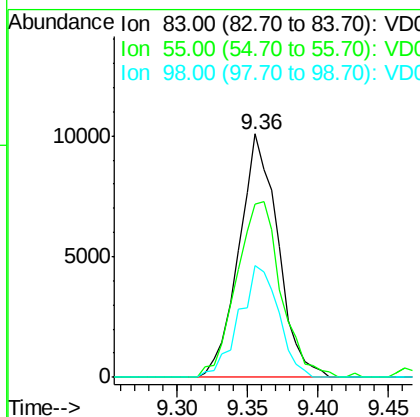
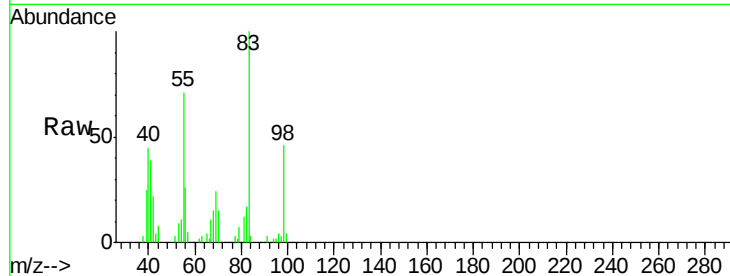
#39
Methvlcvclohexane
Concen: 2.489 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.9	57.1	85.7
98	45.8	37.8	56.8

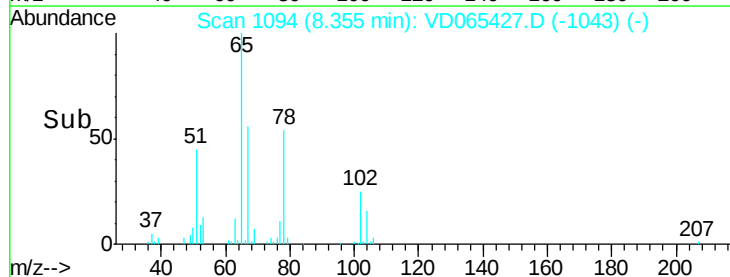
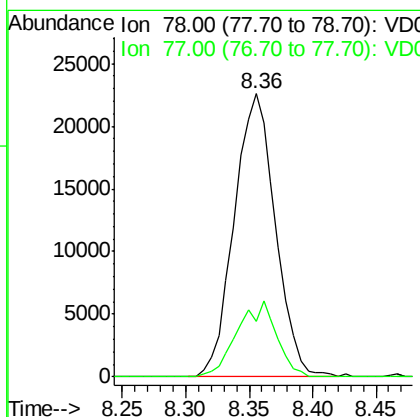
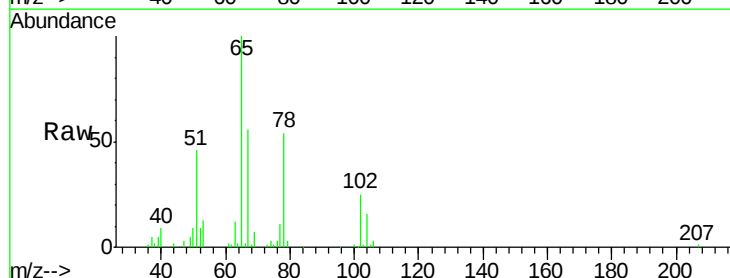
Manual Integrations
APPROVED

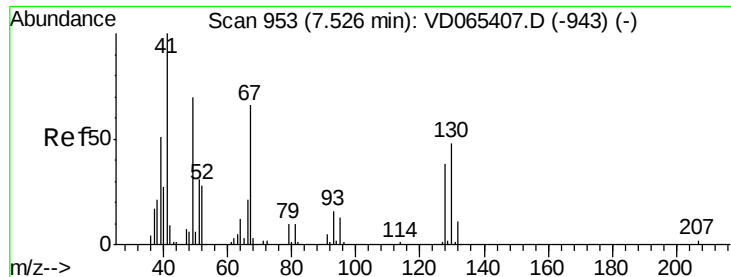
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#40
Benzene
Concen: 2.794 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.6	19.4	29.0





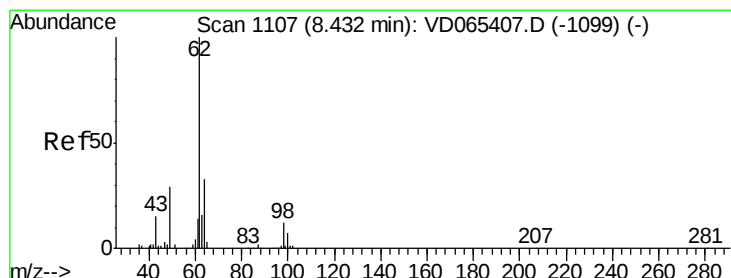
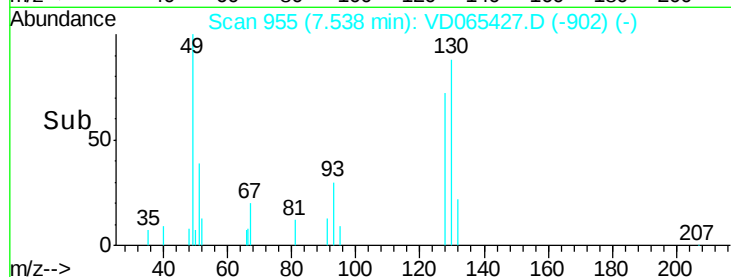
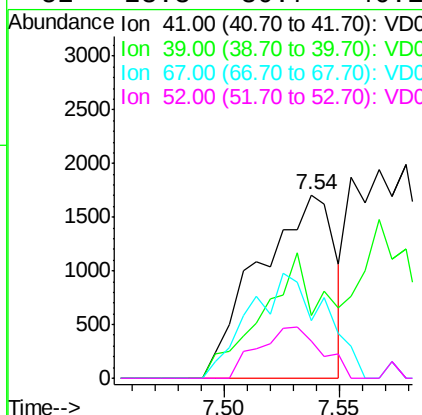
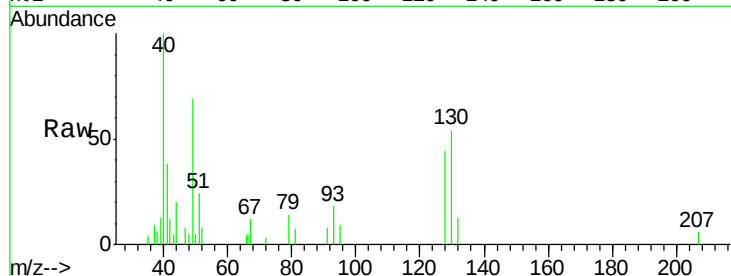
#41
Methacrylonitrile
Concen: 2.924 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.4	55.0	82.6
67	56.7	70.3	105.5#
52	23.3	30.7	46.1#

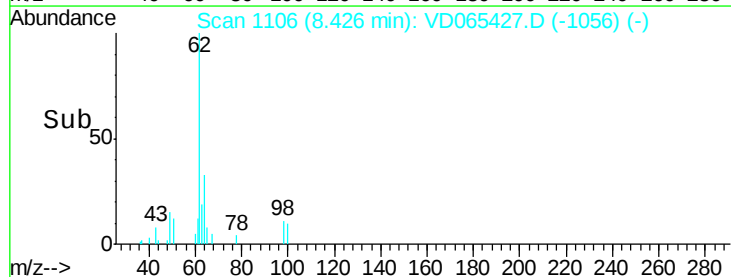
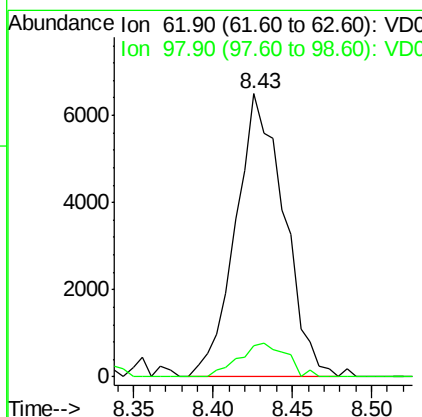
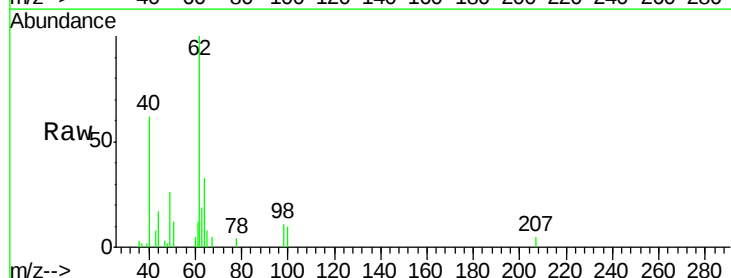
Manual Integrations
APPROVED

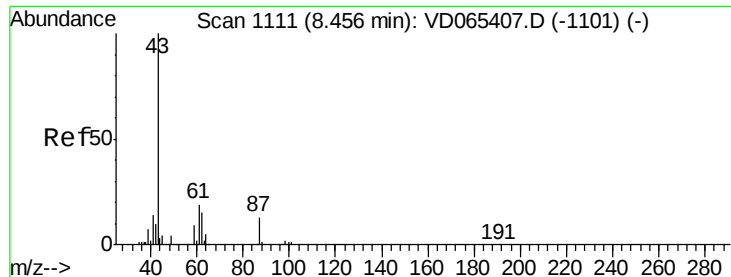
MMDadoda
3/6/2020 11:17:29 AM



#42
1,2-Dichloroethane
Concen: 2.907 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.8	0.0	21.4





#43

Isopropyl Acetate

Concen: 2.593 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

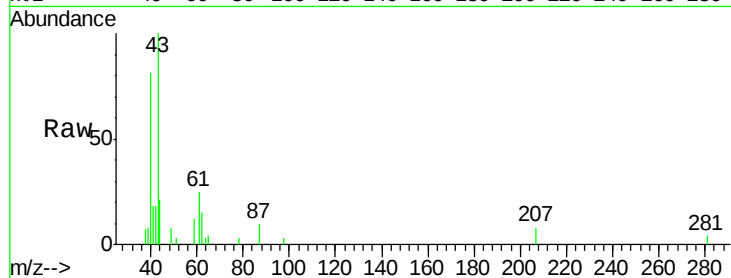
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

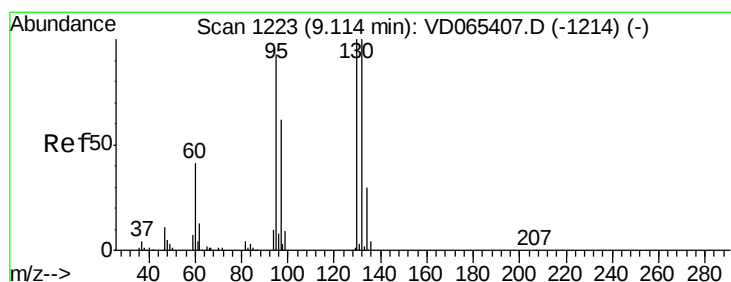
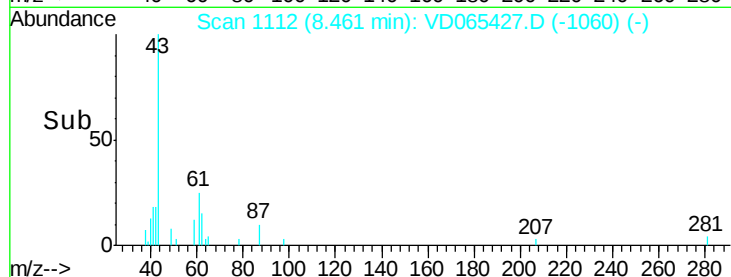
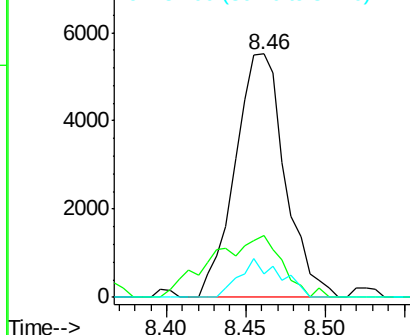
Tot Ion:	43	Resp:	12050
Ion	Ratio	Lower	Upper
43	100		
61	36.0	25.0	37.6
87	12.9	11.0	16.4

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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: 2.964 ug/l

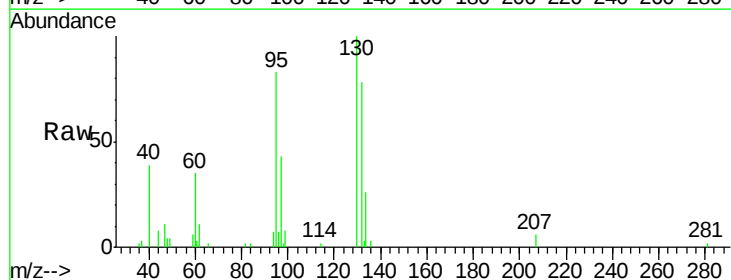
RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

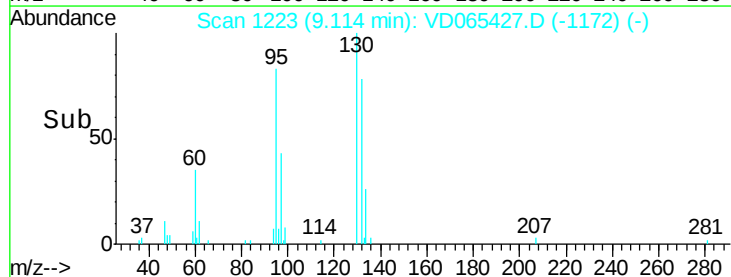
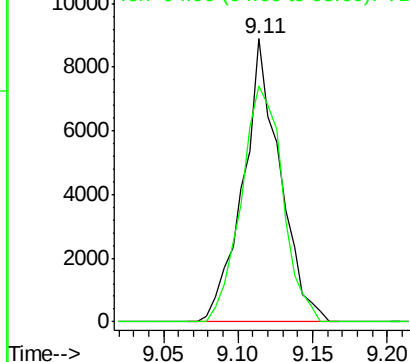
Lab File: VD065427.D

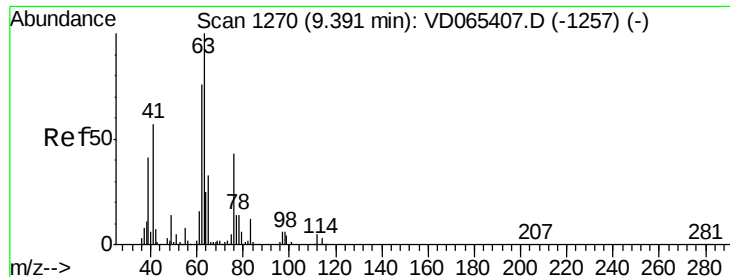
Acq: 05 Mar 2020 13:18

Tgt Ion:	130	Resp:	15240
Ion	Ratio	Lower	Upper
130	100		
95	83.3	0.0	186.0



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





#45

1,2-Dichloropropane

Concen: 2.856 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 63 Resp: 12597

Ion Ratio Lower Upper

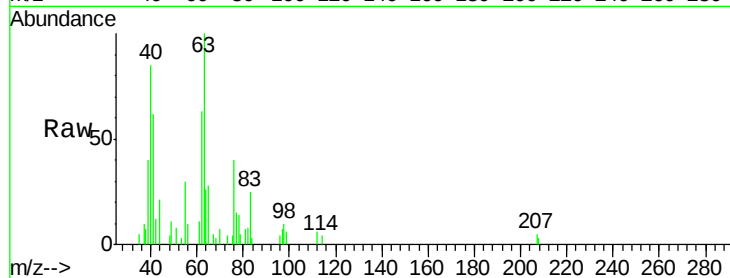
63 100

65 28.0 26.4 39.6

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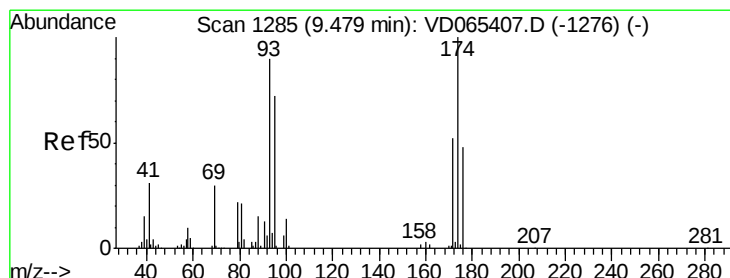
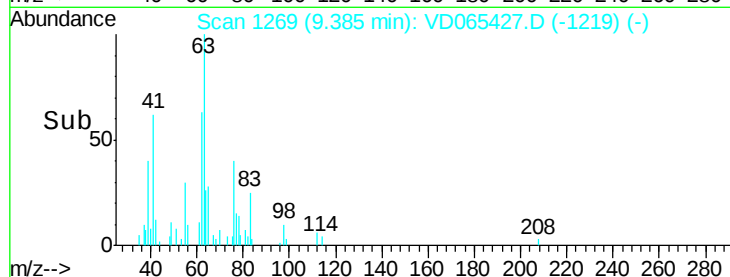
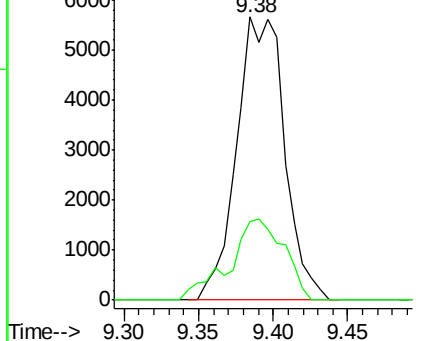
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 2.685 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

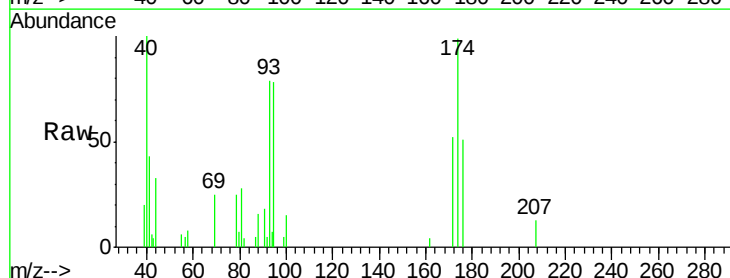
Tgt Ion: 93 Resp: 6141

Ion Ratio Lower Upper

93 100

95 89.7 65.0 97.6

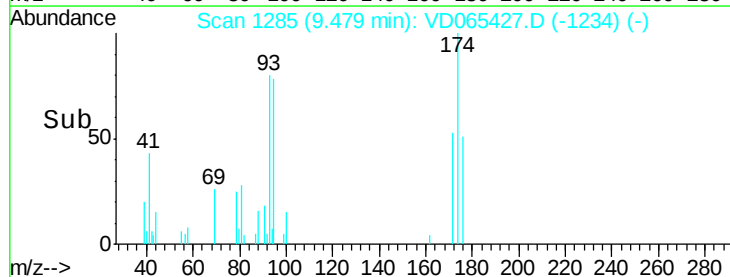
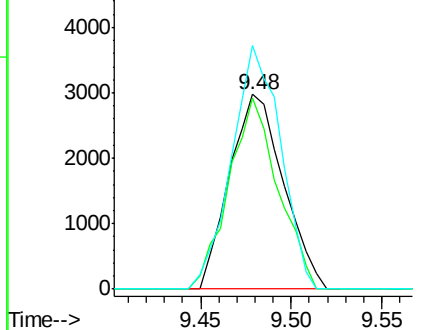
174 113.5 88.3 132.5



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: 2.853 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

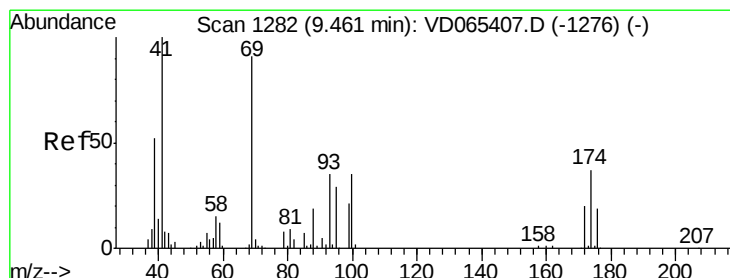
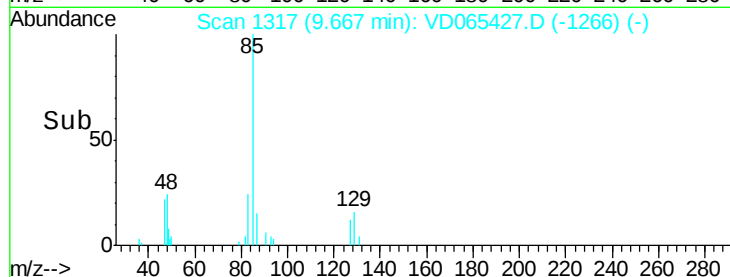
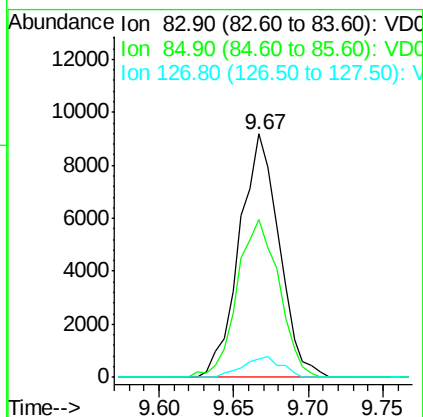
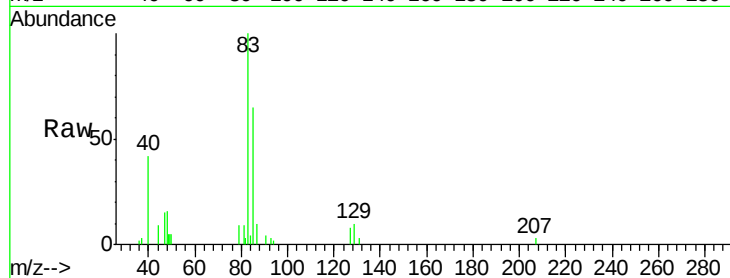
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	16981
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.8	79.2
127	7.7	8.0	12.0#

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#48

Methyl methacrylate

Concen: 2.534 ug/l

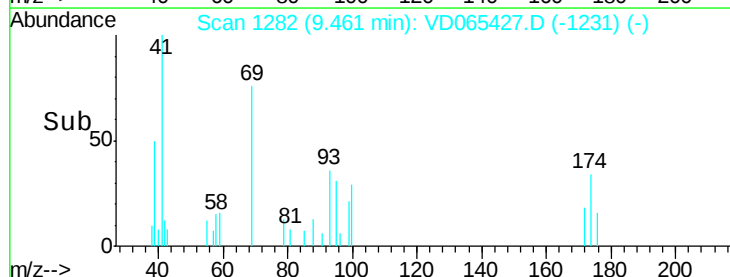
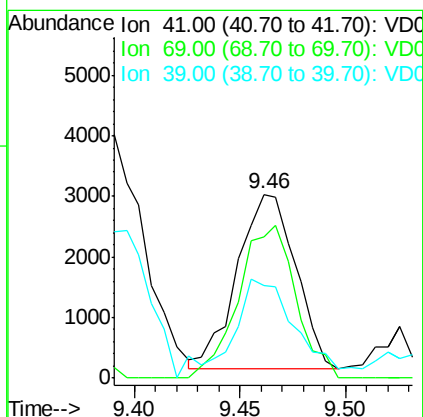
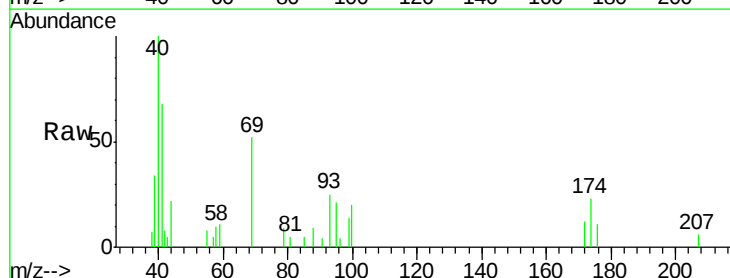
RT: 9.46 min Scan# 1282

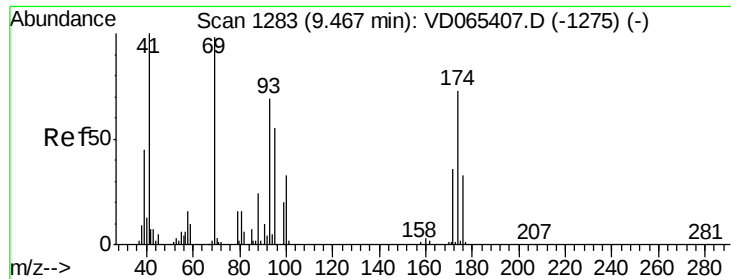
Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	41	Resp:	5539
Ion	Ratio	Lower	Upper
41	100		
69	85.5	72.5	108.7
39	59.1	41.6	62.4





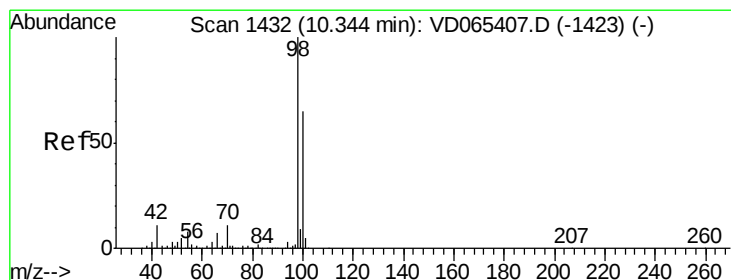
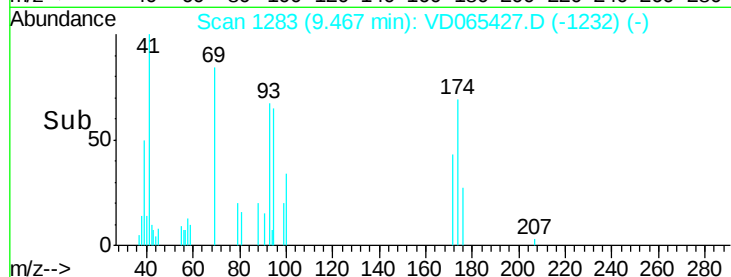
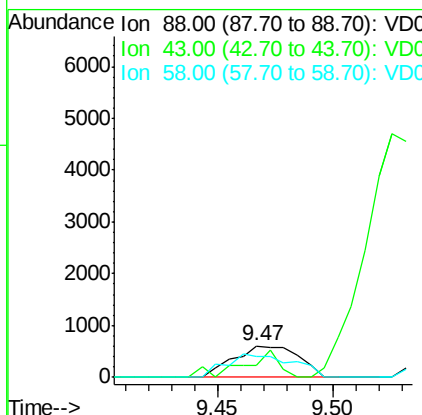
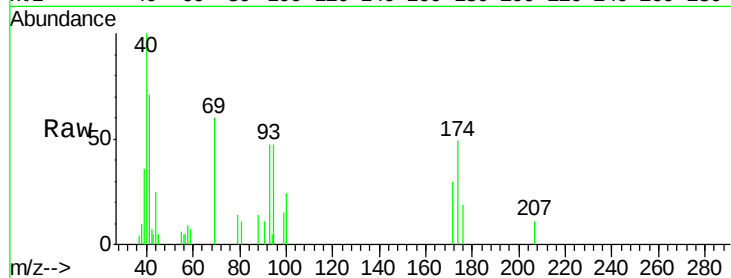
#49
1,4-Dioxane
Concen: 45.325 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.0	24.5	36.7#
58	75.9	54.5	81.7

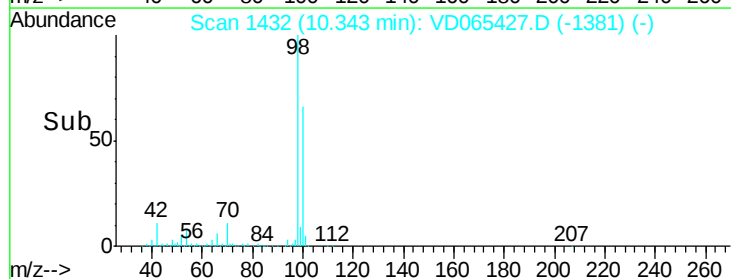
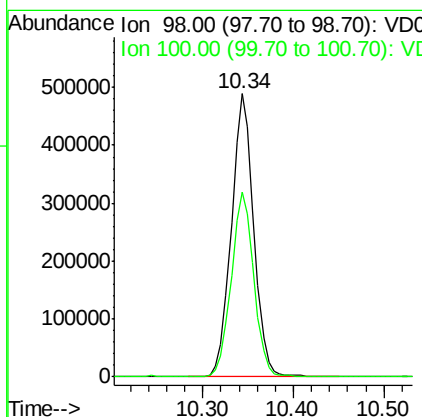
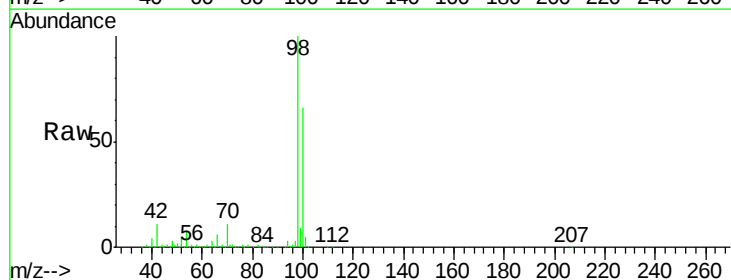
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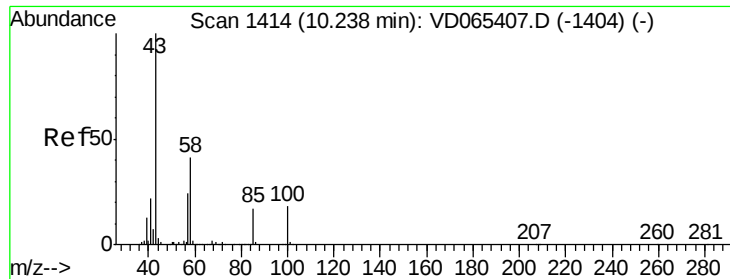
MMDadoda
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#50
Toluene-d8
Concen: 52.270 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.8	79.2





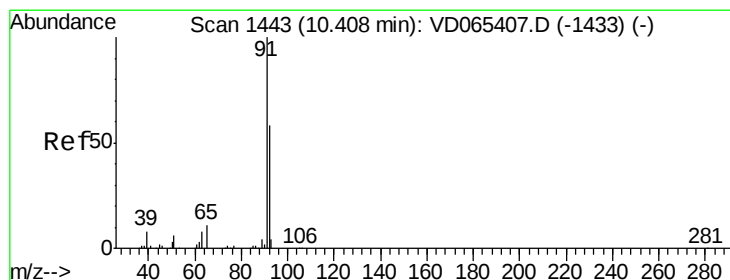
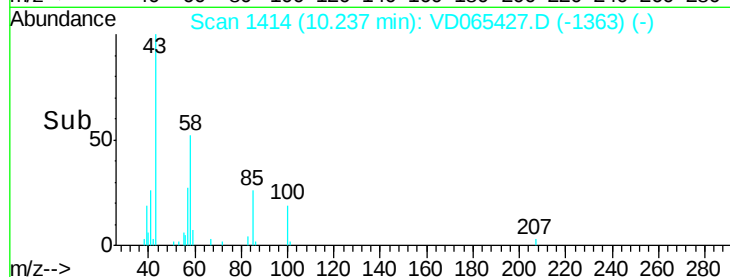
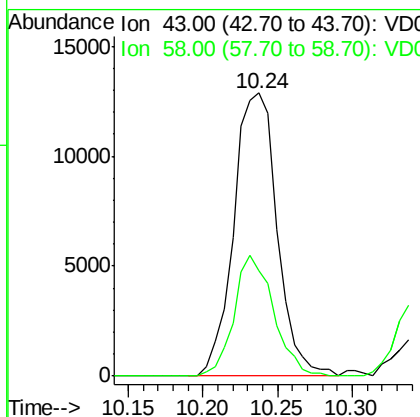
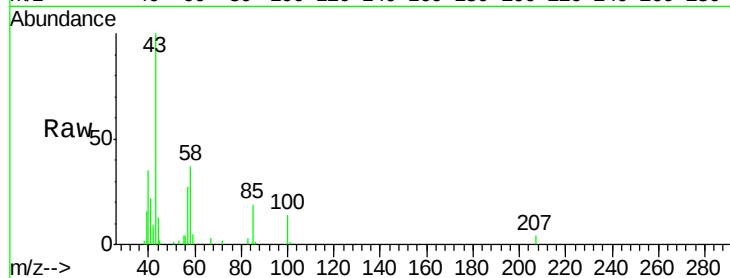
#51
4-Methyl-2-Pentanone
Concen: 11.115 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.8	47.6

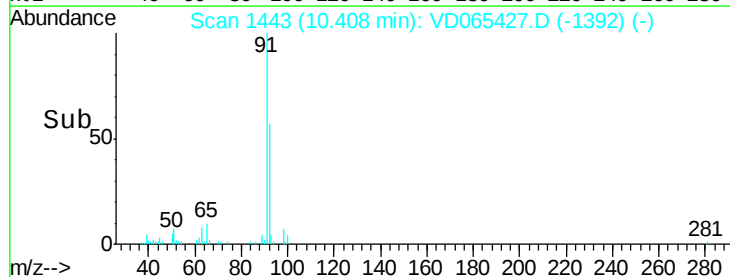
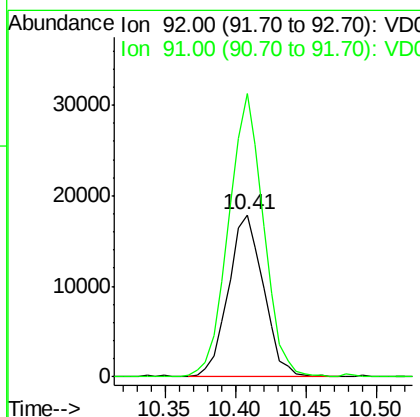
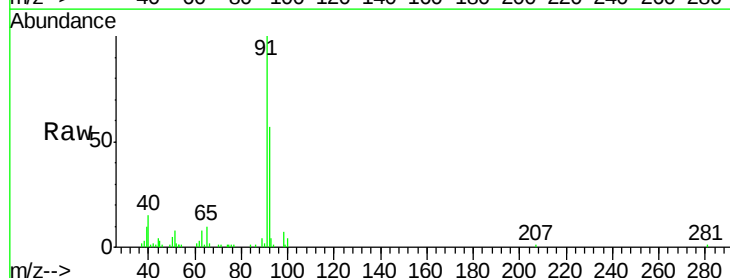
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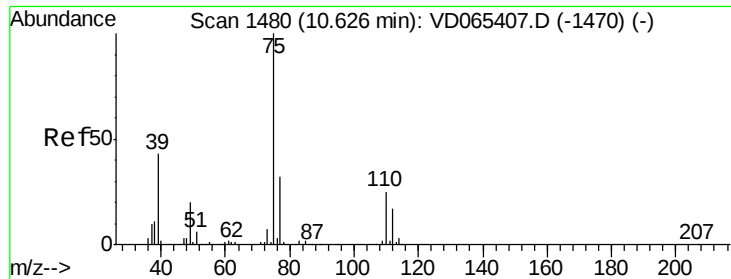
MMDadoda
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#52
Toluene
Concen: 2.714 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.8	137.8	206.8





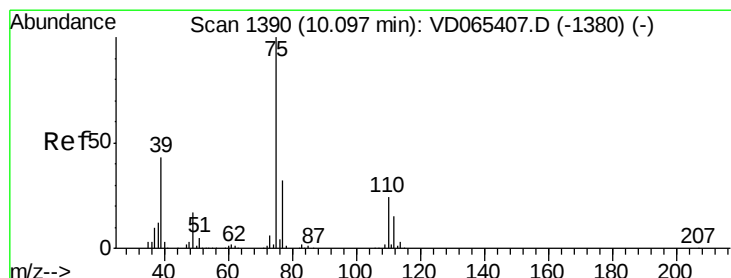
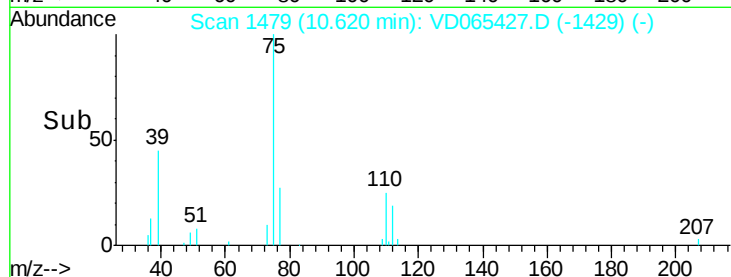
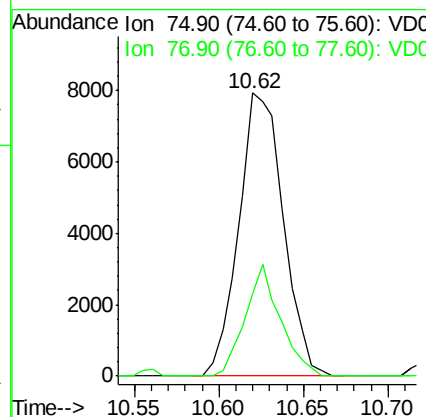
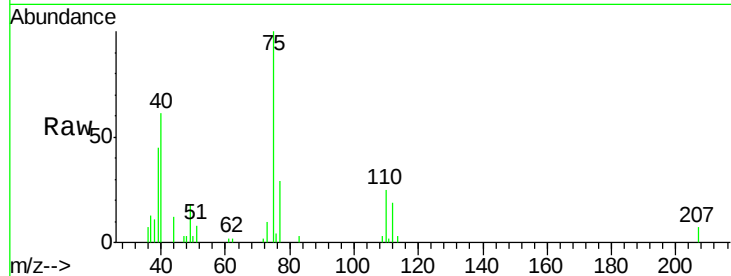
#53
 t-1,3-Dichloropropene
 Concen: 2.617 ug/l
 RT: 10.62 min Scan# 1479
 Delta R.T. -0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion: 75 Resp: 14556
 Ion Ratio Lower Upper
 75 100
 77 29.3 25.4 38.2

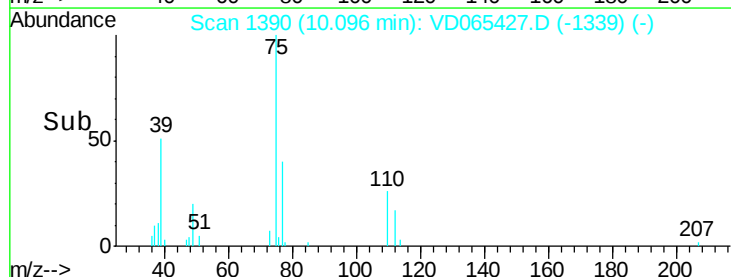
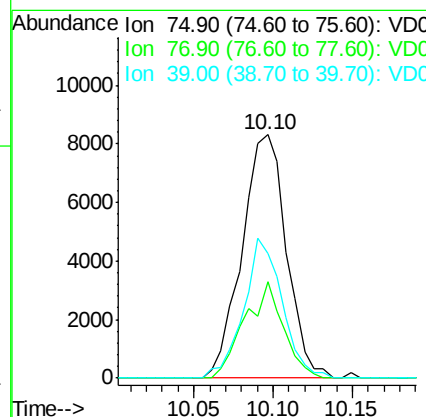
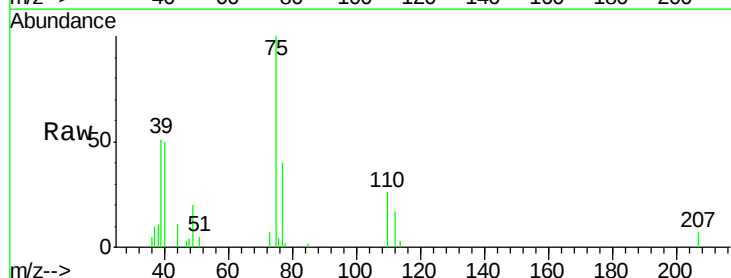
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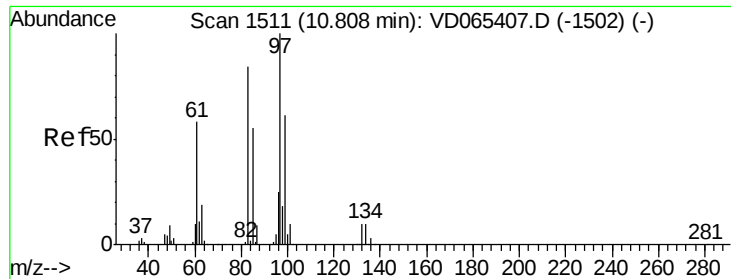
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#54
 cis-1,3-Dichloropropene
 Concen: 2.402 ug/l
 RT: 10.10 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Tgt Ion: 75 Resp: 16171
 Ion Ratio Lower Upper
 75 100
 77 39.7 25.3 37.9#
 39 51.2 34.6 52.0





#55

1,1,2-Trichloroethane

Concen: 2.857 ug/l

RT: 10.81 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

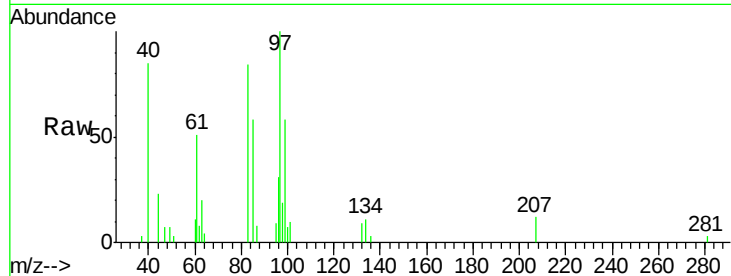
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	97	Resp:	9258
Ion	Ratio	Lower	Upper
97	100		
83	84.0	67.4	101.0
85	58.0	43.8	65.8
99	58.4	48.8	73.2

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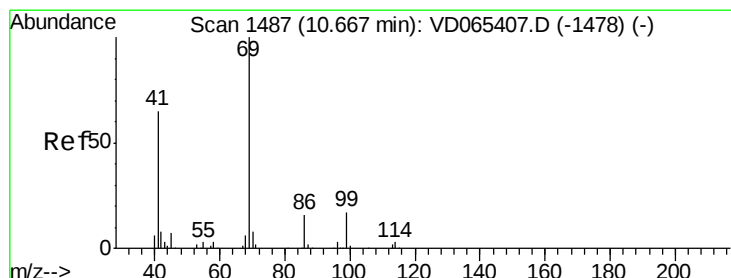
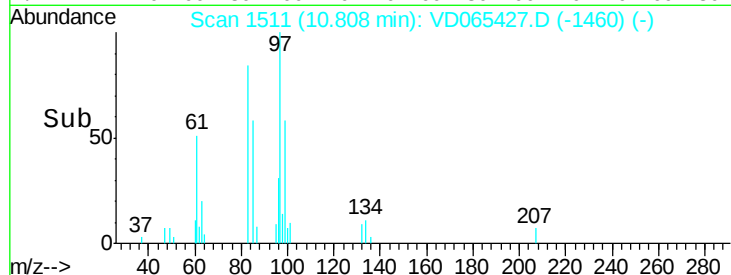
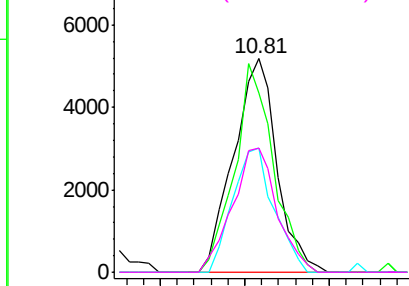


Abundance Ion 96.90 (96.60 to 97.60): VDC

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: 2.237 ug/l

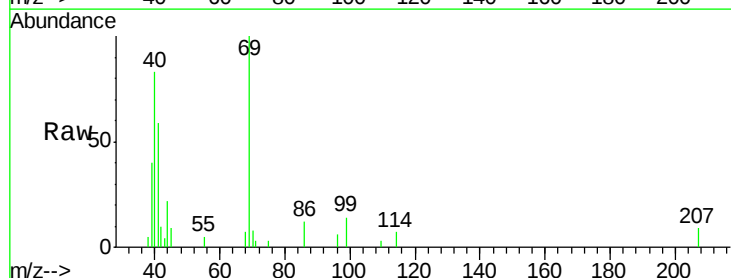
RT: 10.66 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

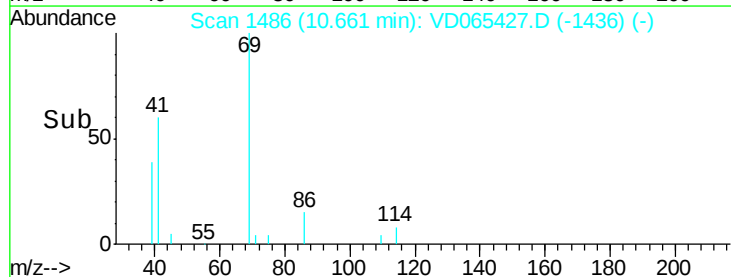
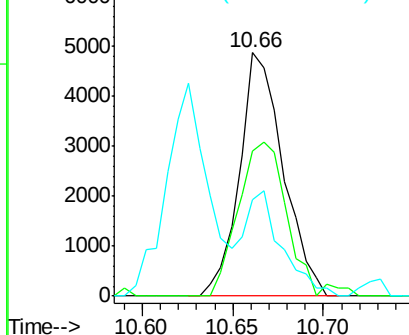
Tgt Ion:	69	Resp:	8169
Ion	Ratio	Lower	Upper
69	100		
41	71.2	53.0	79.6
39	36.9	26.0	39.0



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





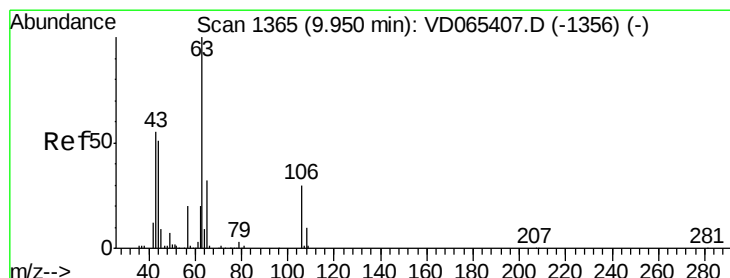
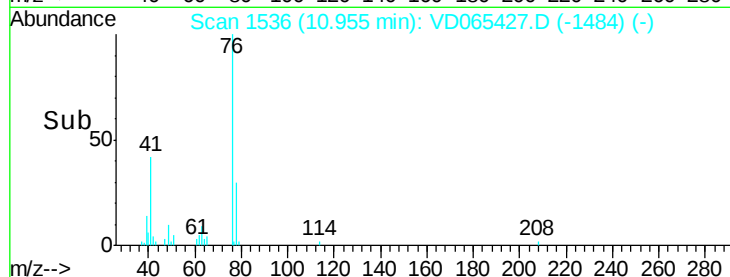
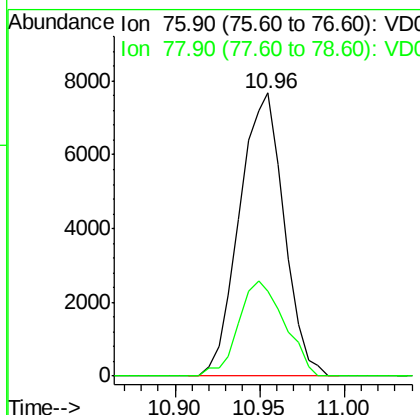
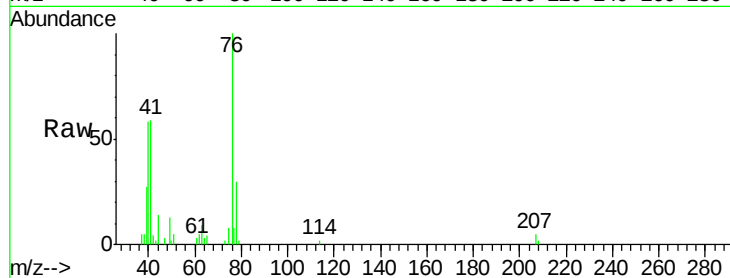
#57
 1,3-Dichloropropane
 Concen: 2.560 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 14036
 Ion Ratio Lower Upper
 76 100
 78 34.6 26.0 39.0

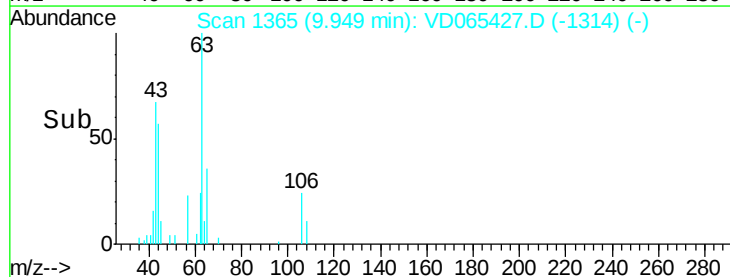
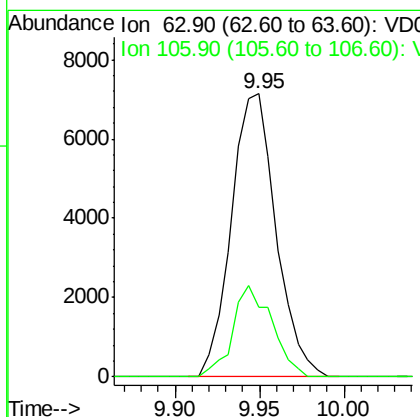
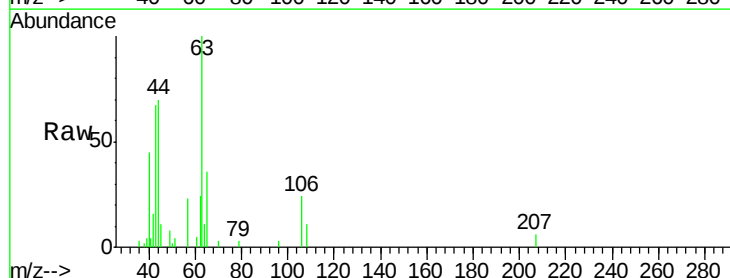
Manual Integrations
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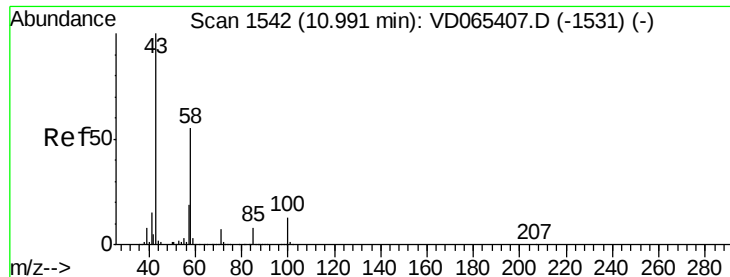
MMDadoda
 3/6/2020 11:17:29 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.160 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Tgt Ion: 63 Resp: 13145
 Ion Ratio Lower Upper
 63 100
 106 28.3 23.3 34.9





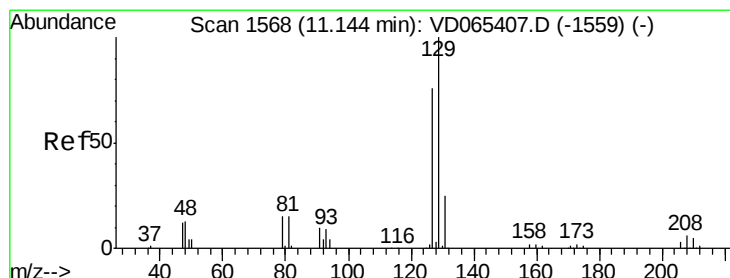
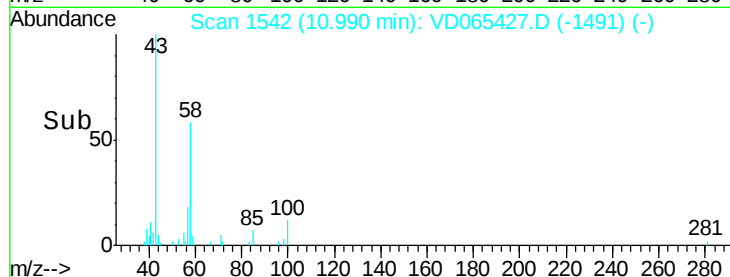
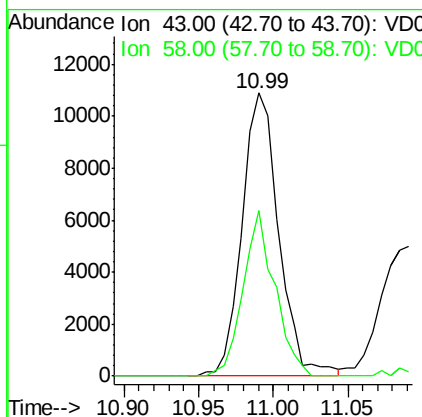
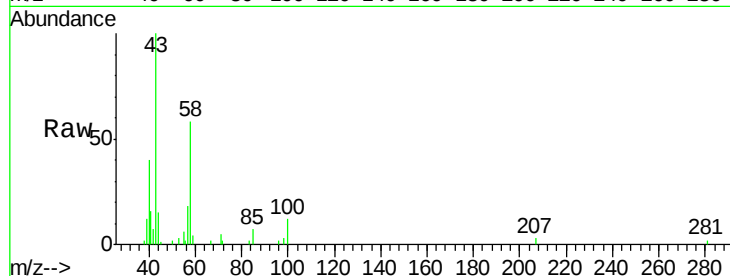
#59
2-Hexanone
Concen: 11.469 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 18567
Ion Ratio Lower Upper
43 100
58 50.4 27.4 82.2

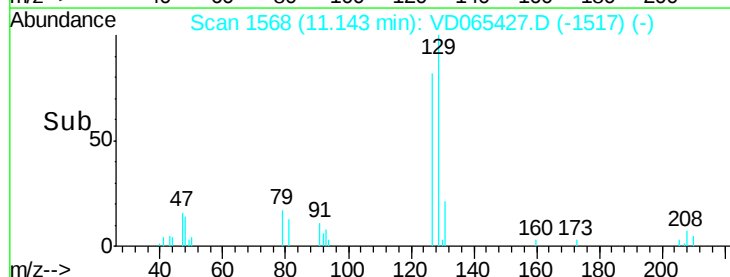
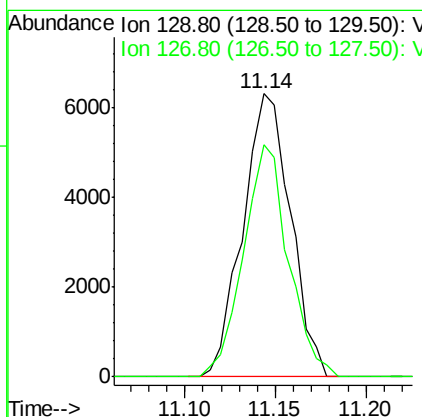
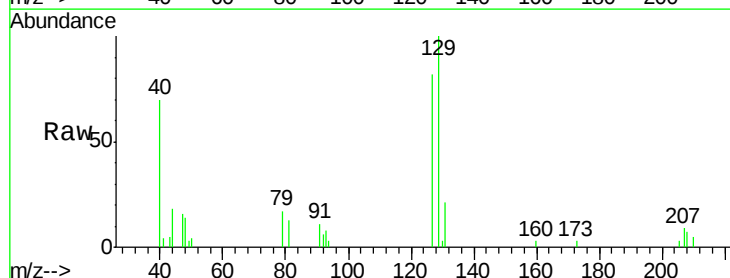
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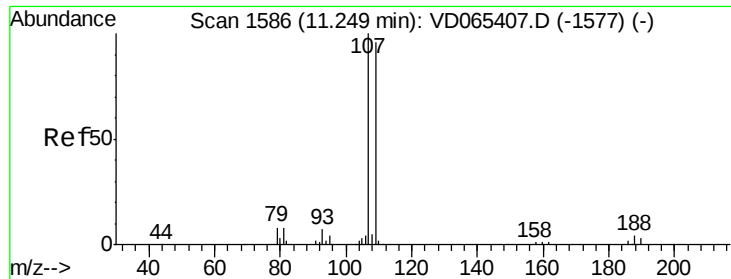
MMDadoda
3/6/2020 11:17:29 AM



#60
Dibromochloromethane
Concen: 2.778 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion: 129 Resp: 11539
Ion Ratio Lower Upper
129 100
127 77.5 38.5 115.5





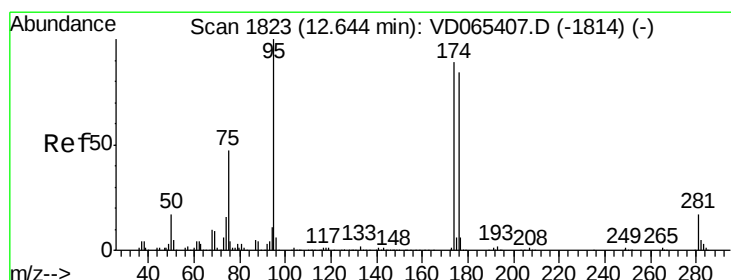
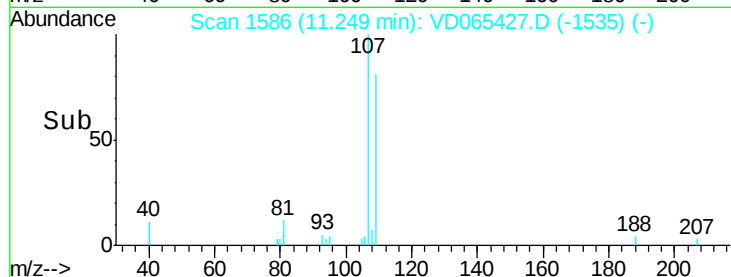
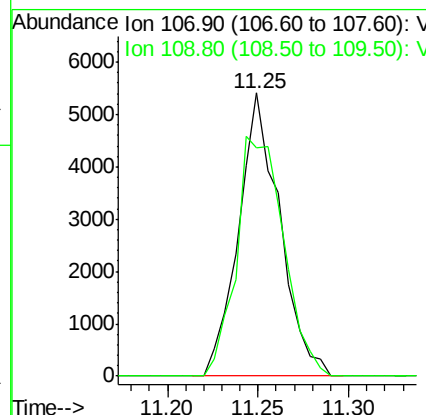
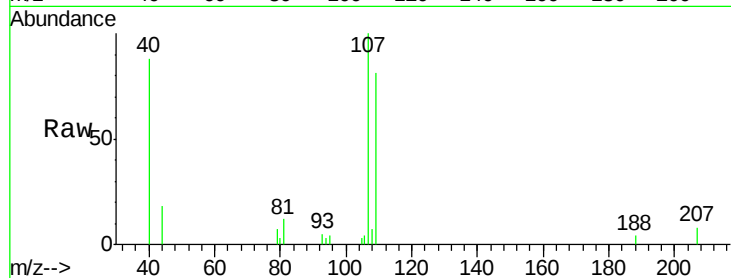
#61
1,2-Dibromoethane
Concen: 2.771 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.8	76.8	115.2

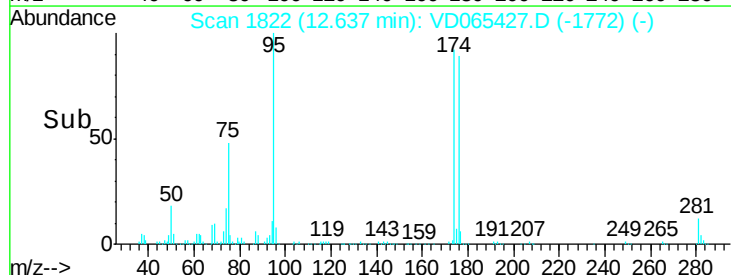
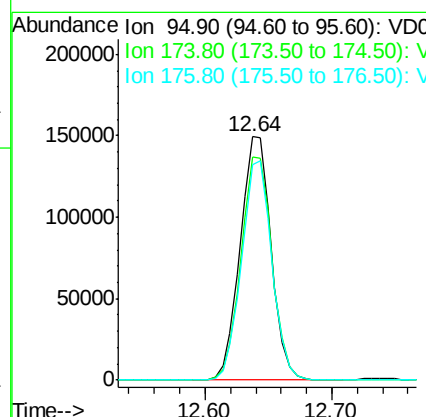
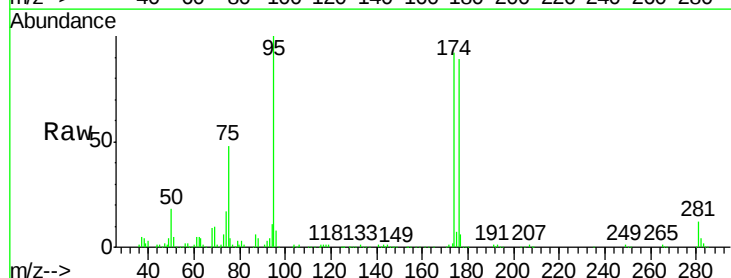
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3/6/2020 11:17:29 AM



#62
4-Bromofluorobenzene
Concen: 50.745 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.8	0.0	176.8
176	88.0	0.0	171.4





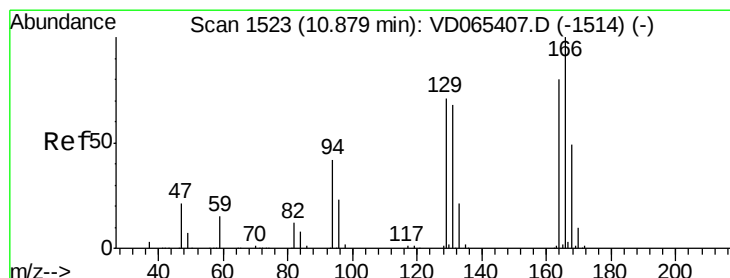
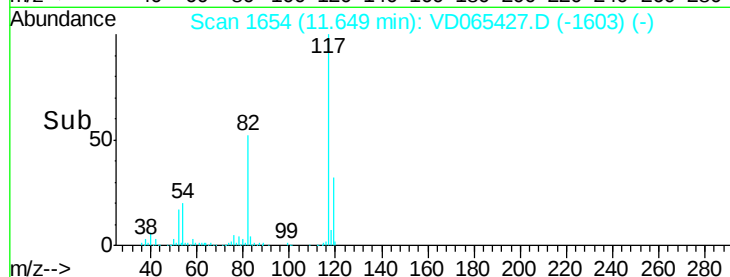
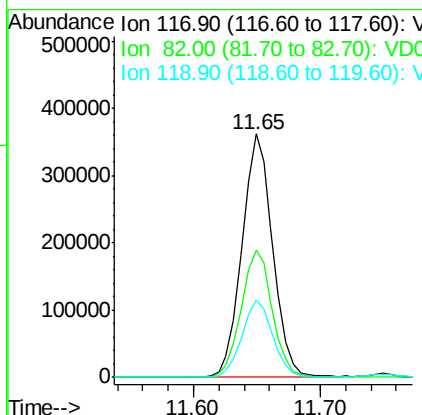
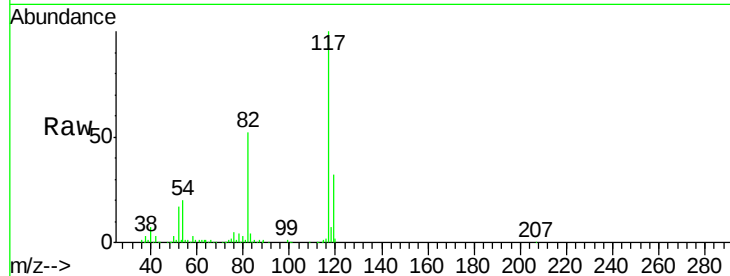
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	607396		
82	52.1		40.6	60.8
119	31.6		25.4	38.2

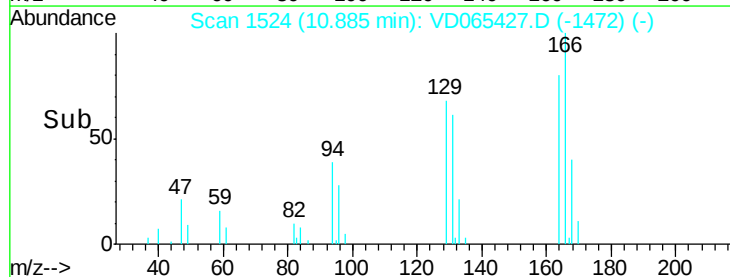
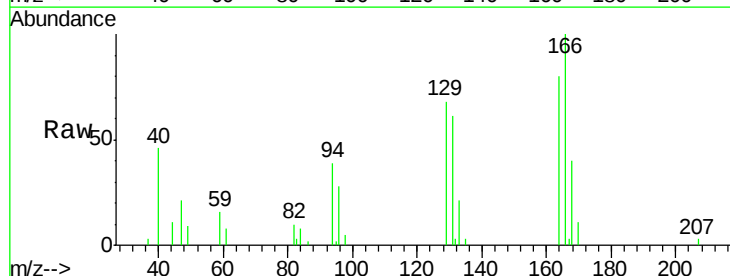
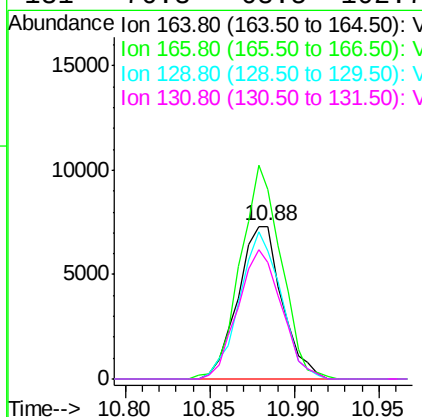
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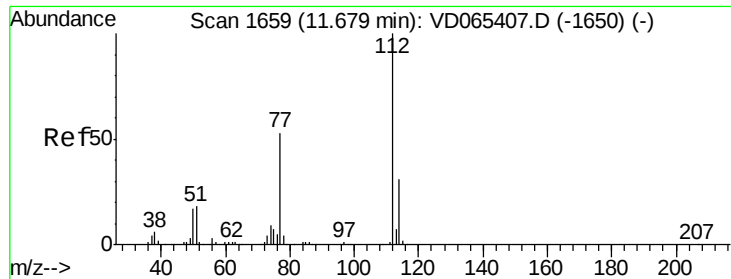
MMDadoda
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#64
Tetrachloroethene
Concen: 3.050 ug/l
RT: 10.88 min Scan# 1524
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	13276		
166	124.3		100.5	150.7
129	84.0		71.5	107.3
131	76.3		68.5	102.7





#65

Chlorobenzene

Concen: 2.934 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 35260

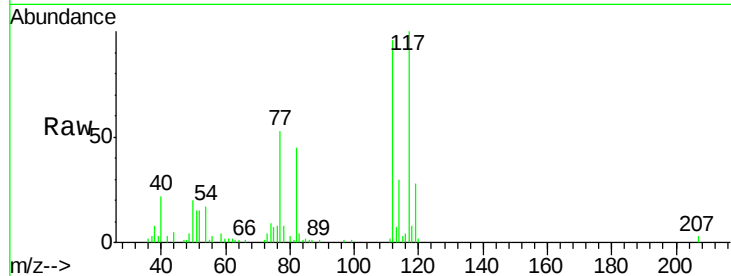
Ion Ratio Lower Upper

112 100

114 31.5 24.4 36.6

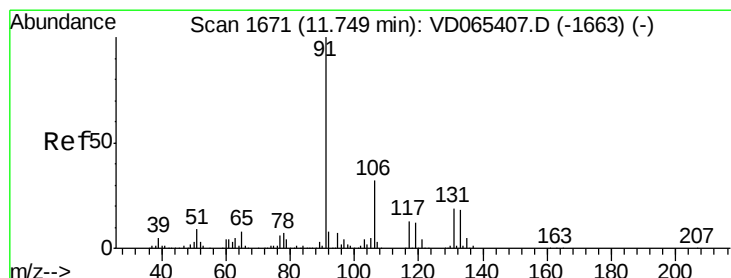
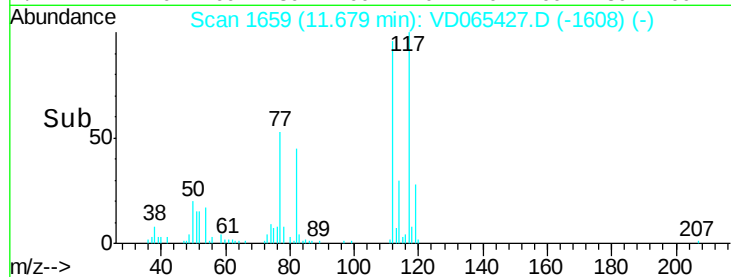
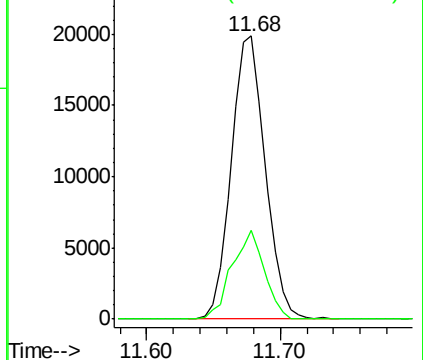
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.829 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

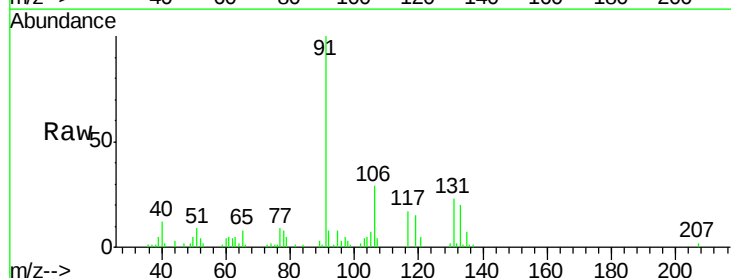
Tgt Ion:131 Resp: 12386

Ion Ratio Lower Upper

131 100

133 100.8 49.2 147.6

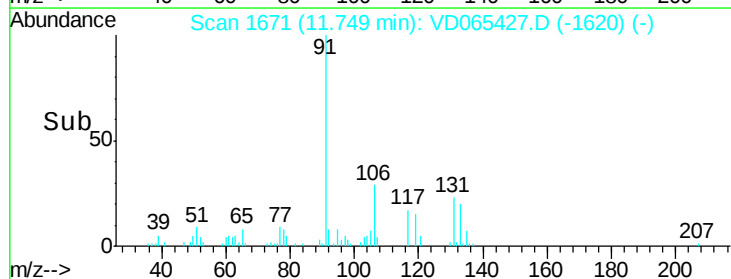
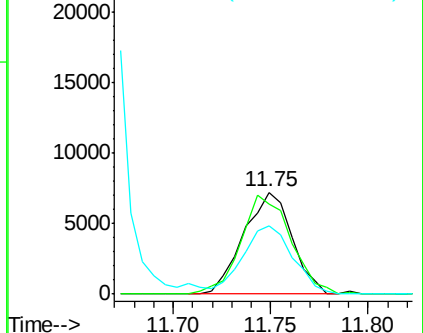
119 69.0 33.3 99.8

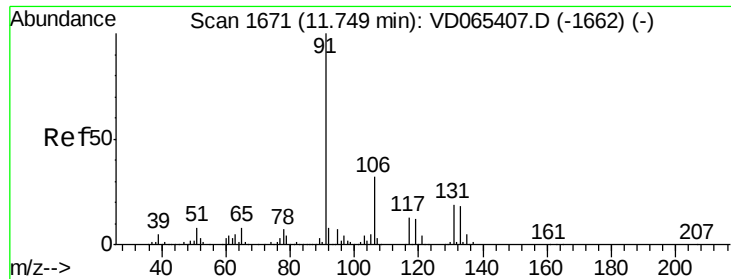


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





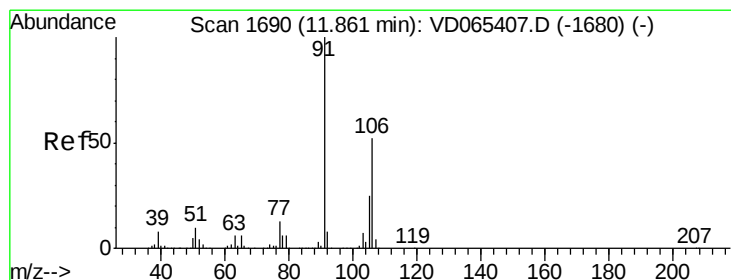
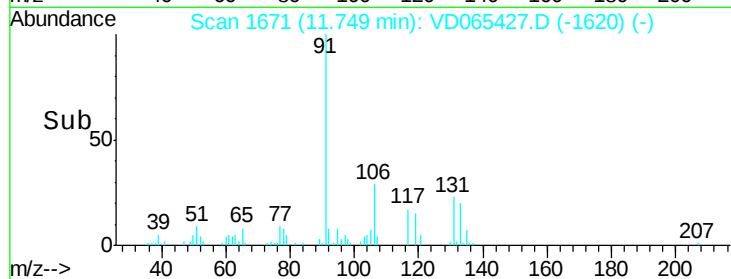
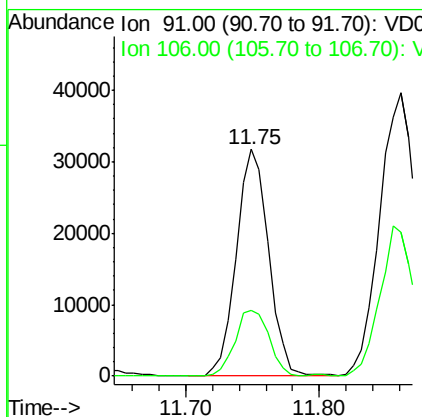
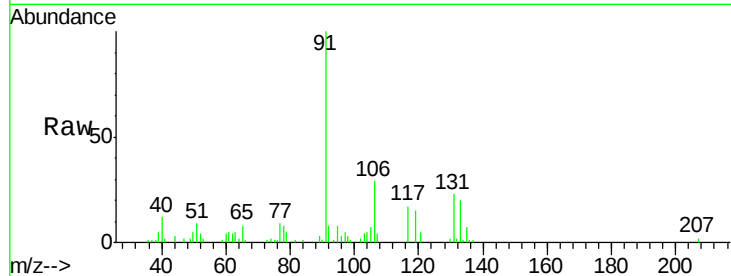
#67
Ethyl Benzene
Concen: 2.556 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 53088
Ion Ratio Lower Upper
91 100
106 29.1 25.2 37.8

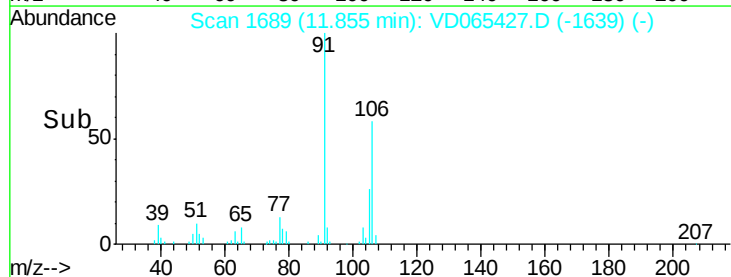
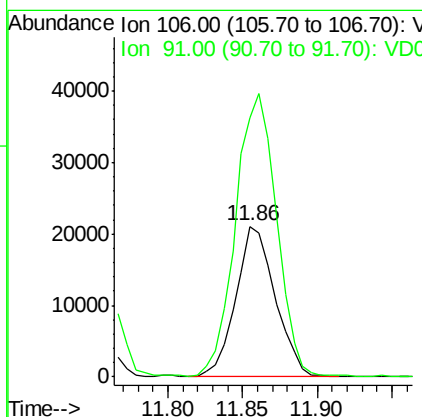
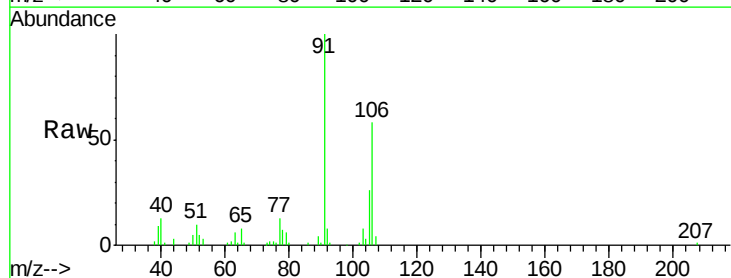
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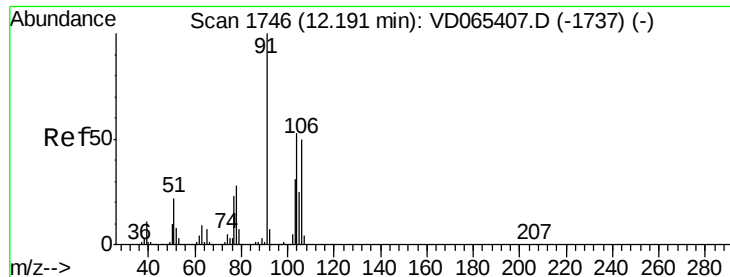
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#68
m/p-Xylenes
Concen: 4.820 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion: 106 Resp: 38598
Ion Ratio Lower Upper
106 100
91 196.0 155.9 233.9





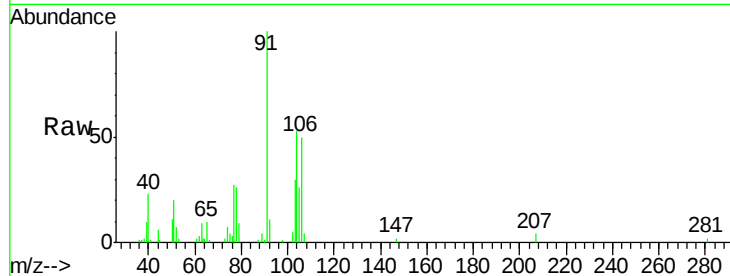
#69
o-Xylene
Concen: 2.413 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

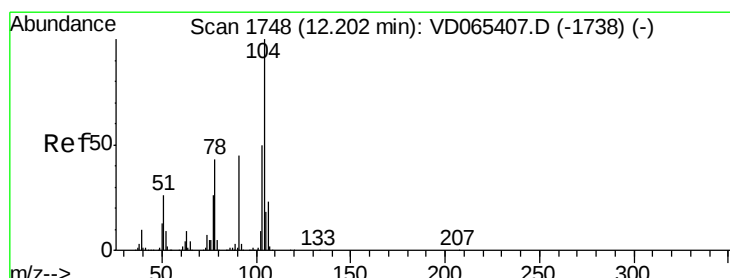
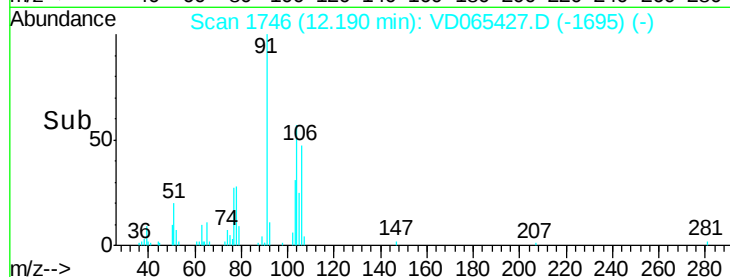
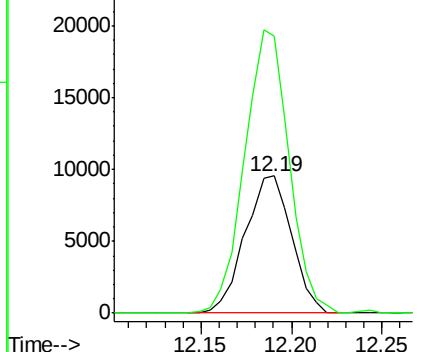
Tot Ion:106 Resp: 16998
Ion Ratio Lower Upper
106 100
91 197.6 103.5 310.3

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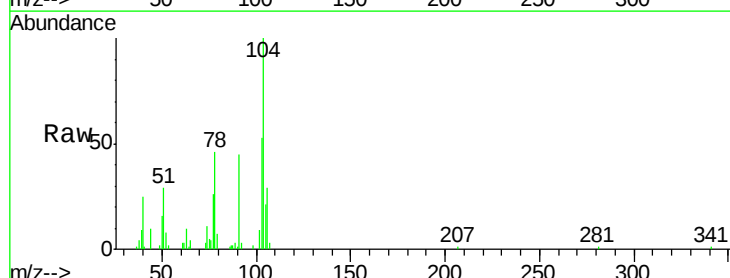


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

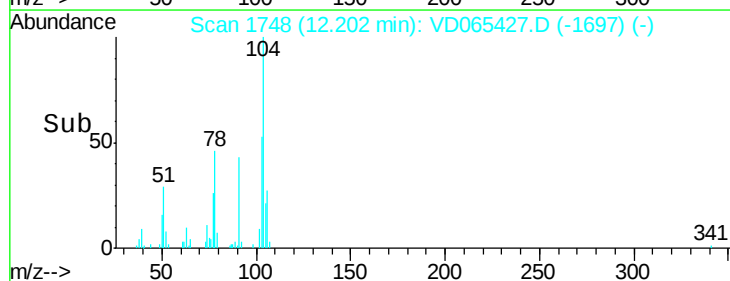
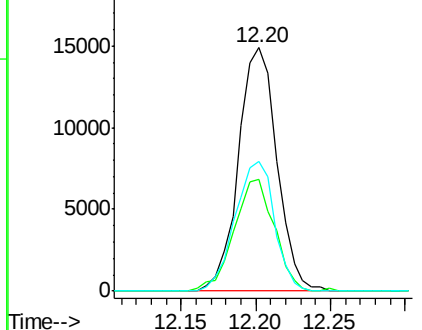


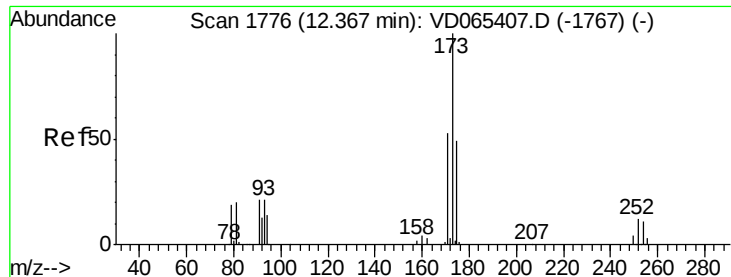
#70
Styrene
Concen: 2.153 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion:104 Resp: 26690
Ion Ratio Lower Upper
104 100
78 48.0 37.7 56.5
103 54.2 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V





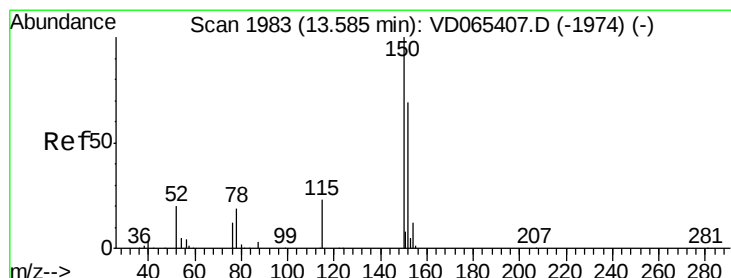
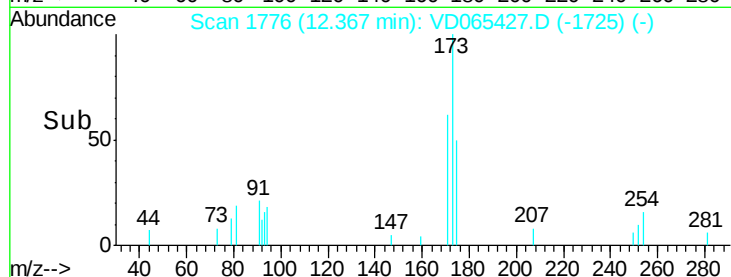
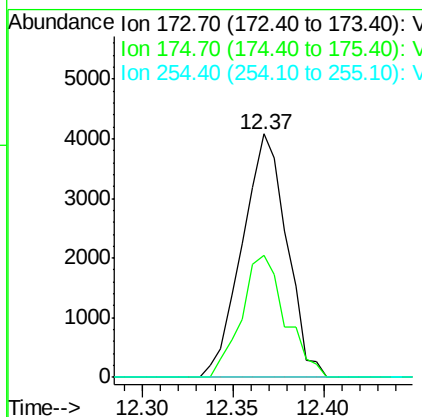
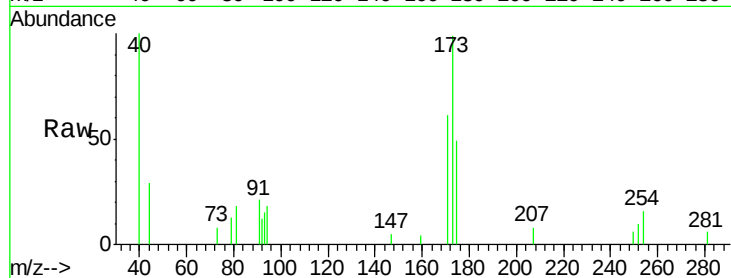
#71
Bromoform
Concen: 2.839 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.3	73.0
254	0.0	0.1	0.1#

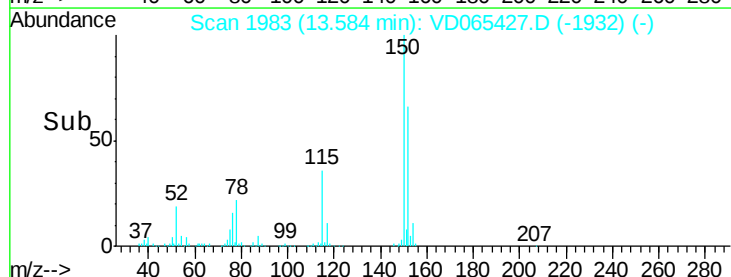
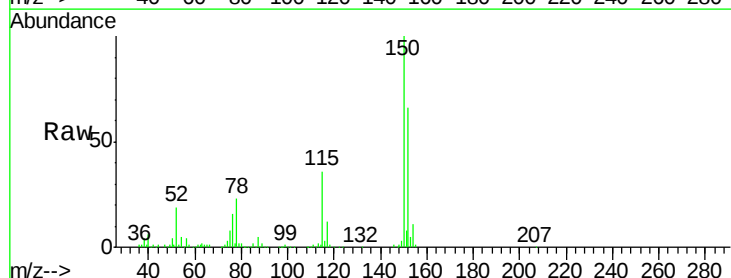
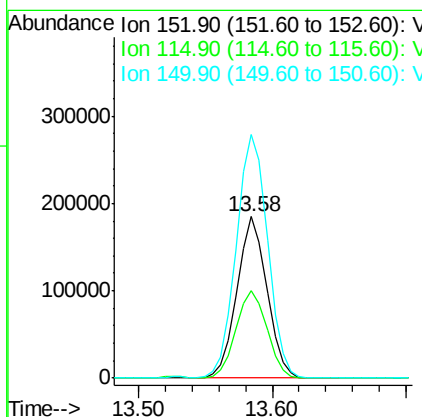
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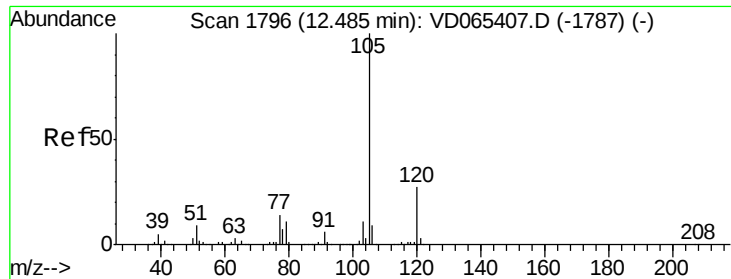
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.6	82.8
150	157.7	0.0	345.0





#73

Isopropylbenzene

Concen: 2.295 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 105 Resp: 43440

Ion Ratio Lower Upper

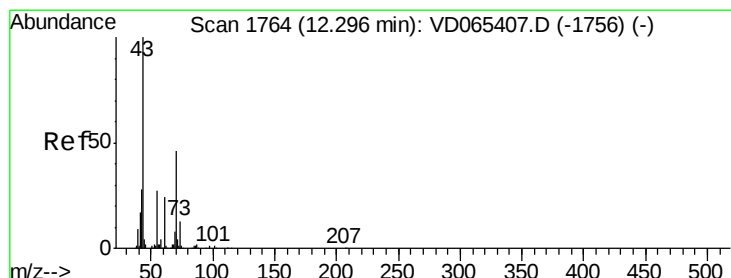
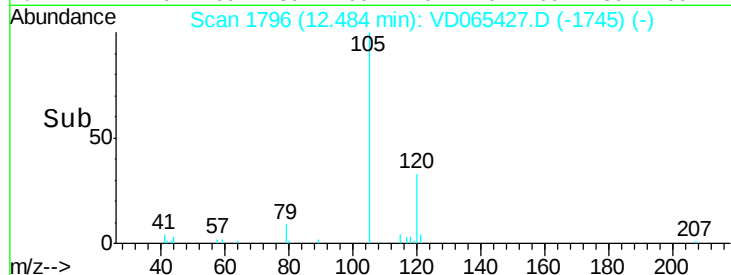
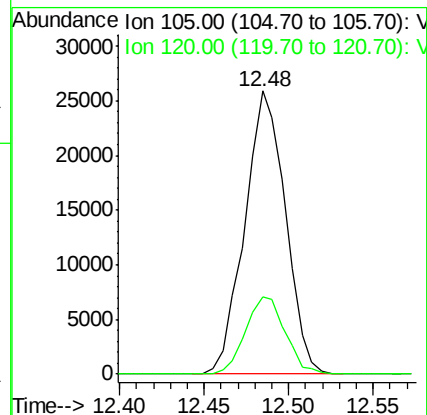
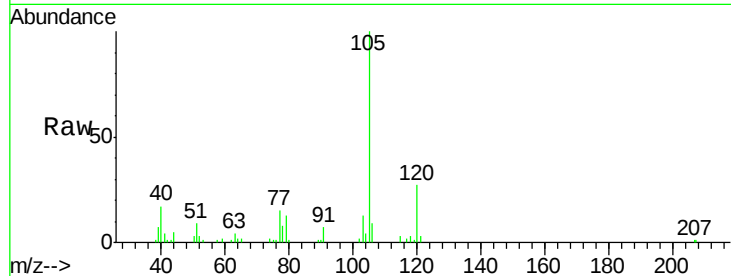
105 100

120 26.6 13.5 40.4

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#74

N-ethyl acetate

Concen: 2.286 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion: 43 Resp: 8859

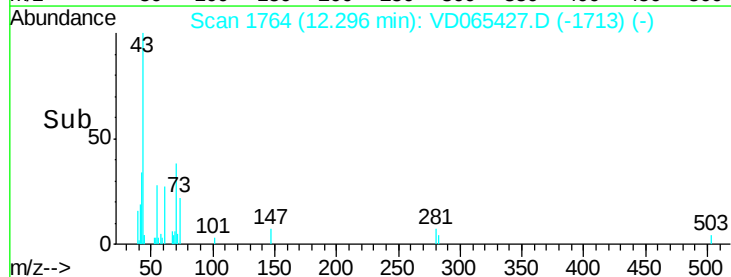
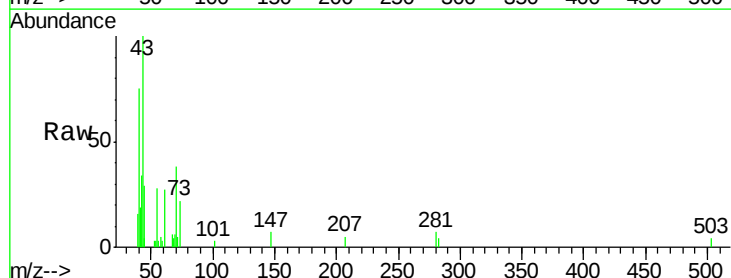
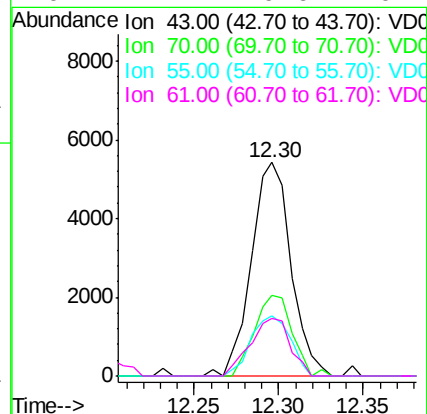
Ion Ratio Lower Upper

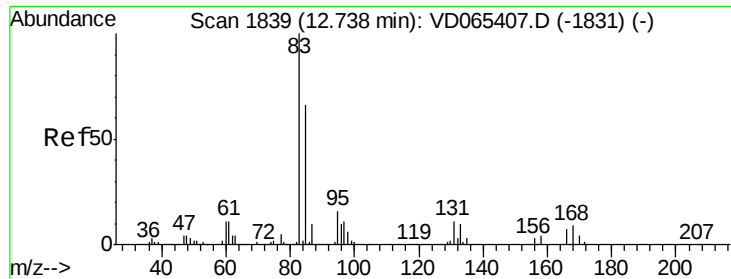
43 100

70 36.0 36.1 54.1#

55 28.1 21.6 32.4

61 27.1 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 3.112 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

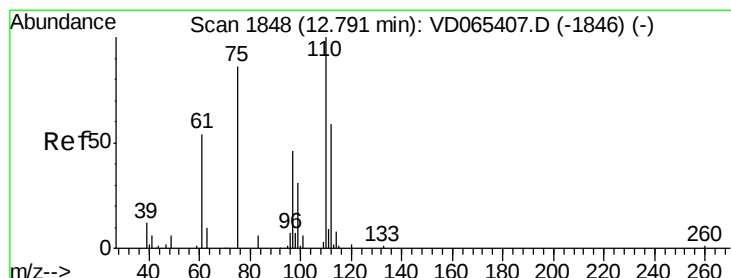
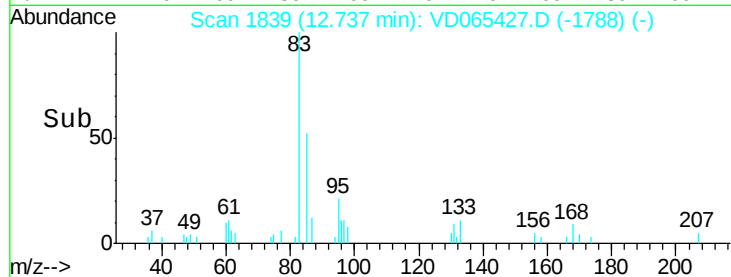
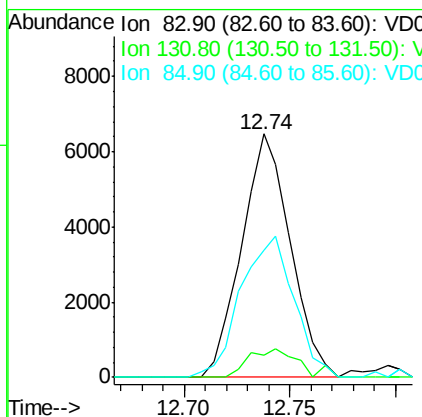
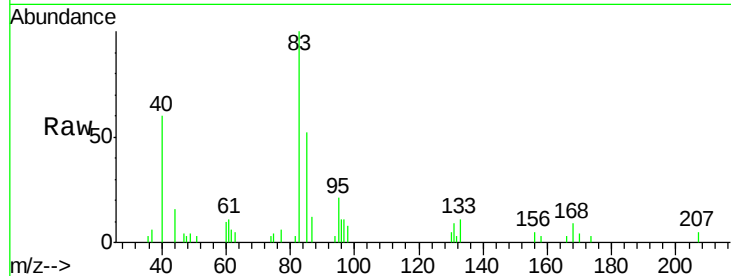
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	10354
Ion Ratio	Lower	Upper	
83	100		
131	12.0	5.4	16.2
85	63.3	33.0	98.9

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#76

1,2,3-Trichloropropane

Concen: 3.368 ug/l m

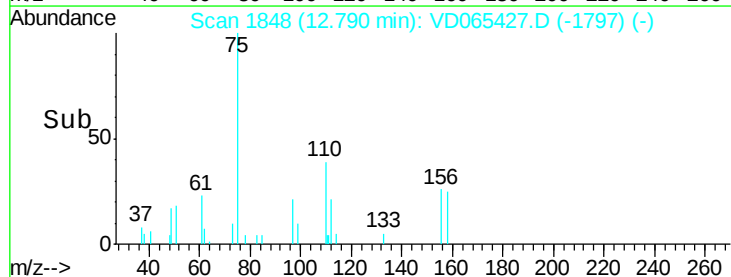
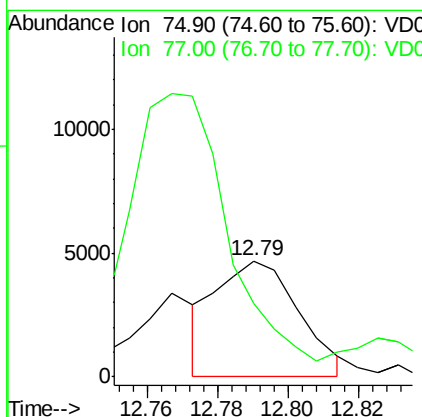
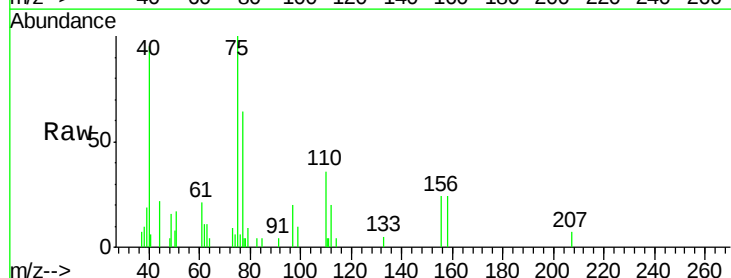
RT: 12.79 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	75	Resp:	7649
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 3.011 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

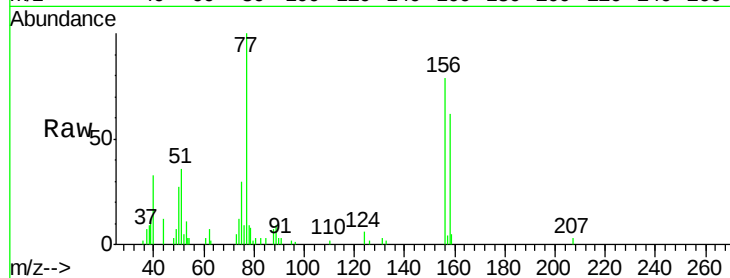
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	156	Resp	14163
Ion	Ratio	Lower	Upper
156	100		
77	164.2	84.9	254.6
158	92.4	49.0	147.2

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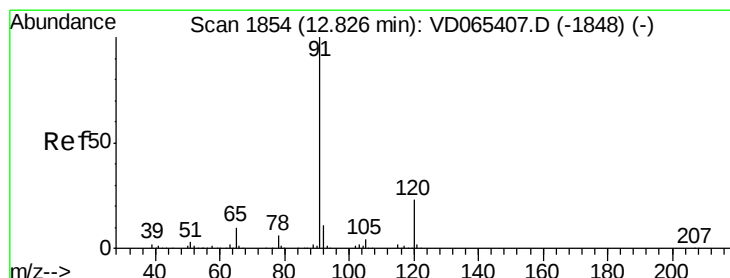
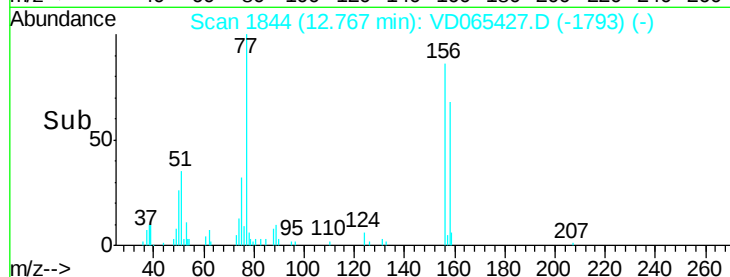
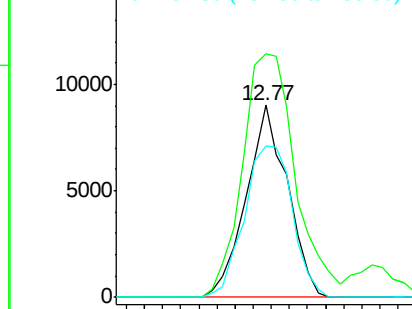


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.664 ug/l

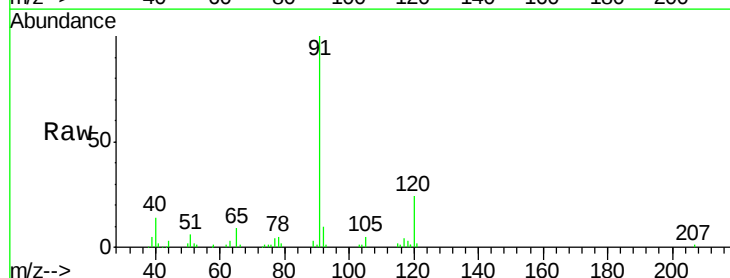
RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

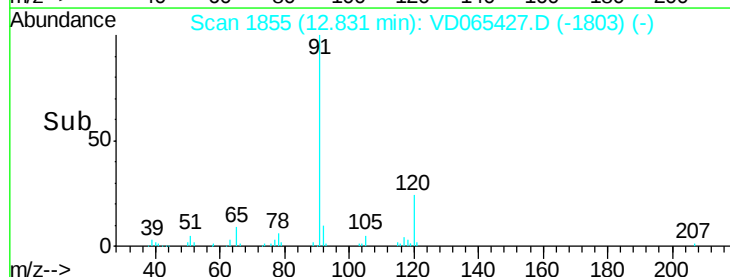
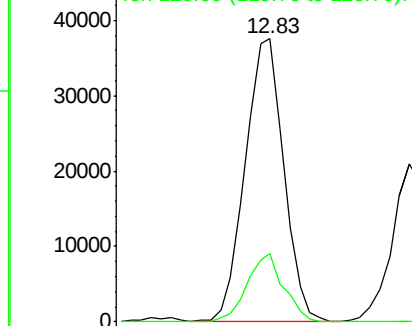
Tgt Ion	91	Resp	59829
Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.9	35.5

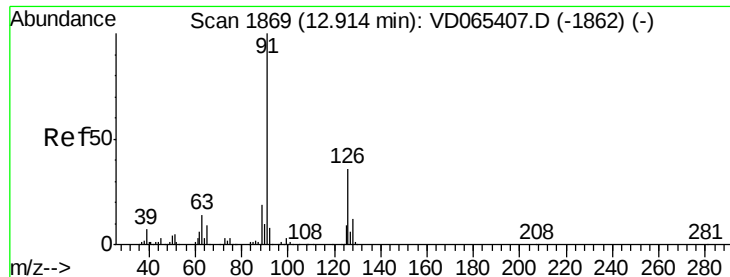


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





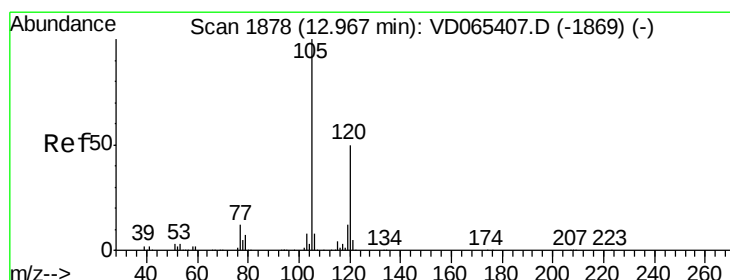
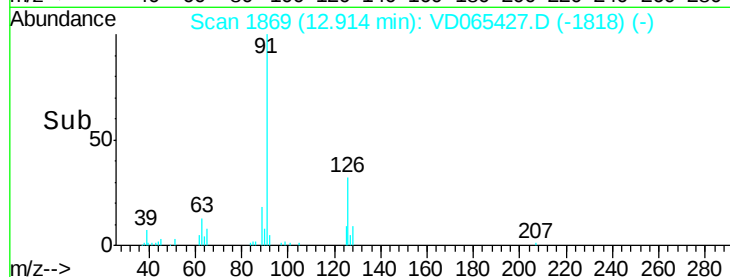
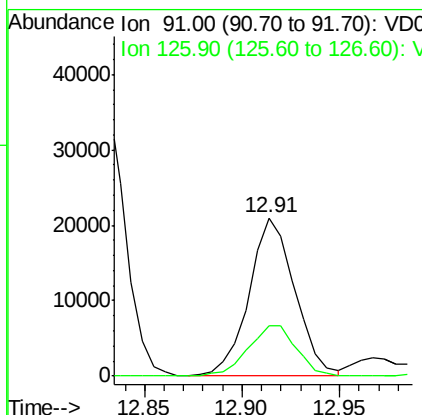
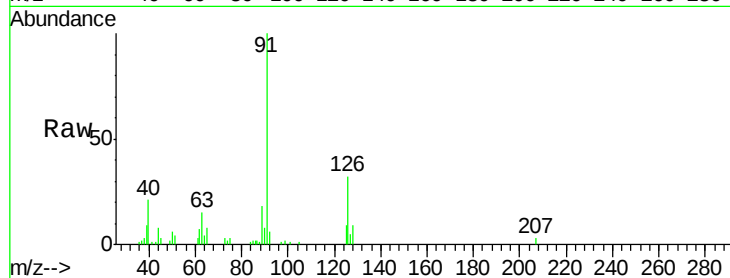
#79
2-Chlorotoluene
Concen: 2.704 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 34228
Ion Ratio Lower Upper
91 100
126 33.7 17.9 53.8

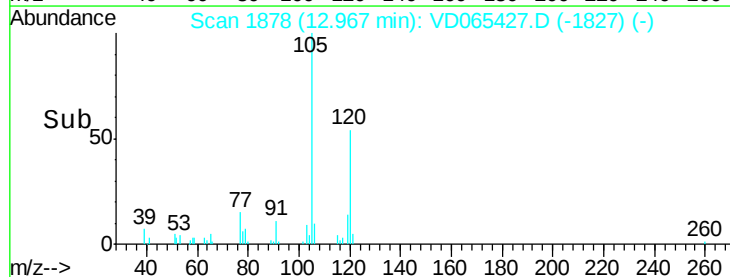
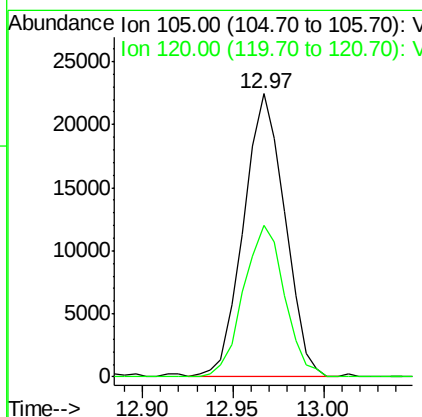
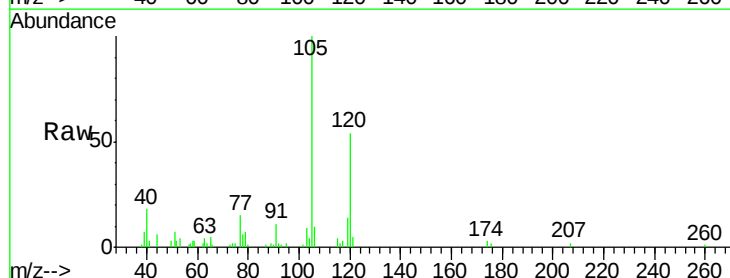
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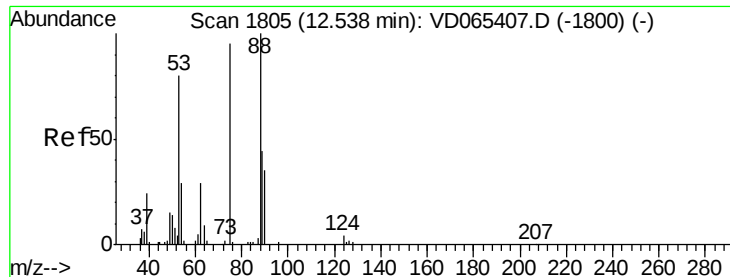
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#80
1,3,5-Trimethylbenzene
Concen: 2.286 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion: 105 Resp: 35573
Ion Ratio Lower Upper
105 100
120 53.4 25.4 76.0





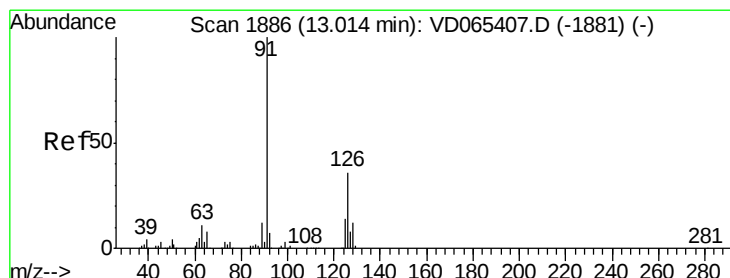
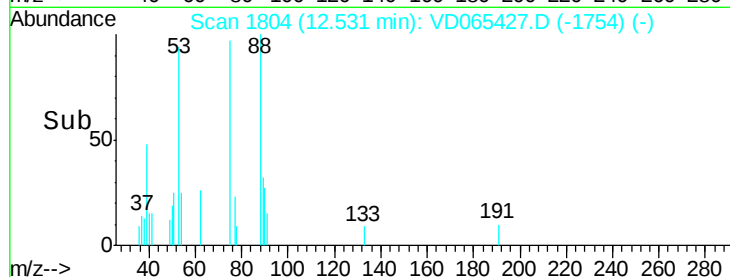
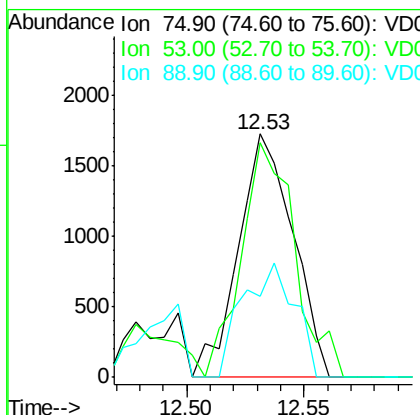
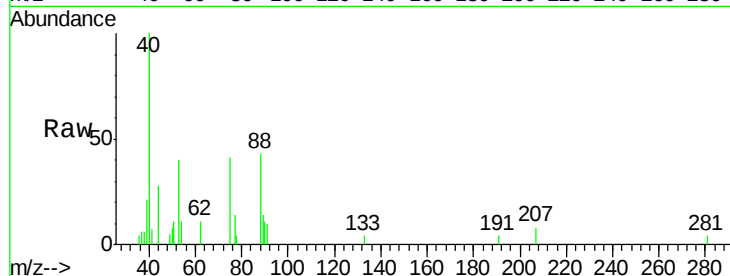
#81
trans-1,4-Dichloro-2-butene
Concen: 2.587 ug/l m
RT: 12.53 min Scan# 1804
Delta R.T. -0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	71.3	106.9#
89	0.0	37.0	55.6#

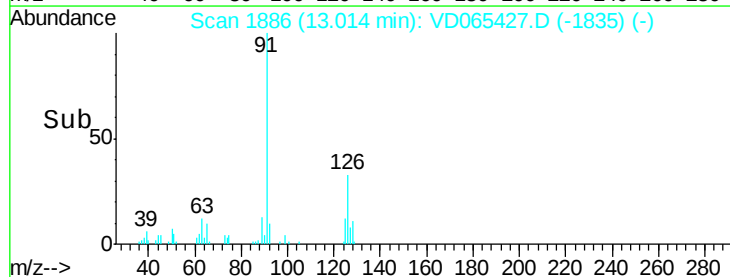
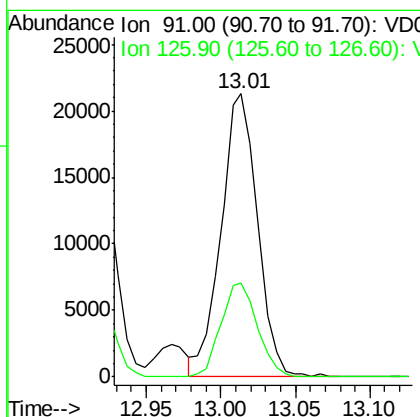
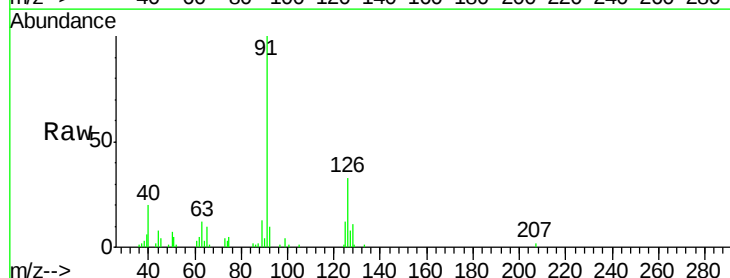
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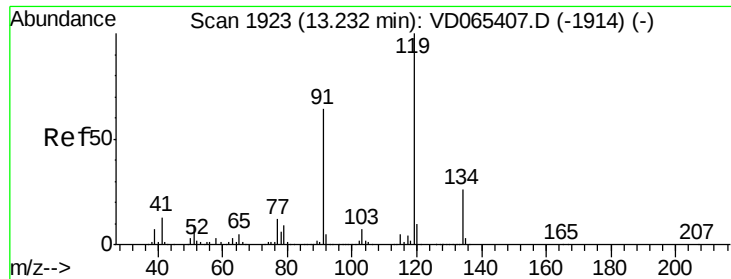
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#82
4-Chlorotoluene
Concen: 2.736 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.9	17.6	52.8





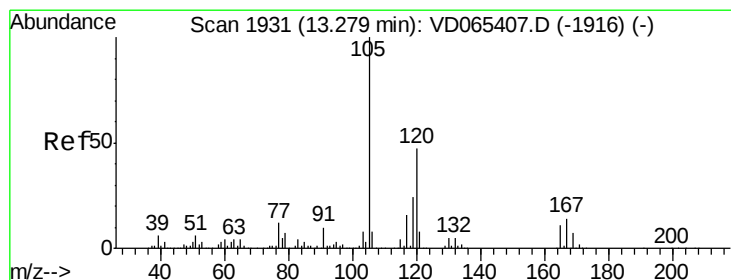
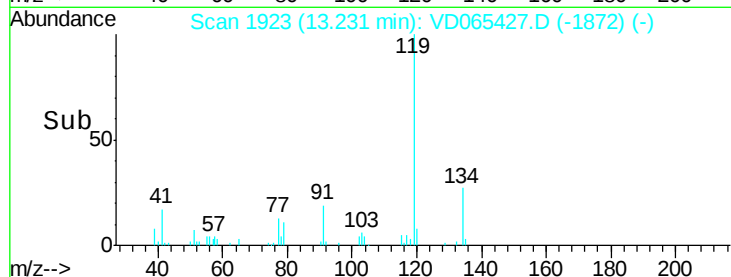
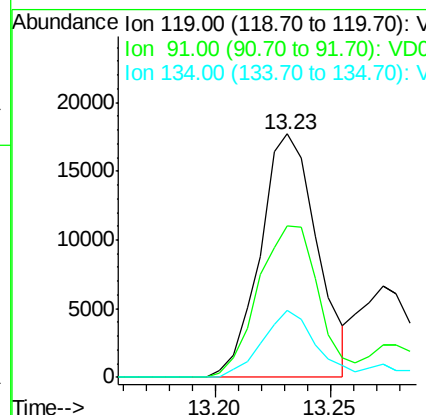
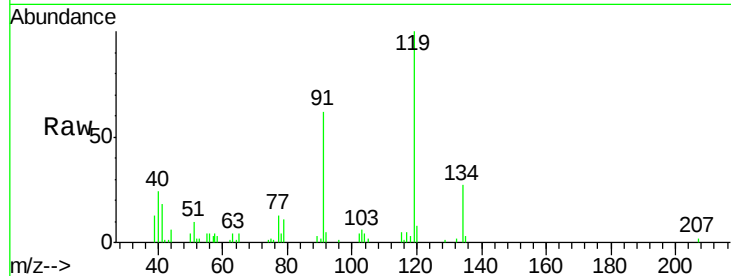
#83
tert-Butylbenzene
Concen: 2.300 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.3	31.6	95.0
134	25.7	14.2	42.8

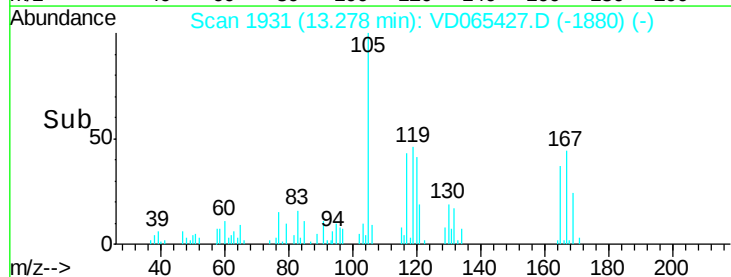
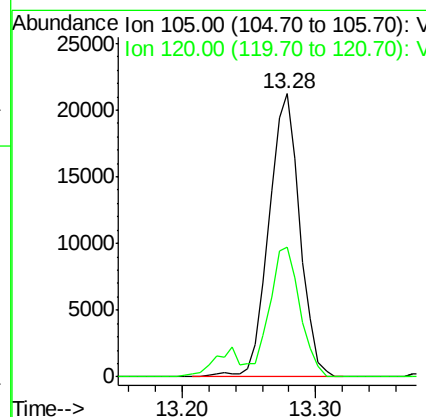
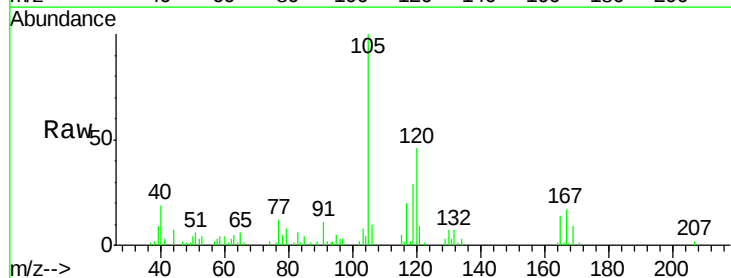
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#84
1,2,4-Trimethylbenzene
Concen: 2.222 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	23.4	70.3





#85

sec-Butylbenzene

Concen: 2.368 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.01 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 44508

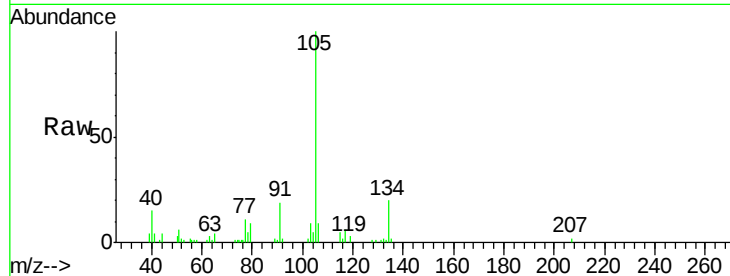
Ion Ratio Lower Upper

105 100

134 20.4 10.3 30.9

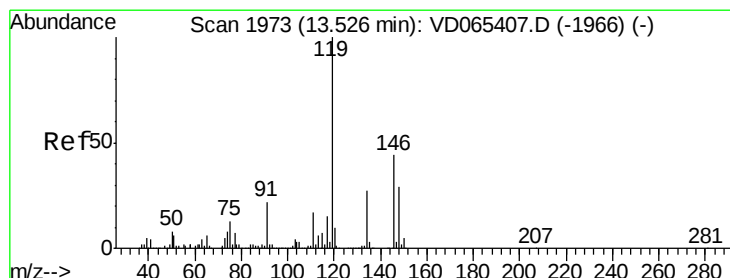
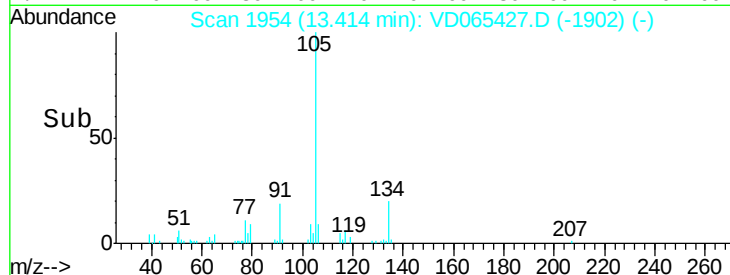
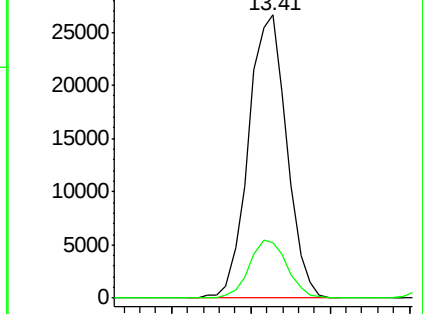
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.175 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

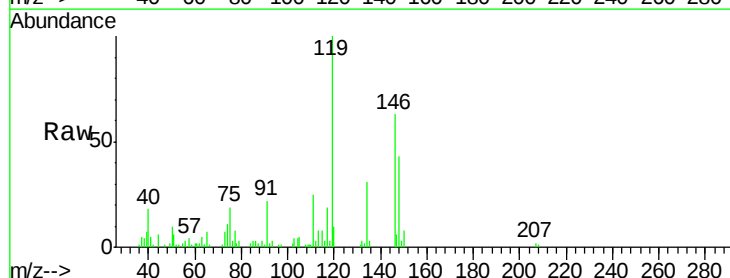
Tgt Ion:119 Resp: 37292

Ion Ratio Lower Upper

119 100

134 28.4 13.3 39.9

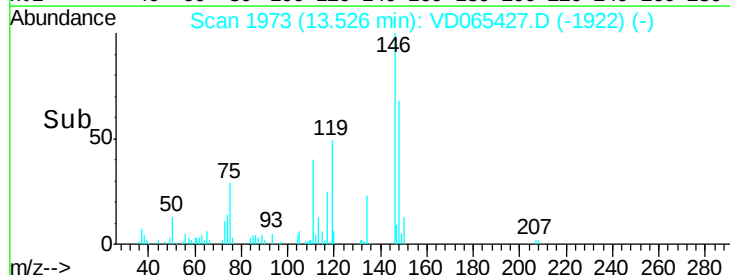
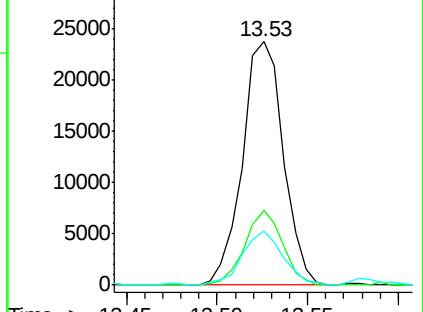
91 22.1 10.9 32.6



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





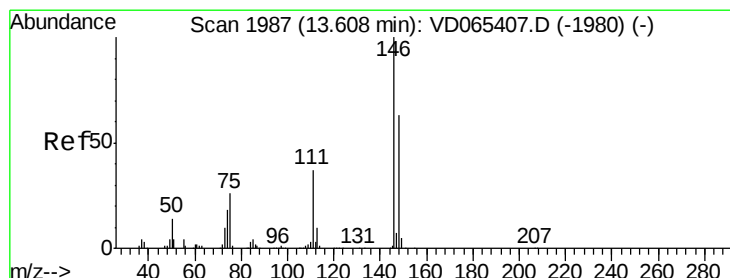
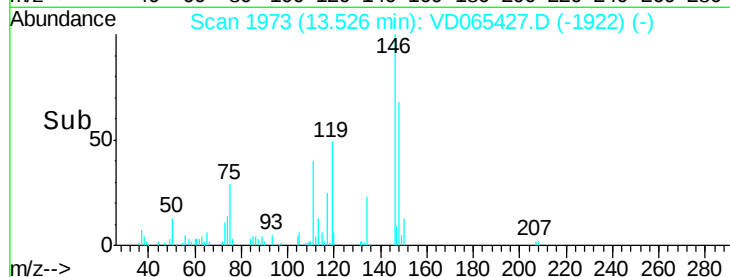
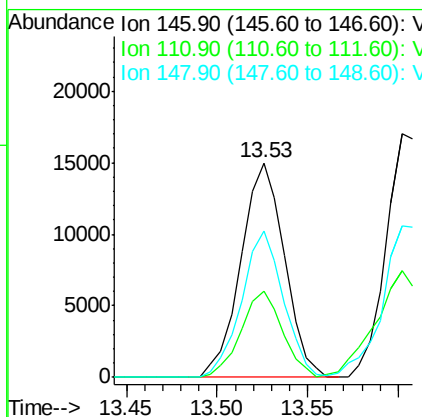
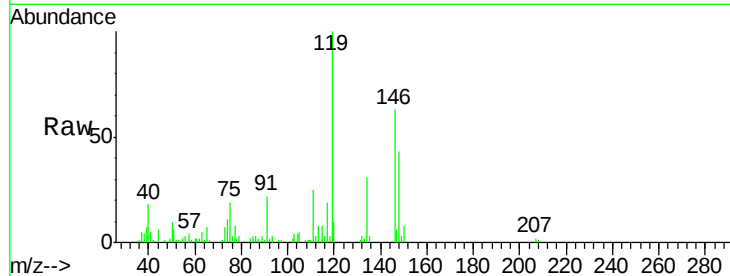
#87
 1,3-Dichlorobenzene
 Concen: 2.768 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.1
148	65.5	32.3	96.8

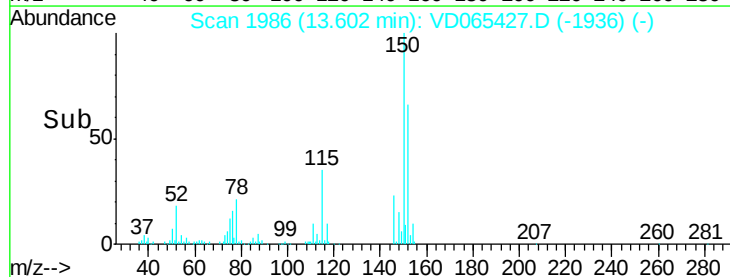
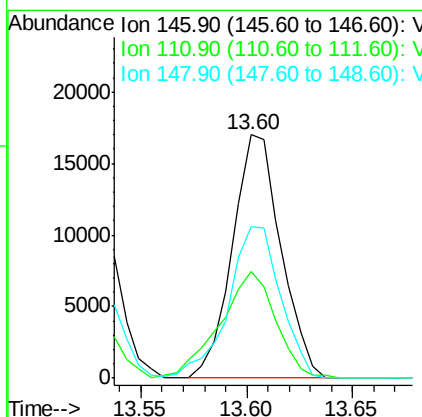
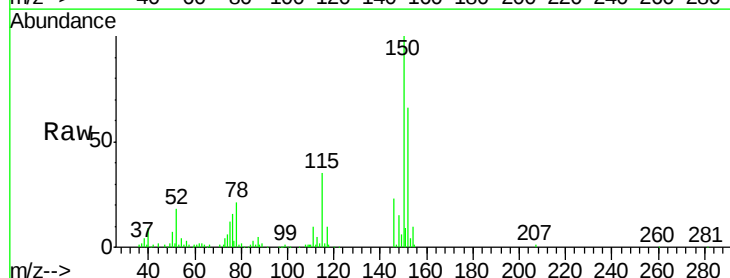
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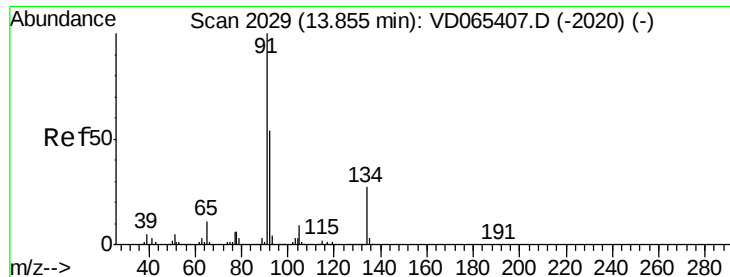
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#88
 1,4-Dichlorobenzene
 Concen: 3.013 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.3	18.5	55.5
148	67.1	32.0	96.0





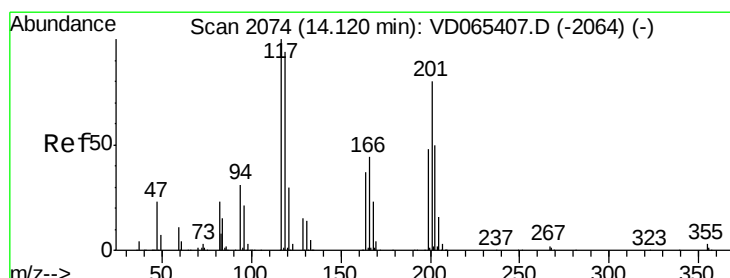
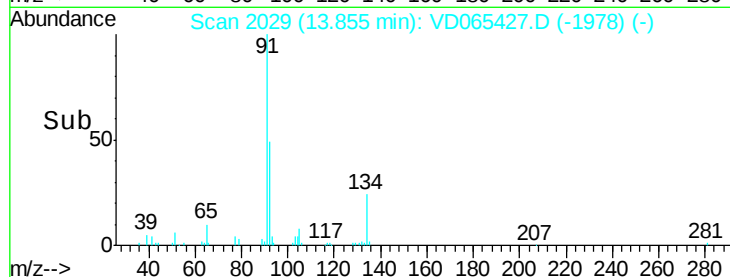
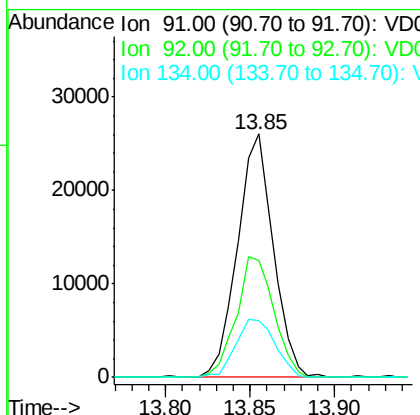
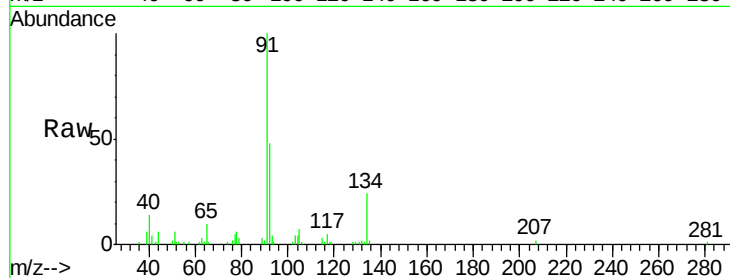
#89
n-Butylbenzene
Concen: 2.431 ug/l
RT: 13.85 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.8	80.4
134	26.2	13.4	40.2

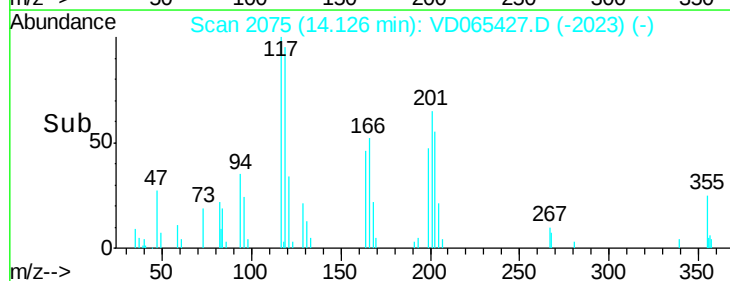
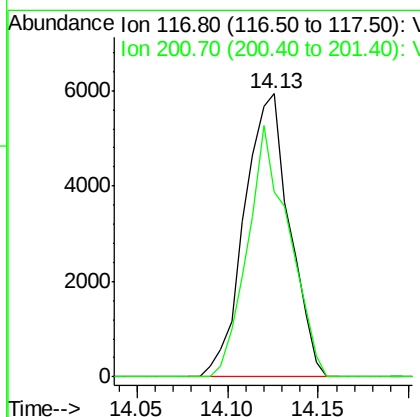
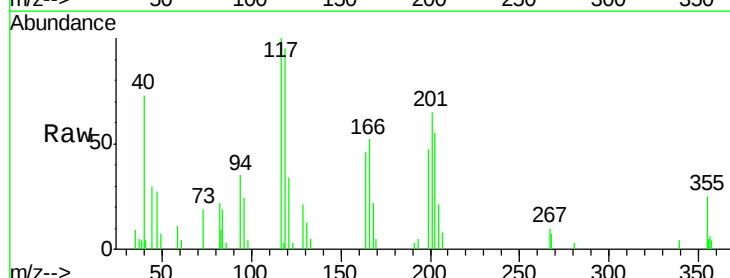
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#90
Hexachloroethane
Concen: 2.920 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD065427.D
Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.9	41.9	125.6





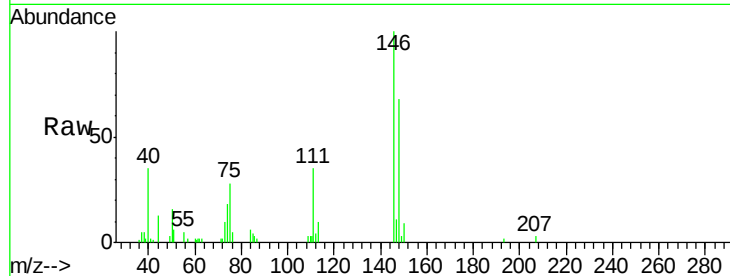
#91
 1,2-Dichlorobenzene
 Concen: 2.807 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

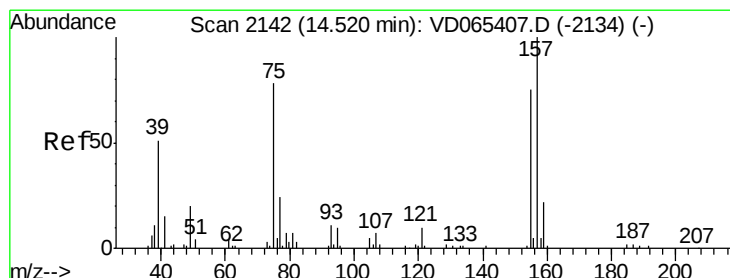
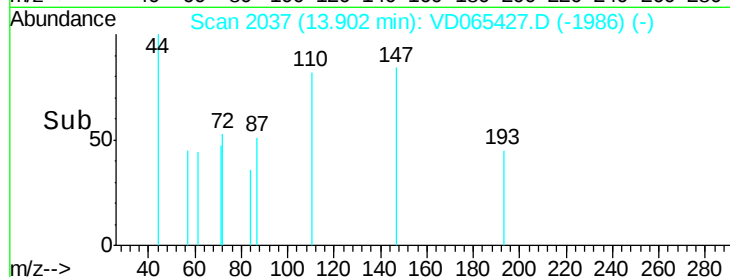
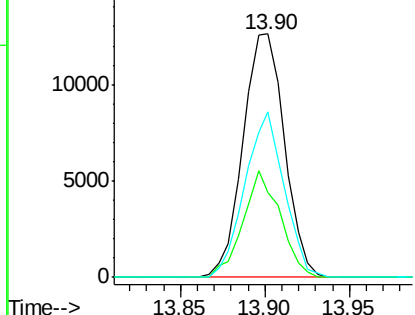
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.8	59.3
148	64.4	32.6	97.8

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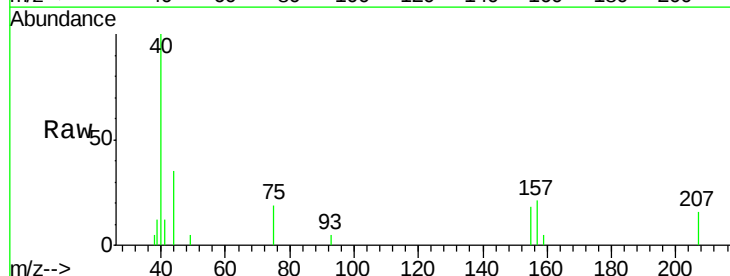


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

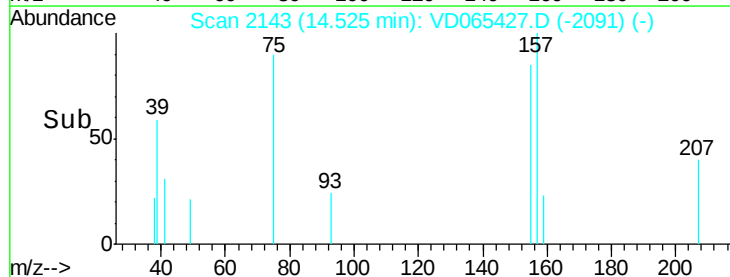
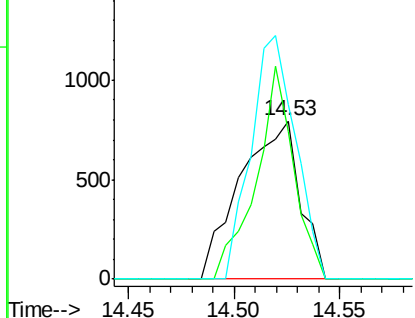


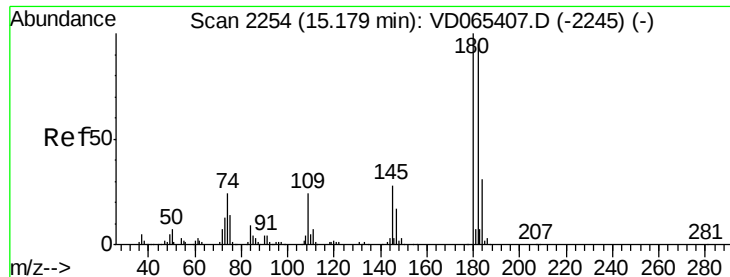
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.078 ug/l
 RT: 14.53 min Scan# 2143
 Delta R.T. 0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.9	46.4	139.1
157	115.3	60.2	180.4



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





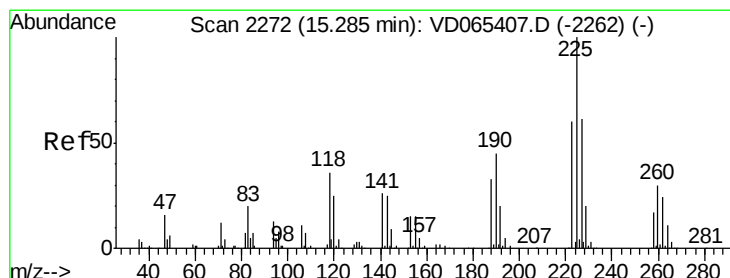
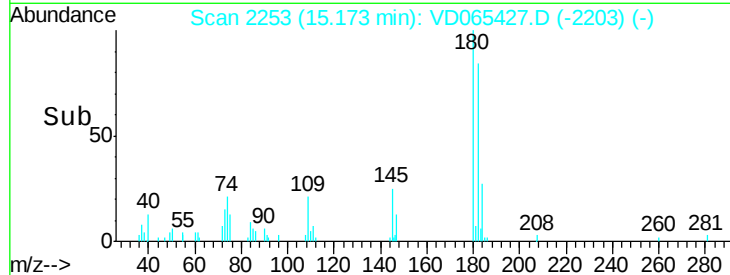
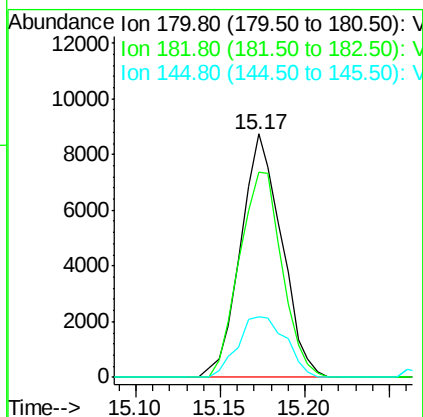
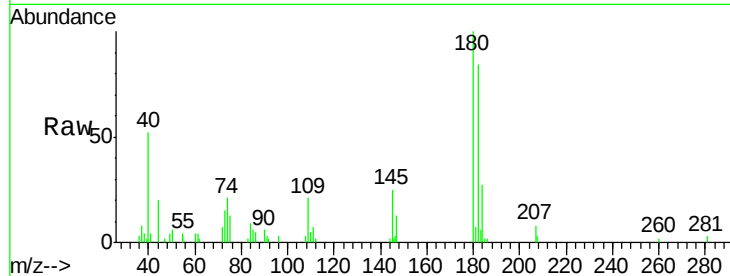
#93
 1,2,4-Trichlorobenzene
 Concen: 2.821 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.1	48.3	144.9
145	29.1	14.4	43.4

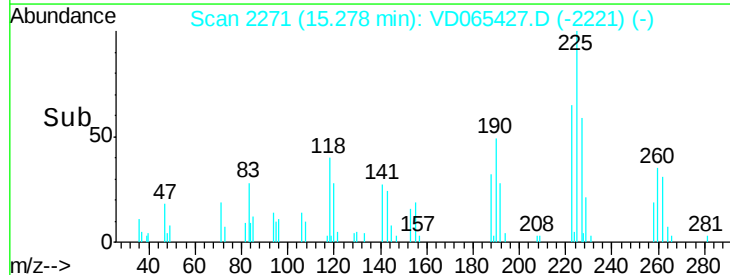
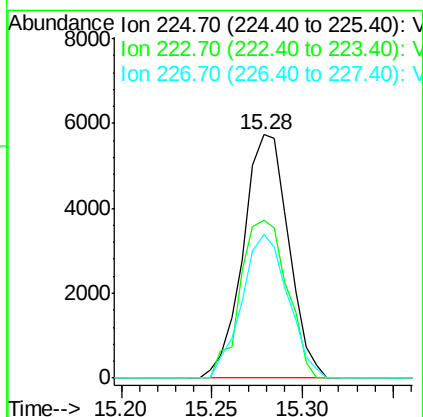
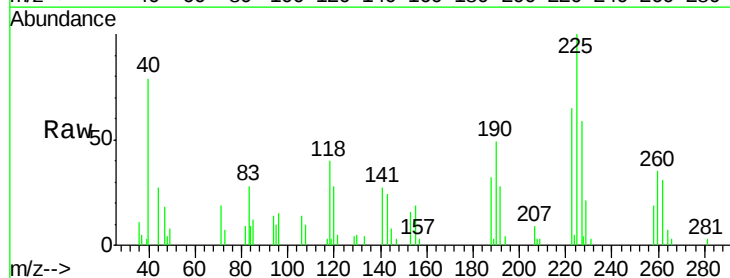
Manual Integrations
 APPROVED

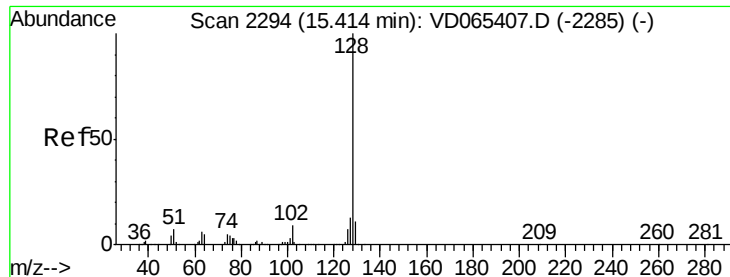
MMDadoda
 3/6/2020 11:17:29 AM



#94
 Hexachlorobutadiene
 Concen: 2.918 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: VD065427.D
 Acq: 05 Mar 2020 13:18

Tgt Ion	Ratio	Lower	Upper
225	100		
223	67.0	30.9	92.5
227	59.8	31.6	94.7





#95

Naphthalene

Concen: 2.429 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Instrument :

MSVOA_D

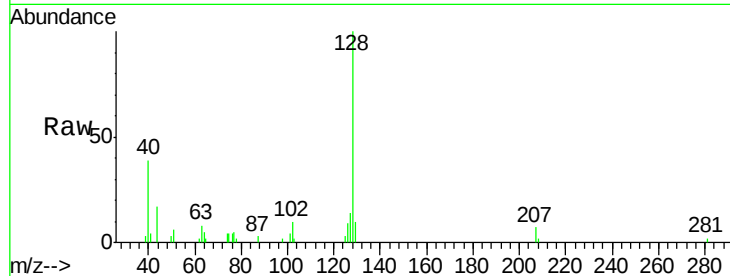
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

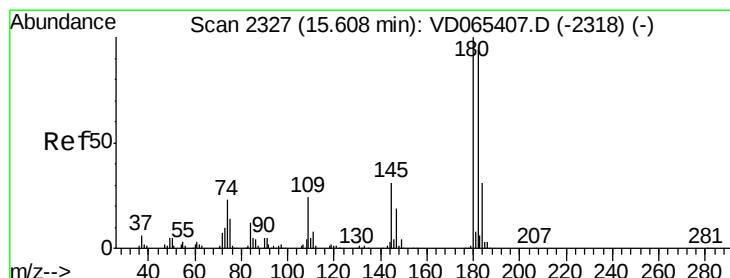
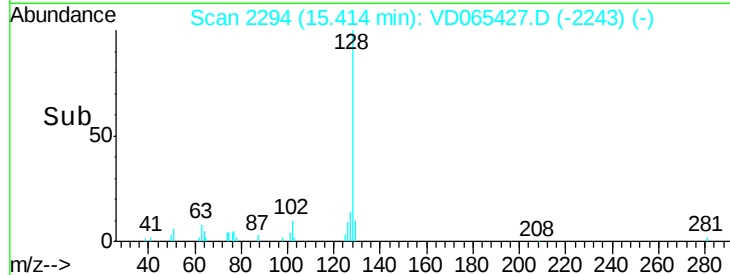
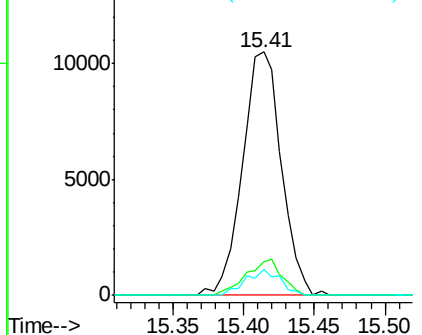
Tot Ion:	128	Resp:	20259
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.6	16.0
129	9.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/6/2020 11:17:29 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 2.873 ug/l

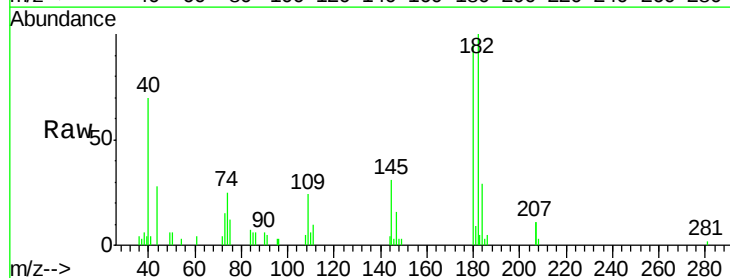
RT: 15.61 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VD065427.D

Acq: 05 Mar 2020 13:18

Tgt Ion:	180	Resp:	12949
Ion Ratio	Lower	Upper	
180	100		
182	93.1	46.9	140.6
145	31.7	15.0	45.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

