

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030520\
 Data File : VD065428.D
 Acq On : 05 Mar 2020 13:46
 Operator : VA/SY
 Sample : L1161-03 4PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/6/2020 11:17:31 AM

Quant Time: Mar 06 04:24:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 06 04:16:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	454950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	699258	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	624557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	305519	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	209461	53.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.34%	
35) Dibromofluoromethane	7.92	113	217616	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
50) Toluene-d8	10.34	98	834371	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.64	95	258186	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	17322	4.430	ug/l	94
3) Chloromethane	2.21	50	21334	4.519	ug/l	98
4) Vinyl Chloride	2.35	62	20860	4.480	ug/l	96
5) Bromomethane	2.77	94	15864	5.329	ug/l	94
6) Chloroethane	2.93	64	12784	4.483	ug/l	89
7) Trichlorofluoromethane	3.27	101	32339	4.714	ug/l	96
8) Diethyl Ether	3.71	74	9305	4.561	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.09	101	20797	4.707	ug/l	95
10) Methyl Iodide	4.30	142	16962	3.695	ug/l	98
11) Tert butyl alcohol	5.24	59	4249	18.982	ug/l #	76
12) 1,1-Dichloroethene	4.06	96	19104	4.515	ug/l	82
13) Acrolein	3.93	56	8188	21.209	ug/l	93
14) Allyl chloride	4.71	41	28205	4.339	ug/l	99
15) Acrylonitrile	5.43	53	18122	20.417	ug/l	96
16) Acetone	4.16	43	17725	22.458	ug/l	99
17) Carbon Disulfide	4.40	76	62808	4.458	ug/l	100
18) Methyl Acetate	4.73	43	9596	4.793	ug/l	97
19) Methyl tert-butyl Ether	5.49	73	32261	3.965	ug/l #	90
20) Methylene Chloride	4.97	84	32755	6.709	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	21351	4.536	ug/l	90
22) Diisopropyl ether	6.37	45	47401	3.923	ug/l #	94
23) Vinyl Acetate	6.31	43	120344	17.938	ug/l	100
24) 1,1-Dichloroethane	6.26	63	34638	4.469	ug/l	99
25) 2-Butanone	7.23	43	20157	18.715	ug/l	99
26) 2,2-Dichloropropane	7.21	77	29786	4.398	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	20225	4.204	ug/l	96
28) Bromochloromethane	7.55	49	14152	4.564	ug/l	98
29) Tetrahydrofuran	7.57	42	13252	19.267	ug/l	98
30) Chloroform	7.71	83	36418	4.701	ug/l	90
31) Cyclohexane	7.99	56	37365	4.822	ug/l #	80
32) 1,1,1-Trichloroethane	7.91	97	33241	4.644	ug/l	99
36) 1,1-Dichloropropene	8.11	75	28464	4.247	ug/l	100
37) Ethyl Acetate	7.30	43	11391	4.397	ug/l #	78
38) Carbon Tetrachloride	8.10	117	30260	4.354	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	30772	3.801	ug/l	96
40) Benzene	8.36	78	81090	4.327	ug/l	99
41) Methacrylonitrile	7.53	41	4118	3.006	ug/l #	68
42) 1,2-Dichloroethane	8.43	62	21625	4.419	ug/l	99
43) Isopropyl Acetate	8.46	43	19419	4.059	ug/l	100
44) Trichloroethene	9.11	130	22285	4.211	ug/l	97
45) 1,2-Dichloropropane	9.39	63	19808	4.363	ug/l	94
46) Dibromomethane	9.48	93	10541	4.477	ug/l	97
47) Bromodichloromethane	9.66	83	26431	4.315	ug/l	91
48) Methyl methacrylate	9.46	41	8126	3.611	ug/l	96
49) 1,4-Dioxane	9.46	88	2336	86.728	ug/l #	84
51) 4-Methyl-2-Pentanone	10.24	43	42339	17.588	ug/l	94
52) Toluene	10.41	92	51276	4.343	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	24186	4.225	ug/l	93
54) cis-1,3-Dichloropropene	10.09	75	27081	3.908	ug/l	96
55) 1,1,2-Trichloroethane	10.80	97	14268	4.278	ug/l	92
56) Ethyl methacrylate	10.67	69	12570	3.343	ug/l	91
57) 1,3-Dichloropropane	10.95	76	23986	4.251	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.95	63	19114	15.764	ug/l	98
59) 2-Hexanone	10.99	43	29897	17.941	ug/l	93
60) Dibromochloromethane	11.14	129	18771	4.391	ug/l	99
61) 1,2-Dibromoethane	11.25	107	13213	4.153	ug/l	99
64) Tetrachloroethene	10.88	164	19963	4.461	ug/l	95
65) Chlorobenzene	11.67	112	53922	4.363	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	19761	4.390	ug/l	96
67) Ethyl Benzene	11.75	91	82459	3.861	ug/l	97
68) m/p-Xylenes	11.86	106	61935	7.521	ug/l	97
69) o-Xylene	12.18	106	27143	3.747	ug/l	97
70) Styrene	12.20	104	44496	3.490	ug/l	98
71) Bromoform	12.37	173	10833	4.285	ug/l #	100
73) Isopropylbenzene	12.48	105	72429	3.604	ug/l	98
74) N-amyl acetate	12.30	43	14644	3.560	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.74	83	15066	4.265	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	9133m	3.788	ug/l	
77) Bromobenzene	12.77	156	20735	4.153	ug/l	94
78) n-propylbenzene	12.83	91	95550	4.007	ug/l	96
79) 2-Chlorotoluene	12.91	91	54887	4.085	ug/l	97
80) 1,3,5-Trimethylbenzene	12.97	105	60922	3.688	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	3855	3.374	ug/l	93
82) 4-Chlorotoluene	13.01	91	56381	3.993	ug/l	99
83) tert-Butylbenzene	13.23	119	50107	3.585	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	57631	3.539	ug/l	99
85) sec-Butylbenzene	13.41	105	73164	3.667	ug/l	98
86) p-Isopropyltoluene	13.53	119	63644	3.496	ug/l	98
87) 1,3-Dichlorobenzene	13.53	146	40374	4.206	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	42192	4.419	ug/l	94
89) n-Butylbenzene	13.86	91	62531	3.715	ug/l	96
90) Hexachloroethane	14.11	117	15919	4.246	ug/l	97
91) 1,2-Dichlorobenzene	13.90	146	34854	4.267	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2020	3.755	ug/l	94

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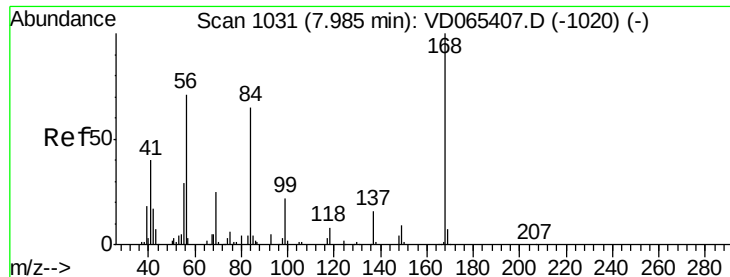
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	21598	3.901	ug/l	97
94) Hexachlorobutadiene	15.28	225	15236	4.188	ug/l	96
95) Naphthalene	15.41	128	28445	3.213	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.61	180	18314	3.828	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 454950

Ion Ratio Lower Upper

168 100

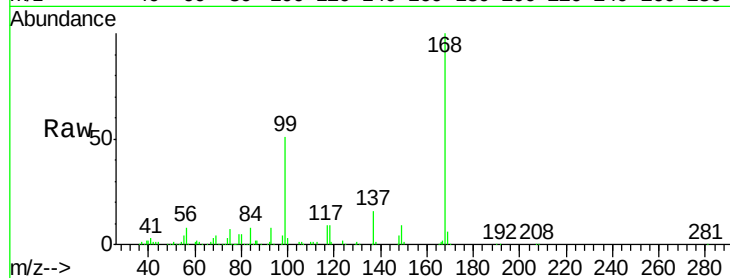
99 51.2 41.5 62.3

Manual Integrations

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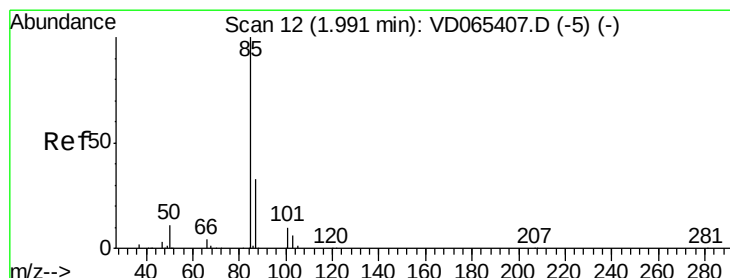
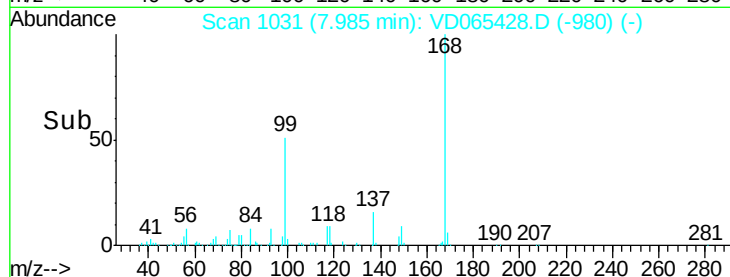
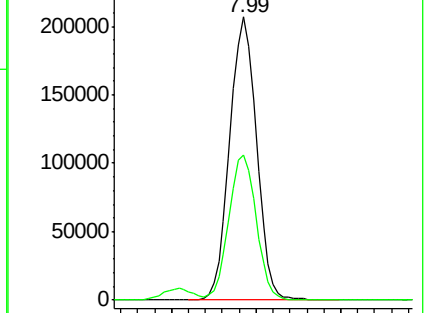
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.430 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065428.D

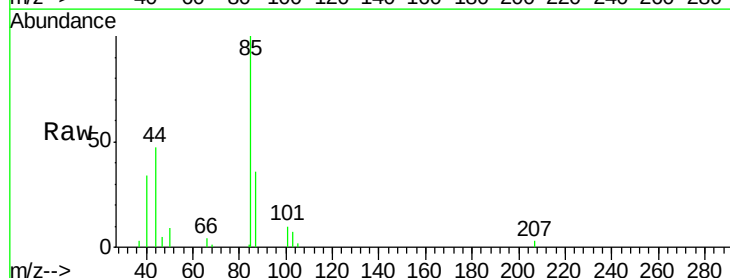
Acq: 05 Mar 2020 13:46

Tgt Ion: 85 Resp: 17322

Ion Ratio Lower Upper

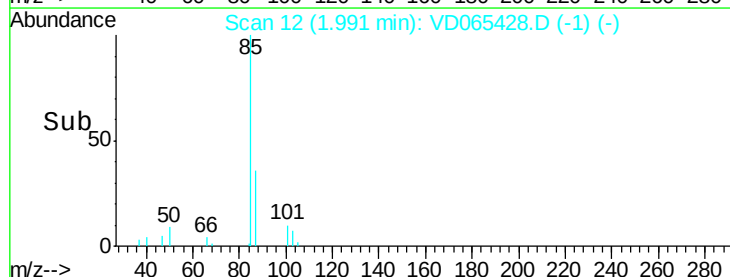
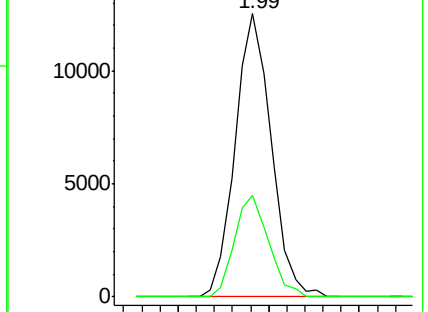
85 100

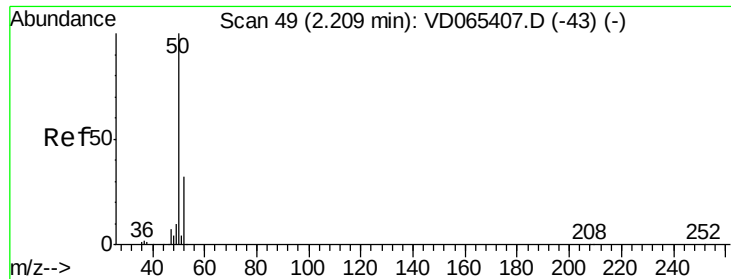
87 36.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.519 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 21334

Ion Ratio Lower Upper

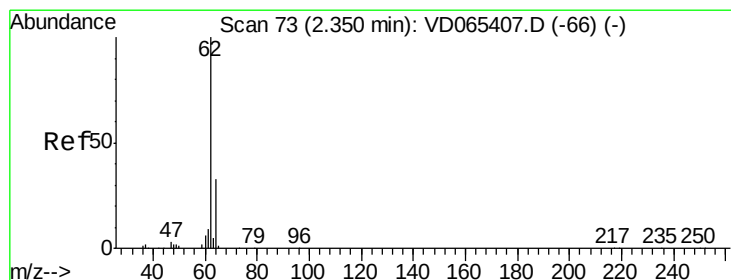
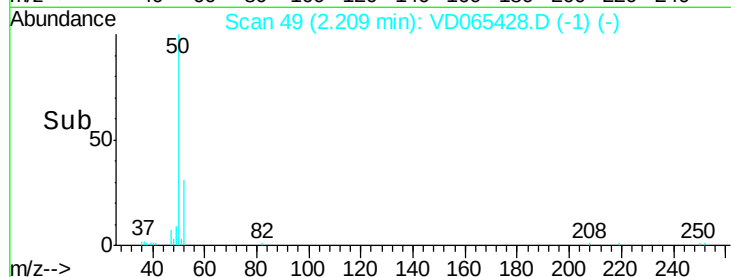
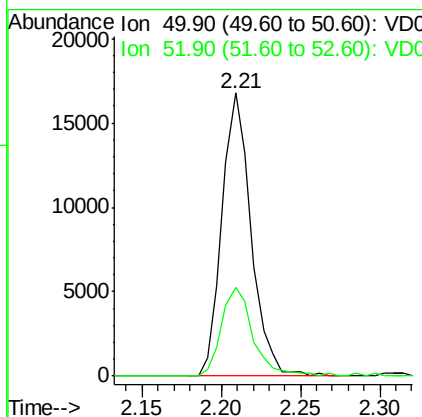
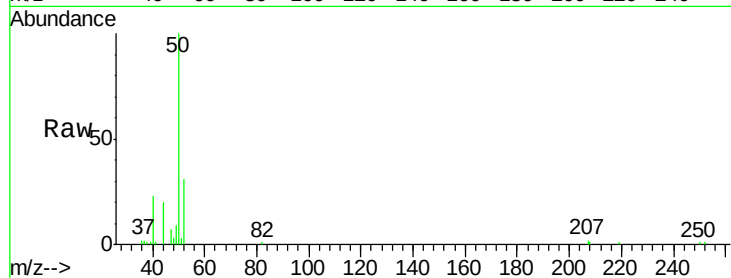
50 100

52 31.2 25.8 38.8

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3/6/2020 11:17:31 AM



#4

Vinyl Chloride

Concen: 4.480 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065428.D

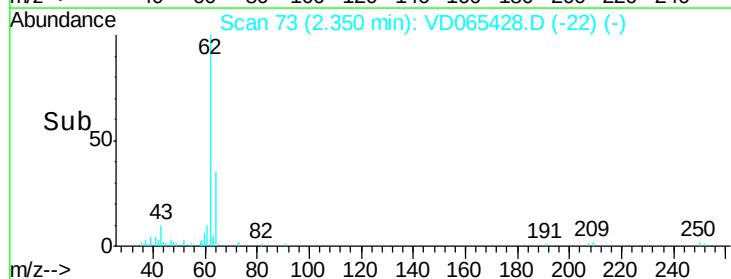
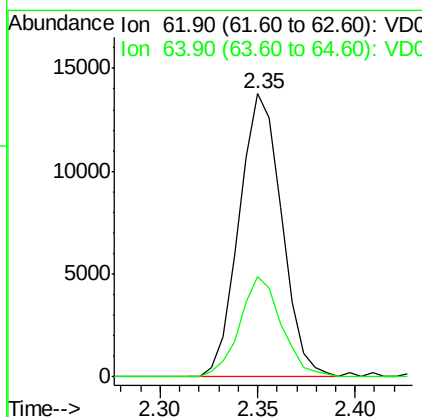
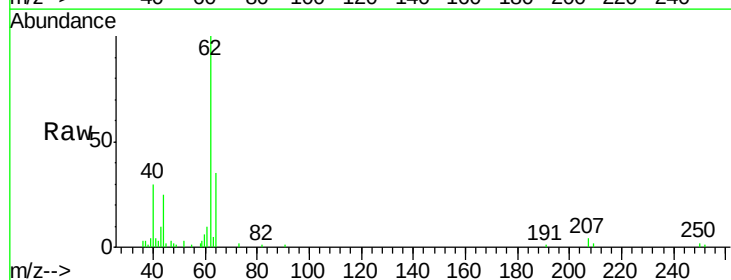
Acq: 05 Mar 2020 13:46

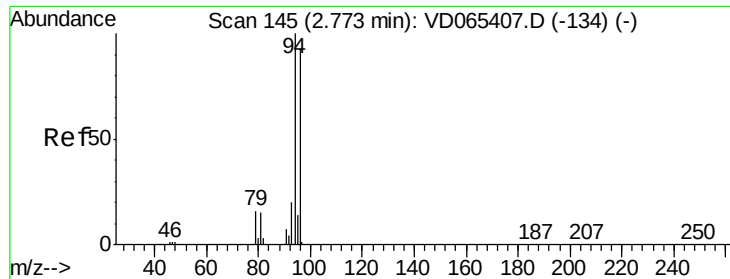
Tgt Ion: 62 Resp: 20860

Ion Ratio Lower Upper

62 100

64 35.4 26.6 39.8





#5

Bromomethane

Concen: 5.329 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 15864

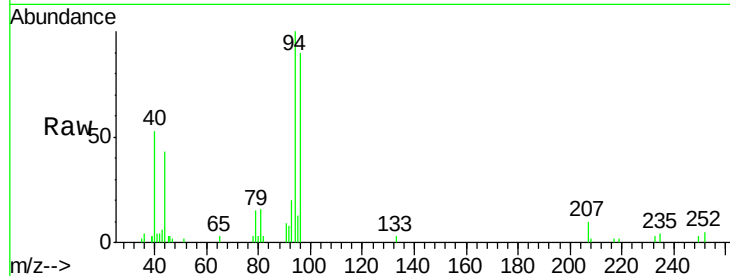
Ion Ratio Lower Upper

94 100

96 87.7 74.4 111.6

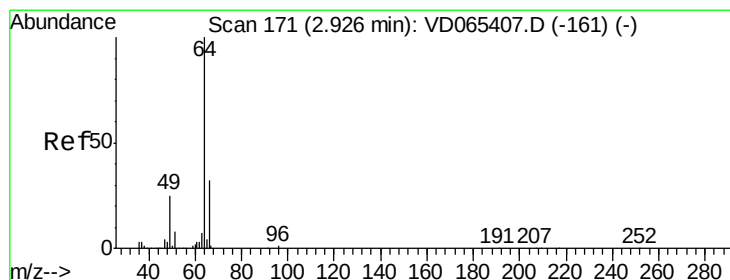
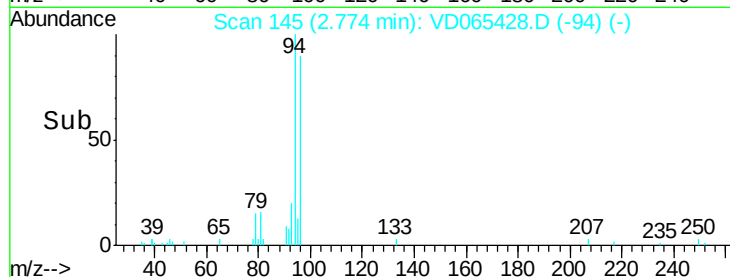
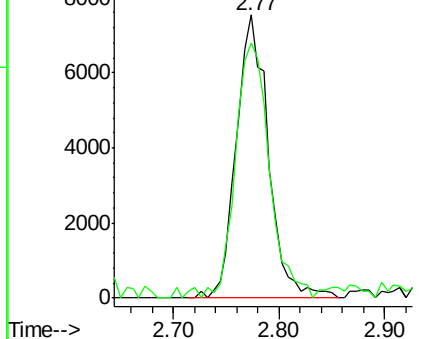
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.483 ug/l

RT: 2.93 min Scan# 172

Delta R.T. 0.01 min

Lab File: VD065428.D

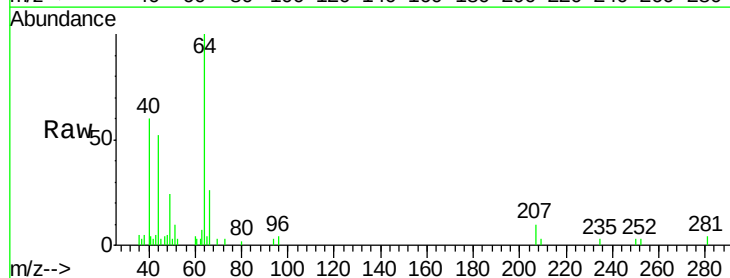
Acq: 05 Mar 2020 13:46

Tgt Ion: 64 Resp: 12784

Ion Ratio Lower Upper

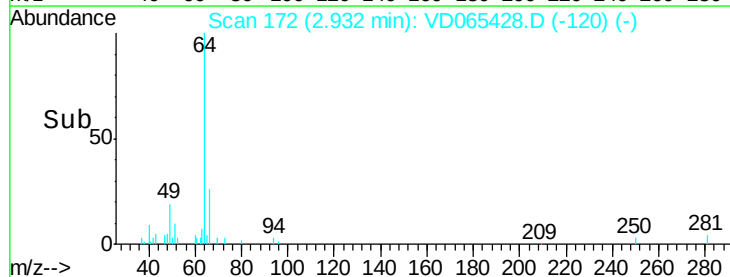
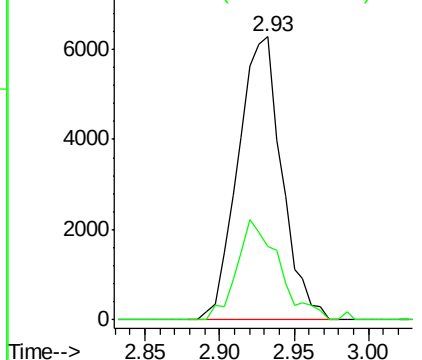
64 100

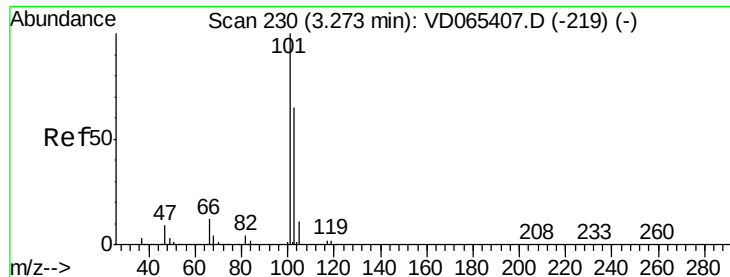
66 25.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

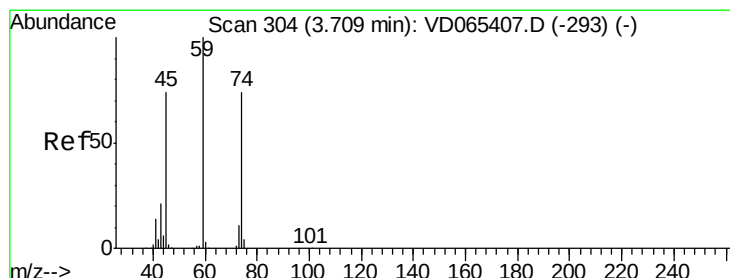
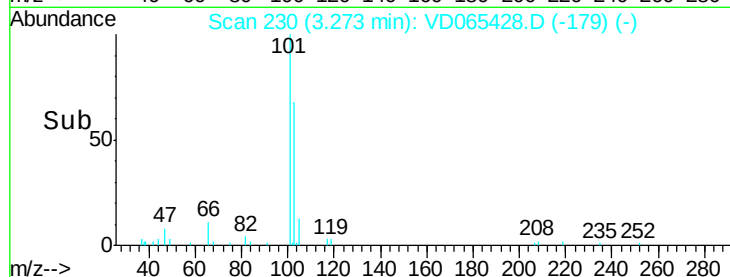
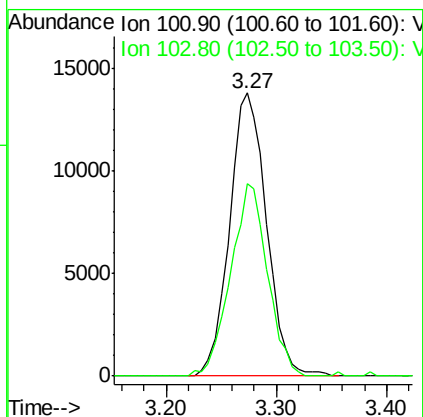
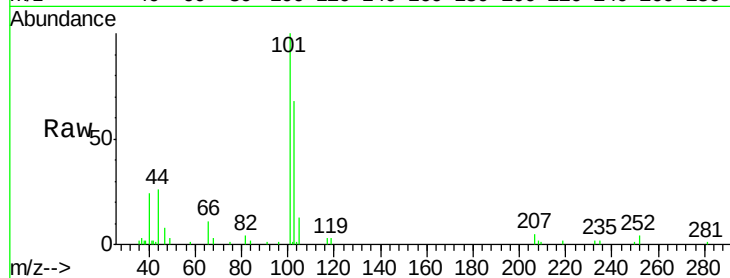
Trichlorofluoromethane
Concen: 4.714 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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Tot Ion	Ratio	Lower	Upper
101	100		
103	68.0	52.1	78.1

Manual Integrations
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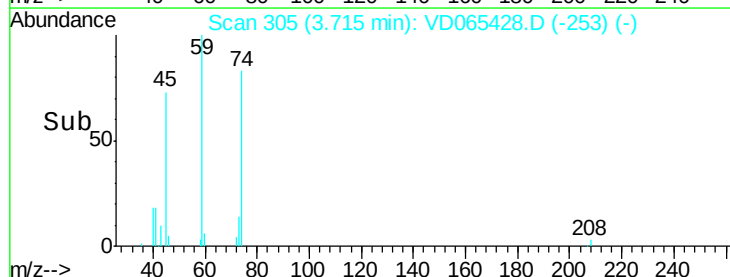
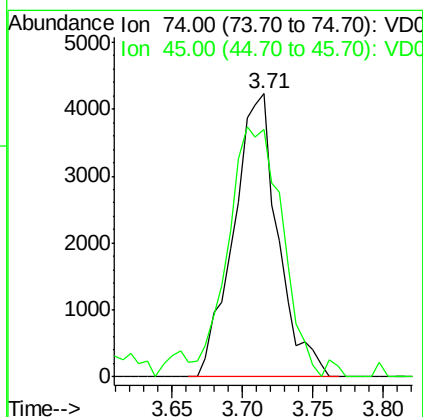
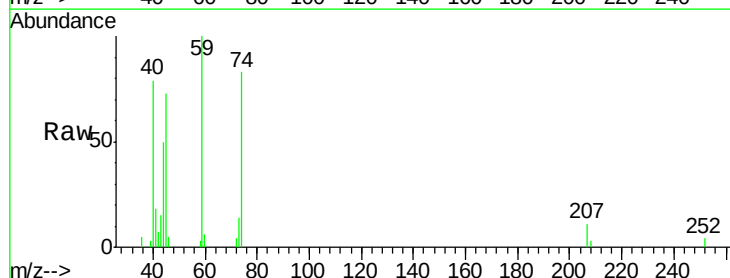
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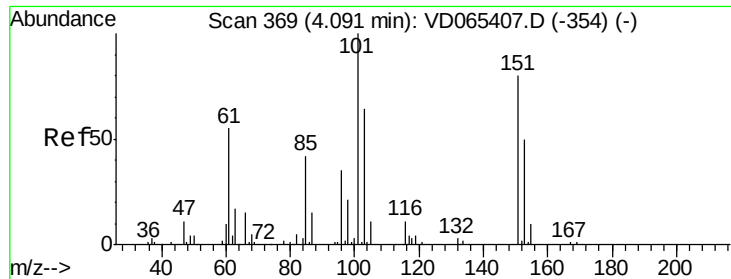


#8

Diethyl Ether
Concen: 4.561 ug/l
RT: 3.71 min Scan# 305
Delta R.T. 0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.1	49.5	148.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.707 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

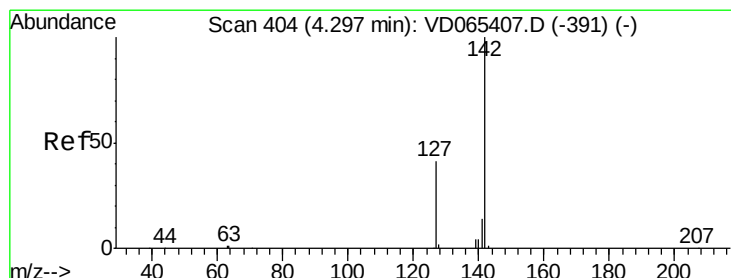
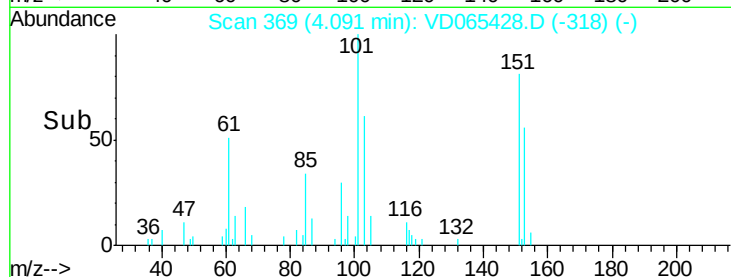
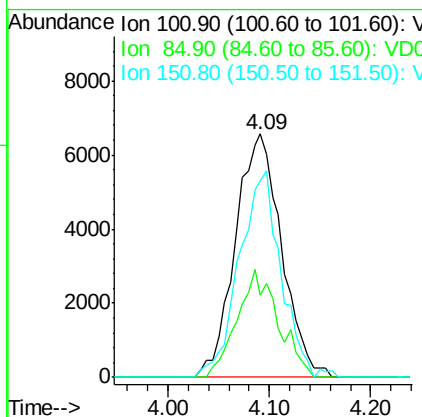
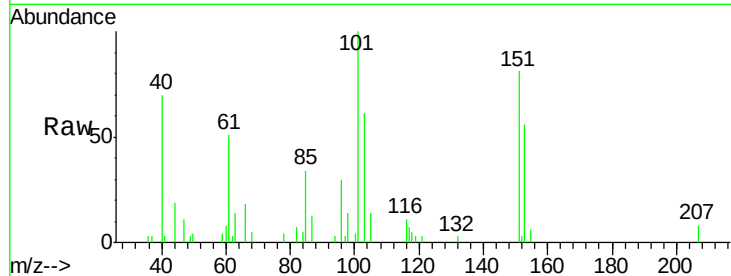
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	20797
Ion Ratio	Lower	Upper	
101	100		
85	39.3	34.2	51.2
151	76.6	65.1	97.7

Manual Integrations
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#10

Methyl Iodide

Concen: 3.695 ug/l

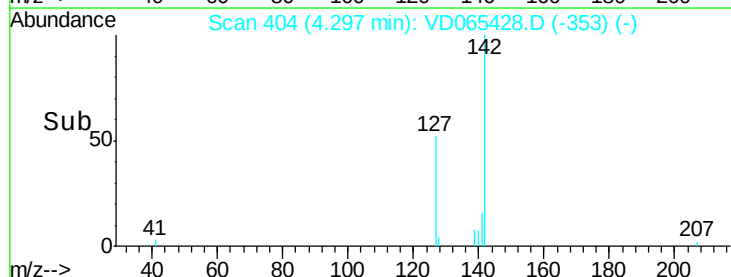
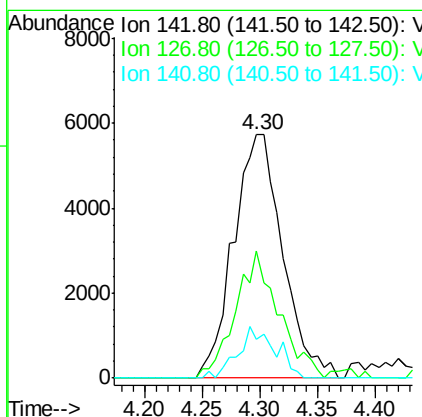
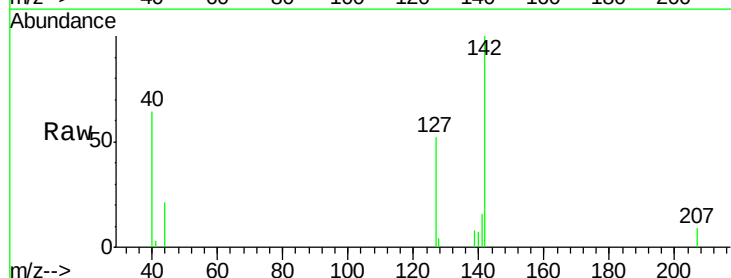
RT: 4.30 min Scan# 404

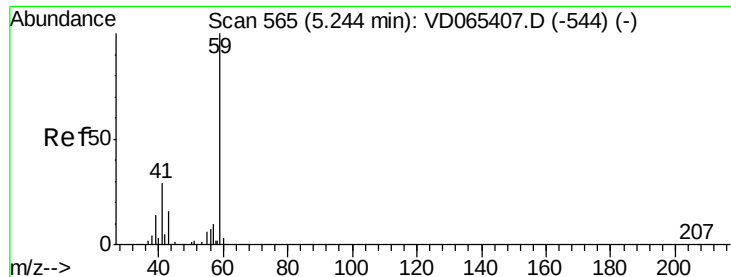
Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	142	Resp:	16962
Ion Ratio	Lower	Upper	
142	100		
127	45.7	35.0	52.6
141	15.9	12.4	18.6





#11

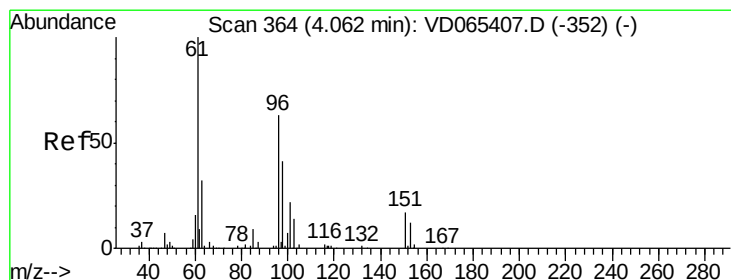
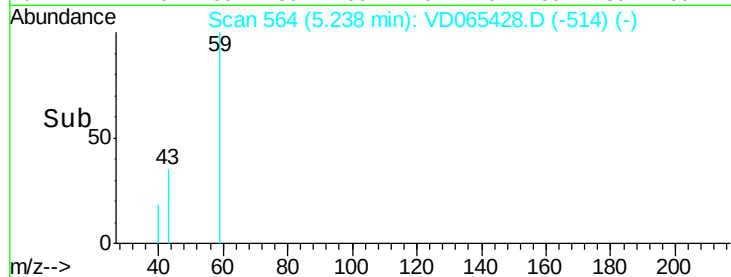
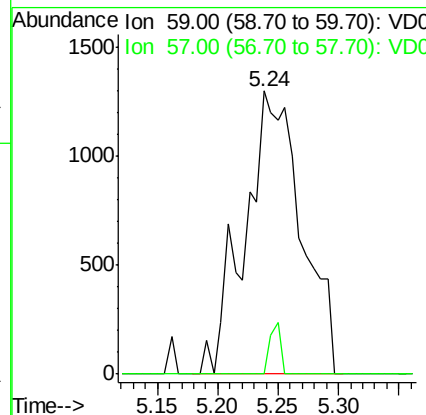
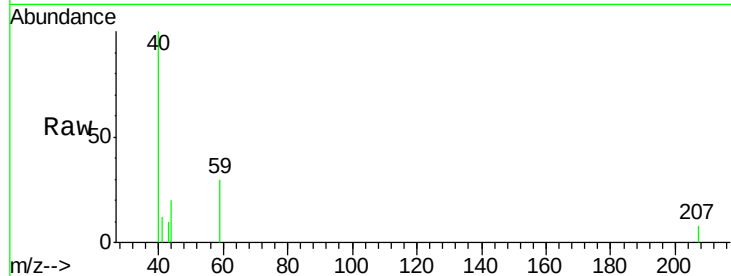
Tert butyl alcohol
Concen: 18.982 ug/l
RT: 5.24 min Scan# 564
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion: 59 Resp: 4249
Ion Ratio Lower Upper
59 100
57 0.0 6.9 10.3#

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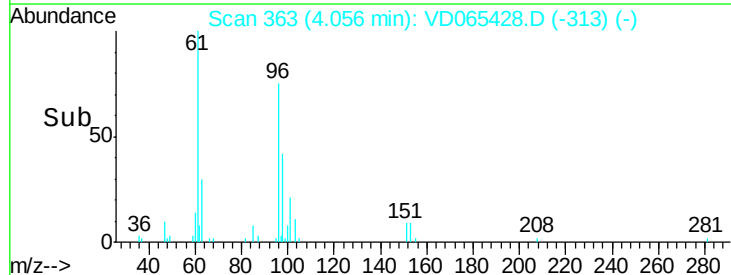
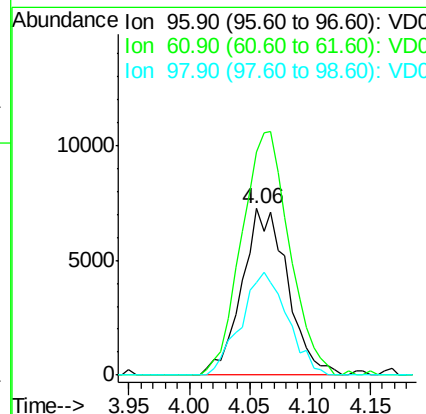
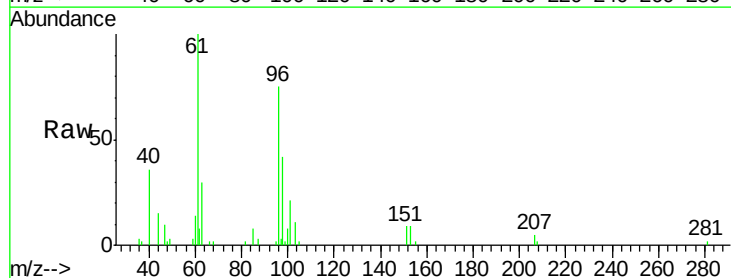
MMDadoda
3/6/2020 11:17:31 AM

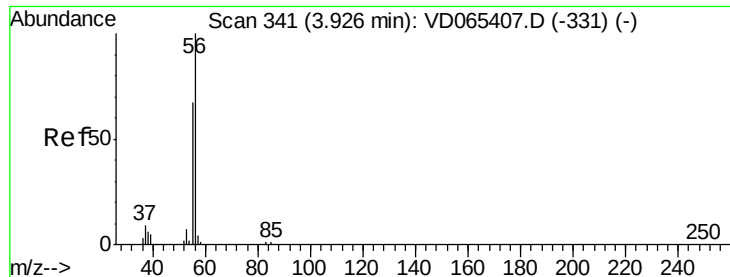


#12

1,1-Dichloroethene
Concen: 4.515 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion: 96 Resp: 19104
Ion Ratio Lower Upper
96 100
61 133.7 128.0 192.0
98 55.7 51.9 77.9





#13

Acrolein

Concen: 21.209 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 8188

Ion Ratio Lower Upper

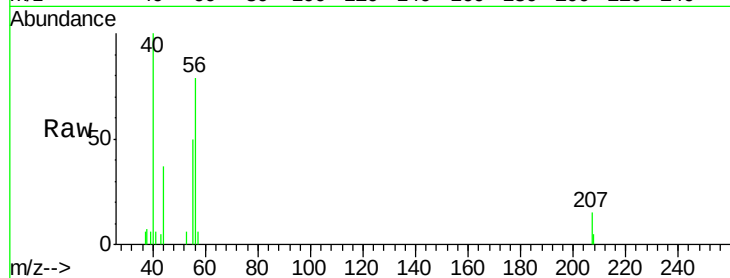
56 100

55 65.1 56.6 85.0

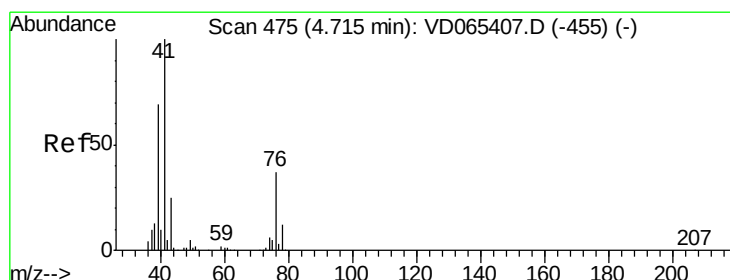
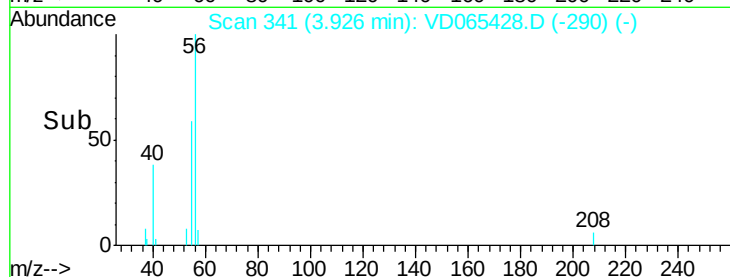
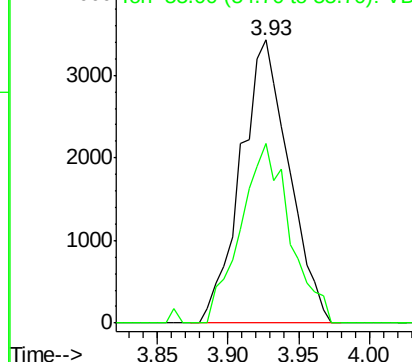
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Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 4.339 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

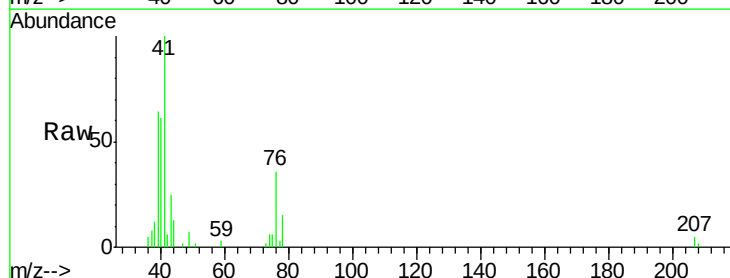
Tgt Ion: 41 Resp: 28205

Ion Ratio Lower Upper

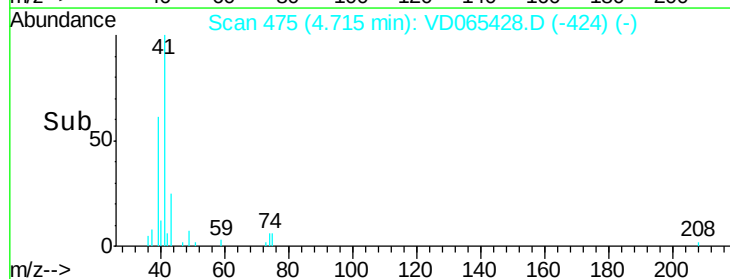
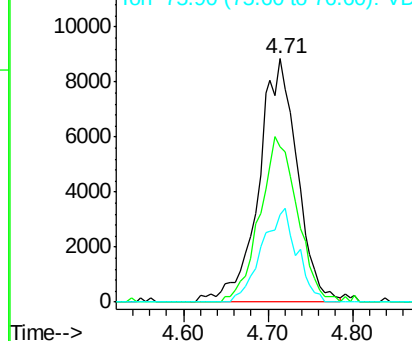
41 100

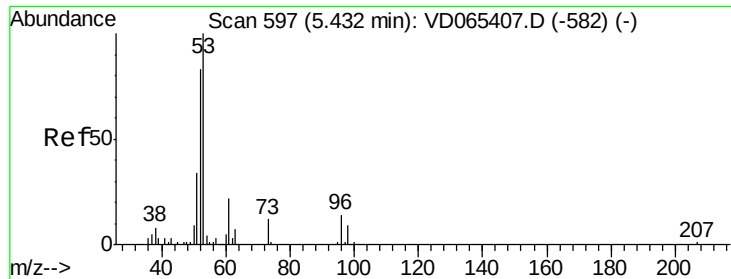
39 65.8 52.6 79.0

76 34.9 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





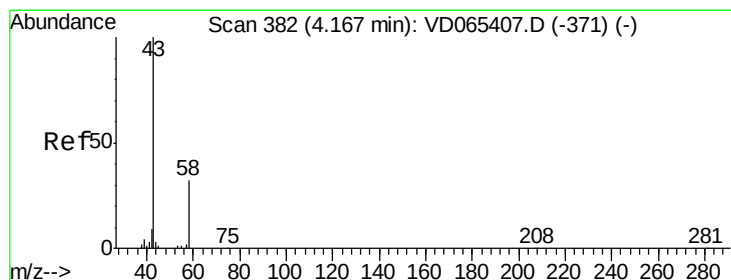
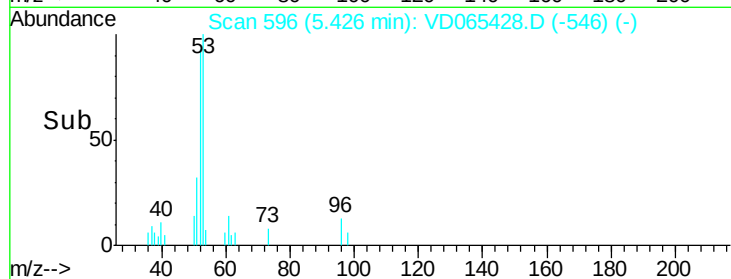
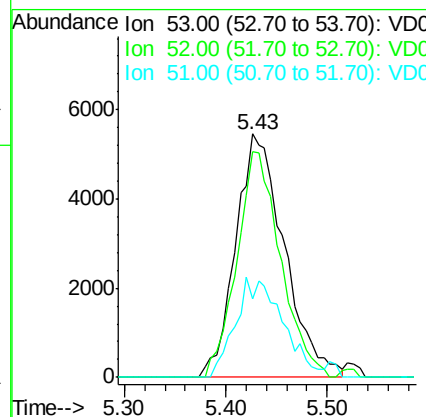
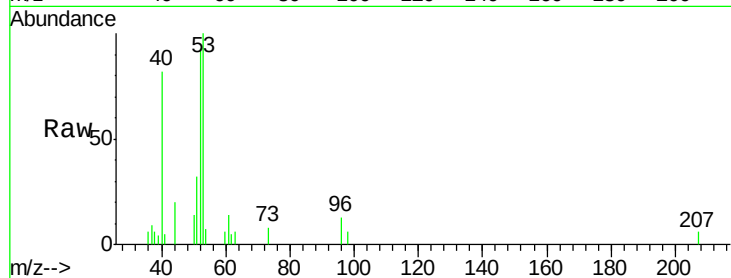
#15
Acrylonitrile
Concen: 20.417 ug/l
RT: 5.43 min Scan# 596
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.7	65.1	97.7
51	39.6	28.5	42.7

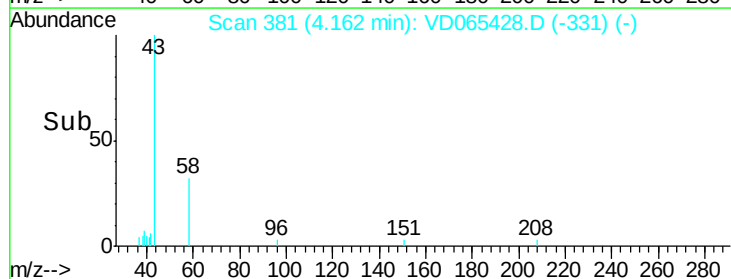
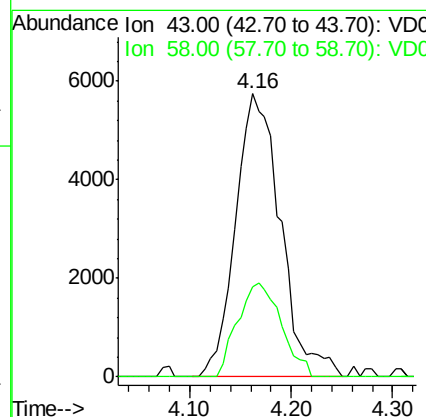
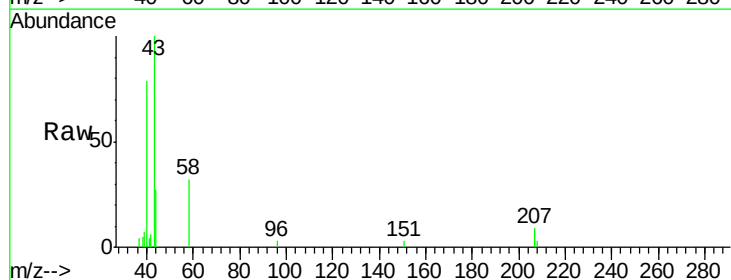
Manual Integrations
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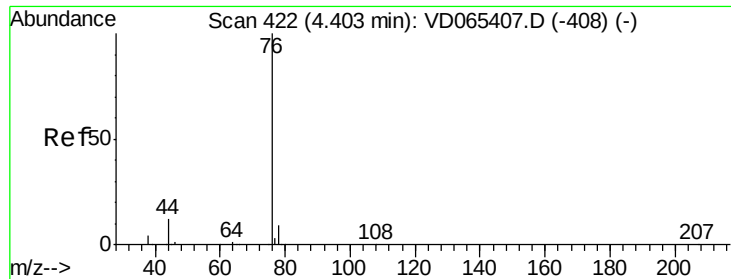
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3/6/2020 11:17:31 AM



#16
Acetone
Concen: 22.458 ug/l
RT: 4.16 min Scan# 381
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.1	37.7





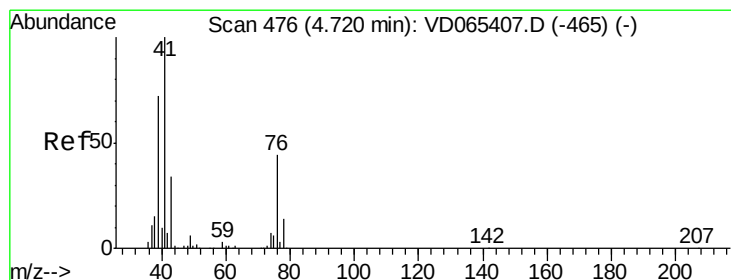
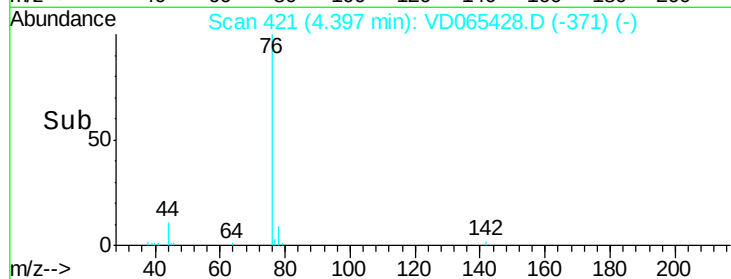
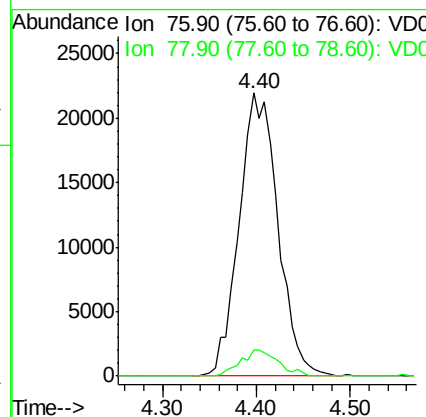
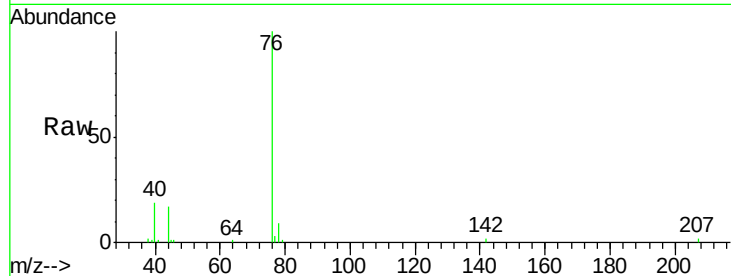
#17
Carbon Disulfide
Concen: 4.458 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

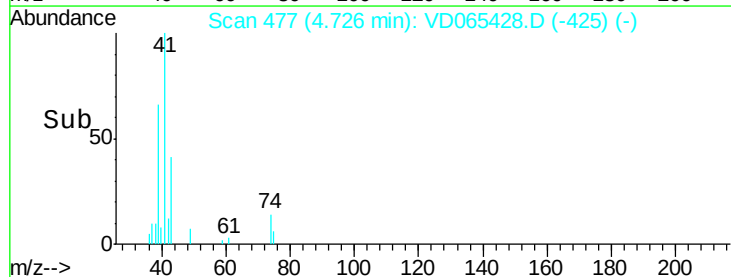
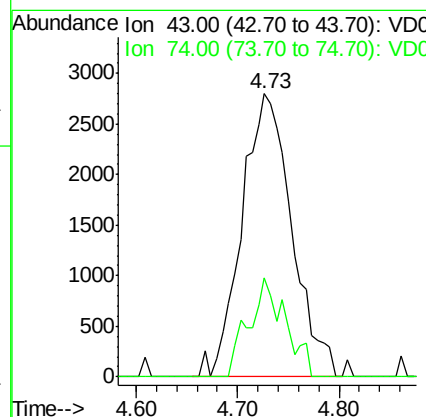
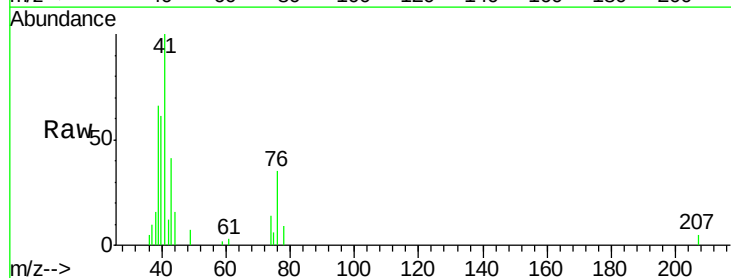
Manual Integrations
APPROVED

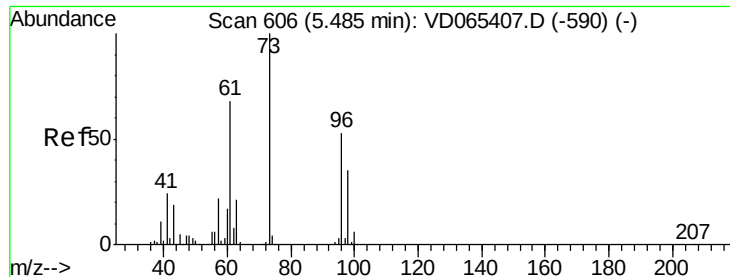
MMDadoda
3/6/2020 11:17:31 AM



#18
Methyl Acetate
Concen: 4.793 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	19.6	29.4





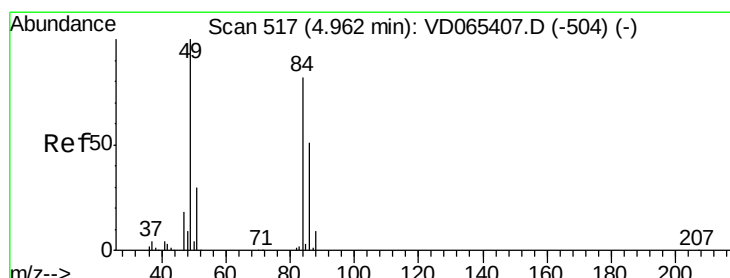
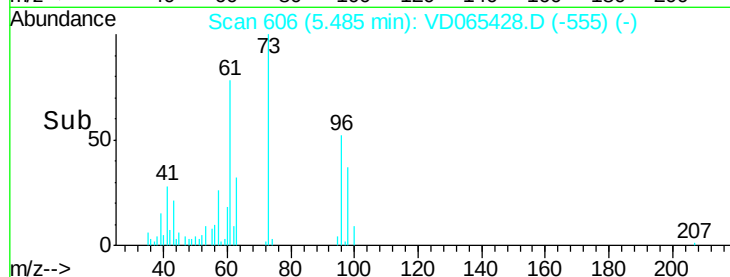
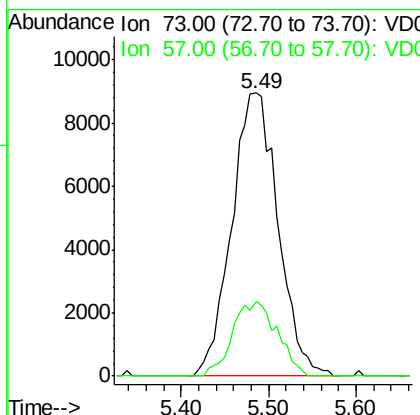
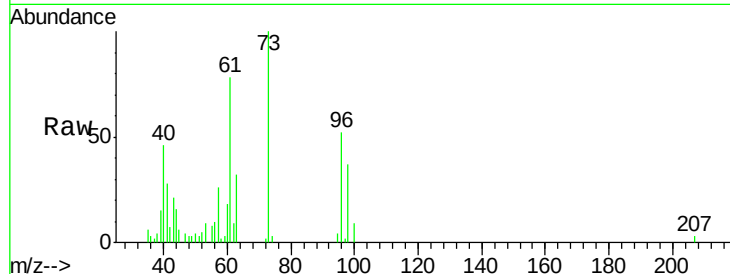
#19
Methyl tert-butyl Ether
Concen: 3.965 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion: 73 Resp: 32261
Ion Ratio Lower Upper
73 100
57 26.2 17.3 25.9#

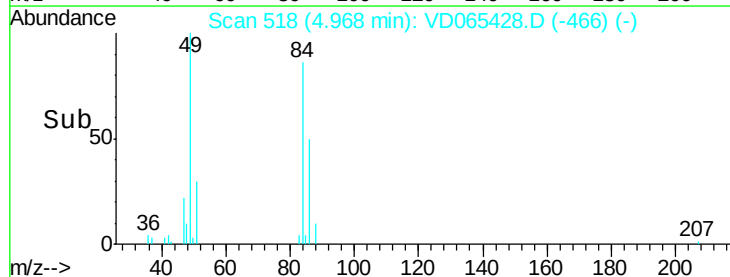
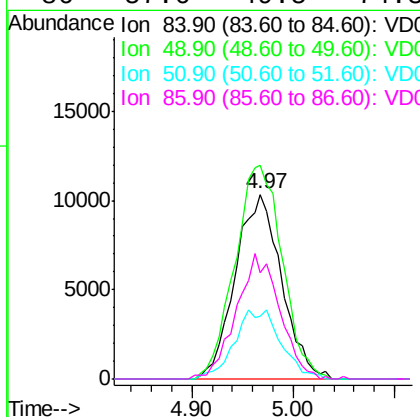
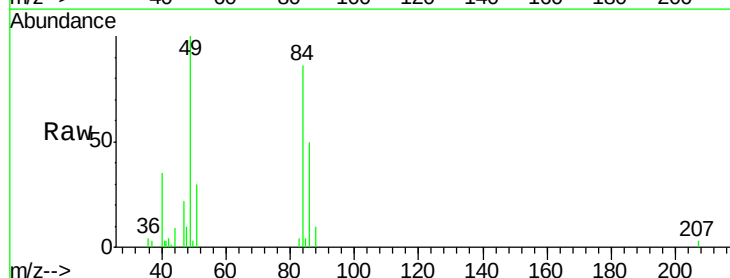
Manual Integrations
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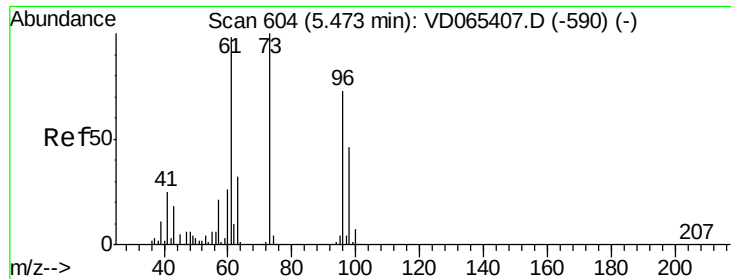
MMDadoda
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#20
Methylene Chloride
Concen: 6.709 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion: 84 Resp: 32755
Ion Ratio Lower Upper
84 100
49 115.7 97.7 146.5
51 34.2 28.8 43.2
86 57.6 49.5 74.3





#21

trans-1,2-Dichloroethene

Concen: 4.536 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

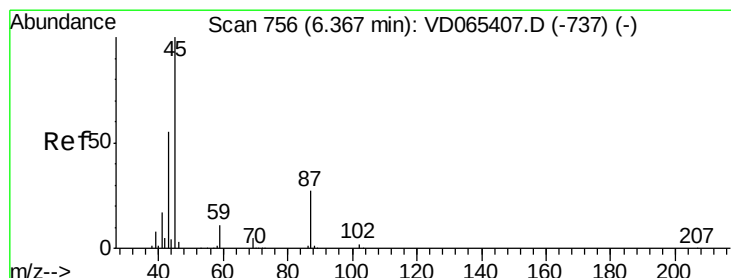
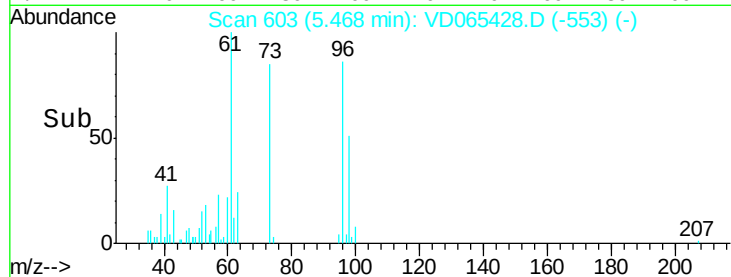
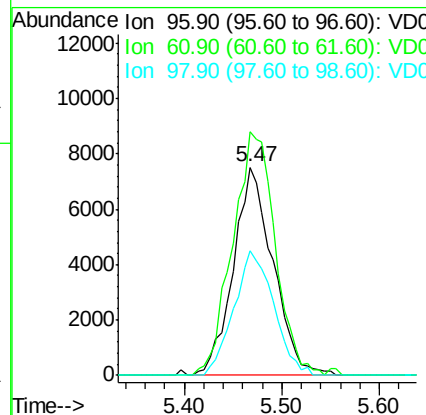
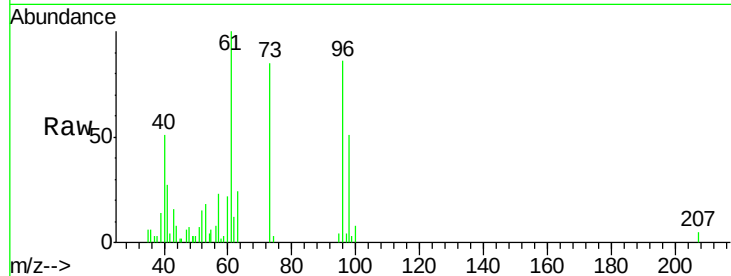
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	96	Resp:	21351
Ion	Ratio	Lower	Upper
96	100		
61	116.8	106.3	159.5
98	59.9	50.2	75.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 3.923 ug/l

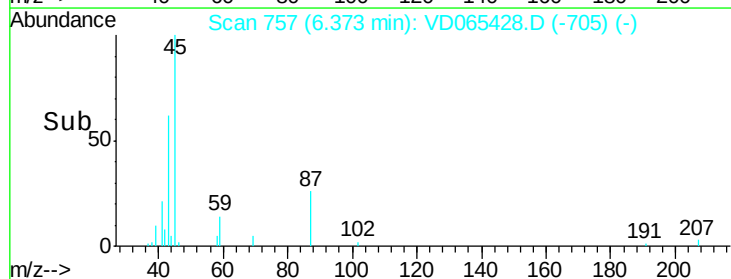
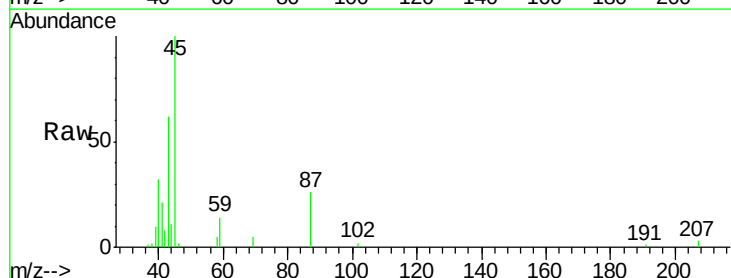
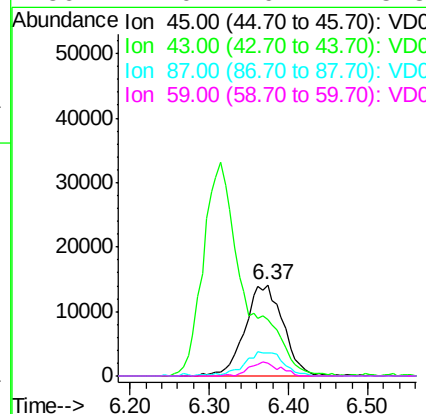
RT: 6.37 min Scan# 757

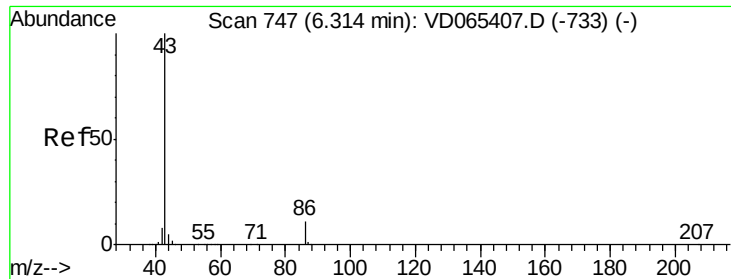
Delta R.T. 0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	45	Resp:	47401
Ion	Ratio	Lower	Upper
45	100		
43	60.3	44.4	66.6
87	25.7	21.9	32.9
59	14.0	9.2	13.8#





#23

Vinyl Acetate

Concen: 17.938 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 120344

Ion Ratio Lower Upper

43 100

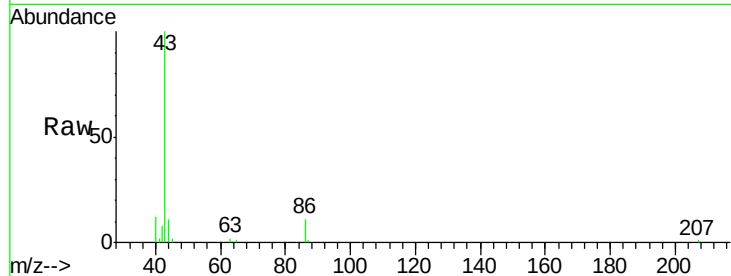
86 11.0 8.9 13.3

Manual Integrations

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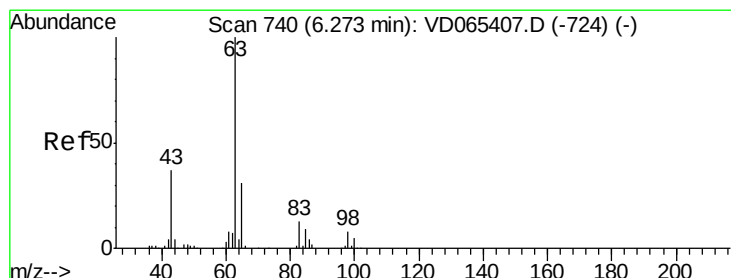
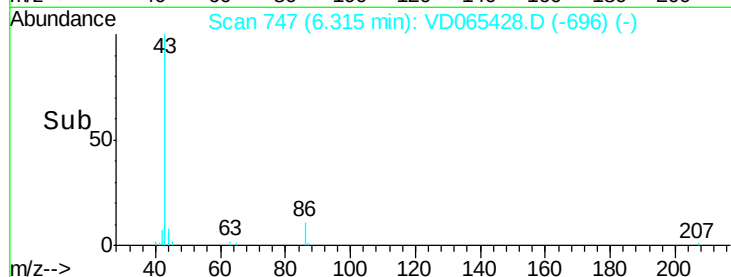
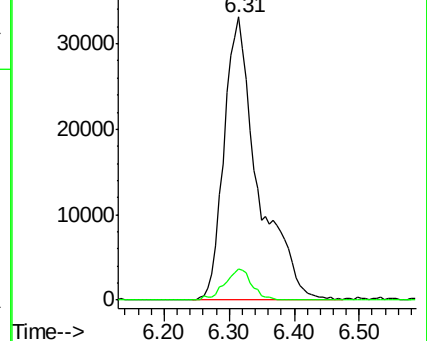
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 4.469 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

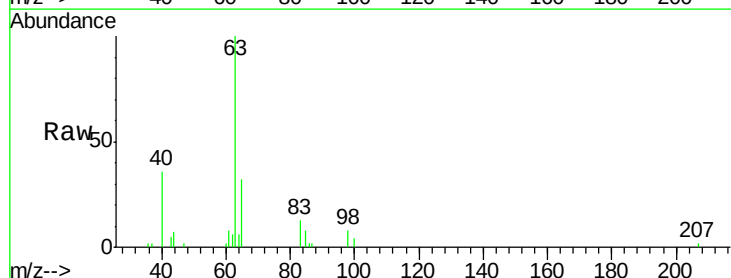
Tgt Ion: 63 Resp: 34638

Ion Ratio Lower Upper

63 100

98 8.0 4.2 12.6

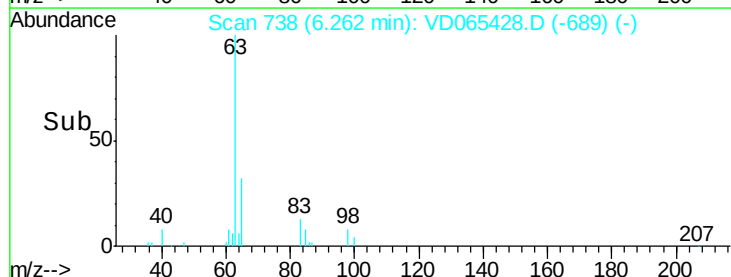
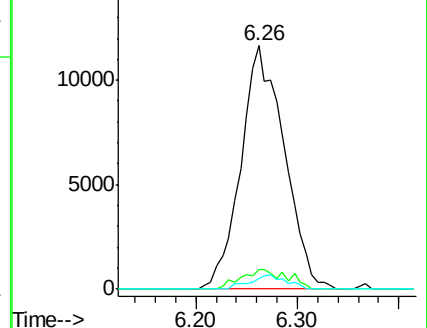
100 4.3 2.4 7.2

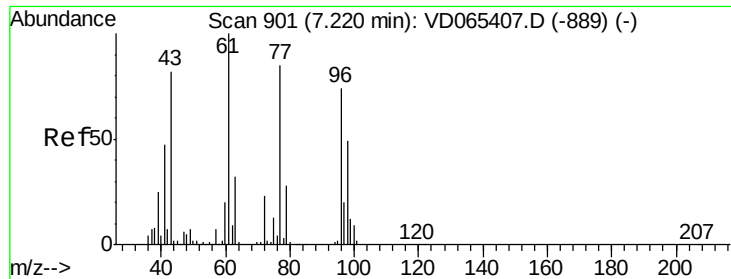


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 18.715 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 20157

Ion Ratio Lower Upper

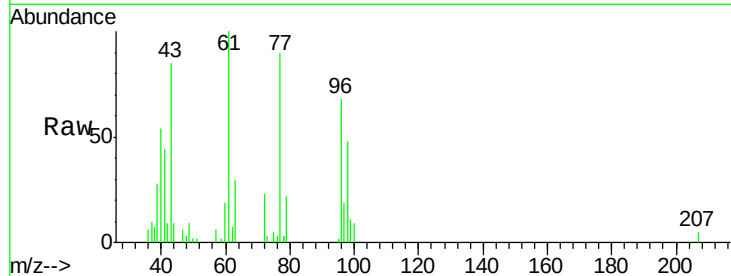
43 100

72 27.3 22.3 33.5

Manual Integrations
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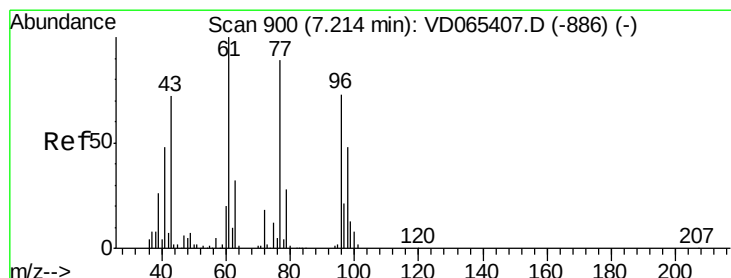
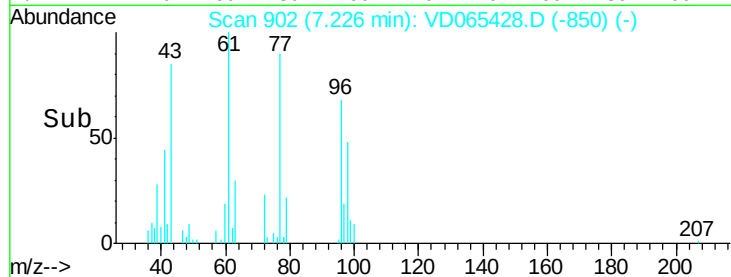
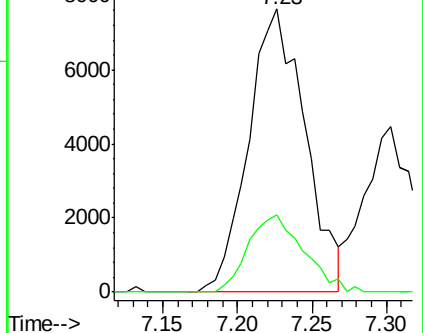
MMDadoda

3/6/2020 11:17:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 4.398 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065428.D

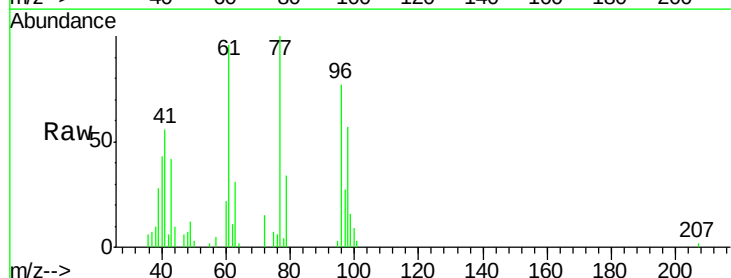
Acq: 05 Mar 2020 13:46

Tgt Ion: 77 Resp: 29786

Ion Ratio Lower Upper

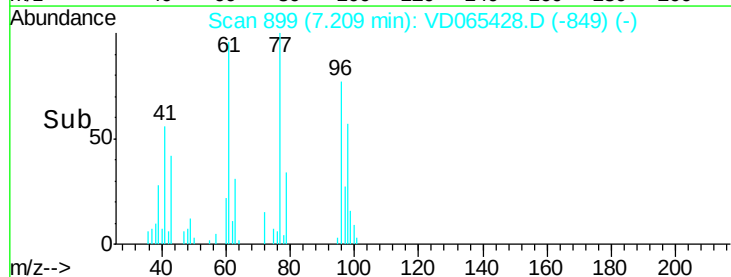
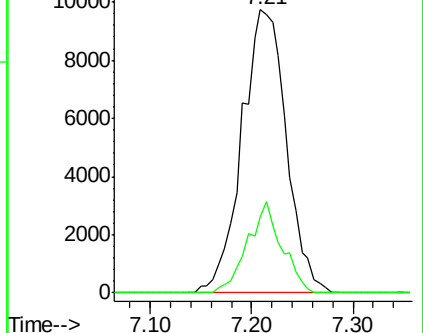
77 100

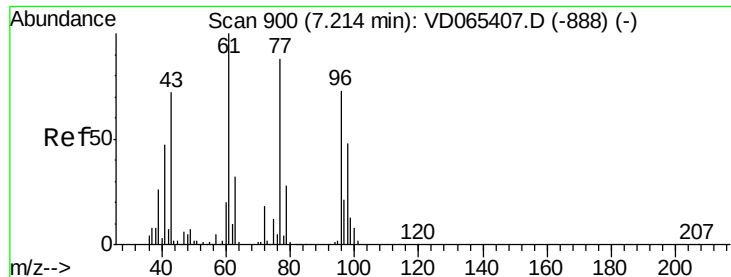
97 24.6 11.8 35.4



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

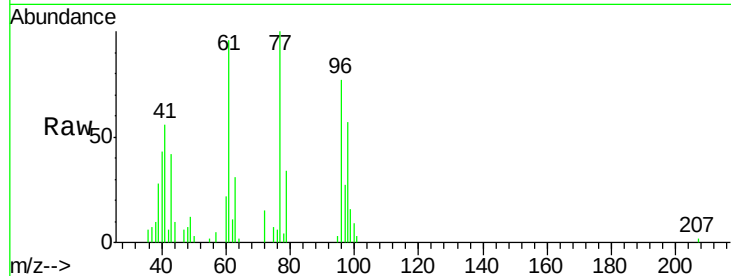
cis-1,2-Dichloroethene
Concen: 4.204 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

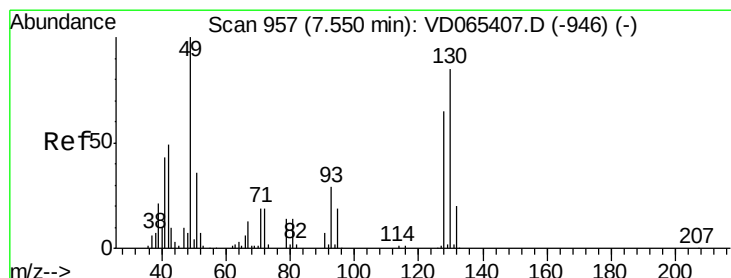
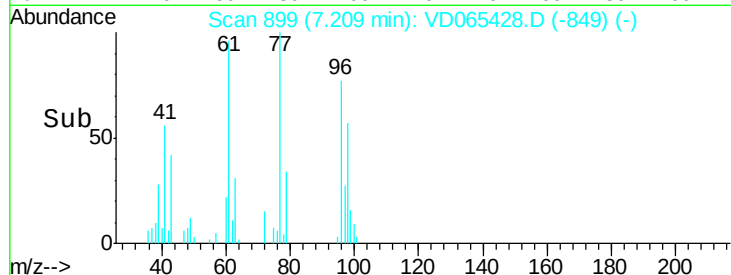
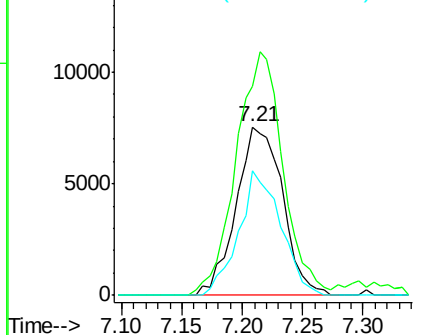
Tot Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	280.4
98	67.1	0.0	132.6

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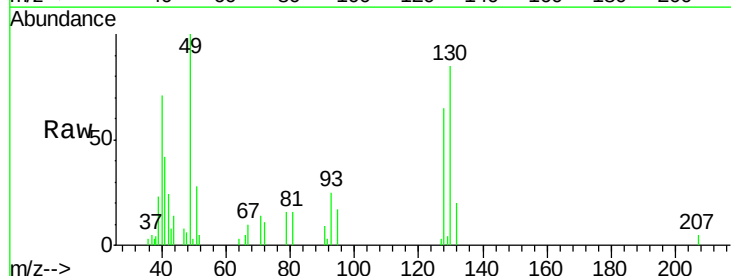
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



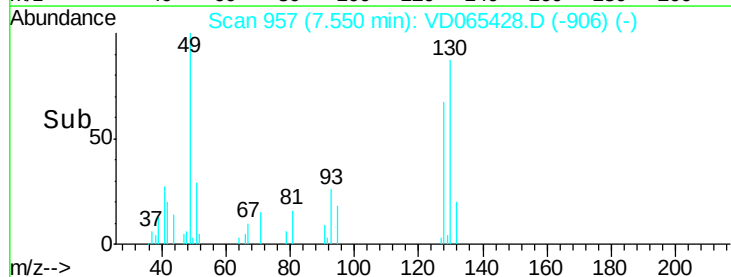
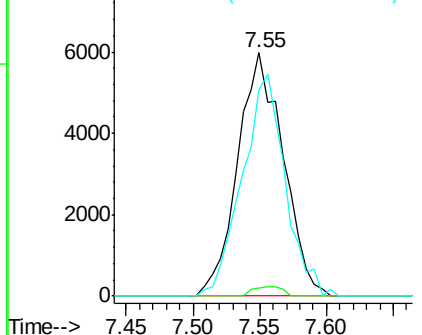
#28

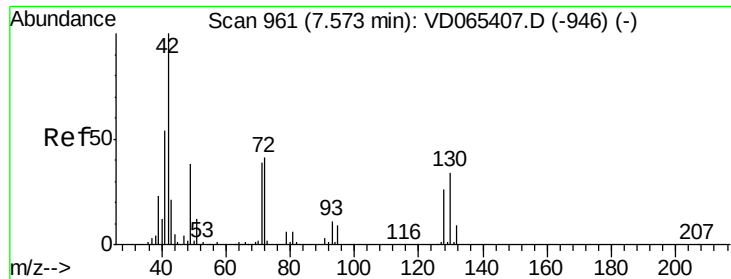
Bromochloromethane
Concen: 4.564 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	4.6
130	85.6	66.6	100.0



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





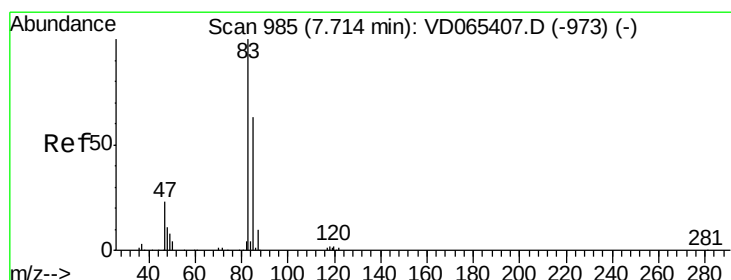
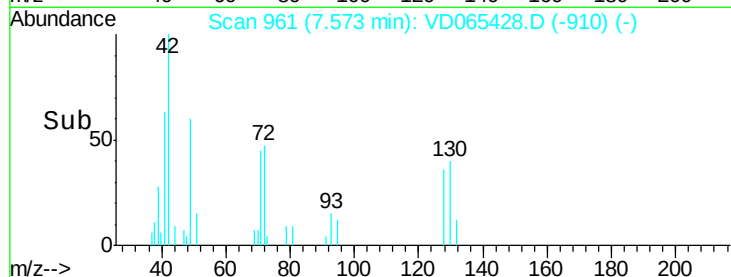
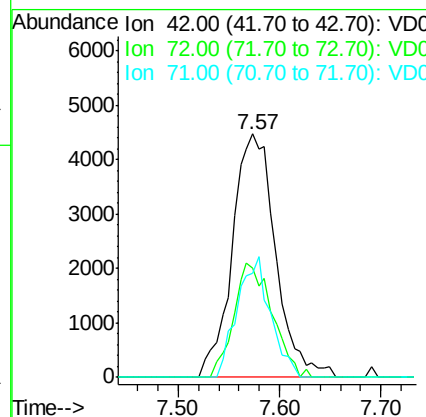
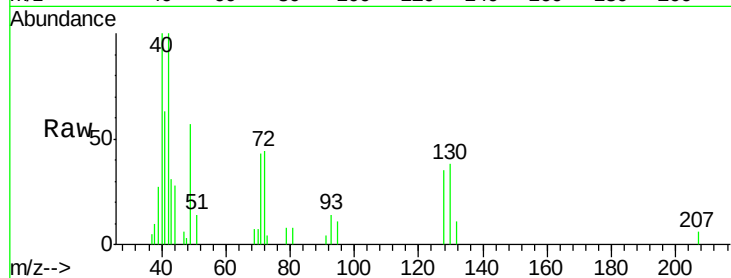
#29
Tetrahydrofuran
Concen: 19.267 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.0	49.6
71	37.9	32.0	48.0

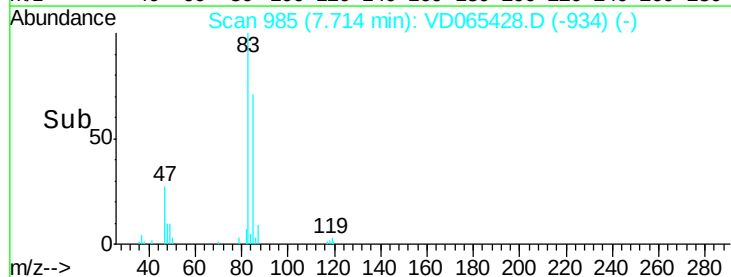
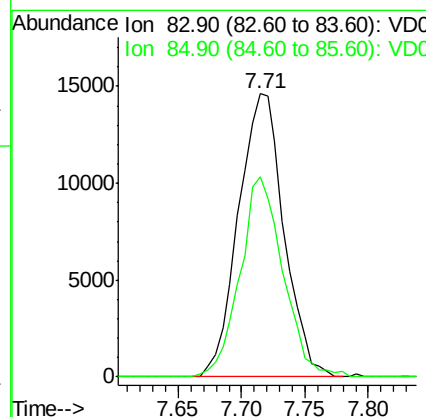
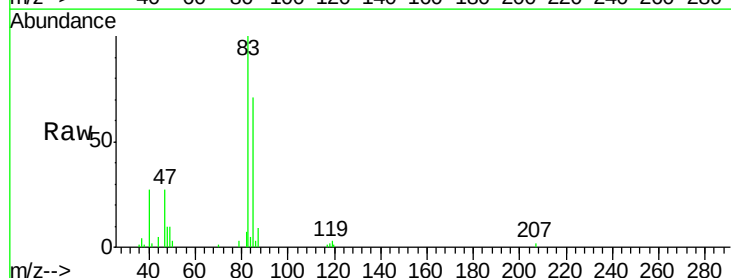
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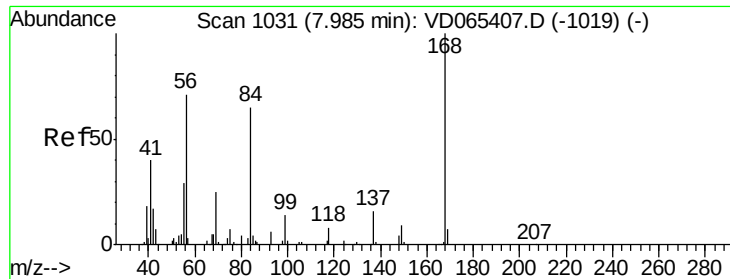
MMDadoda
3/6/2020 11:17:31 AM



#30
Chloroform
Concen: 4.701 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.8	50.3	75.5





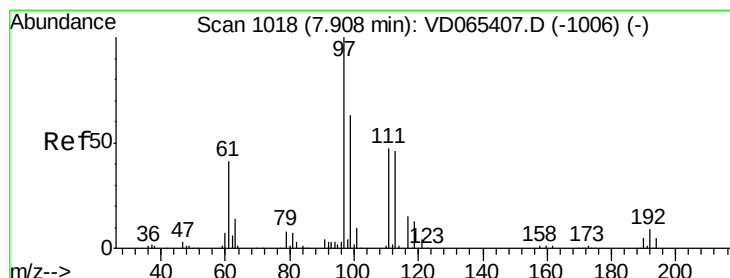
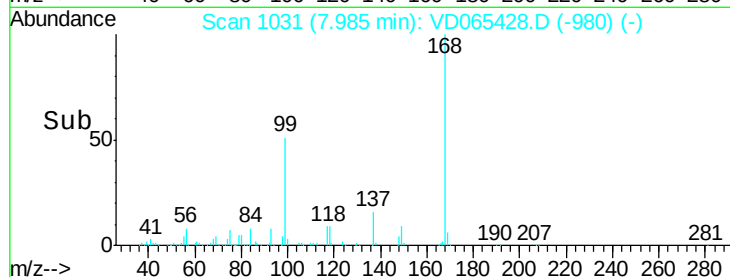
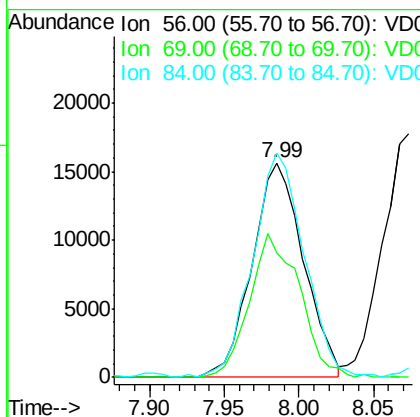
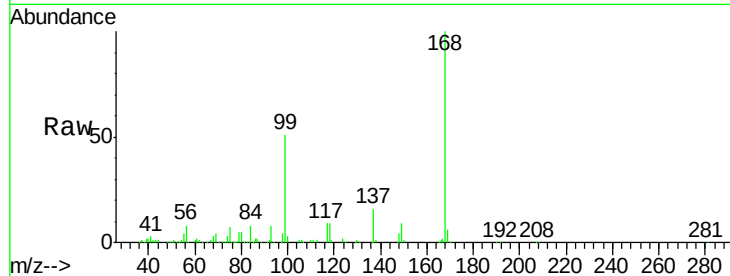
#31
Cyclohexane
Concen: 4.822 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	56	Ratio	Lower	Upper
56	100			
69	58.4	28.3	42.5#	
84	103.3	73.1	109.7	

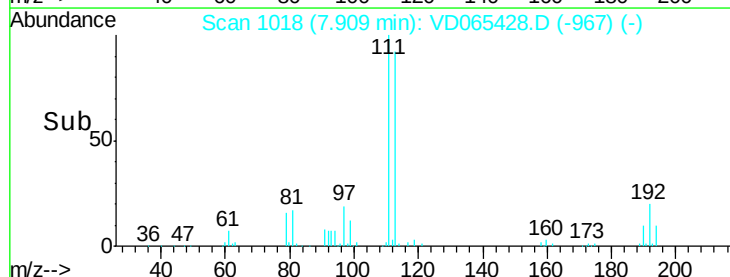
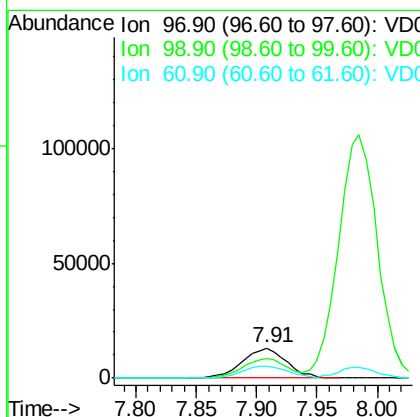
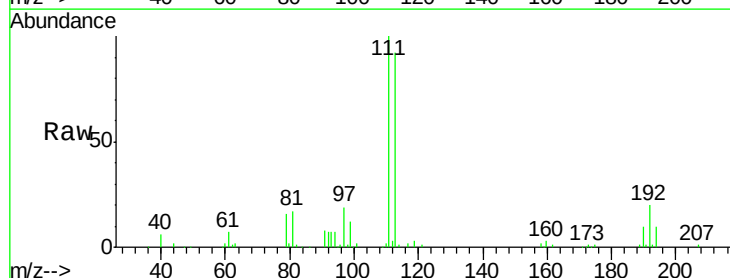
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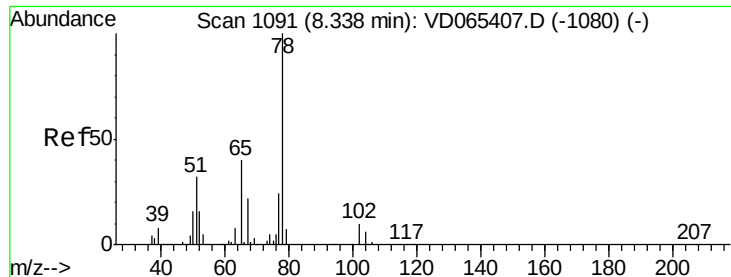
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3/6/2020 11:17:31 AM



#32
1,1,1-Trichloroethane
Concen: 4.644 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	97	Ratio	Lower	Upper
97	100			
99	64.3	50.9	76.3	
61	42.3	33.2	49.8	





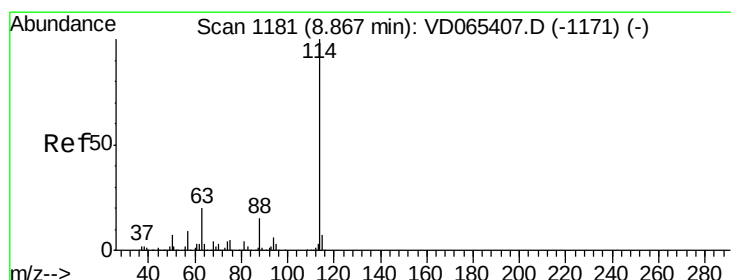
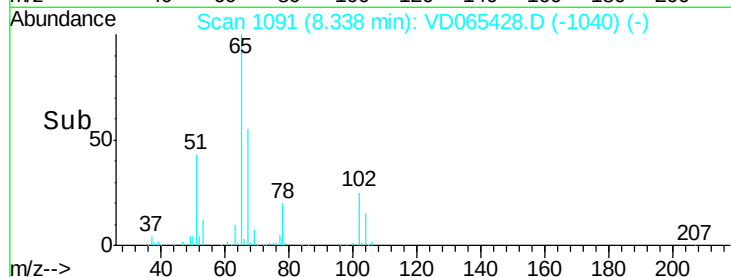
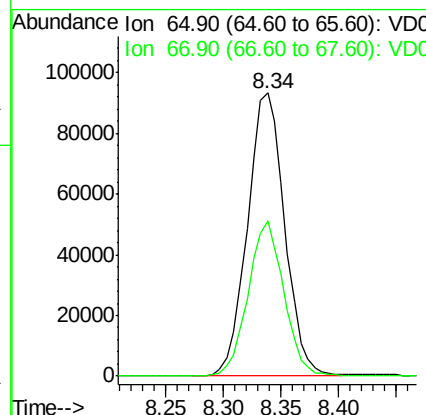
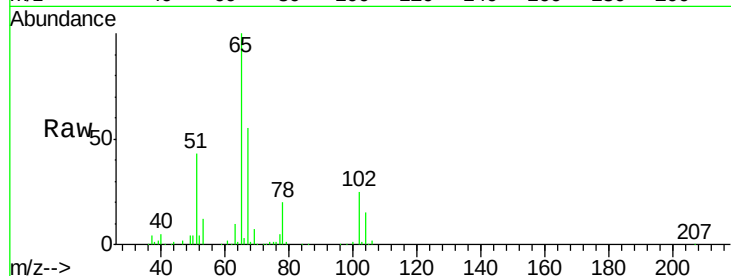
#33
 1,2-Dichloroethane-d4
 Concen: 53.673 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	209461		
67	52.6	0.0	108.0	

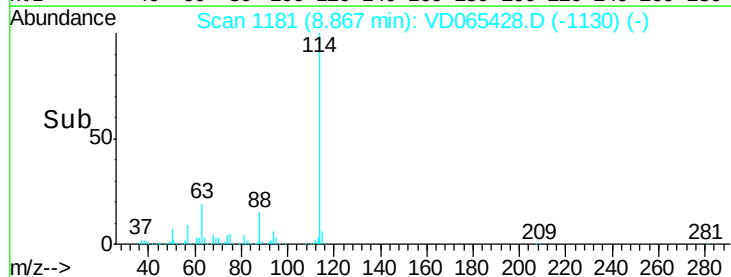
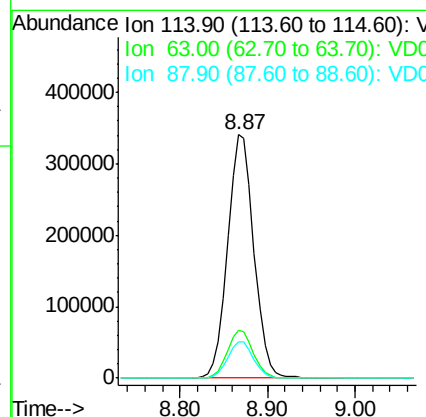
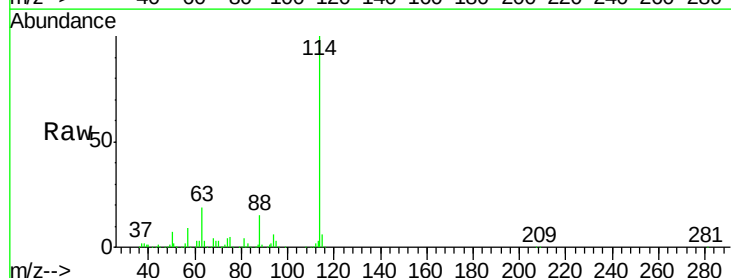
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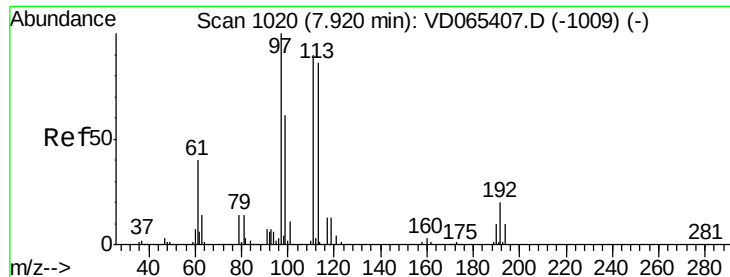
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	699258		
63	19.4	0.0	39.6	
88	15.2	0.0	30.4	





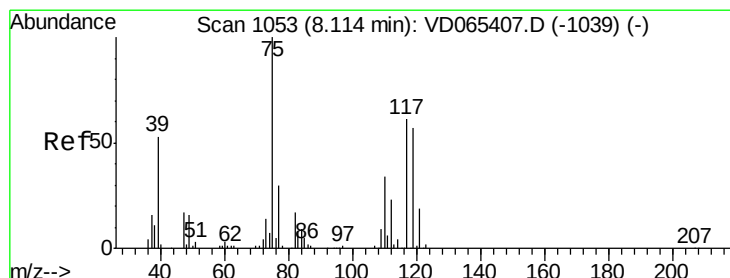
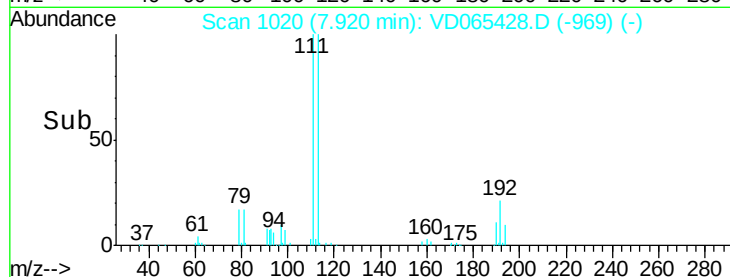
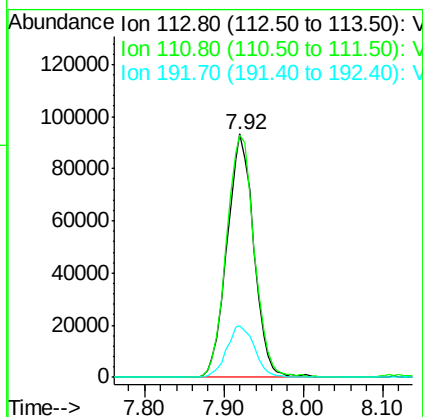
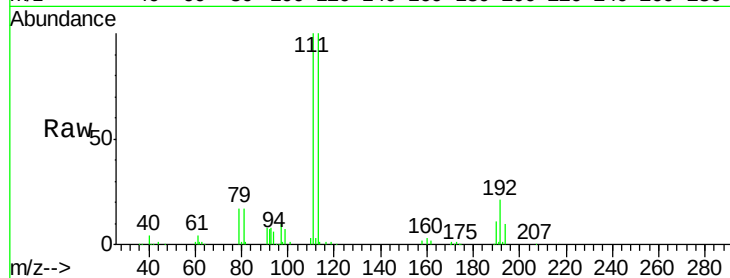
#35
 Dibromofluoromethane
 Concen: 50.324 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.1	123.1
192	22.2	17.2	25.8

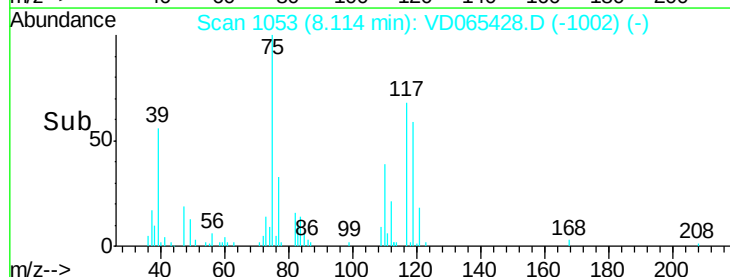
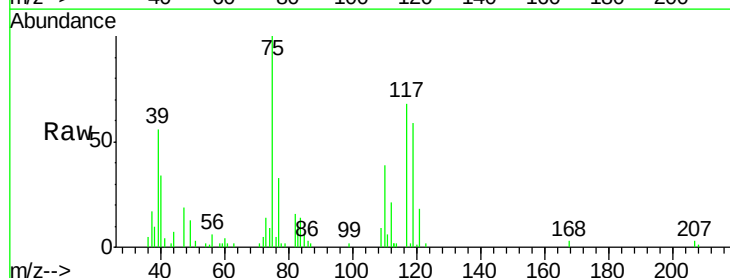
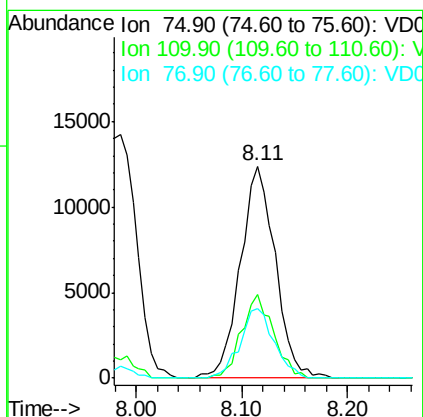
Manual Integrations
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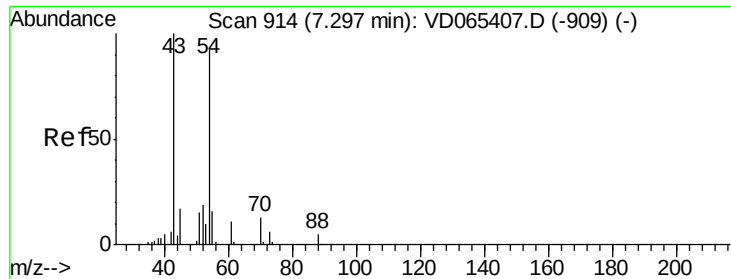
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 3/6/2020 11:17:31 AM



#36
 1,1-Dichloropropene
 Concen: 4.247 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.1
77	31.8	25.2	37.8





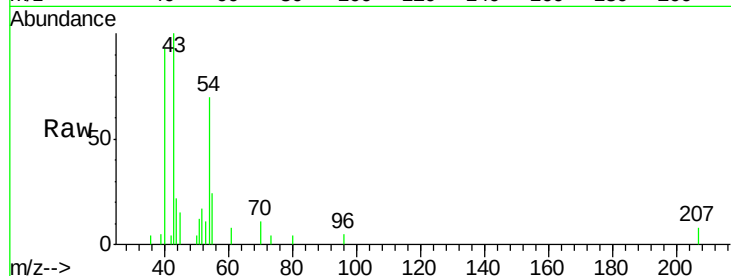
#37
Ethyl Acetate
Concen: 4.397 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

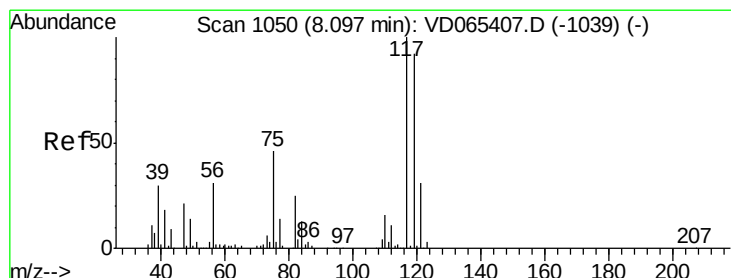
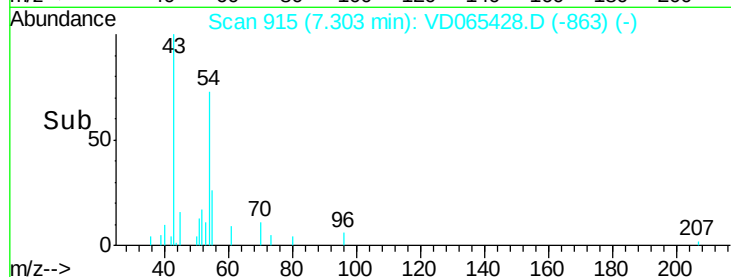
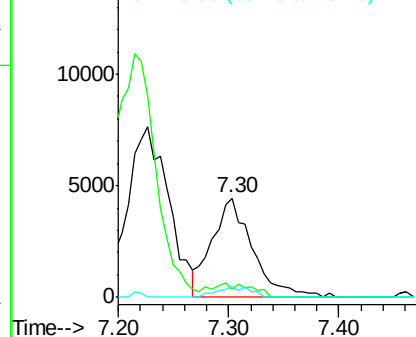
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	8.7	9.0	13.4#

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3/6/2020 11:17:31 AM

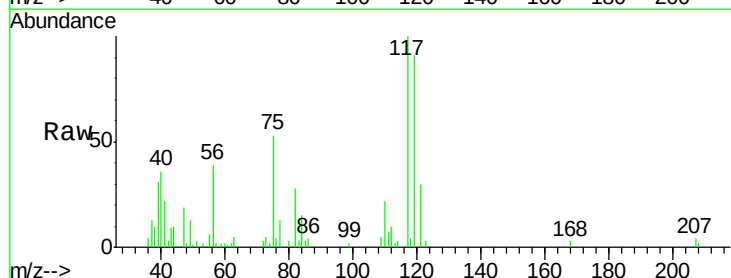


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

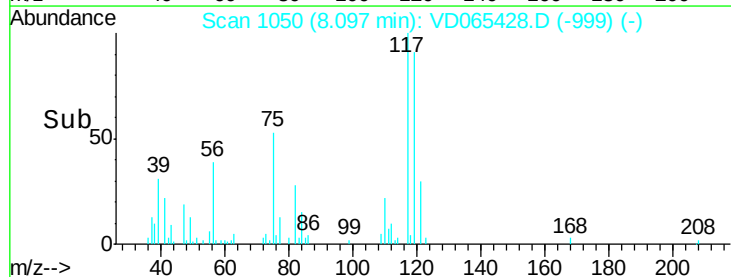
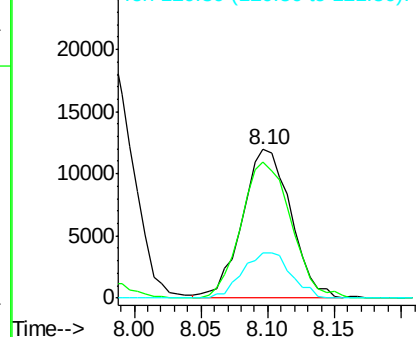


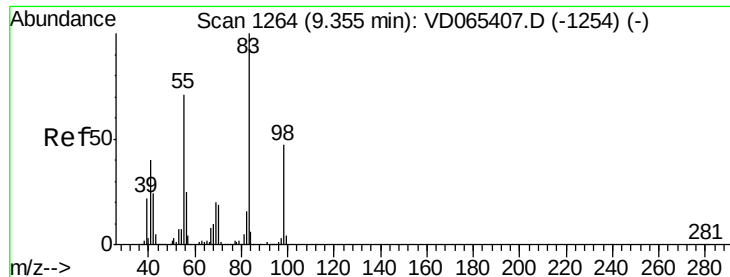
#38
Carbon Tetrachloride
Concen: 4.354 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.4	73.3	109.9
121	30.2	25.0	37.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





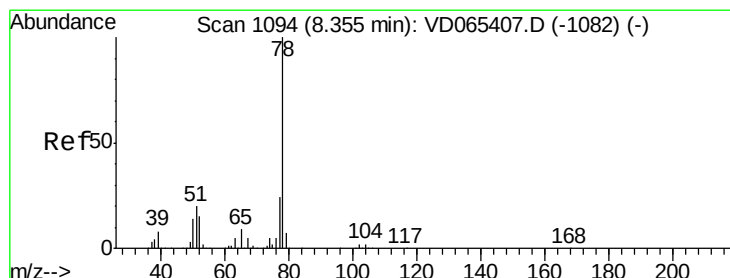
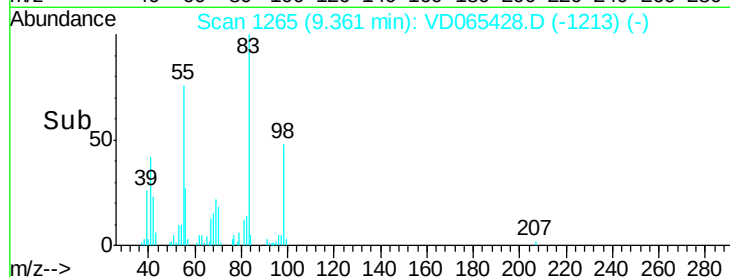
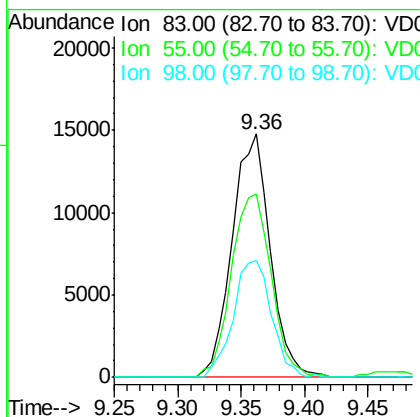
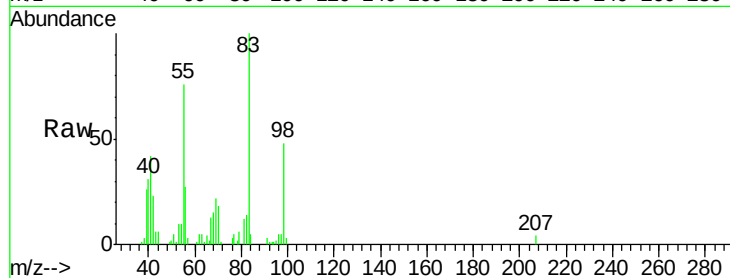
#39
Methylvlcyclohexane
Concen: 3.801 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	83	Resp	30772
Ion Ratio	Lower	Upper	
83	100		
55	75.6	57.1	85.7
98	48.1	37.8	56.8

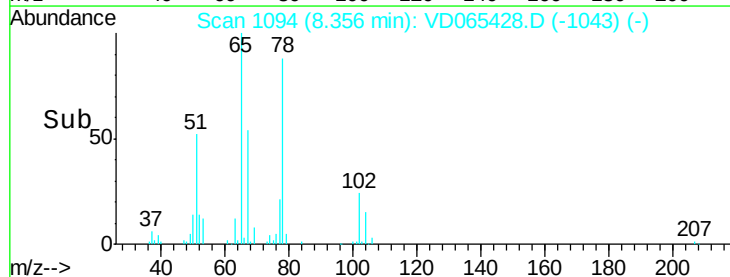
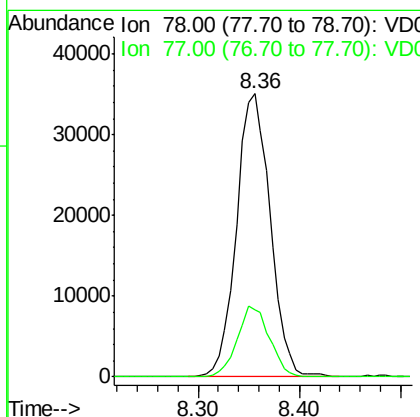
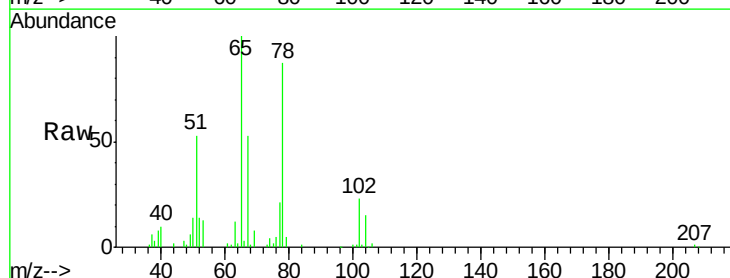
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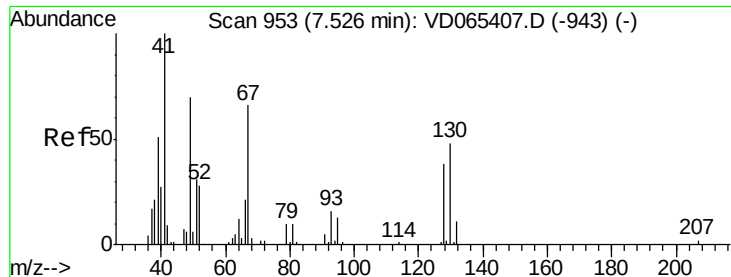
MMDadoda
3/6/2020 11:17:31 AM



#40
Benzene
Concen: 4.327 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	78	Resp	81090
Ion Ratio	Lower	Upper	
78	100		
77	23.9	19.4	29.0





#41

Methacrylonitrile

Concen: 3.006 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

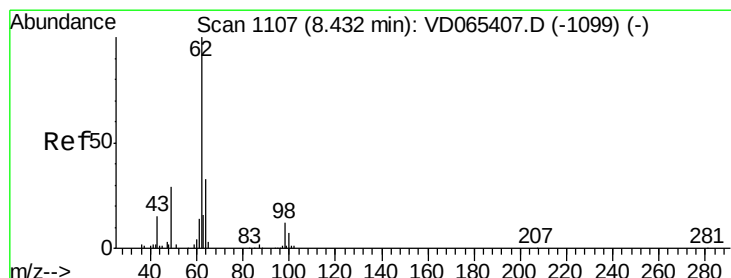
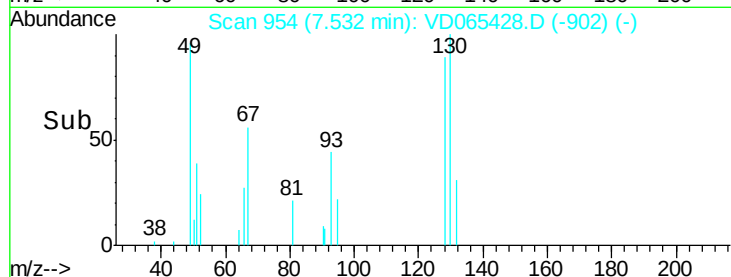
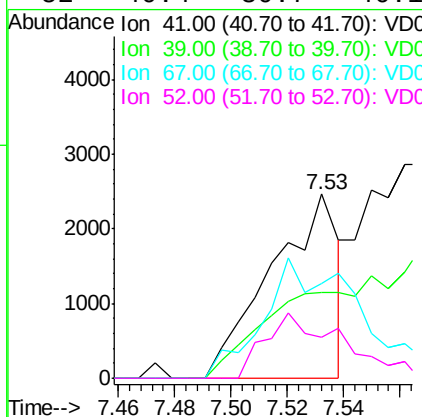
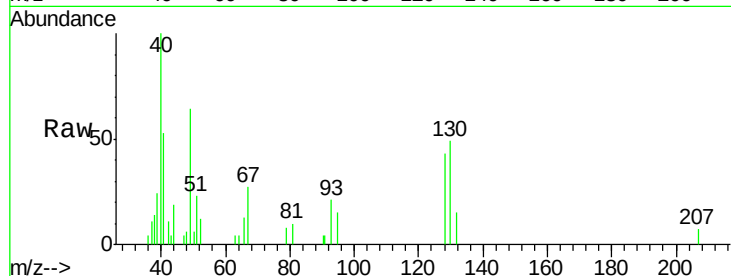
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	41	Resp:	4118
Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.0	82.6#
67	90.6	70.3	105.5
52	40.4	30.7	46.1

Manual Integrations
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3/6/2020 11:17:31 AM



#42

1,2-Dichloroethane

Concen: 4.419 ug/l

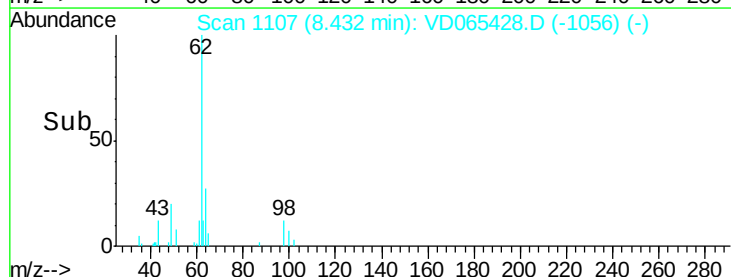
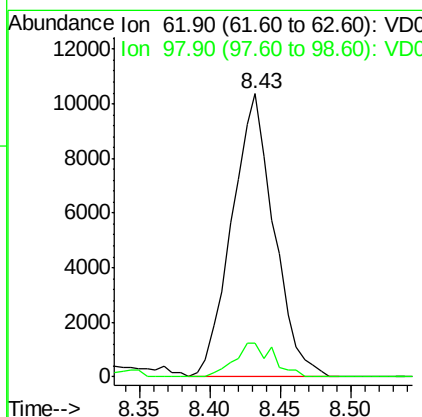
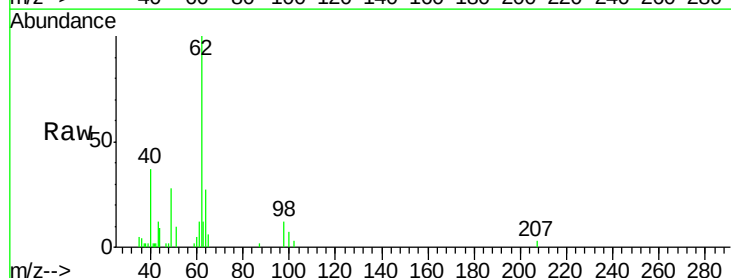
RT: 8.43 min Scan# 1107

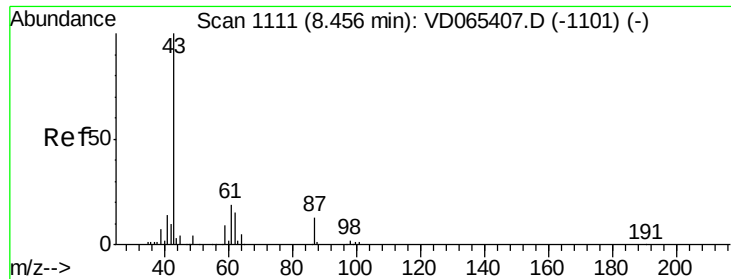
Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	62	Resp:	21625
Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	21.4





#43

Isopropyl Acetate

Concen: 4.059 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

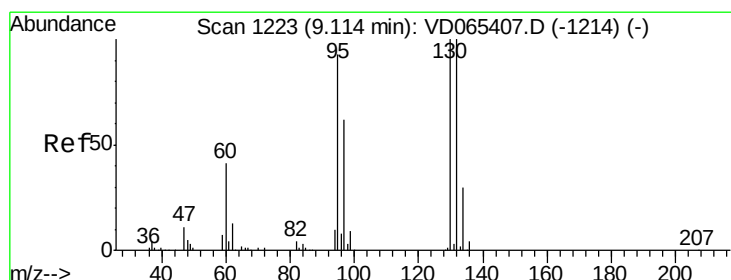
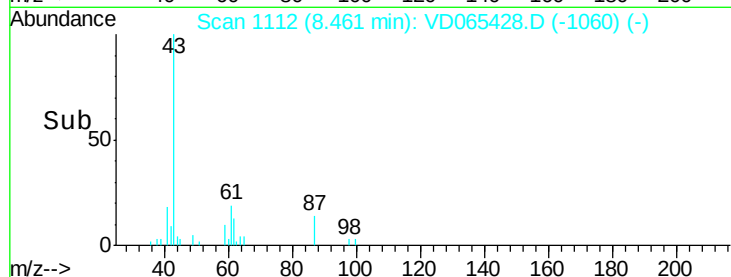
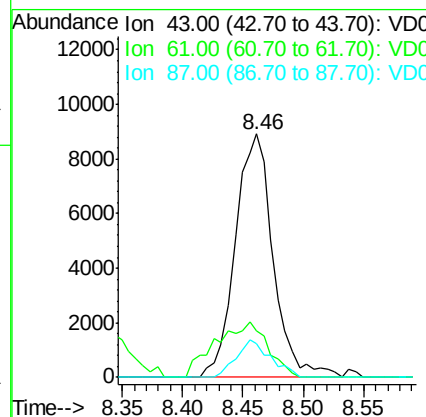
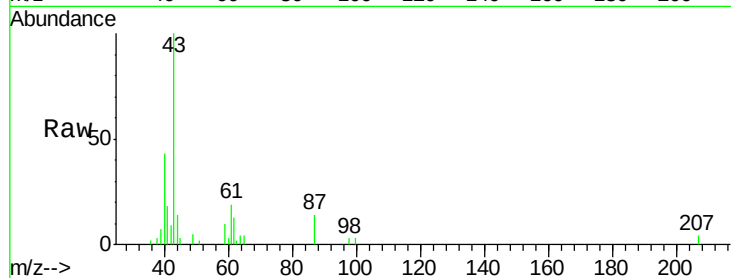
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	19419
Ion	Ratio	Lower	Upper
43	100		
61	31.4	25.0	37.6
87	13.8	11.0	16.4

Manual Integrations
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MMDadoda
3/6/2020 11:17:31 AM



#44

Trichloroethene

Concen: 4.211 ug/l

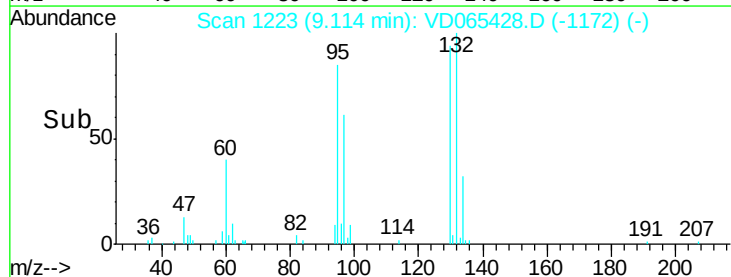
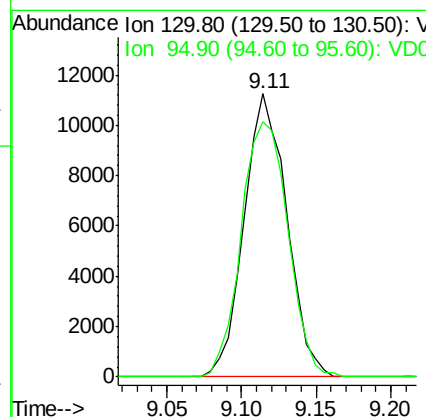
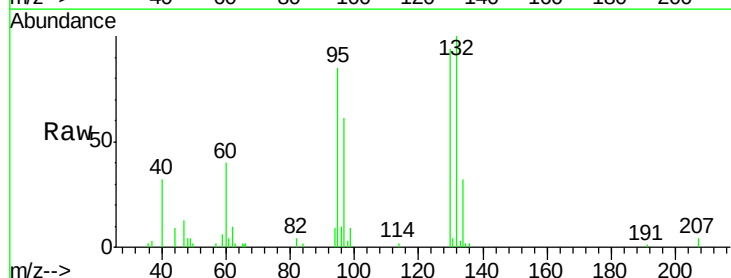
RT: 9.11 min Scan# 1223

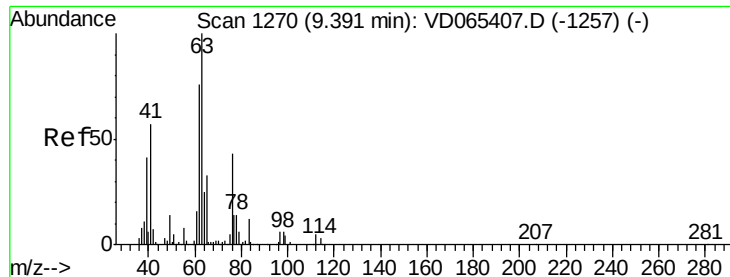
Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	130	Resp:	22285
Ion	Ratio	Lower	Upper
130	100		
95	90.2	0.0	186.0





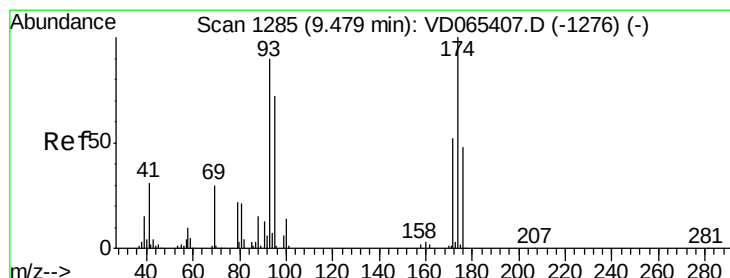
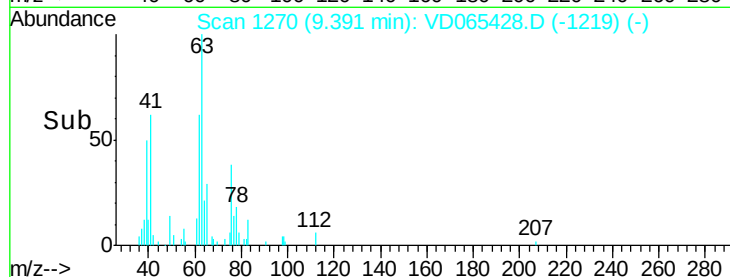
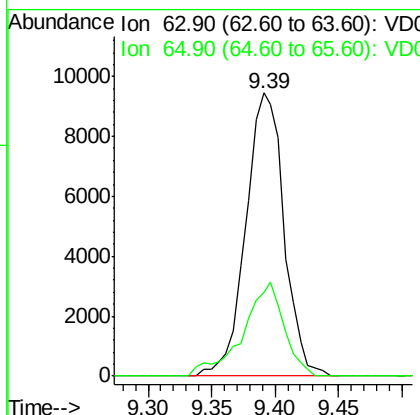
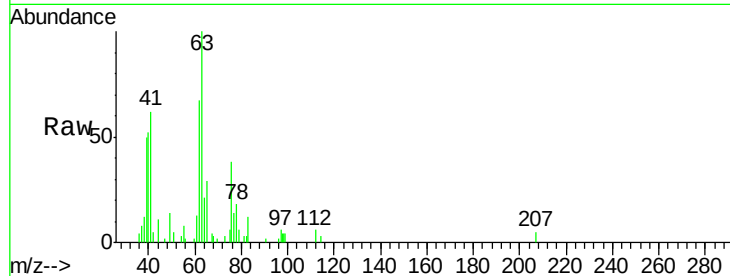
#45
 1,2-Dichloropropane
 Concen: 4.363 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	63	Resp	19808
Ion Ratio	Lower	Upper	
63	100		
65	29.4	26.4	39.6

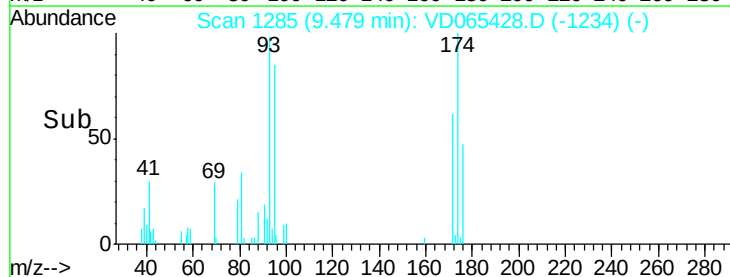
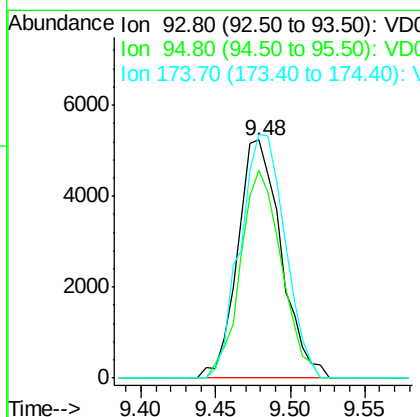
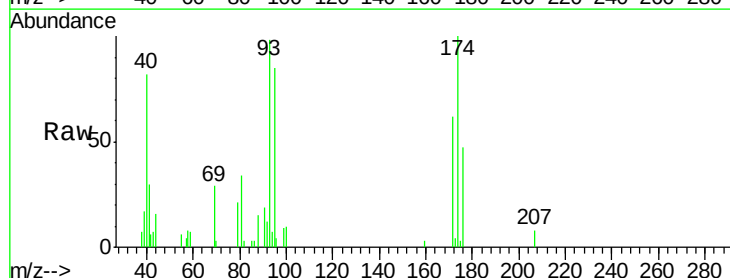
Manual Integrations
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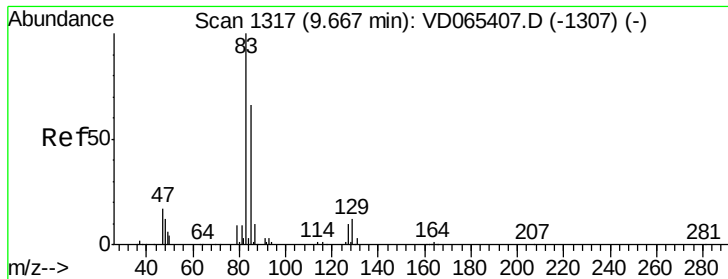
MMDadoda
 3/6/2020 11:17:31 AM



#46
 Dibromomethane
 Concen: 4.477 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	93	Resp	10541
Ion Ratio	Lower	Upper	
93	100		
95	82.5	65.0	97.6
174	105.7	88.3	132.5





#47

Bromodichloromethane

Concen: 4.315 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

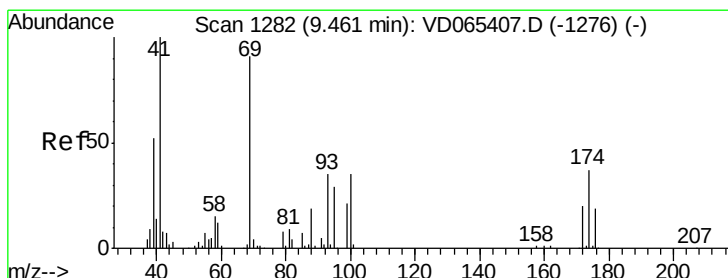
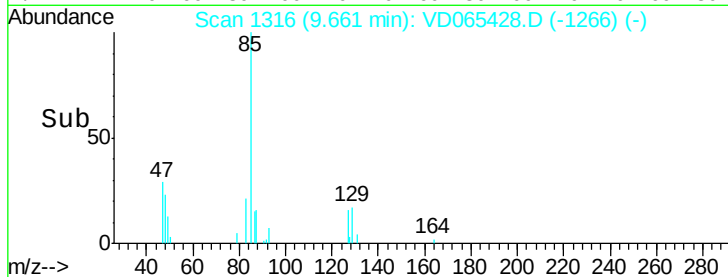
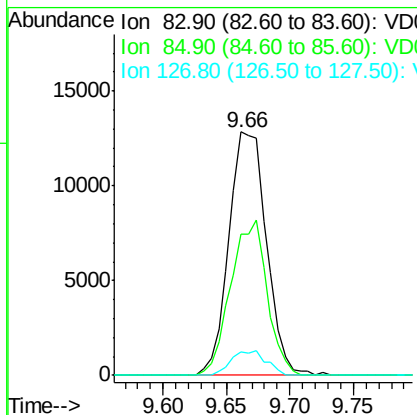
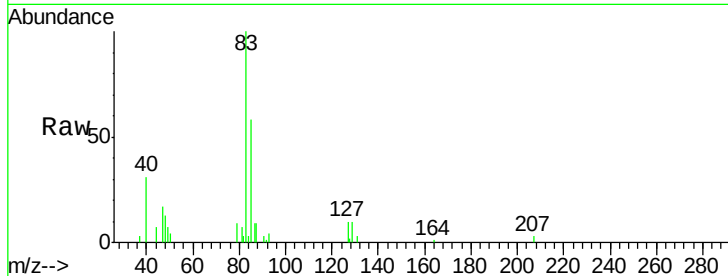
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	26431
Ion	Ratio	Lower	Upper
83	100		
85	57.9	52.8	79.2
127	9.5	8.0	12.0

Manual Integrations
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MMDadoda
3/6/2020 11:17:31 AM



#48

Methyl methacrylate

Concen: 3.611 ug/l

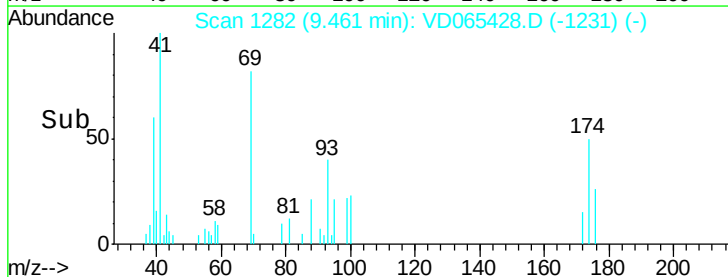
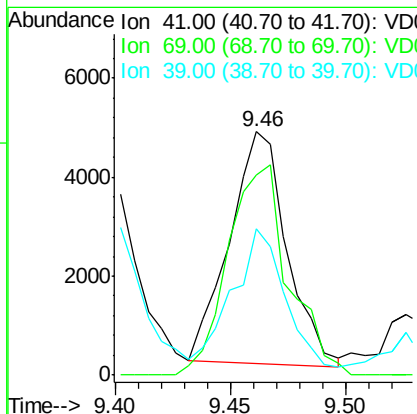
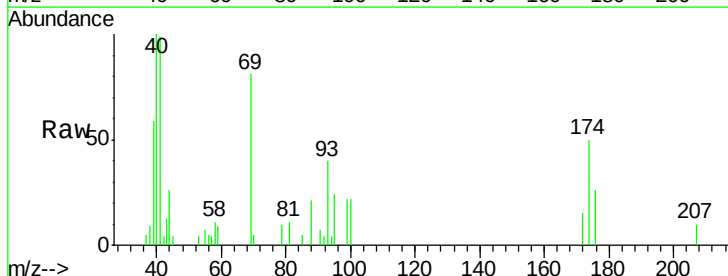
RT: 9.46 min Scan# 1282

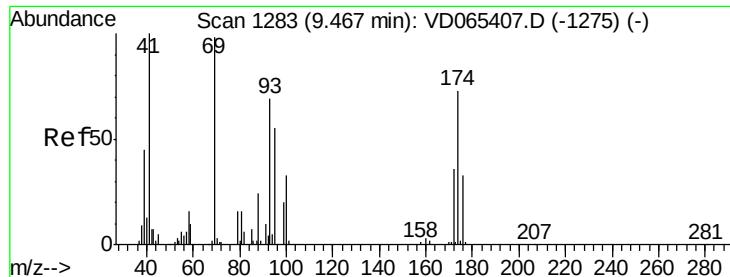
Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	41	Resp:	8126
Ion	Ratio	Lower	Upper
41	100		
69	95.9	72.5	108.7
39	53.6	41.6	62.4





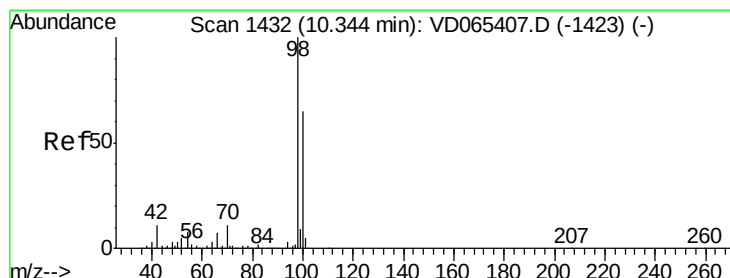
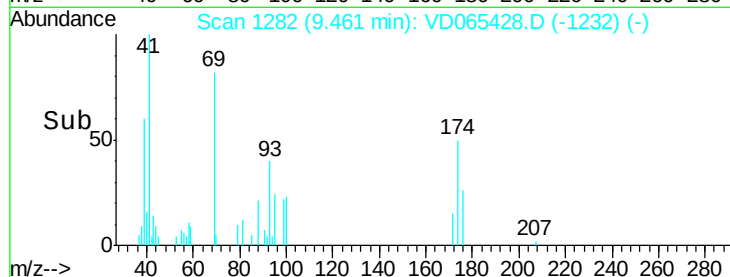
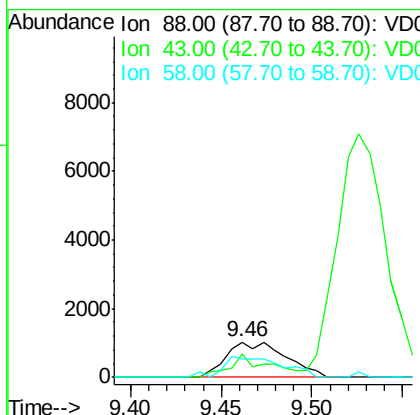
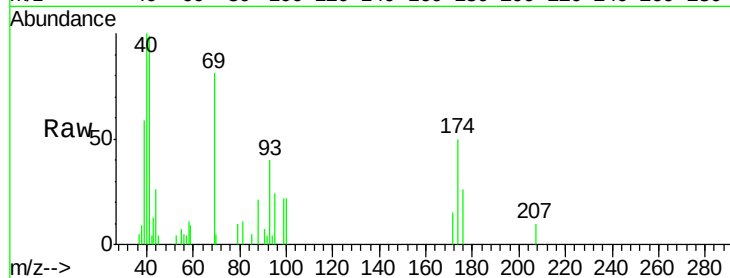
#49
1,4-Dioxane
Concen: 86.728 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.6	24.5	36.7#
58	57.4	54.5	81.7

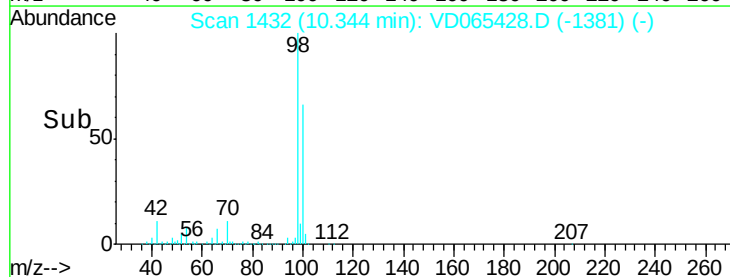
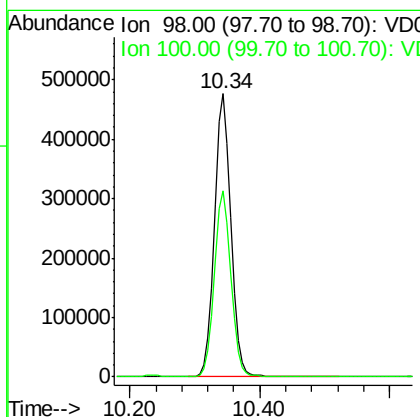
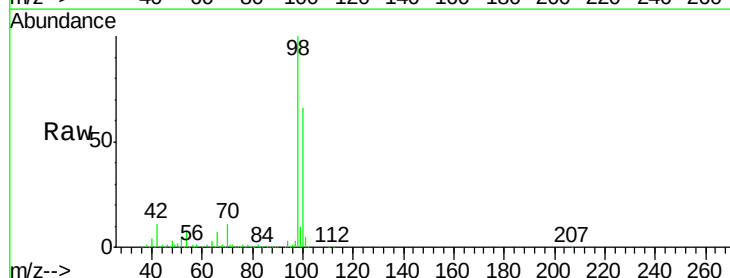
Manual Integrations
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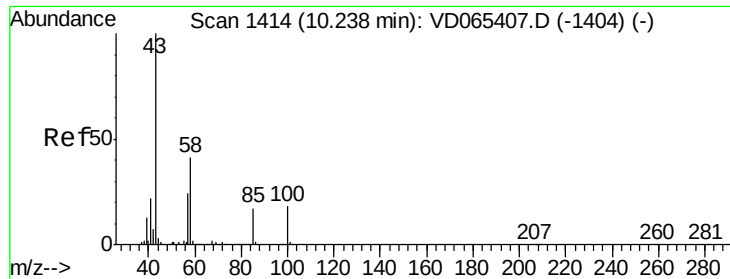
MMDadoda
3/6/2020 11:17:31 AM



#50
Toluene-d8
Concen: 50.295 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.8	79.2





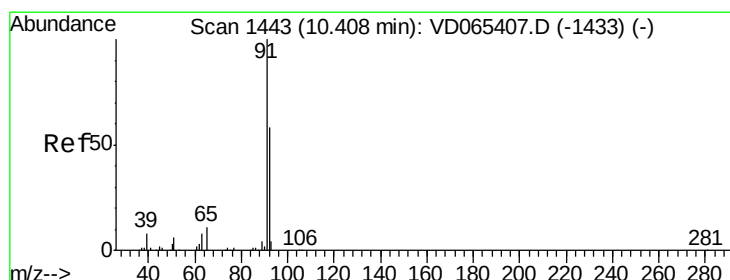
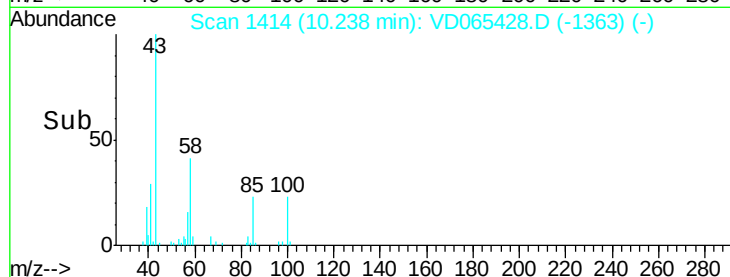
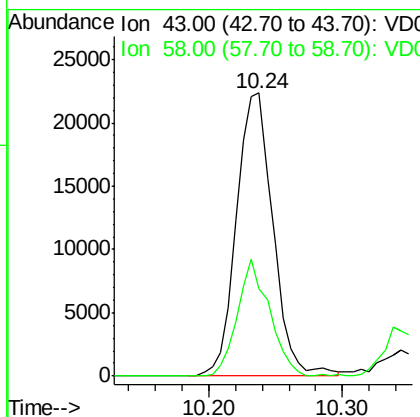
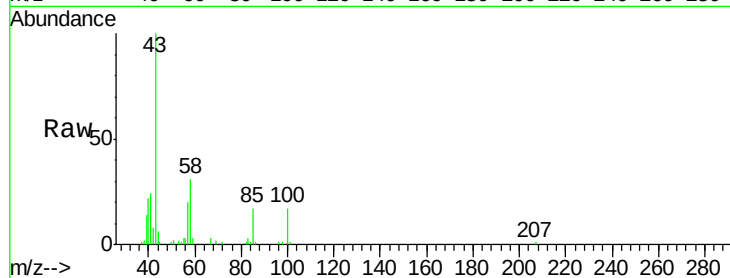
#51
4-Methyl-2-Pentanone
Concen: 17.588 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion: 43 Resp: 42339
Ion Ratio Lower Upper
43 100
58 36.3 31.8 47.6

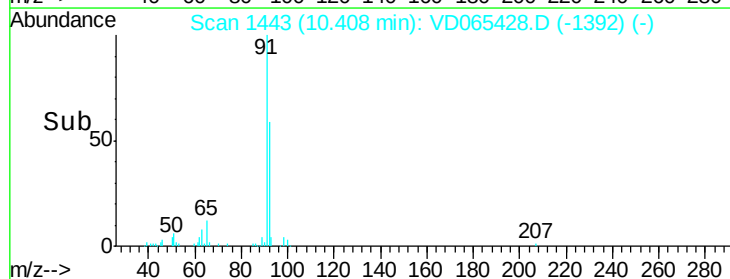
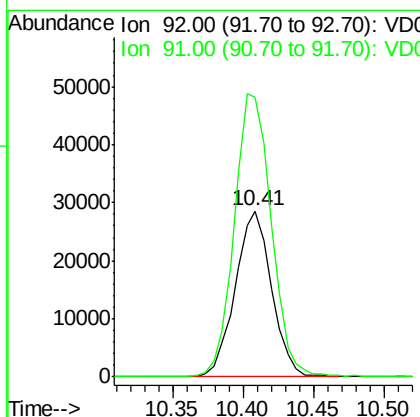
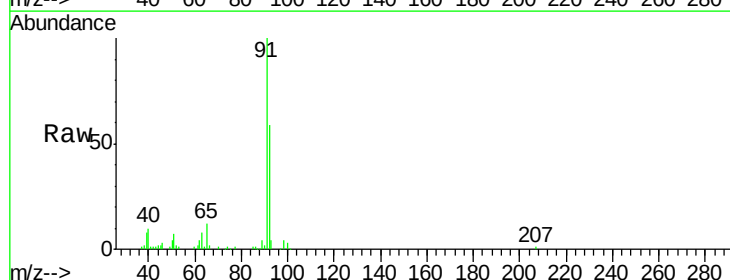
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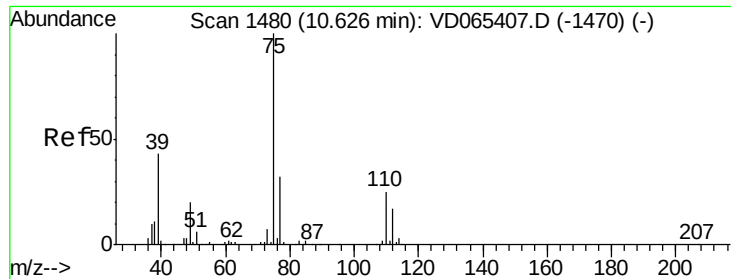
MMDadoda
3/6/2020 11:17:31 AM



#52
Toluene
Concen: 4.343 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion: 92 Resp: 51276
Ion Ratio Lower Upper
92 100
91 174.8 137.8 206.8





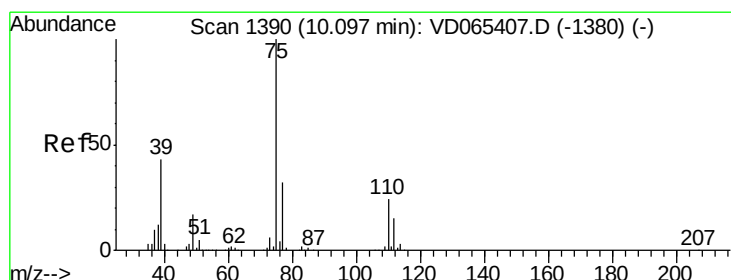
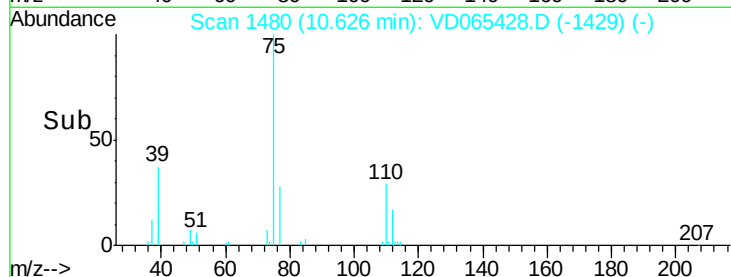
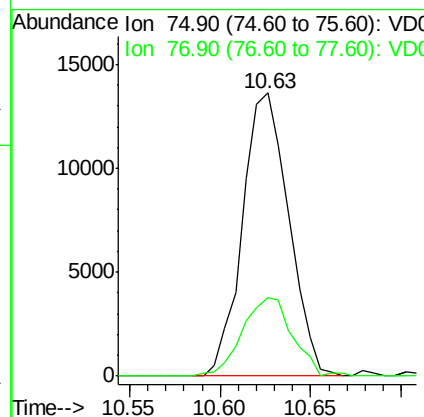
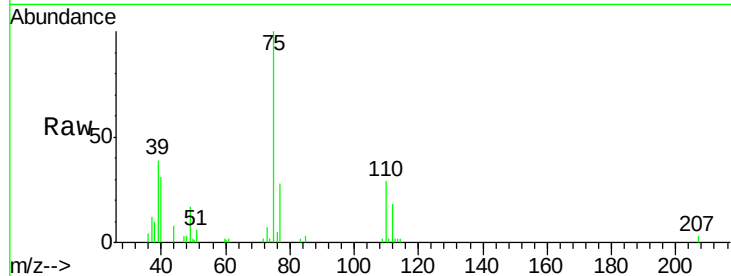
#53
t-1,3-Dichloropropene
Concen: 4.225 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
75	100		
77	28.0	25.4	38.2

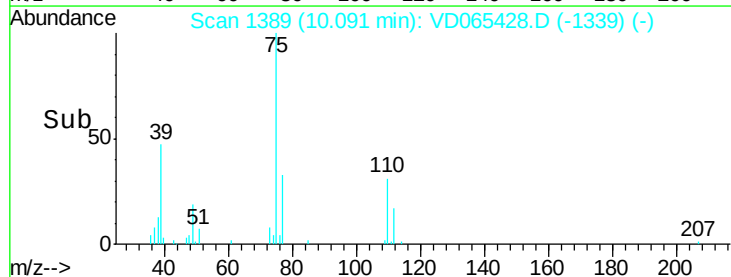
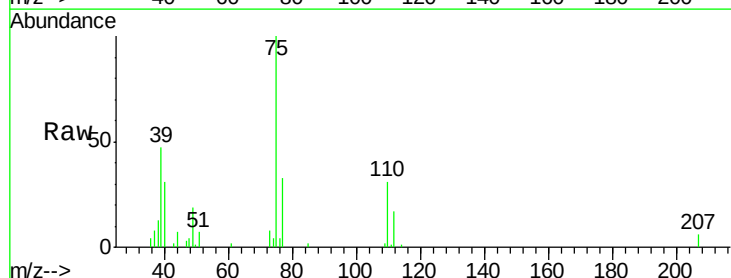
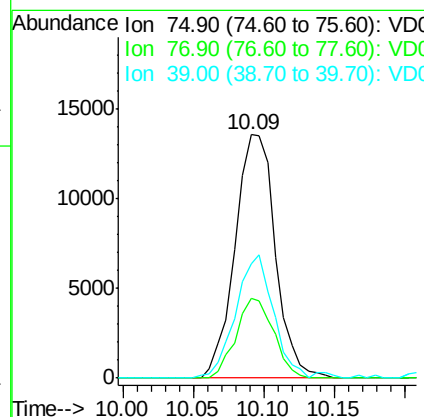
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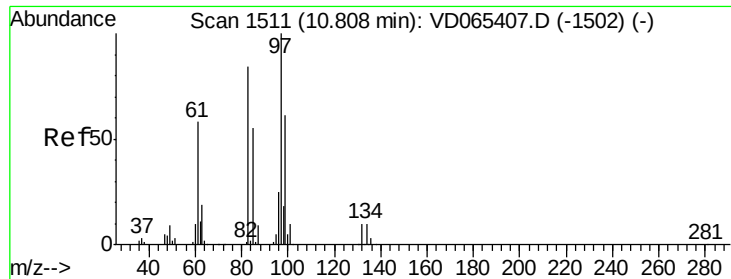
MMDadoda
3/6/2020 11:17:31 AM



#54
cis-1,3-Dichloropropene
Concen: 3.908 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.3	37.9
39	46.9	34.6	52.0





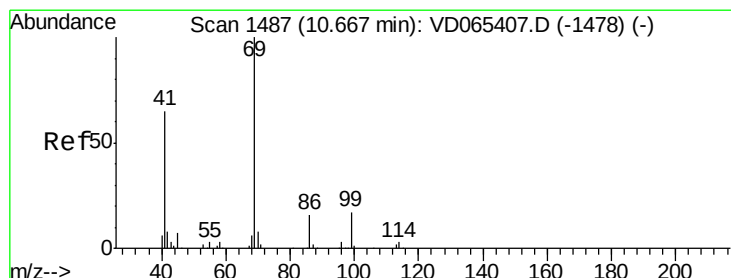
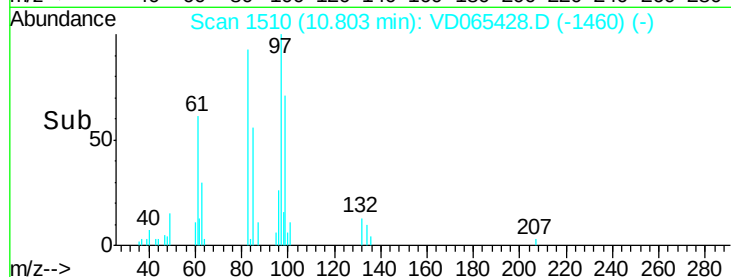
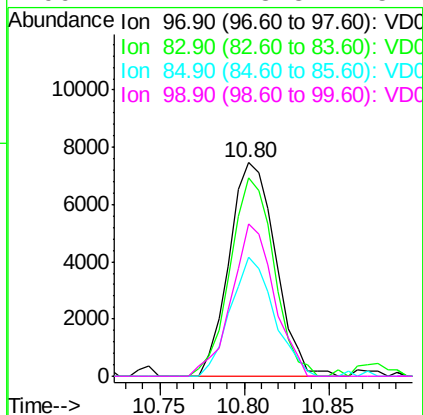
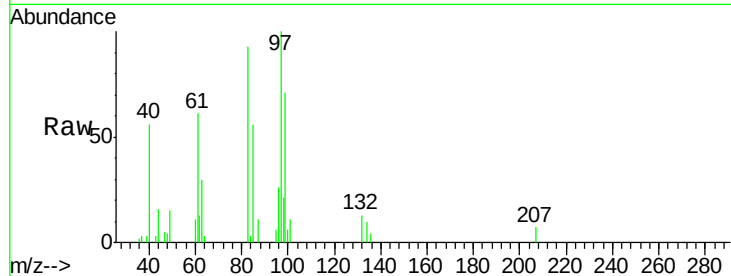
#55
 1,1,2-Trichloroethane
 Concen: 4.278 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.9	67.4	101.0	
85	55.5	43.8	65.8	
99	71.1	48.8	73.2	

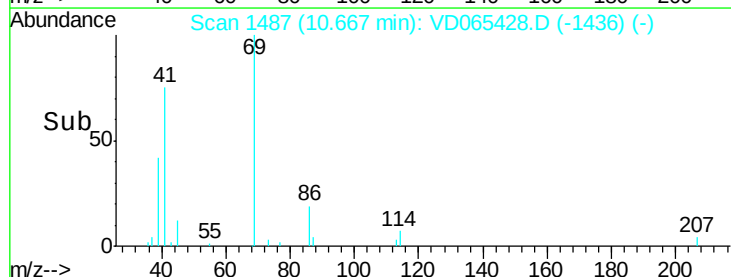
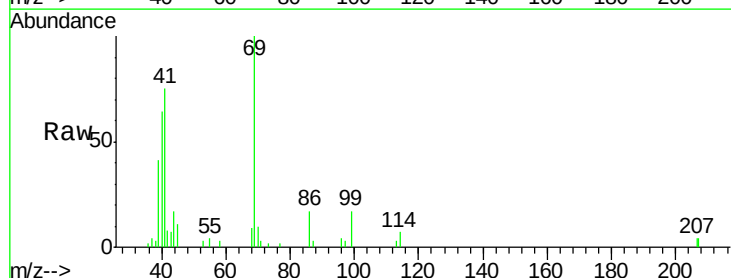
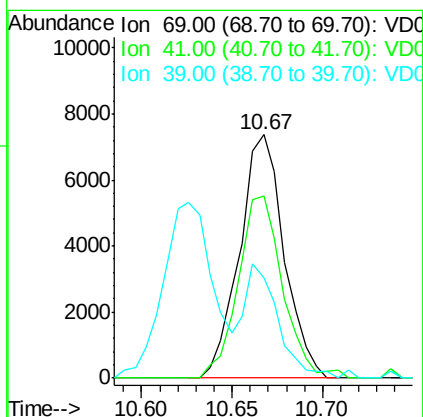
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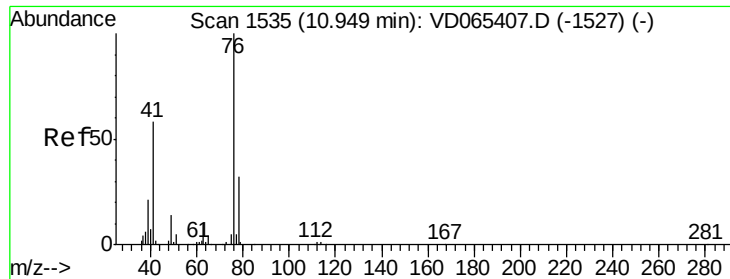
MMDadoda
 3/6/2020 11:17:31 AM



#56
 Ethyl methacrylate
 Concen: 3.343 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	74.9	53.0	79.6	
39	36.2	26.0	39.0	





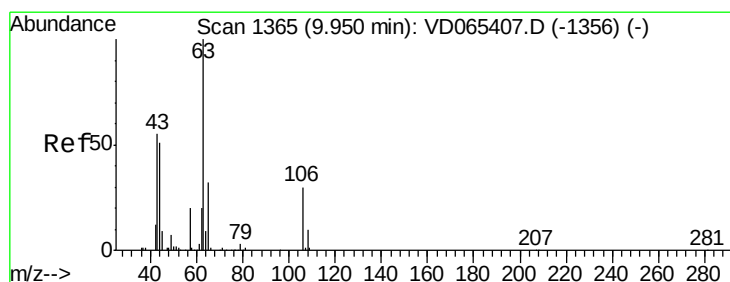
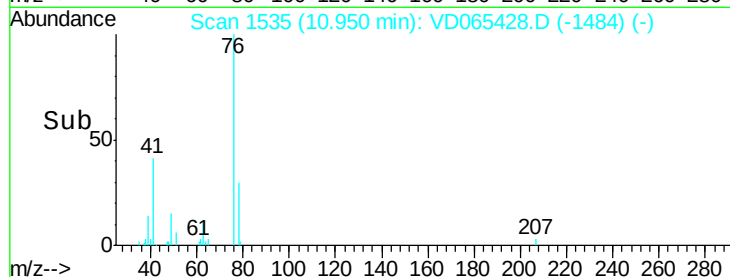
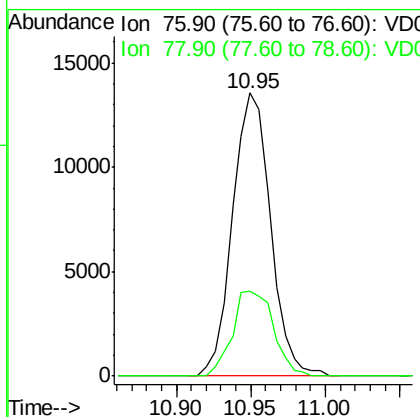
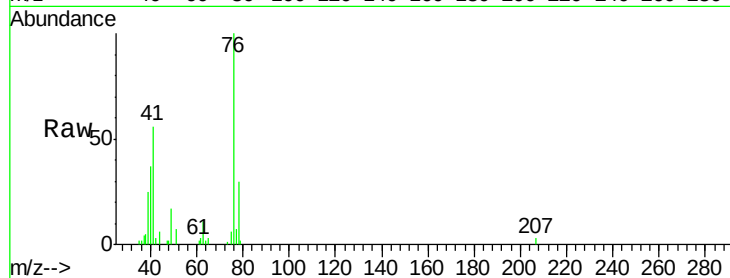
#57
 1,3-Dichloropropane
 Concen: 4.251 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion: 76 Resp: 23986
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.0 39.0

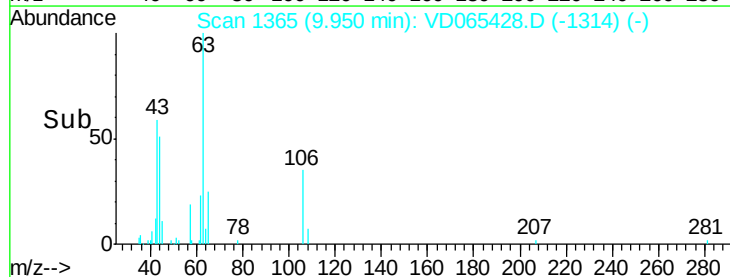
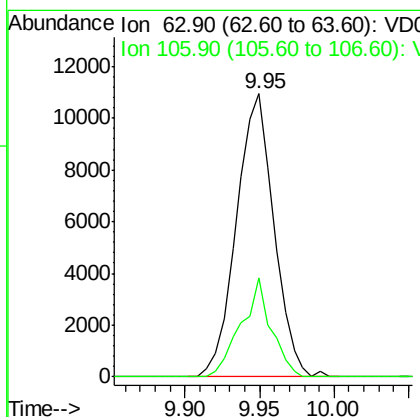
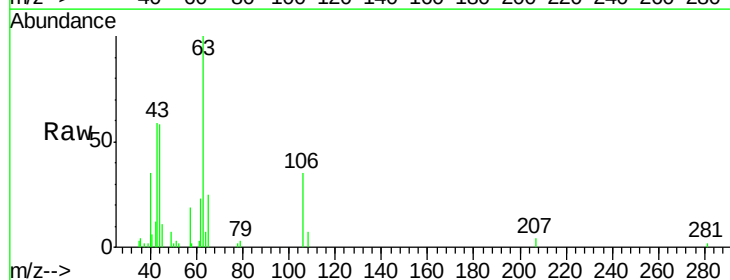
Manual Integrations
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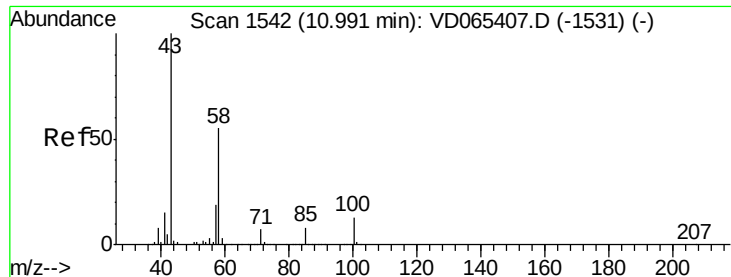
MMDadoda
 3/6/2020 11:17:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 15.764 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion: 63 Resp: 19114
 Ion Ratio Lower Upper
 63 100
 106 28.0 23.3 34.9





#59

2-Hexanone

Concen: 17.941 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 29897

Ion Ratio Lower Upper

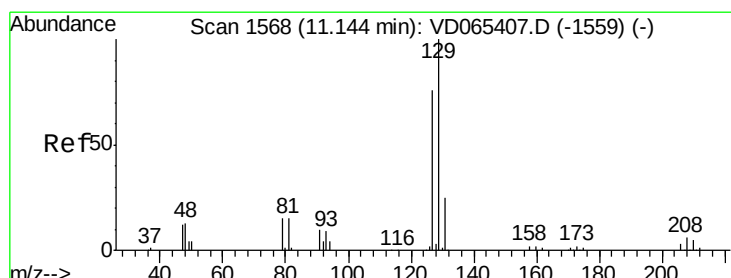
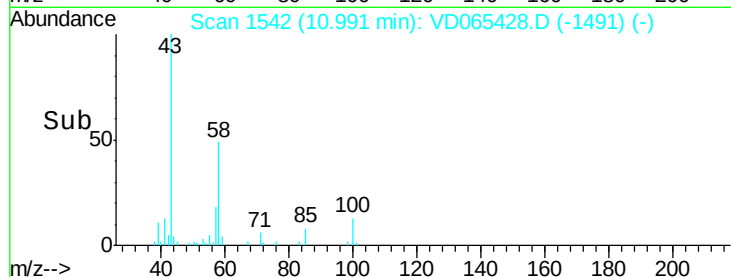
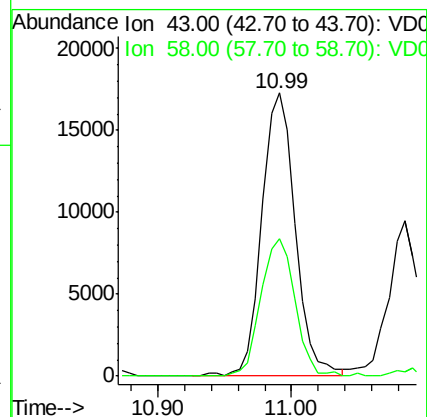
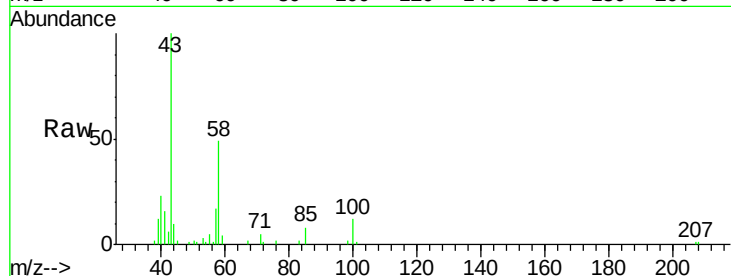
43 100

58 49.7 27.4 82.2

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#60

Dibromochloromethane

Concen: 4.391 ug/l

RT: 11.14 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VD065428.D

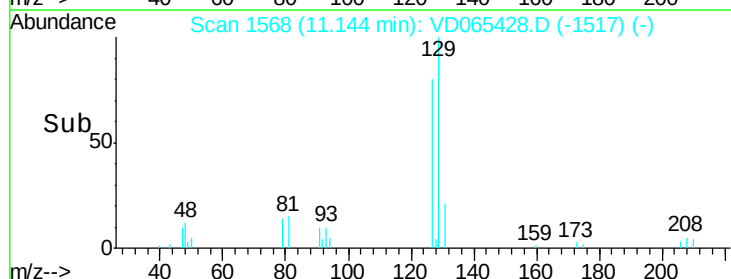
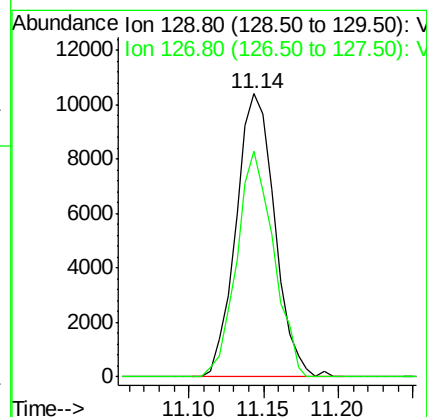
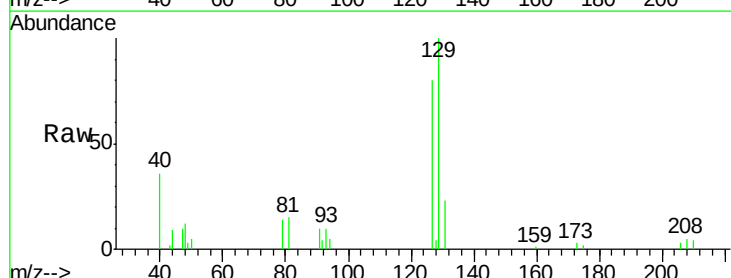
Acq: 05 Mar 2020 13:46

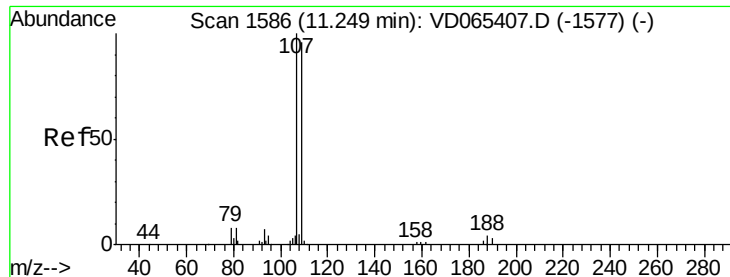
Tgt Ion: 129 Resp: 18771

Ion Ratio Lower Upper

129 100

127 75.8 38.5 115.5





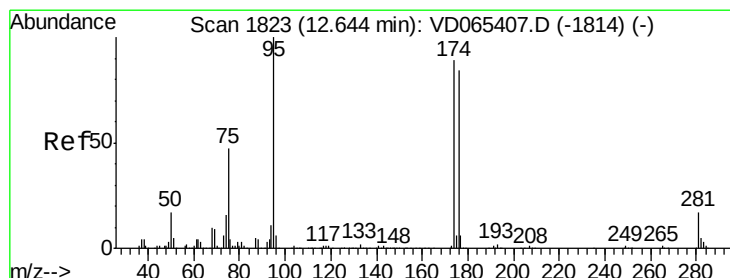
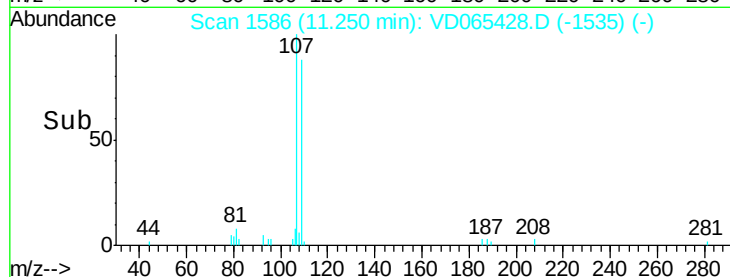
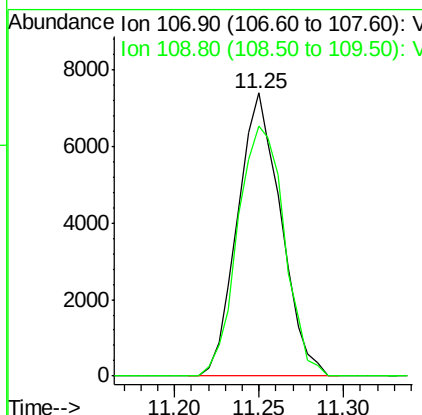
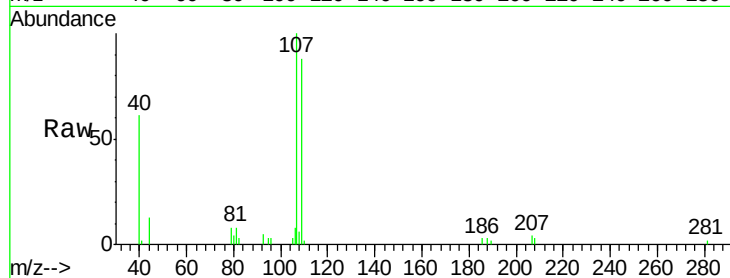
#61
 1,2-Dibromoethane
 Concen: 4.153 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion: 107 Resp: 13213
 Ion Ratio Lower Upper
 107 100
 109 94.8 76.8 115.2

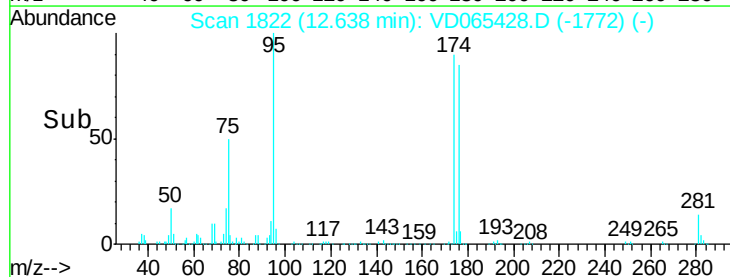
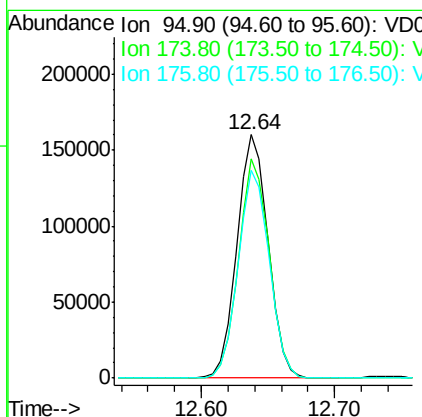
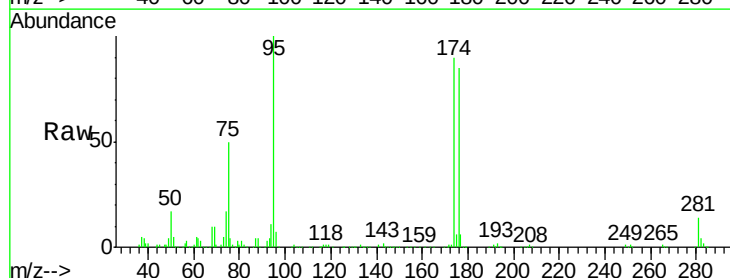
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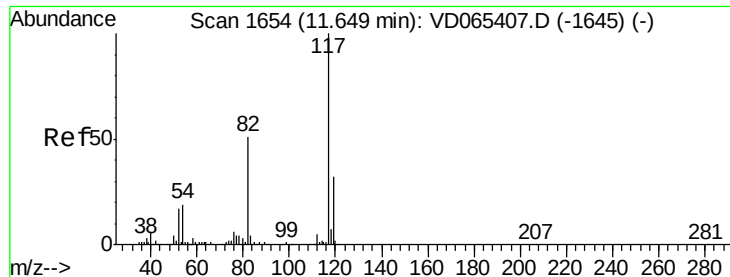
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 50.414 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion: 95 Resp: 258186
 Ion Ratio Lower Upper
 95 100
 174 88.8 0.0 176.8
 176 85.3 0.0 171.4





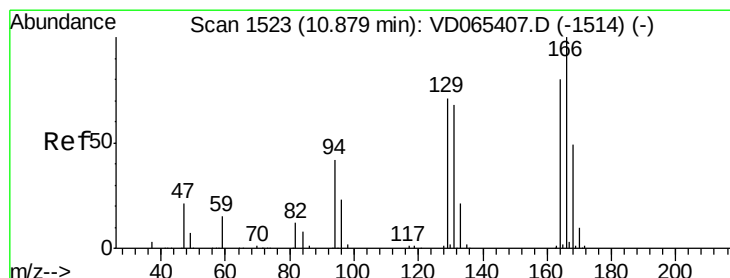
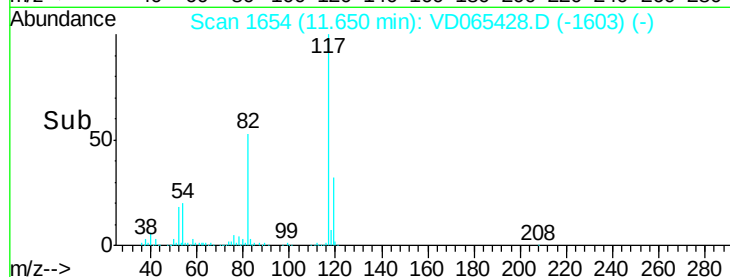
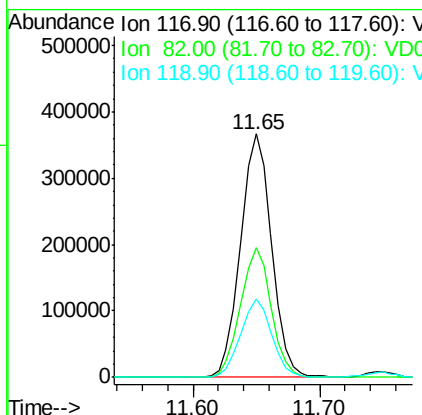
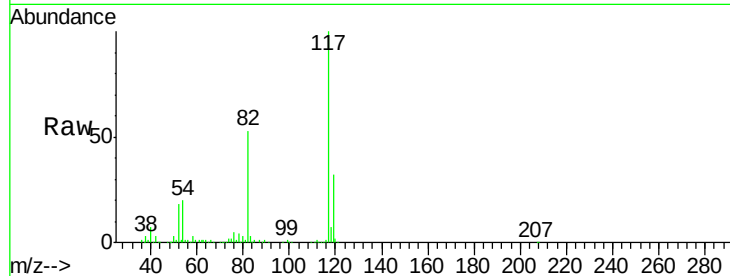
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	624557		
82	53.5		40.6	60.8
119	32.4		25.4	38.2

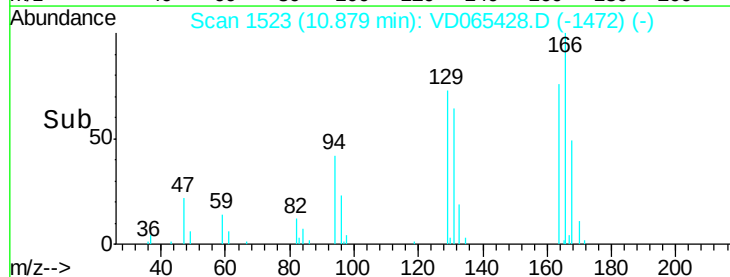
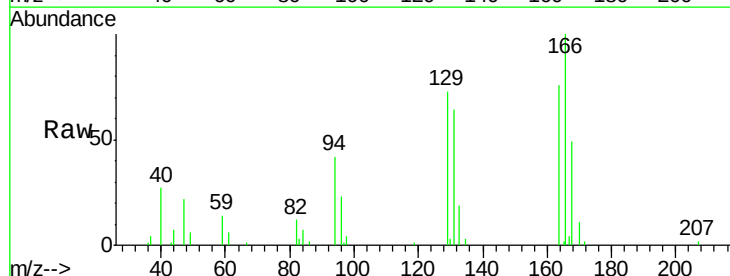
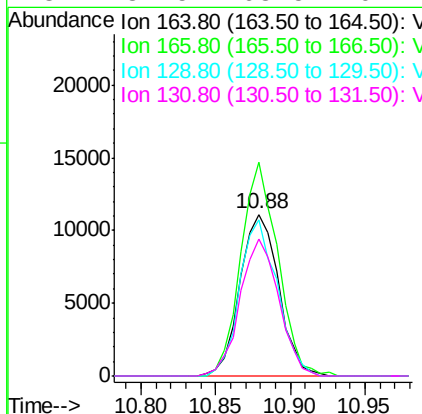
Manual Integrations
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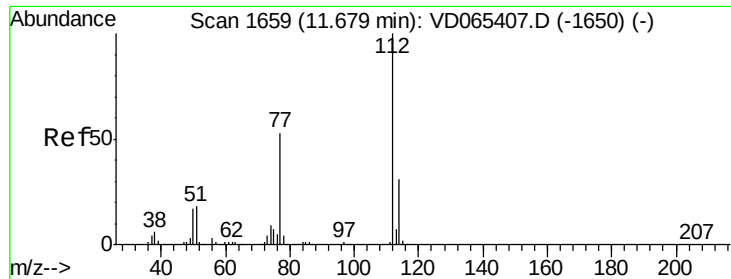
MMDadoda
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#64
Tetrachloroethene
Concen: 4.461 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	19963		
166	132.2		100.5	150.7
129	96.8		71.5	107.3
131	84.5		68.5	102.7





#65

Chlorobenzene

Concen: 4.363 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 53922

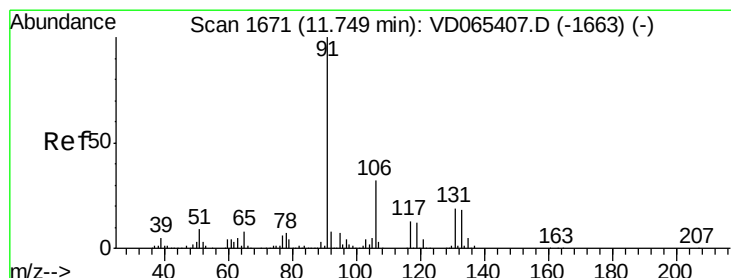
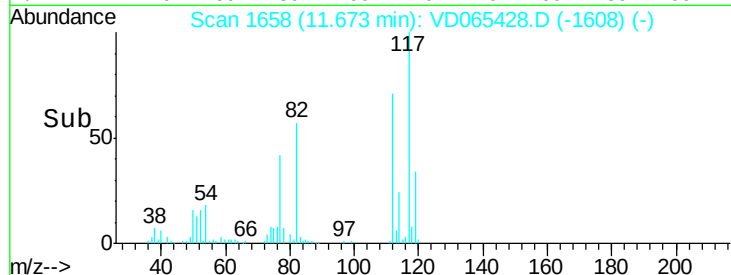
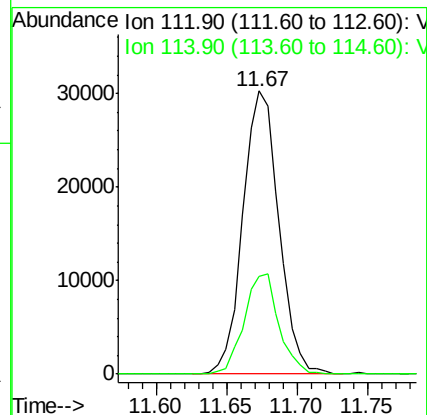
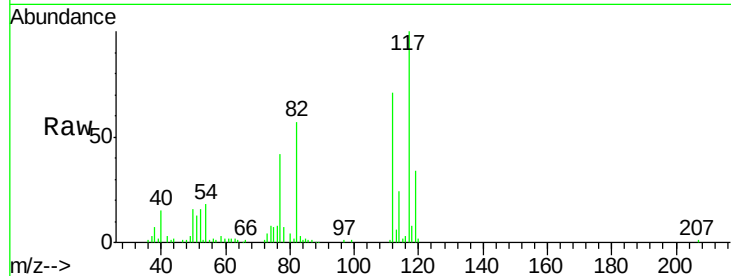
Ion Ratio Lower Upper

112 100

114 34.7 24.4 36.6

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 4.390 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

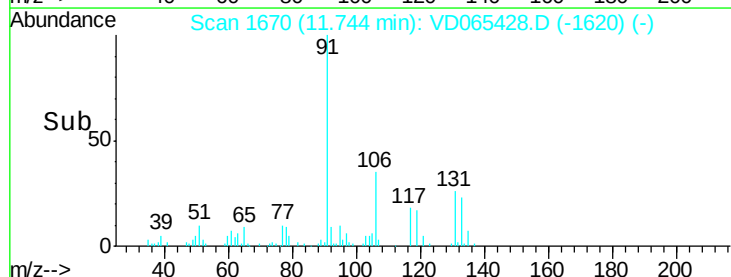
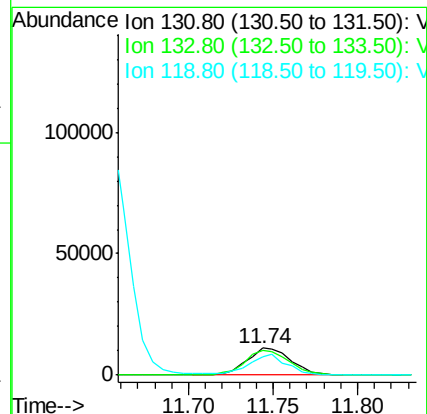
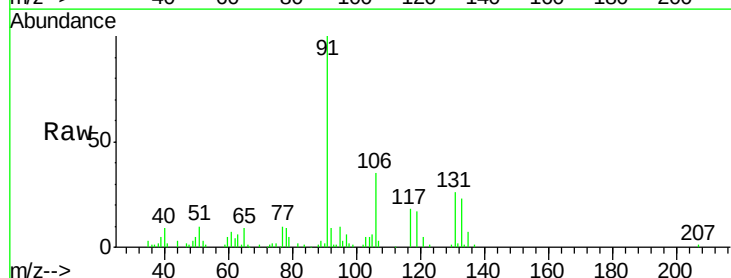
Tgt Ion:131 Resp: 19761

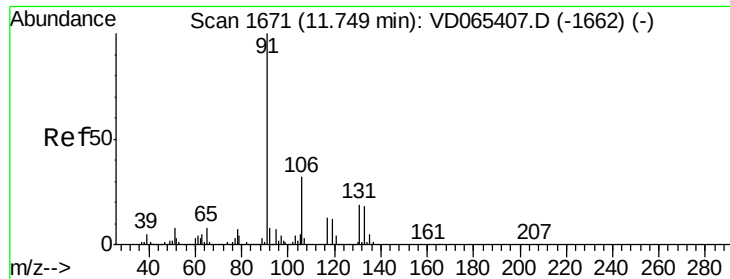
Ion Ratio Lower Upper

131 100

133 93.2 49.2 147.6

119 69.1 33.3 99.8





#67

Ethyl Benzene

Concen: 3.861 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 82459

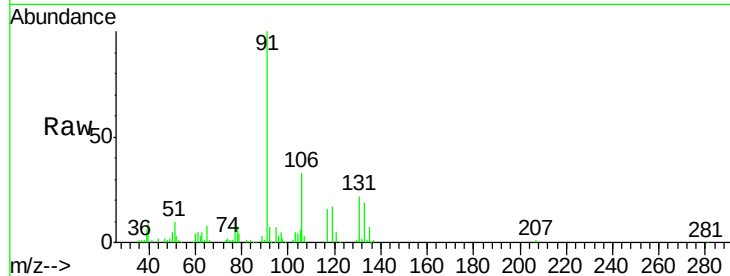
Ion Ratio Lower Upper

91 100

106 33.1 25.2 37.8

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VD065407.D (-1662) (-)

Ion 106.00 (105.70 to 106.70): VD065407.D (-1662) (-)

60000

50000

40000

30000

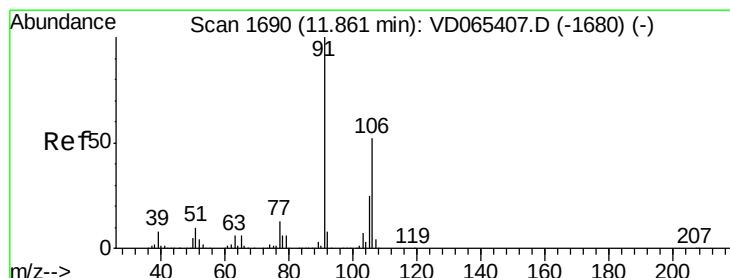
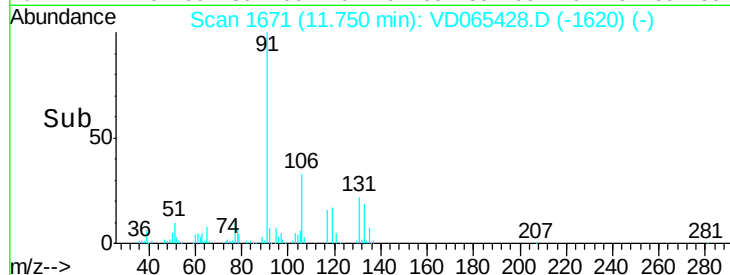
20000

10000

0

11.70 11.75 11.80

Time-->



#68

m/p-Xylenes

Concen: 7.521 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VD065428.D

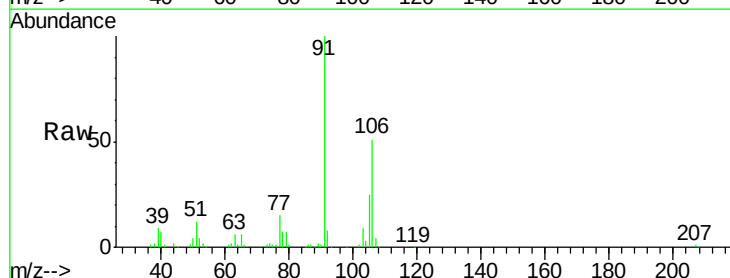
Acq: 05 Mar 2020 13:46

Tgt Ion: 106 Resp: 61935

Ion Ratio Lower Upper

106 100

91 199.6 155.9 233.9



Abundance Ion 106.00 (105.70 to 106.70): VD065407.D (-1680) (-)

Ion 91.00 (90.70 to 91.70): VD065407.D (-1680) (-)

60000

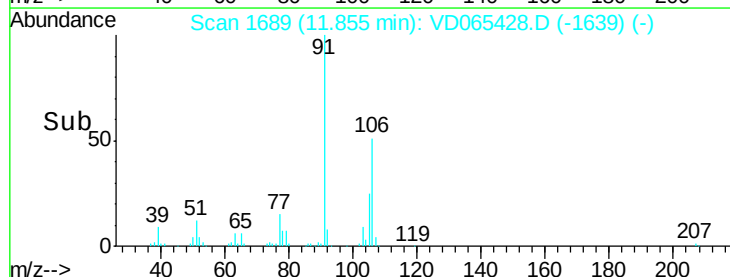
40000

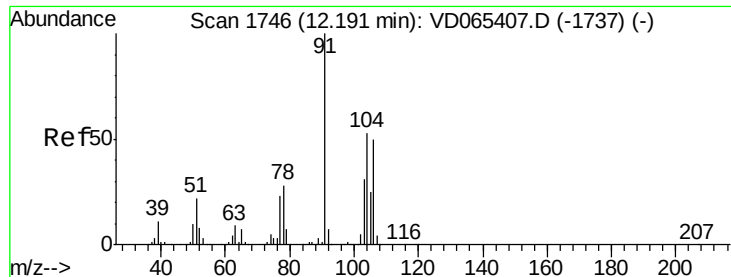
20000

0

11.80 11.86 11.90

Time-->





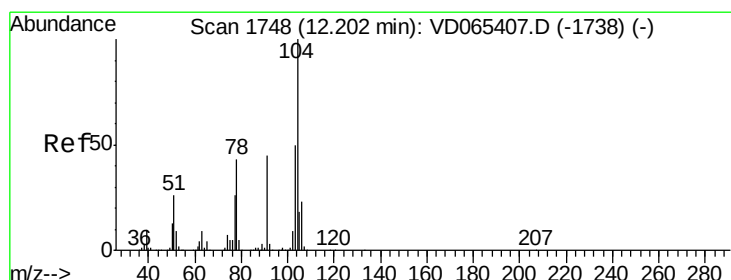
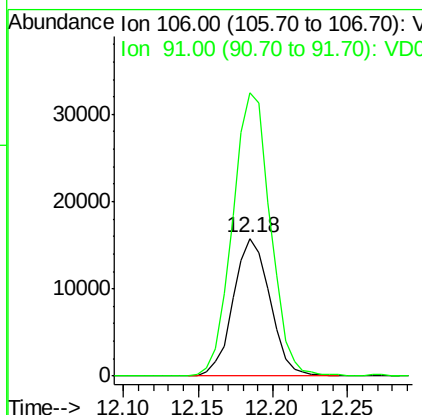
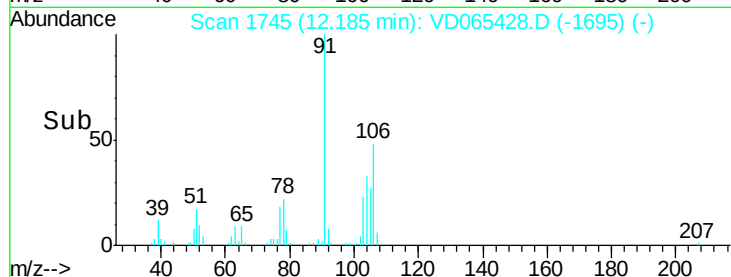
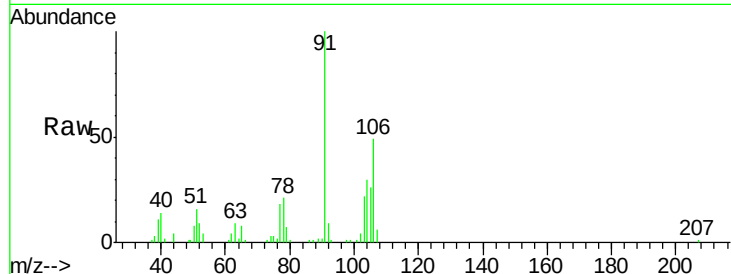
#69
o-Xylene
Concen: 3.747 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion:106 Resp: 27143
Ion Ratio Lower Upper
106 100
91 211.2 103.5 310.3

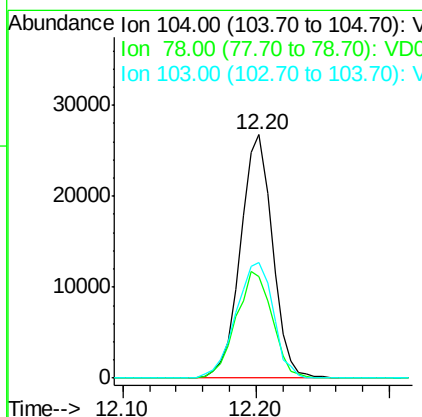
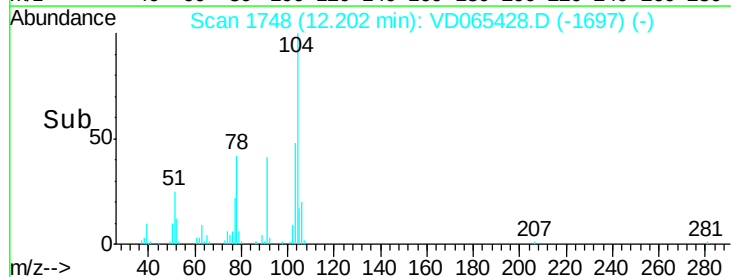
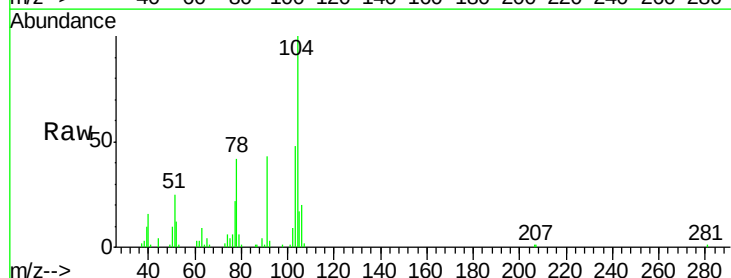
Manual Integrations
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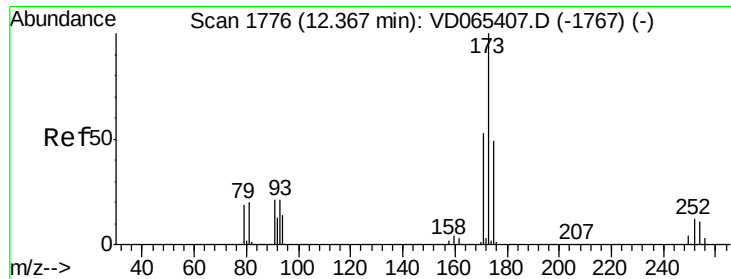
MMDadoda
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#70
Styrene
Concen: 3.490 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion:104 Resp: 44496
Ion Ratio Lower Upper
104 100
78 49.4 37.7 56.5
103 55.4 43.6 65.4





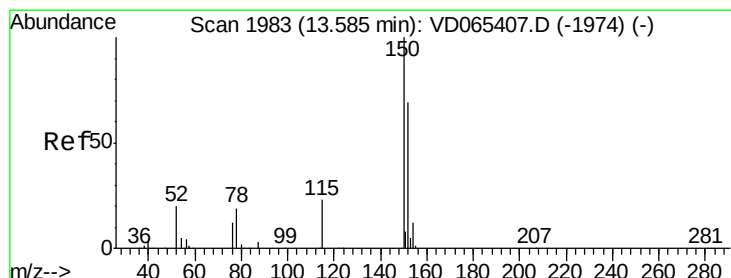
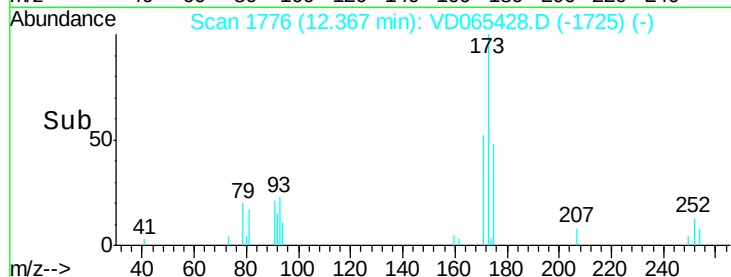
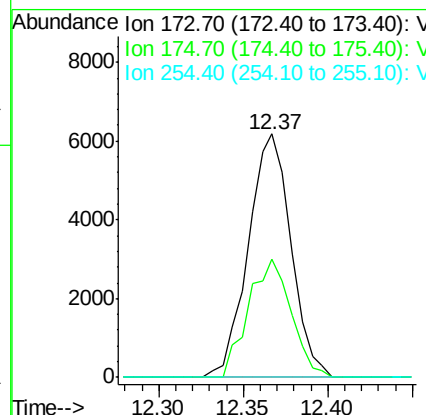
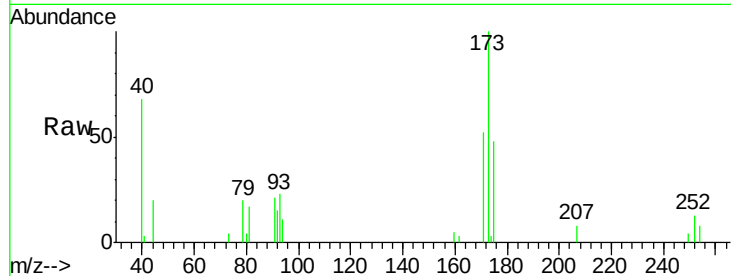
#71
Bromoform
Concen: 4.285 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	73.0
254	0.0	0.1	0.1#

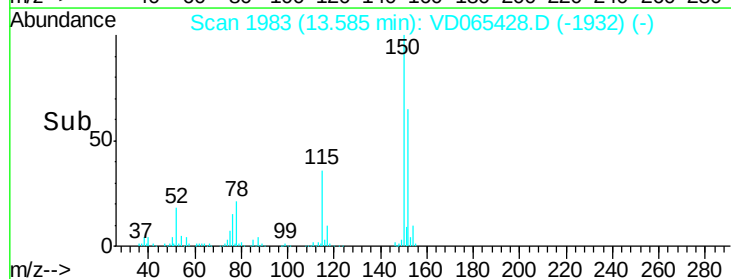
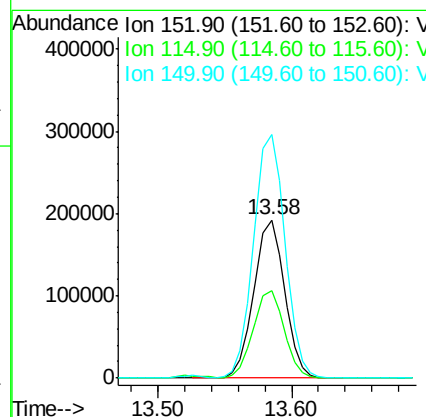
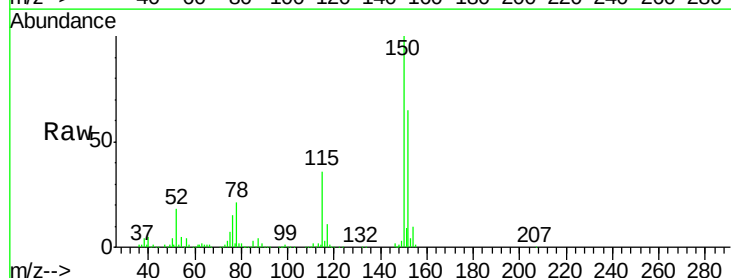
Manual Integrations
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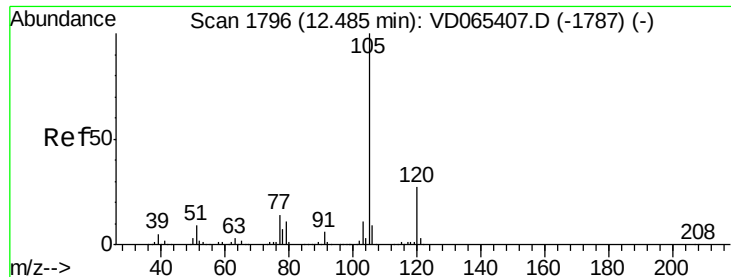
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.6	82.8
150	157.7	0.0	345.0





#73

Isopropylbenzene

Concen: 3.604 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 105 Resp: 72429

Ion Ratio Lower Upper

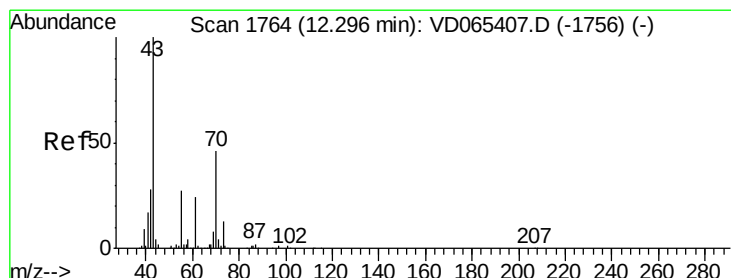
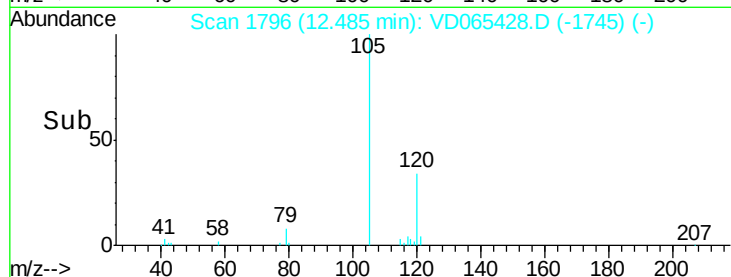
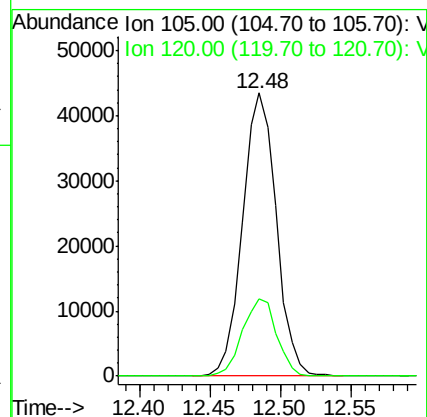
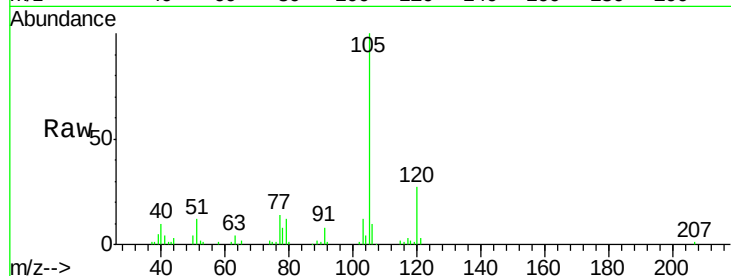
105 100

120 27.7 13.5 40.4

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#74

N-ethyl acetate

Concen: 3.560 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion: 43 Resp: 14644

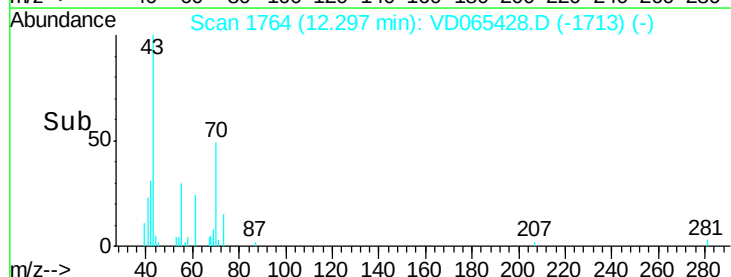
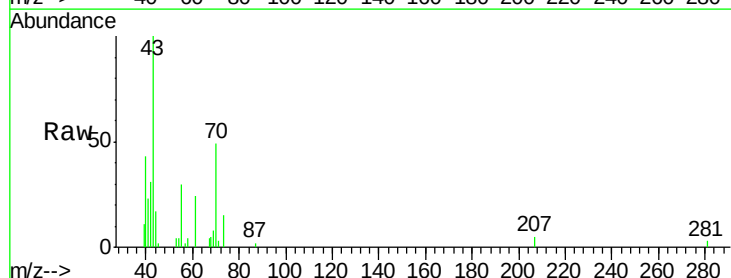
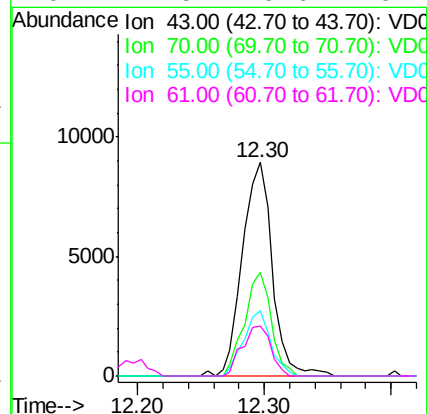
Ion Ratio Lower Upper

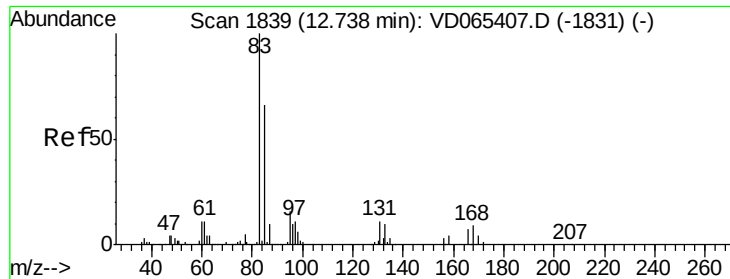
43 100

70 43.2 36.1 54.1

55 27.5 21.6 32.4

61 22.5 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 4.265 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

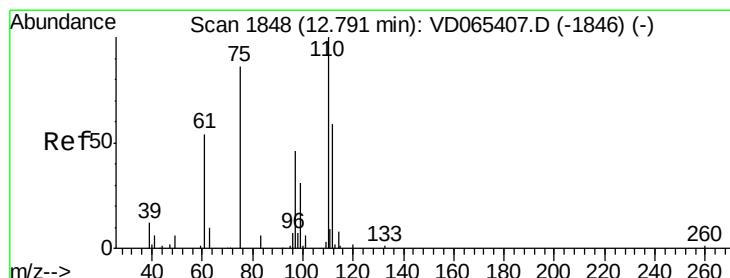
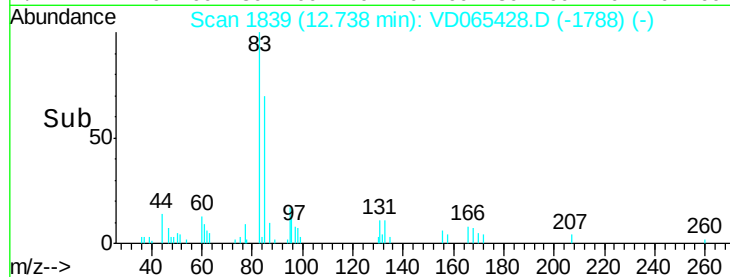
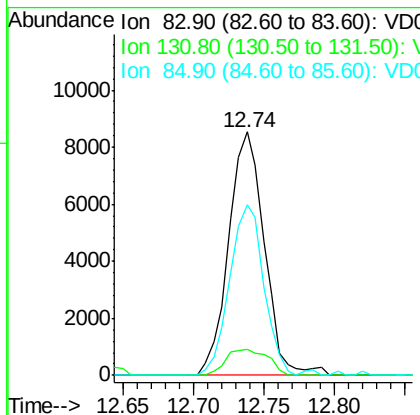
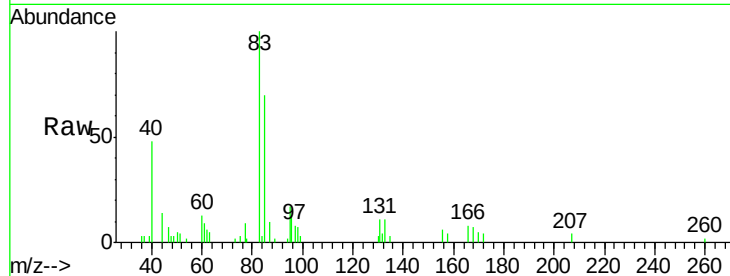
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	15066
Ion Ratio	Lower	Upper	
83	100		
131	12.7	5.4	16.2
85	66.8	33.0	98.9

Manual Integrations
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3/6/2020 11:17:31 AM



#76

1,2,3-Trichloropropane

Concen: 3.788 ug/l m

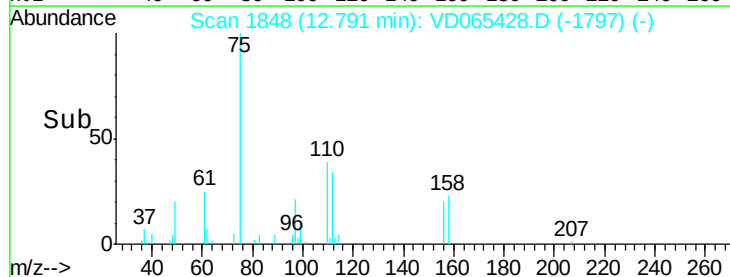
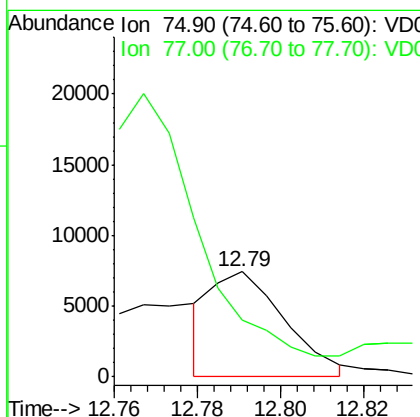
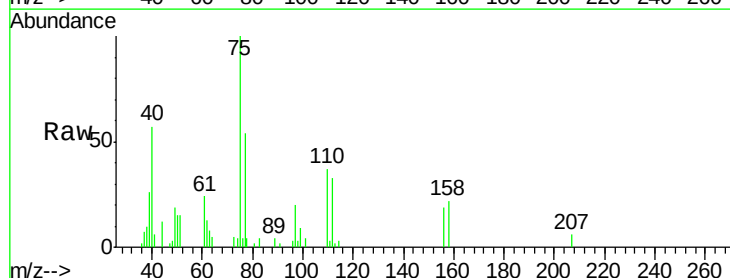
RT: 12.79 min Scan# 1848

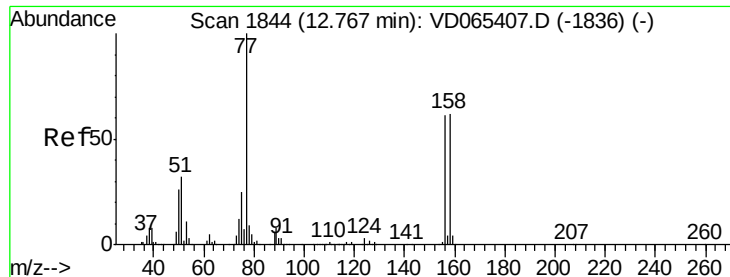
Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Tgt Ion:	75	Resp:	9133
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.153 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:156 Resp: 20735

Ion Ratio Lower Upper

156 100

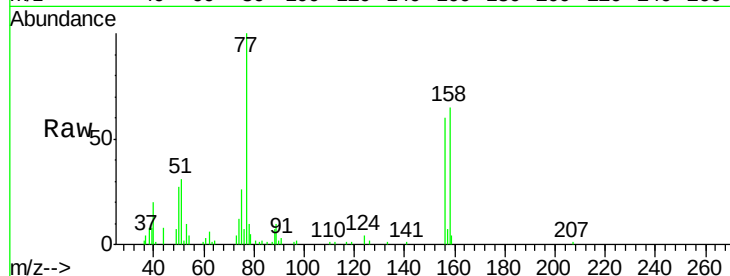
77 177.8 84.9 254.6

158 104.7 49.0 147.2

Manual Integrations
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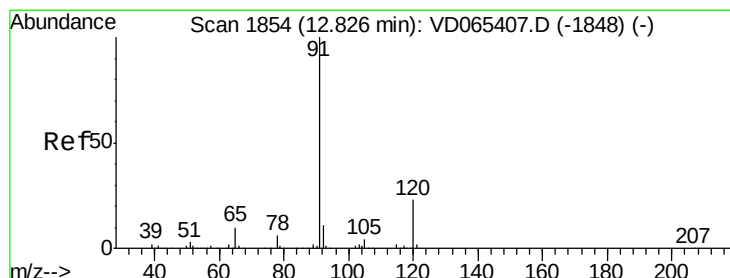
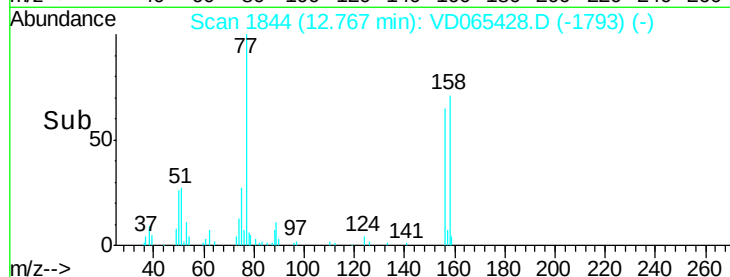
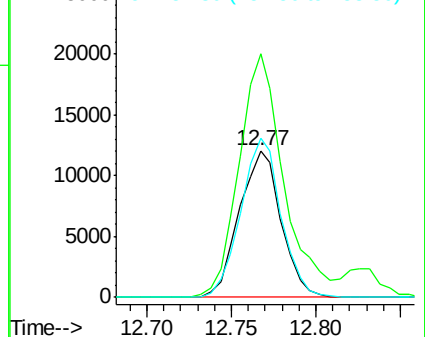
3/6/2020 11:17:31 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.007 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065428.D

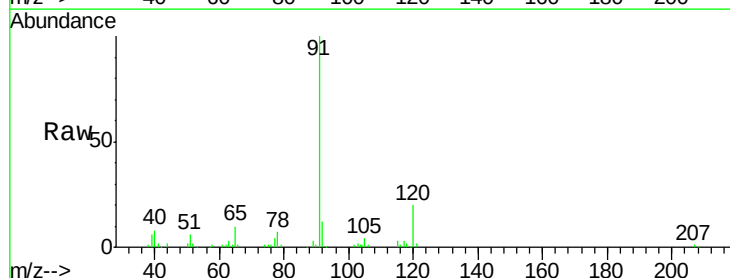
Acq: 05 Mar 2020 13:46

Tgt Ion: 91 Resp: 95550

Ion Ratio Lower Upper

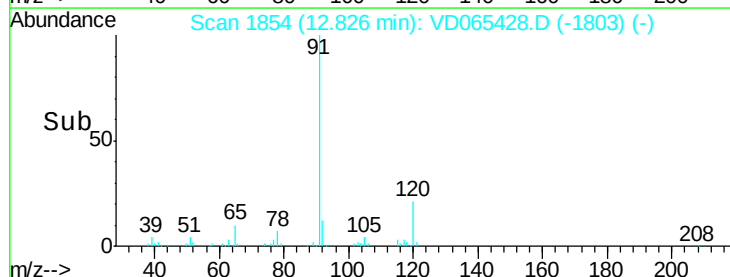
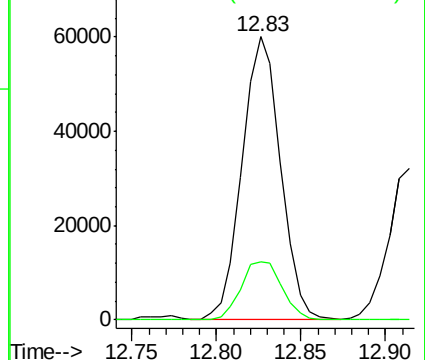
91 100

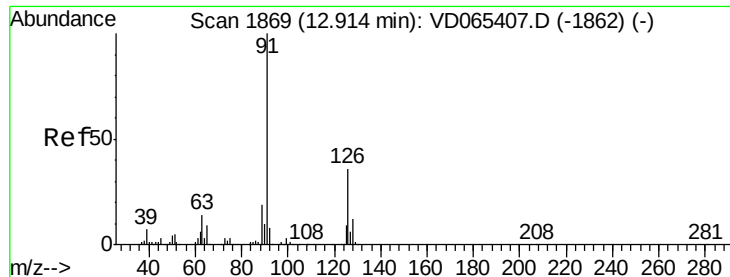
120 22.0 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





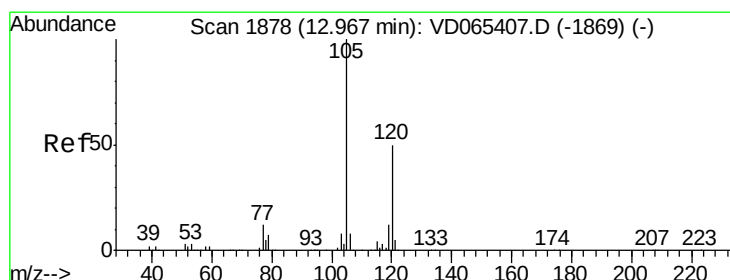
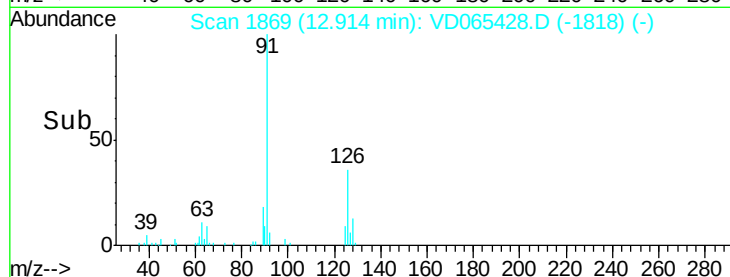
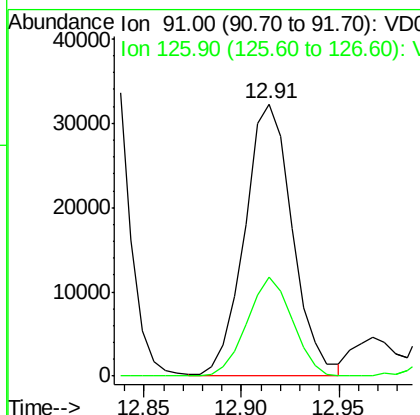
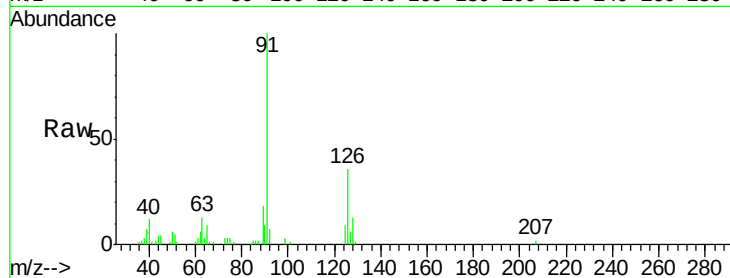
#79
 2-Chlorotoluene
 Concen: 4.085 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion: 91 Resp: 54887
 Ion Ratio Lower Upper
 91 100
 126 34.3 17.9 53.8

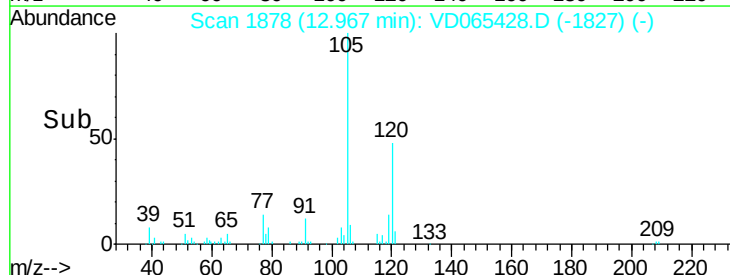
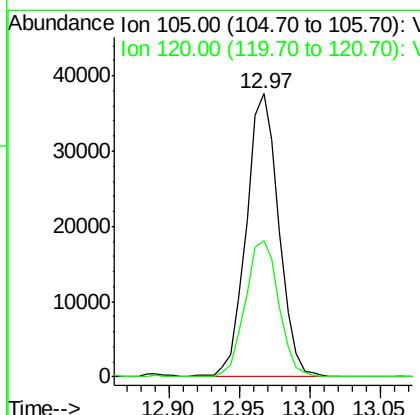
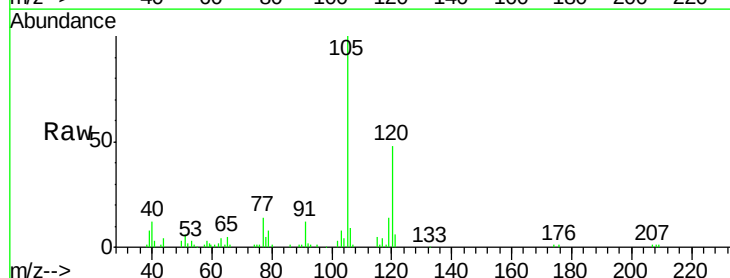
Manual Integrations
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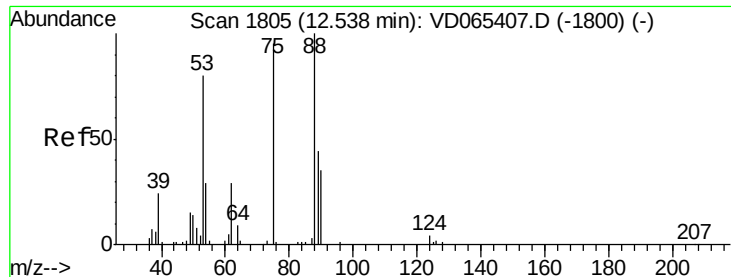
MMDadoda
 3/6/2020 11:17:31 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 3.688 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion: 105 Resp: 60922
 Ion Ratio Lower Upper
 105 100
 120 49.3 25.4 76.0





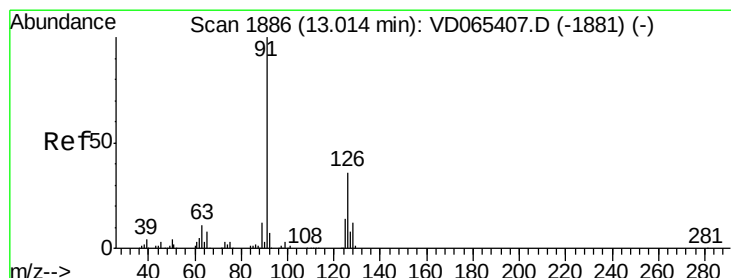
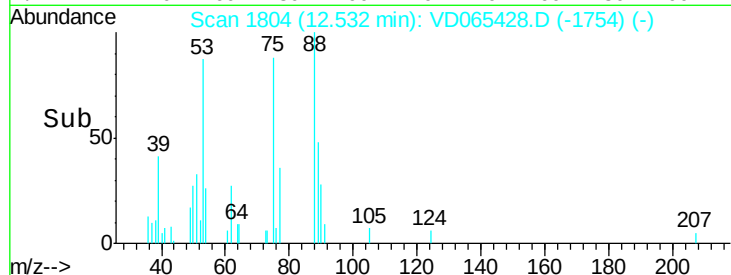
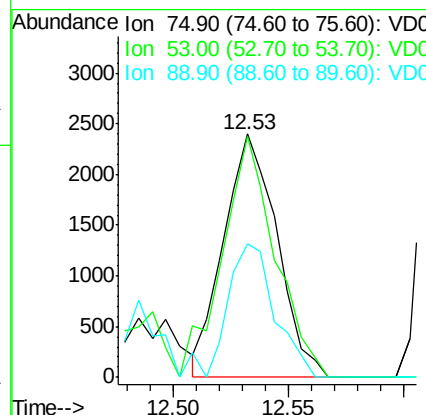
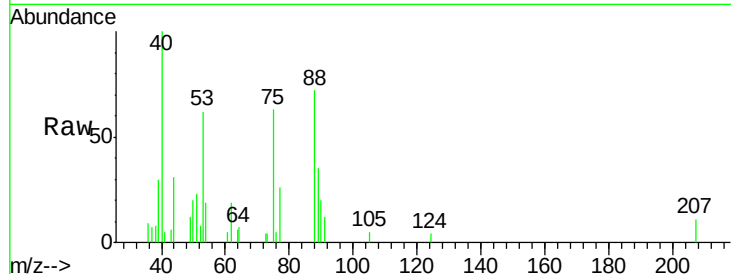
#81
trans-1,4-Dichloro-2-butene
Concen: 3.374 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.3	71.3	106.9
89	47.2	37.0	55.6

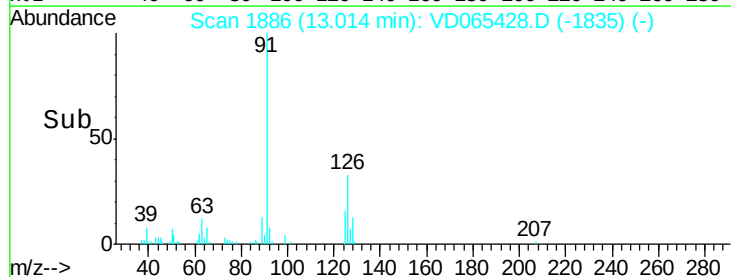
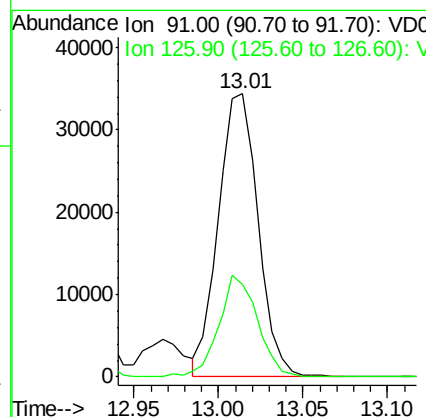
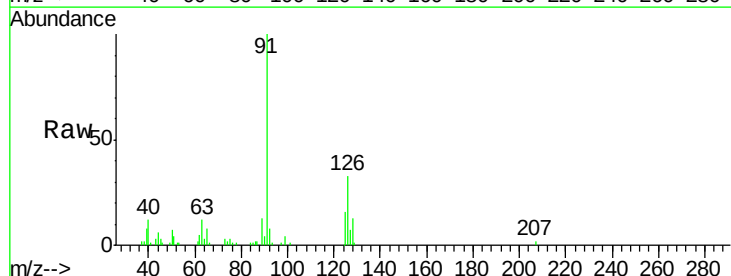
Manual Integrations
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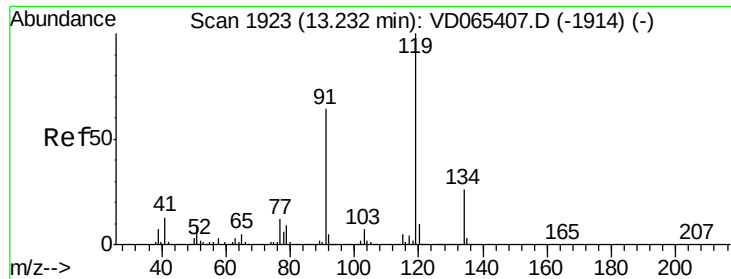
MMDadoda
3/6/2020 11:17:31 AM



#82
4-Chlorotoluene
Concen: 3.993 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.6	52.8





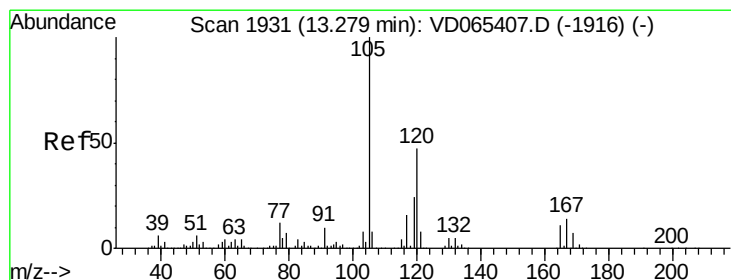
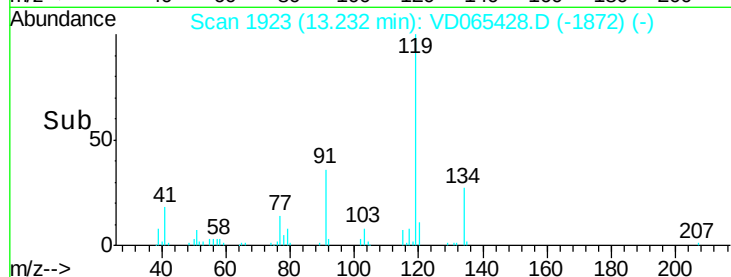
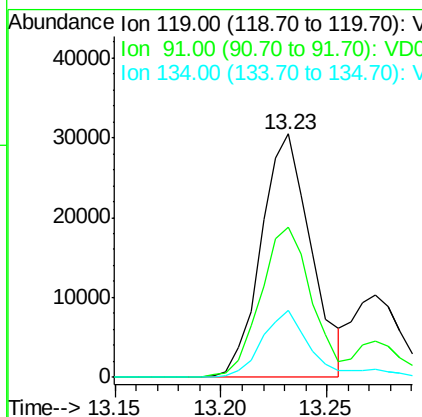
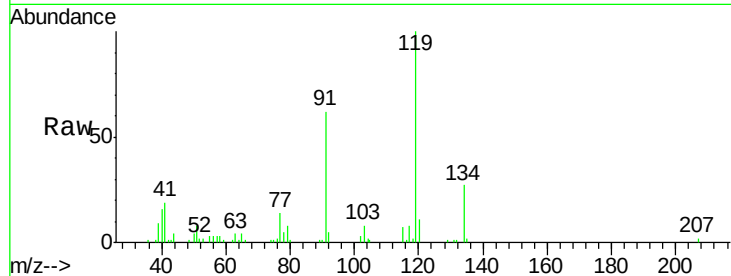
#83
 tert-Butylbenzene
 Concen: 3.585 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	31.6	95.0
134	27.9	14.2	42.8

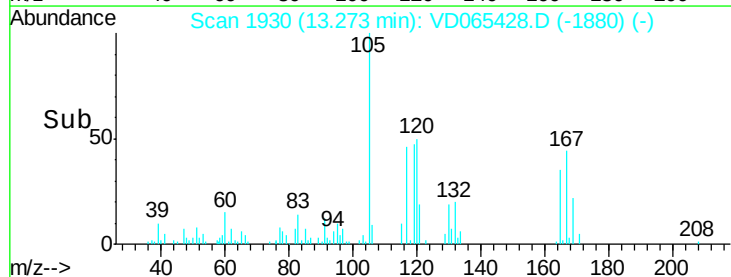
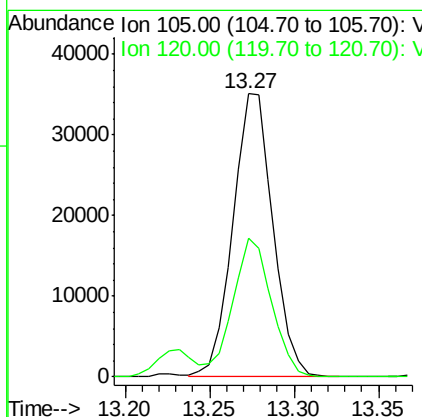
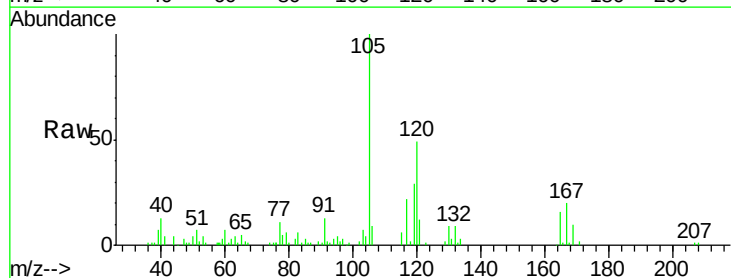
Manual Integrations
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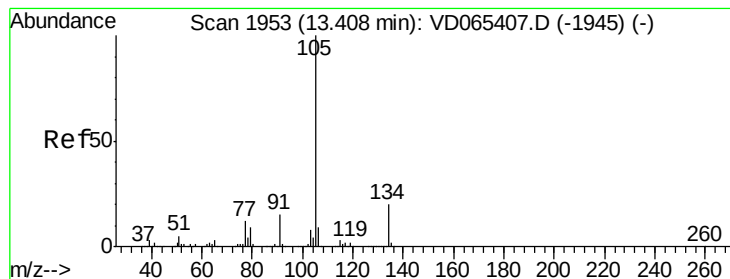
MMDadoda
 3/6/2020 11:17:31 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 3.539 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 3.667 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

Instrument :

MSVOA_D

ClientSampleID :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 73164

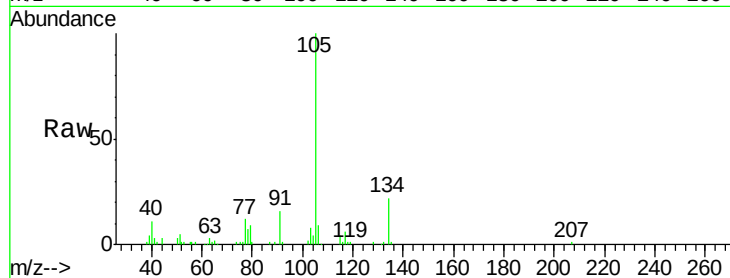
Ion Ratio Lower Upper

105 100

134 19.8 10.3 30.9

Manual Integrations
APPROVED

MMDadoda
3/6/2020 11:17:31 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

50000

40000

30000

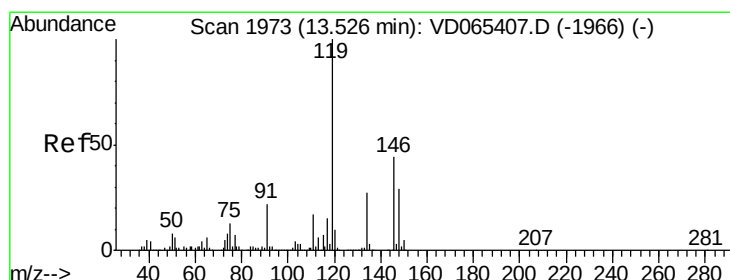
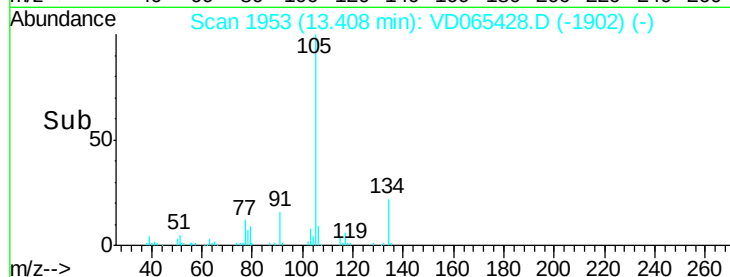
20000

10000

0

13.35 13.40 13.45

Time-->



#86

p-Isopropyltoluene

Concen: 3.496 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065428.D

Acq: 05 Mar 2020 13:46

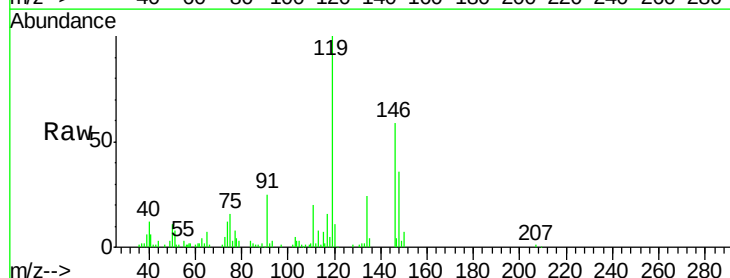
Tgt Ion:119 Resp: 63644

Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.9

91 24.1 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

13.53

50000

40000

30000

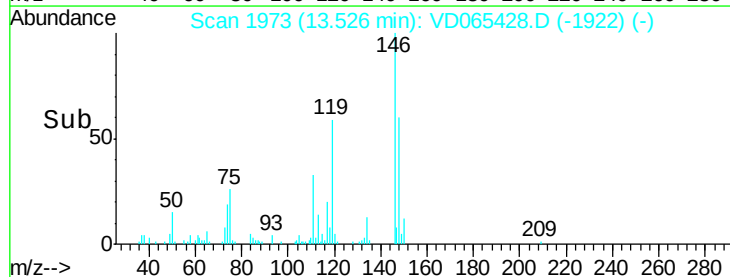
20000

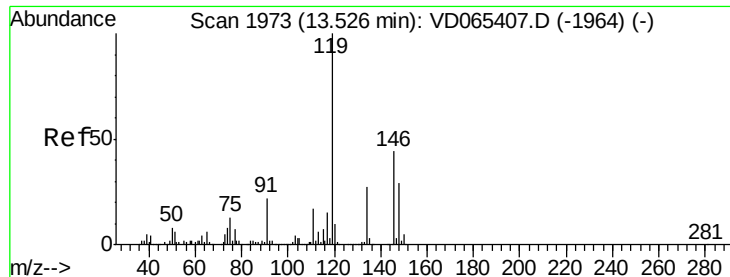
10000

0

13.45 13.50 13.55 13.60

Time-->





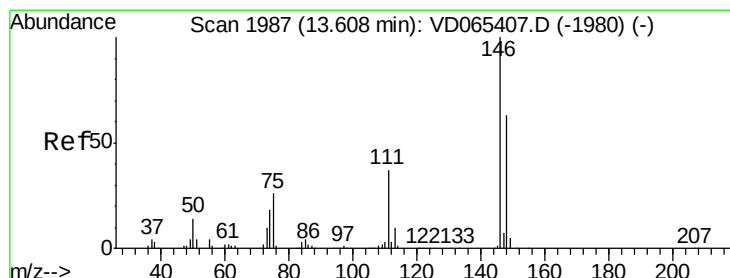
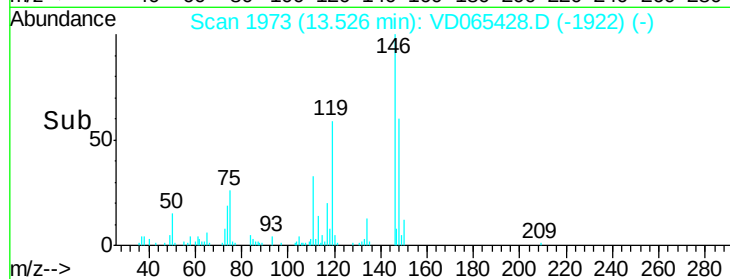
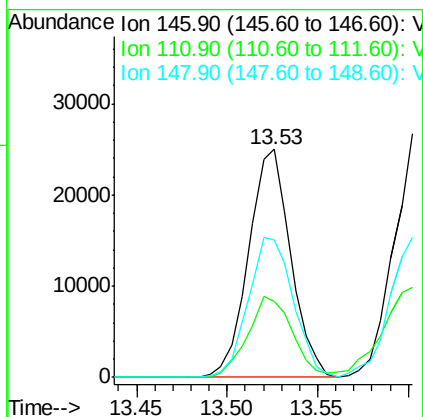
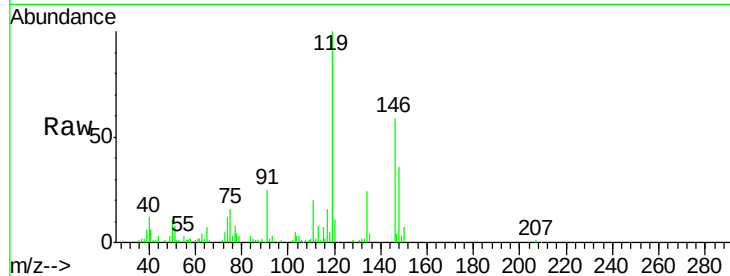
#87
 1,3-Dichlorobenzene
 Concen: 4.206 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.1
148	65.3	32.3	96.8

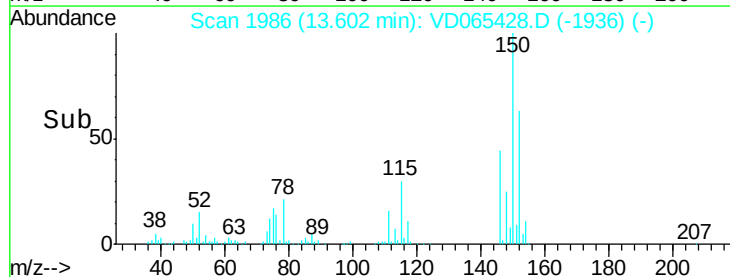
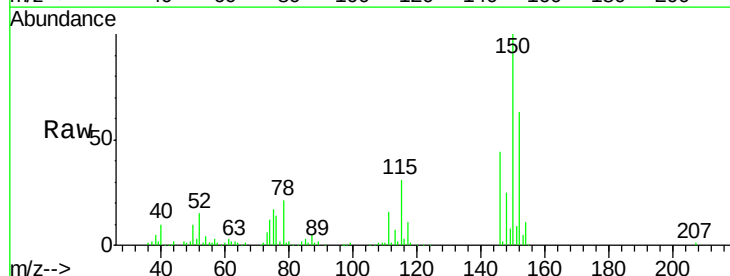
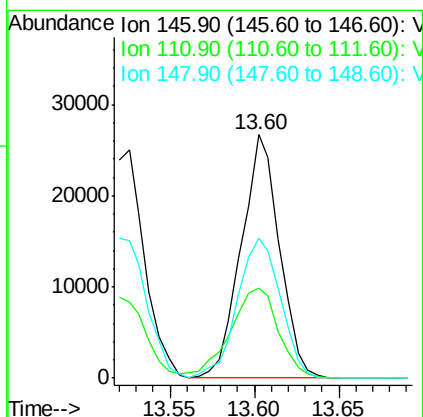
Manual Integrations
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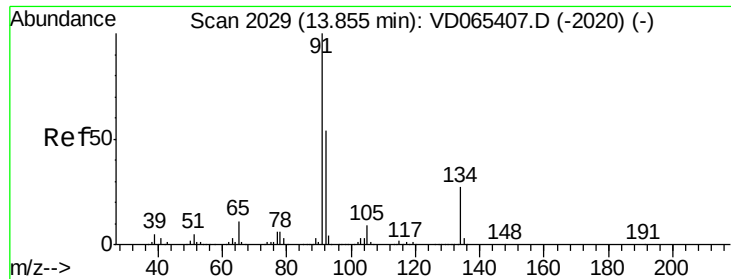
MMDadoda
 3/6/2020 11:17:31 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.419 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	18.5	55.5
148	64.5	32.0	96.0





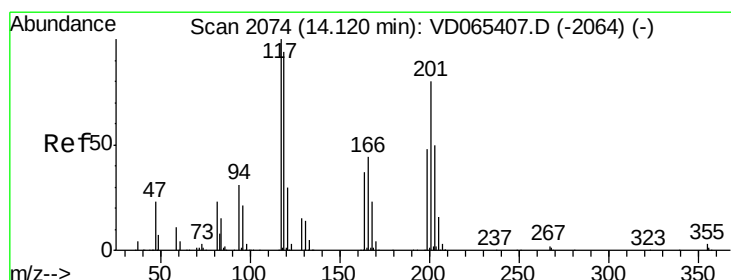
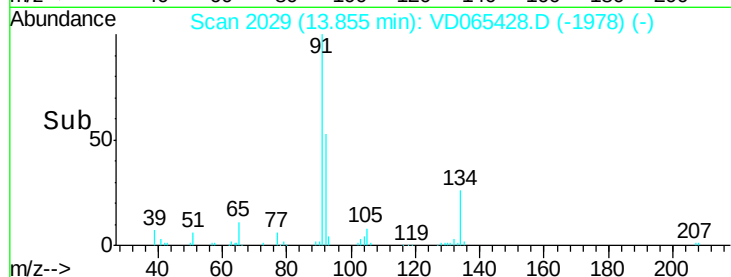
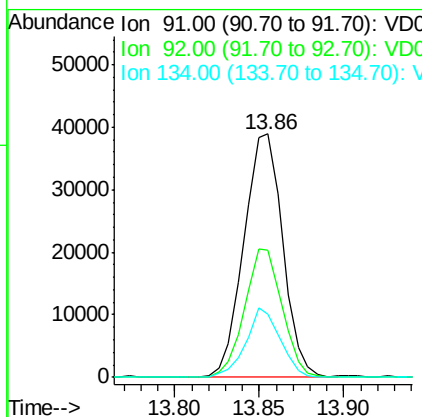
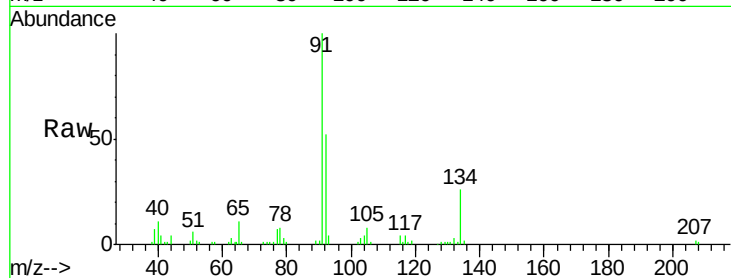
#89
n-Butylbenzene
Concen: 3.715 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.8	80.4
134	25.2	13.4	40.2

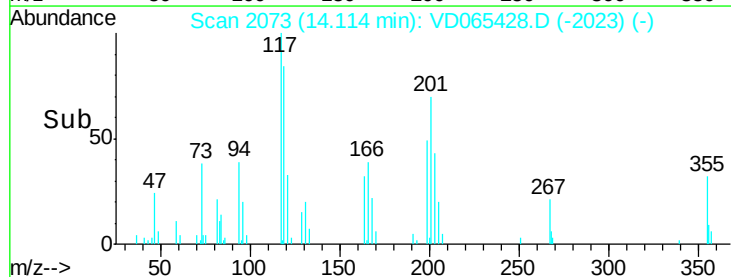
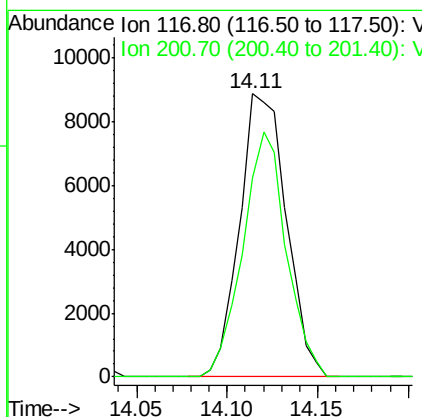
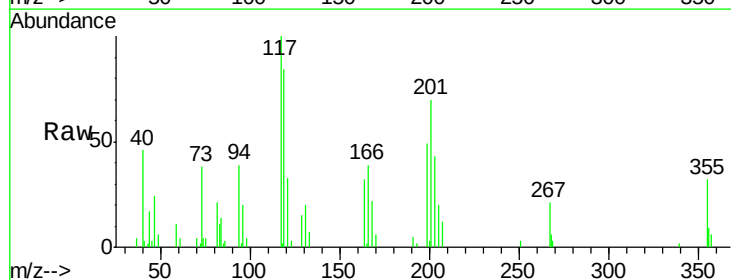
Manual Integrations
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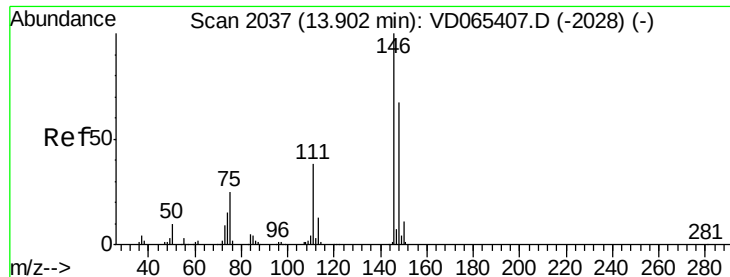
MMDadoda
3/6/2020 11:17:31 AM



#90
Hexachloroethane
Concen: 4.246 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.01 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.7	41.9	125.6





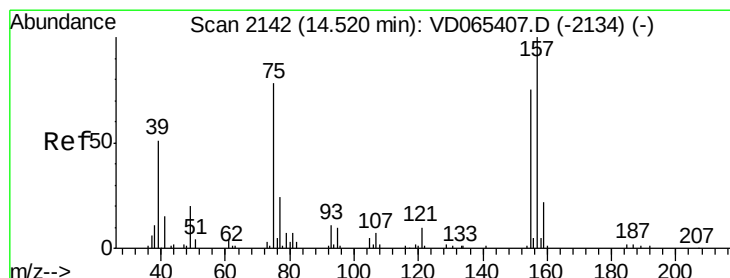
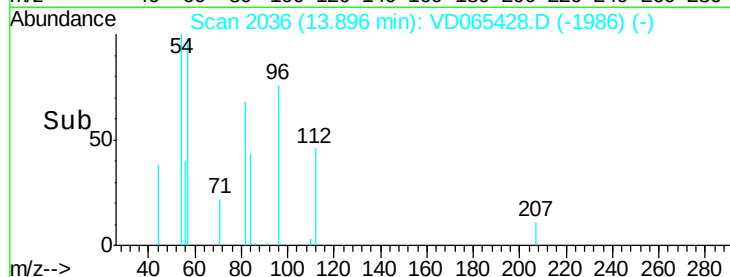
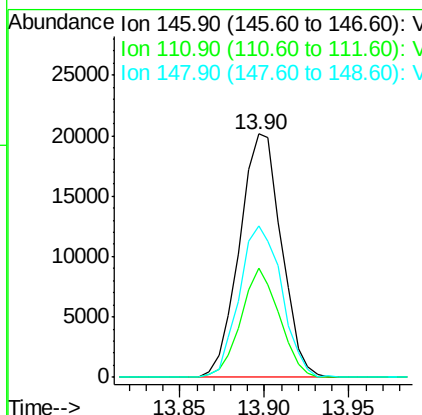
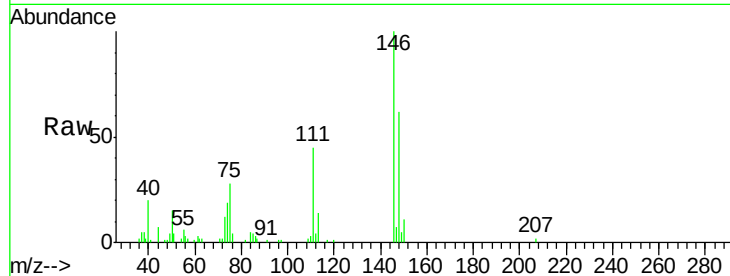
#91
 1,2-Dichlorobenzene
 Concen: 4.267 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.8	59.3
148	62.8	32.6	97.8

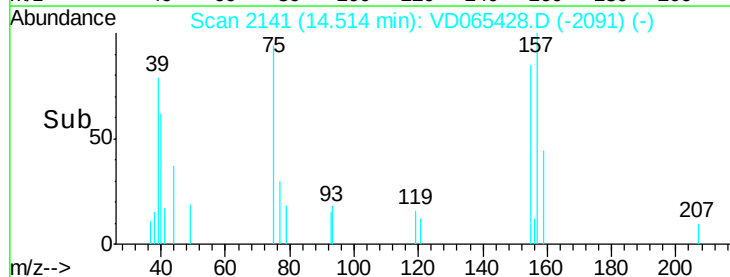
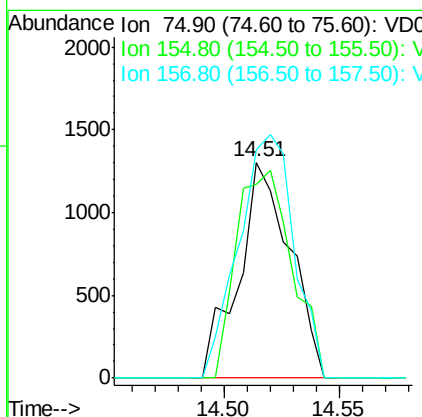
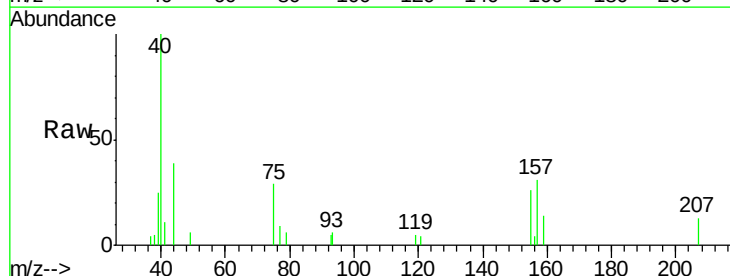
Manual Integrations
 APPROVED

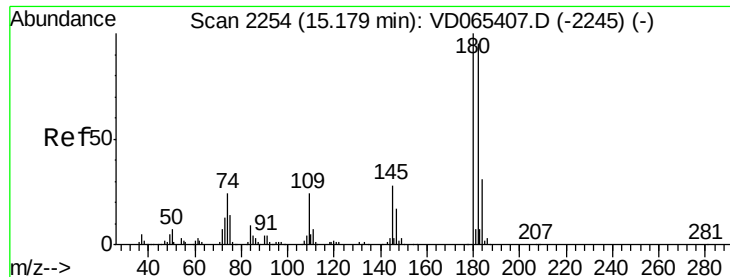
MMDadoda
 3/6/2020 11:17:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.755 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	104.1	46.4	139.1
157	121.8	60.2	180.4





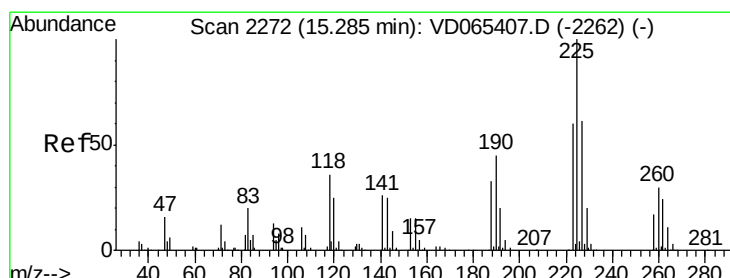
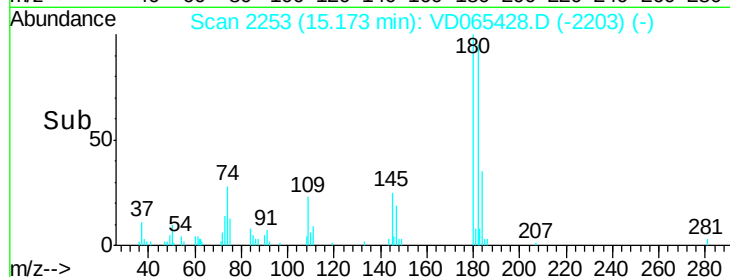
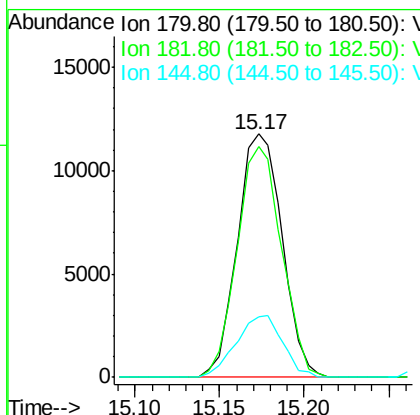
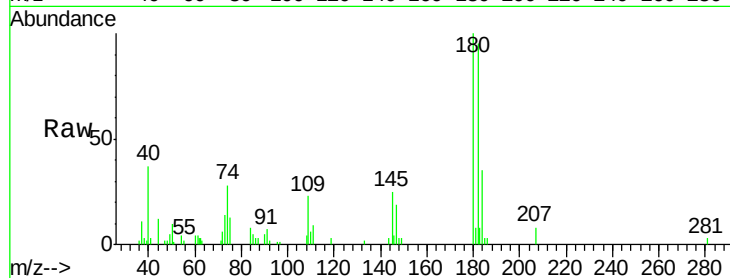
#93
 1,2,4-Trichlorobenzene
 Concen: 3.901 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.3	144.9
145	26.5	14.4	43.4

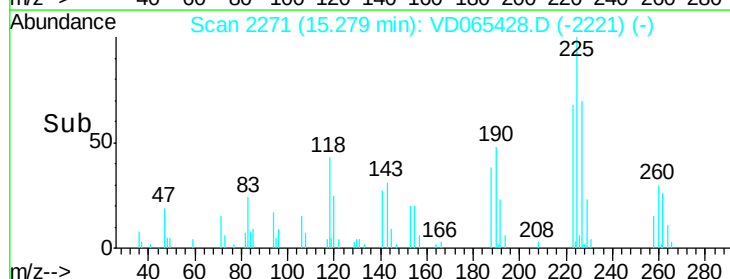
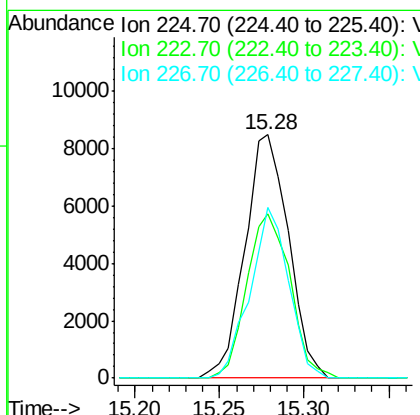
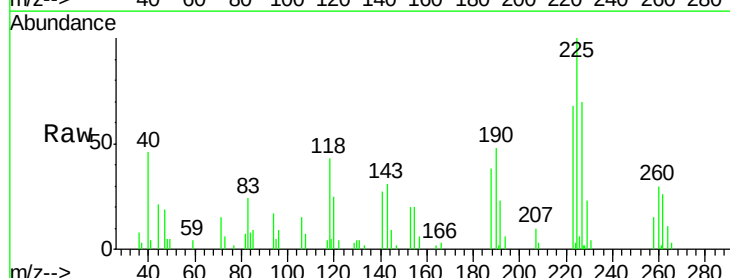
Manual Integrations
 APPROVED

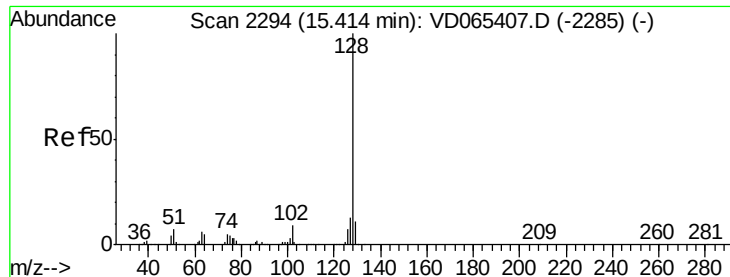
MMDadoda
 3/6/2020 11:17:31 AM



#94
 Hexachlorobutadiene
 Concen: 4.188 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: VD065428.D
 Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	67.1	30.9	92.5
227	62.3	31.6	94.7





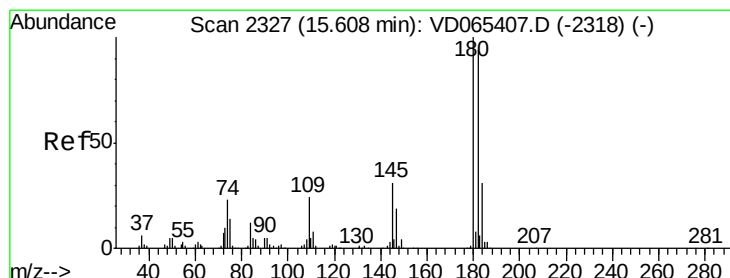
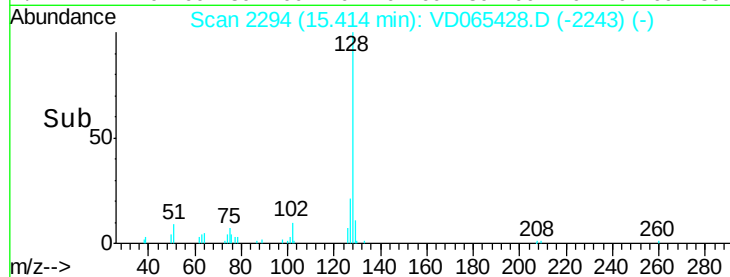
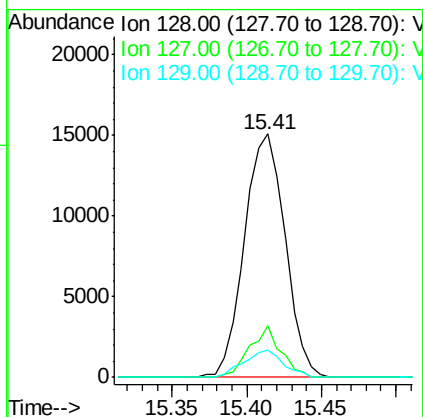
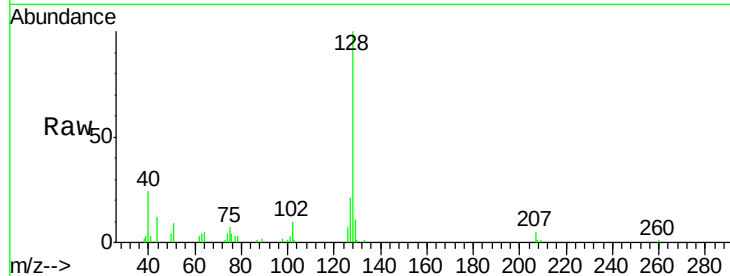
#95
Naphthalene
Concen: 3.213 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.6	16.0#
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/6/2020 11:17:31 AM



#96
1,2,3-Trichlorobenzene
Concen: 3.828 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065428.D
Acq: 05 Mar 2020 13:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.0	46.9	140.6
145	33.9	15.0	45.1

