

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030520\
 Data File : VY001873.D
 Acq On : 05 Mar 2020 11:59
 Operator : SY/MD
 Sample : L1161-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/6/2020 11:16:52 AM

Quant Time: Mar 06 05:54:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 06 05:47:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	169203	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	303506	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	270607	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.43	152	124248	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	92873	51.41	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.82%	
35) Dibromofluoromethane	7.74	113	86044	51.92	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	103.84%	
50) Toluene-d8	10.19	98	359783	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
62) 4-Bromofluorobenzene	12.49	95	121085	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	6529	4.180	ug/l	99
3) Chloromethane	2.12	50	9992	4.745	ug/l	97
4) Vinyl Chloride	2.26	62	9037	4.219	ug/l	100
5) Bromomethane	2.66	94	6660	4.687	ug/l	96
6) Chloroethane	2.80	64	5957	4.427	ug/l	94
7) Trichlorofluoromethane	3.14	101	12854	4.425	ug/l	100
8) Diethyl Ether	3.54	74	4550	3.974	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.92	101	7615	4.076	ug/l	98
10) Methyl Iodide	4.11	142	7204	3.334	ug/l	99
11) Tert butyl alcohol	4.97	59	3920	17.778	ug/l #	74
12) 1,1-Dichloroethene	3.89	96	7786	4.139	ug/l	97
13) Acrolein	3.75	56	4750	18.713	ug/l	89
14) Allyl chloride	4.49	41	13328	3.996	ug/l	99
15) Acrylonitrile	5.19	53	12365	20.211	ug/l	98
16) Acetone	3.97	43	10628	20.201	ug/l	99
17) Carbon Disulfide	4.21	76	25488	4.030	ug/l #	93
18) Methyl Acetate	4.49	43	5685	4.205	ug/l	97
19) Methyl tert-butyl Ether	5.24	73	20965	4.112	ug/l	98
20) Methylene Chloride	4.74	84	16415	7.280	ug/l	96
21) trans-1,2-Dichloroethene	5.24	96	9017	4.223	ug/l	94
22) Diisopropyl ether	6.14	45	27841	4.073	ug/l	96
23) Vinyl Acetate	6.08	43	86816	19.371	ug/l	98
24) 1,1-Dichloroethane	6.04	63	15077	4.073	ug/l	97
25) 2-Butanone	7.00	43	15620	19.523	ug/l	95
26) 2,2-Dichloropropane	6.99	77	12184	4.010	ug/l	100
27) cis-1,2-Dichloroethene	7.00	96	9553	4.113	ug/l	98
28) Bromochloromethane	7.35	49	6812	4.082	ug/l #	99
29) Tetrahydrofuran	7.36	42	10215	19.226	ug/l	99
30) Chloroform	7.52	83	14576	4.191	ug/l	87
31) Cyclohexane	7.80	56	19147	4.824	ug/l #	78
32) 1,1,1-Trichloroethane	7.71	97	11961	4.080	ug/l	98
36) 1,1-Dichloropropene	7.93	75	11959	4.095	ug/l	98
37) Ethyl Acetate	7.10	43	7140	4.206	ug/l	97
38) Carbon Tetrachloride	7.91	117	10273	4.117	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	15826	4.085	ug/l	94
40) Benzene	8.17	78	36288	4.192	ug/l	97
41) Methacrylonitrile	7.33	41	3878	5.076	ug/l #	18
42) 1,2-Dichloroethane	8.25	62	9243	4.144	ug/l	100
43) Isopropyl Acetate	8.28	43	12871	4.005	ug/l	98
44) Trichloroethene	8.94	130	8360	3.965	ug/l	92
45) 1,2-Dichloropropane	9.23	63	9181	4.219	ug/l	97
46) Dibromomethane	9.32	93	4660	4.155	ug/l	97
47) Bromodichloromethane	9.50	83	10615	4.069	ug/l	91
48) Methyl methacrylate	9.30	41	6047	4.240	ug/l	99
49) 1,4-Dioxane	9.31	88	1105	71.910	ug/l #	87
51) 4-Methyl-2-Pentanone	10.08	43	32330	19.531	ug/l	98
52) Toluene	10.25	92	21981	4.180	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	11156	3.925	ug/l	93
54) cis-1,3-Dichloropropene	9.93	75	13180	3.895	ug/l	99
55) 1,1,2-Trichloroethane	10.65	97	6577	4.007	ug/l	97
56) Ethyl methacrylate	10.52	69	9319	3.874	ug/l	91
57) 1,3-Dichloropropane	10.79	76	11762	4.021	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.79	63	15997	16.771	ug/l	100
59) 2-Hexanone	10.84	43	22909	19.390	ug/l	96
60) Dibromochloromethane	10.99	129	6381	3.690	ug/l	98
61) 1,2-Dibromoethane	11.10	107	6125	3.940	ug/l	100
64) Tetrachloroethene	10.72	164	7402	4.362	ug/l	94
65) Chlorobenzene	11.52	112	22240	4.125	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.59	131	6663	3.768	ug/l	94
67) Ethyl Benzene	11.60	91	40792	4.056	ug/l	100
68) m/p-Xylenes	11.71	106	29845	8.028	ug/l	98
69) o-Xylene	12.03	106	14277	4.074	ug/l	98
70) Styrene	12.05	104	24000	3.999	ug/l	99
71) Bromoform	12.21	173	3278	3.418	ug/l #	93
73) Isopropylbenzene	12.33	105	37647	3.969	ug/l	98
74) N-amyl acetate	12.14	43	11186	3.837	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.59	83	7927	3.876	ug/l	94
76) 1,2,3-Trichloropropane	12.64	75	6227m	4.224	ug/l	
77) Bromobenzene	12.61	156	8455	4.207	ug/l	93
78) n-propylbenzene	12.67	91	47741	4.080	ug/l	99
79) 2-Chlorotoluene	12.75	91	25970	4.017	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	31886	4.084	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	2554	3.499	ug/l #	87
82) 4-Chlorotoluene	12.86	91	26766	3.976	ug/l	99
83) tert-Butylbenzene	13.08	119	25955	4.002	ug/l	100
84) 1,2,4-Trimethylbenzene	13.13	105	31267	4.035	ug/l	100
85) sec-Butylbenzene	13.25	105	38960	4.076	ug/l	98
86) p-Isopropyltoluene	13.37	119	33878	4.108	ug/l	100
87) 1,3-Dichlorobenzene	13.37	146	16384	4.161	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	17119	4.285	ug/l	91
89) n-Butylbenzene	13.70	91	34475	4.030	ug/l	98
90) Hexachloroethane	13.96	117	6052	3.890	ug/l	95
91) 1,2-Dichlorobenzene	13.74	146	14644	4.093	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1243	3.894	ug/l	94

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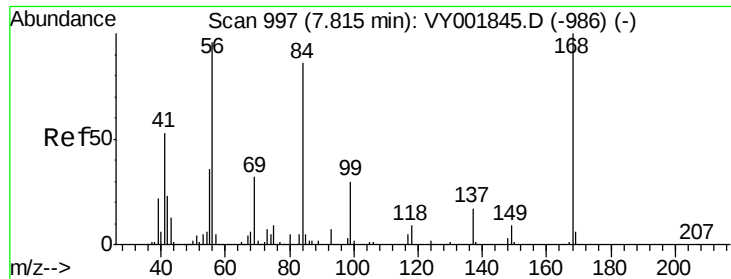
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	9562	4.121	ug/l	94
94) Hexachlorobutadiene	15.11	225	4727	4.179	ug/l	98
95) Naphthalene	15.24	128	21858	3.972	ug/l	98
96) 1,2,3-Trichlorobenzene	15.43	180	8376	4.098	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 169203

Ion Ratio Lower Upper

168 100

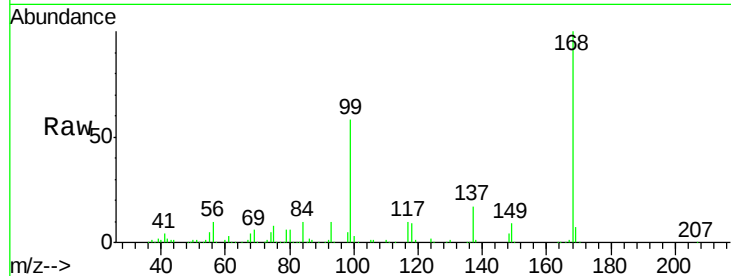
99 58.4 46.7 70.1

Manual Integrations

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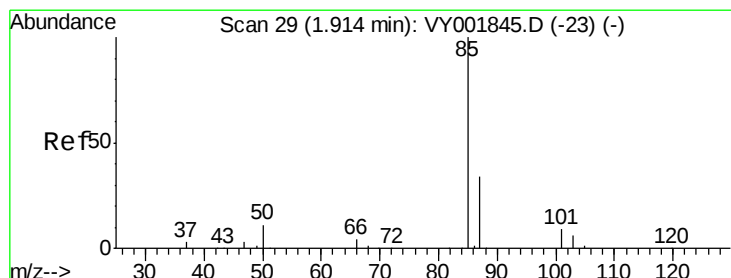
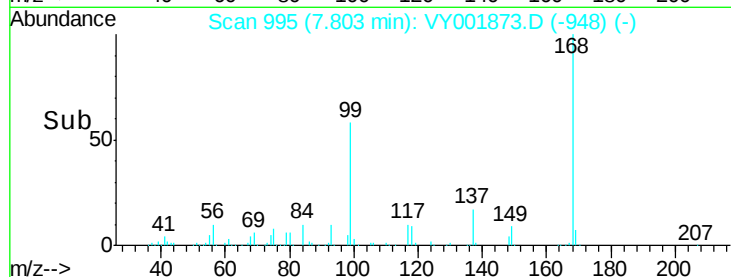
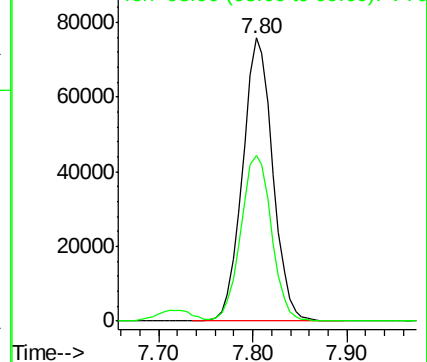
MMDadoda

3/6/2020 11:16:52 AM



Abundance Ion 167.90 (167.60 to 168.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#2

Dichlorodifluoromethane

Concen: 4.180 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.01 min

Lab File: VY001873.D

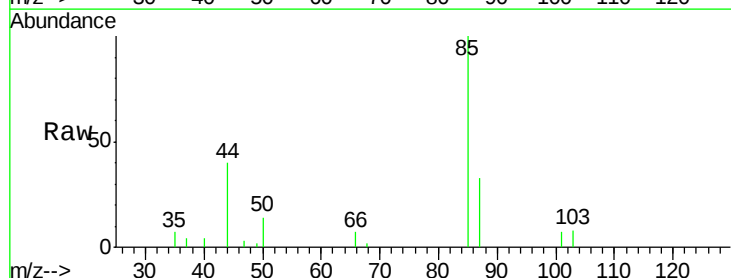
Acq: 05 Mar 2020 11:59

Tgt Ion: 85 Resp: 6529

Ion Ratio Lower Upper

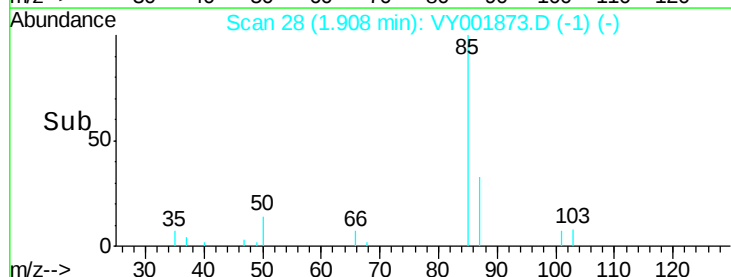
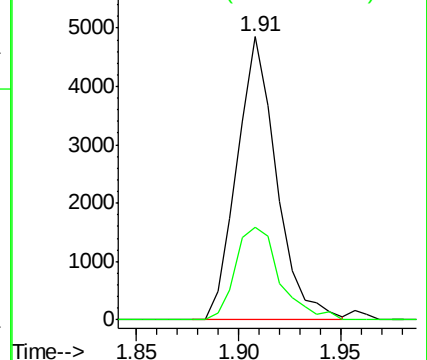
85 100

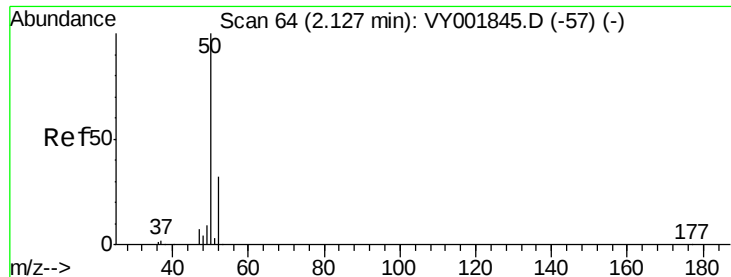
87 32.9 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VY0

Ion 86.90 (86.60 to 87.60): VY0





#3

Chloromethane

Concen: 4.745 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 9992

Ion Ratio Lower Upper

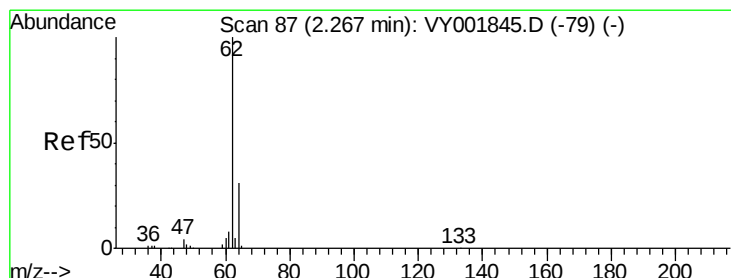
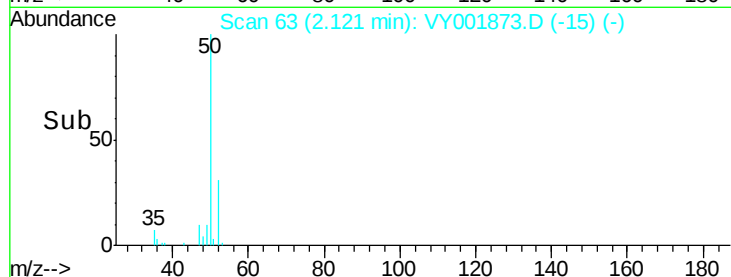
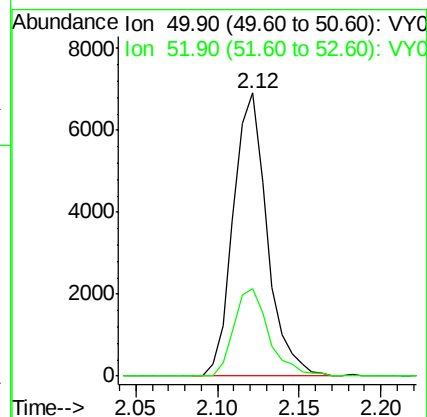
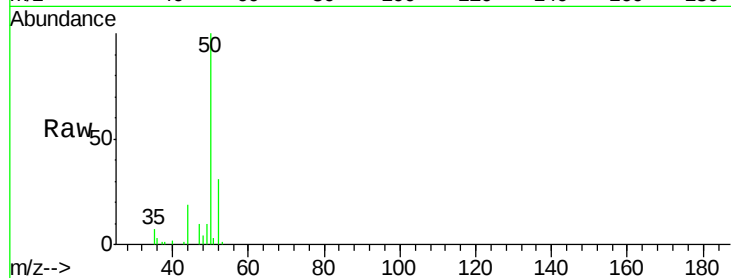
50 100

52 30.8 25.8 38.6

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#4

Vinyl Chloride

Concen: 4.219 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY001873.D

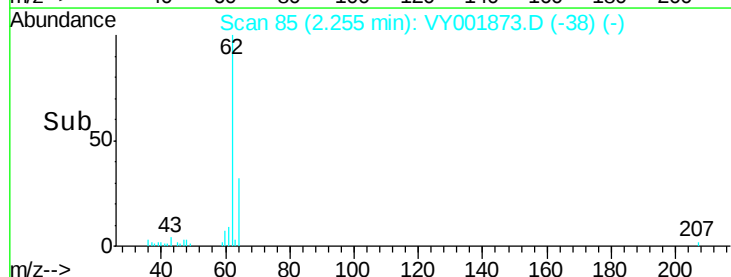
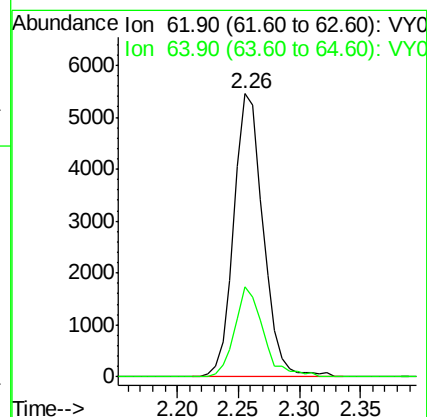
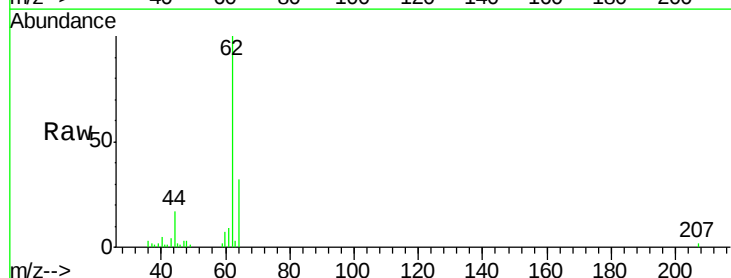
Acq: 05 Mar 2020 11:59

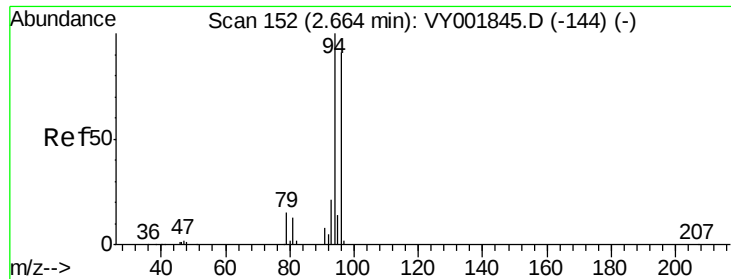
Tgt Ion: 62 Resp: 9037

Ion Ratio Lower Upper

62 100

64 31.6 25.1 37.7





#5

Bromomethane

Concen: 4.687 ug/l

RT: 2.66 min Scan# 152

Delta R.T. 0.00 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 6660

Ion Ratio Lower Upper

94 100

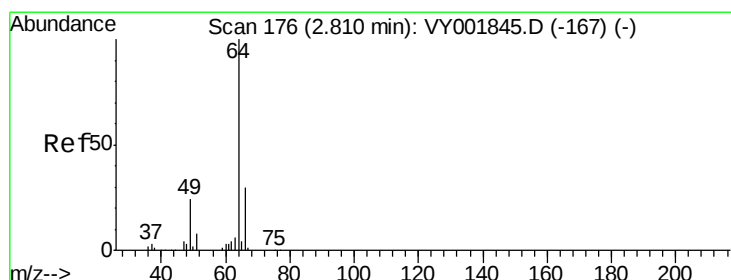
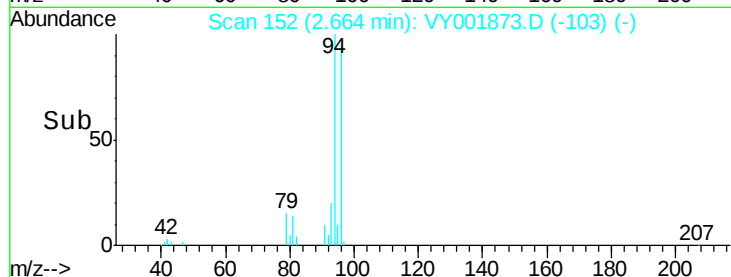
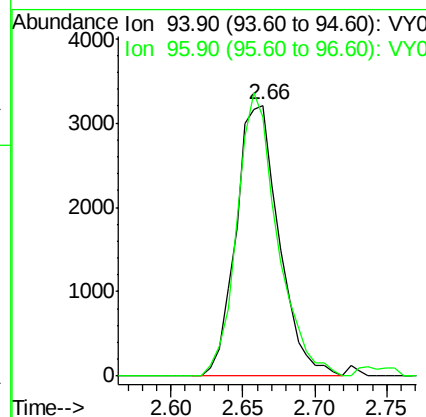
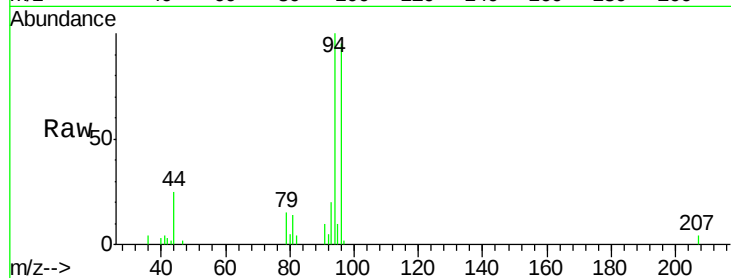
96 95.5 73.2 109.8

Manual Integrations

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#6

Chloroethane

Concen: 4.427 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.01 min

Lab File: VY001873.D

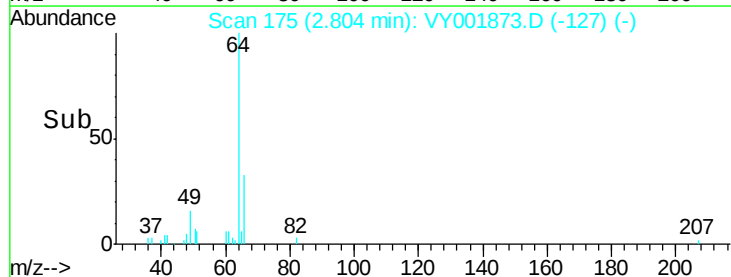
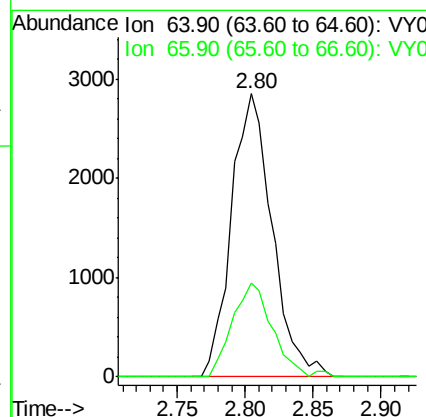
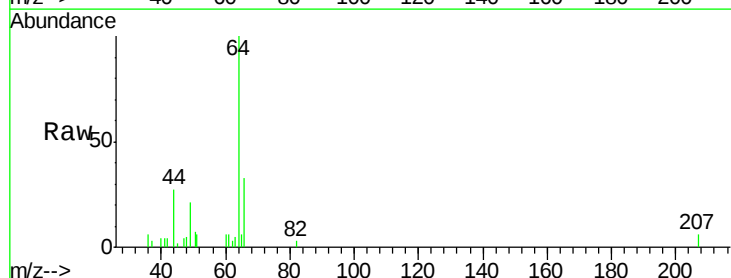
Acq: 05 Mar 2020 11:59

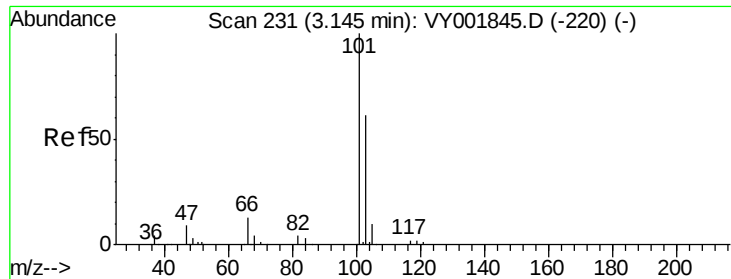
Tgt Ion: 64 Resp: 5957

Ion Ratio Lower Upper

64 100

66 33.2 23.8 35.8





#7

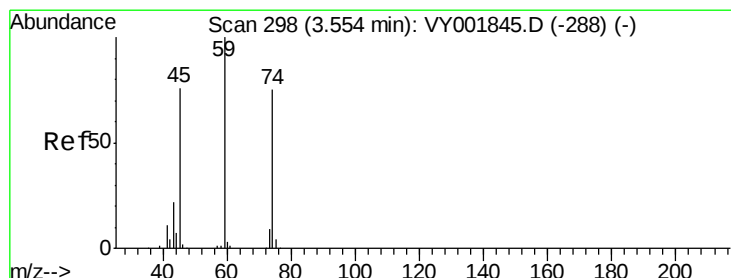
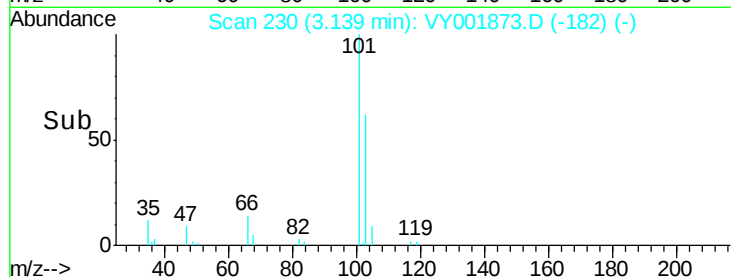
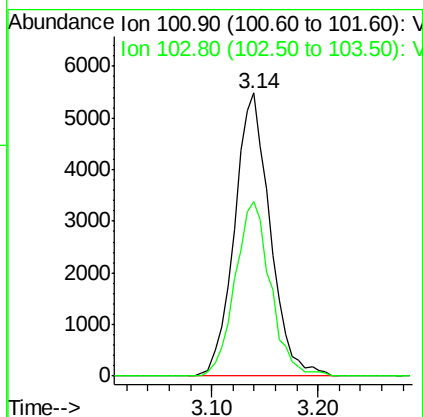
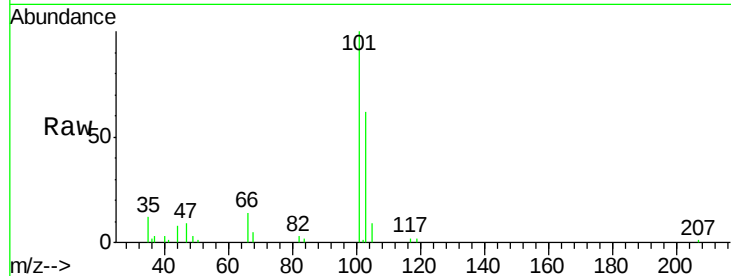
Trichlorofluoromethane
Concen: 4.425 ug/l
RT: 3.14 min Scan# 230
Delta R.T. -0.01 min
Lab File: VY001873.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.7	49.1	73.7

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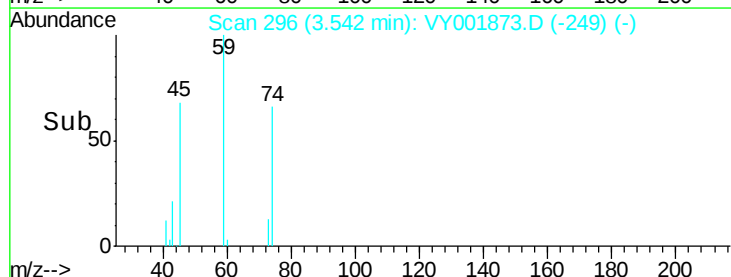
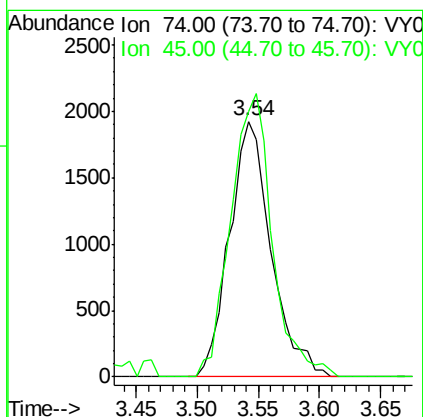
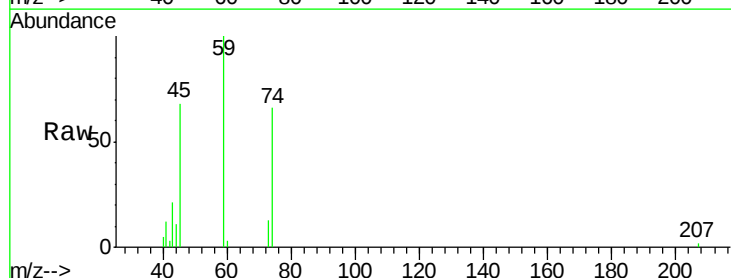
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3/6/2020 11:16:52 AM



#8

Diethyl Ether
Concen: 3.974 ug/l
RT: 3.54 min Scan# 296
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.0	50.5	151.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.076 ug/l

RT: 3.92 min Scan# 358

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

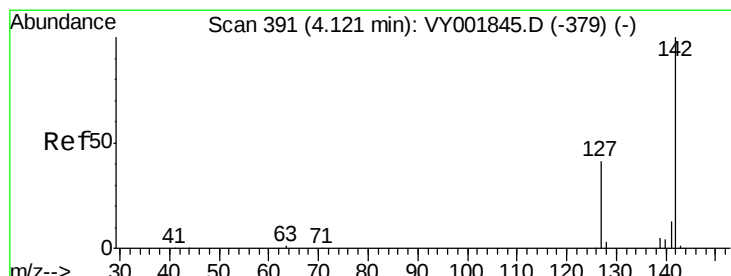
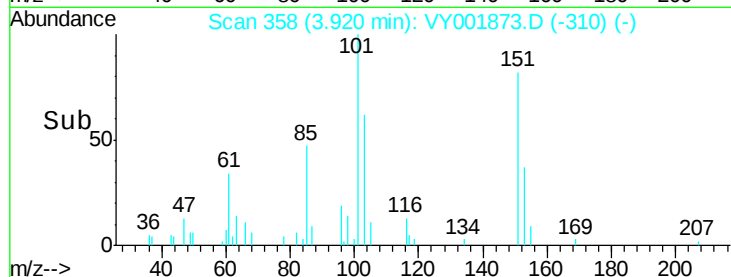
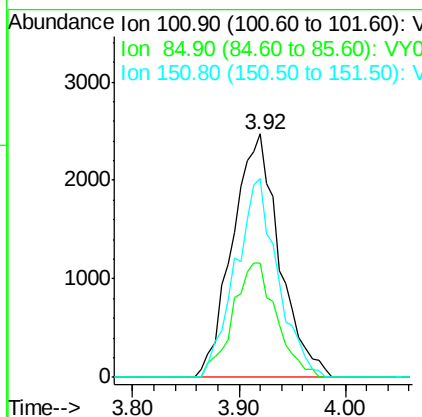
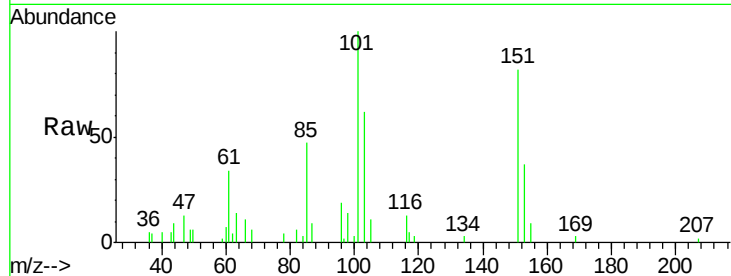
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	7615
Ion Ratio	Lower	Upper	
101	100		
85	43.6	35.3	52.9
151	73.7	57.0	85.4

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#10

Methyl Iodide

Concen: 3.334 ug/l

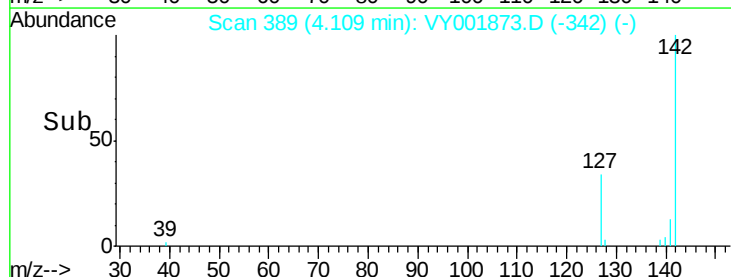
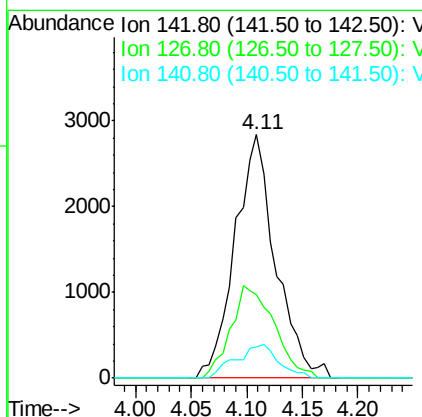
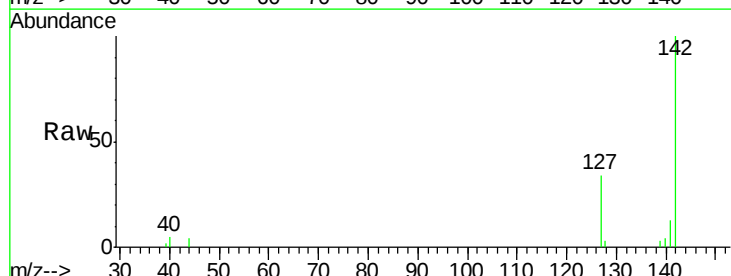
RT: 4.11 min Scan# 389

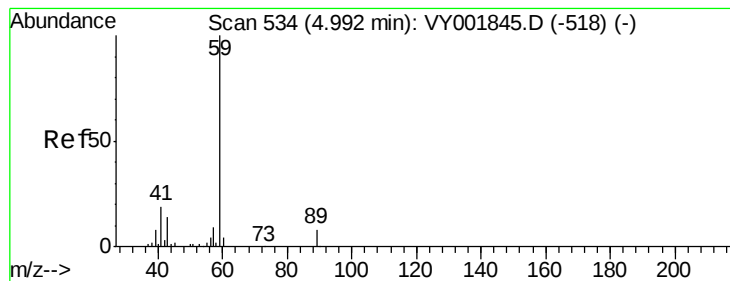
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	142	Resp:	7204
Ion Ratio	Lower	Upper	
142	100		
127	40.4	32.7	49.1
141	14.6	11.0	16.6





#11

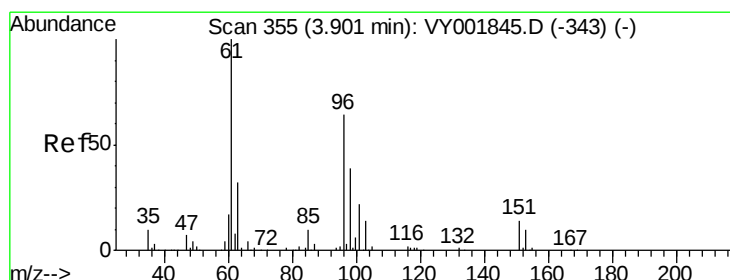
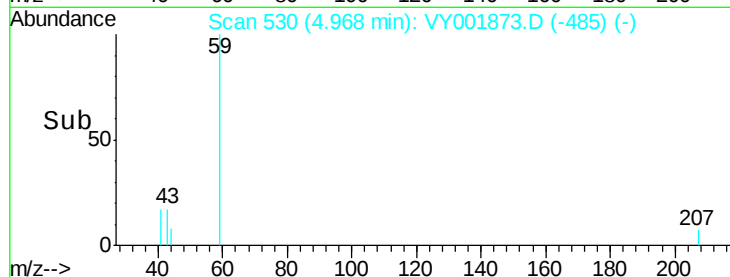
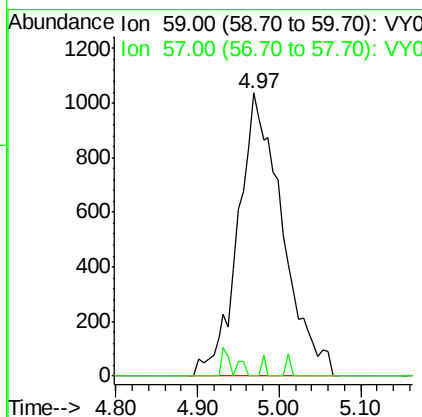
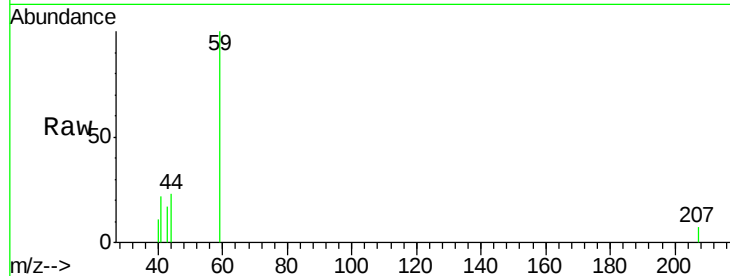
Tert butyl alcohol
Concen: 17.778 ug/l
RT: 4.97 min Scan# 530
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 59 Resp: 3920
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

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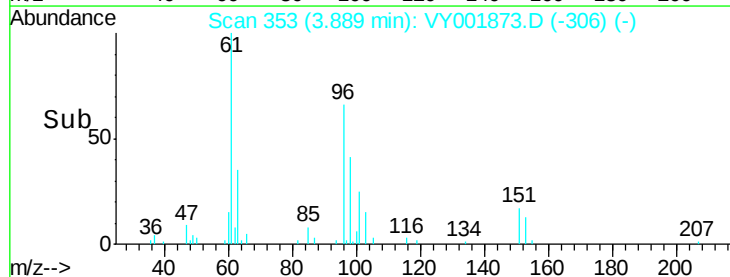
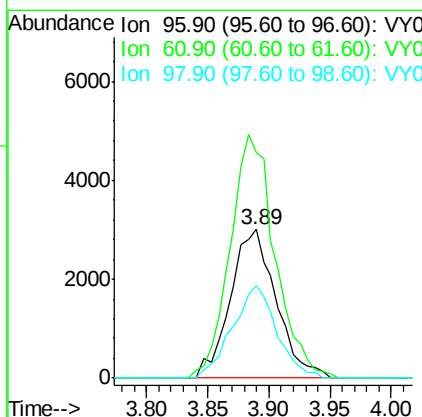
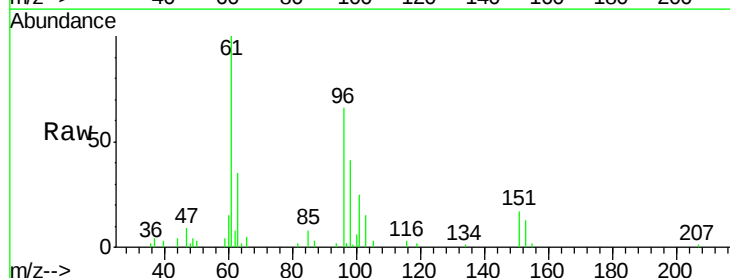
MMDadoda
3/6/2020 11:16:52 AM

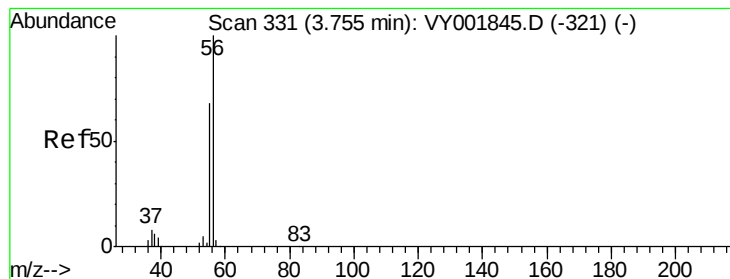


#12

1,1-Dichloroethene
Concen: 4.139 ug/l
RT: 3.89 min Scan# 353
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 96 Resp: 7786
Ion Ratio Lower Upper
96 100
61 152.0 124.8 187.2
98 62.6 49.2 73.8





#13

Acrolein

Concen: 18.713 ug/l

RT: 3.75 min Scan# 330

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 4750

Ion Ratio Lower Upper

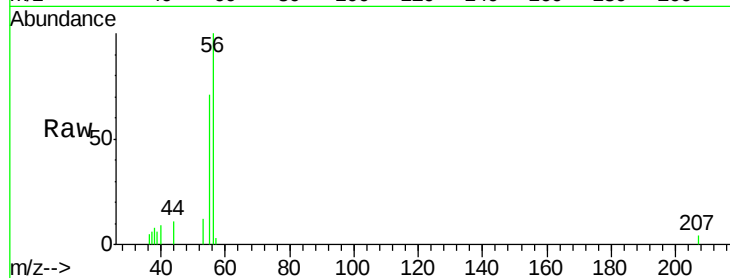
56 100

55 76.0 54.0 81.0

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MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VY001845.D (-321) (-)

Ion 55.00 (54.70 to 55.70): VY001845.D (-321) (-)

3.75

2000

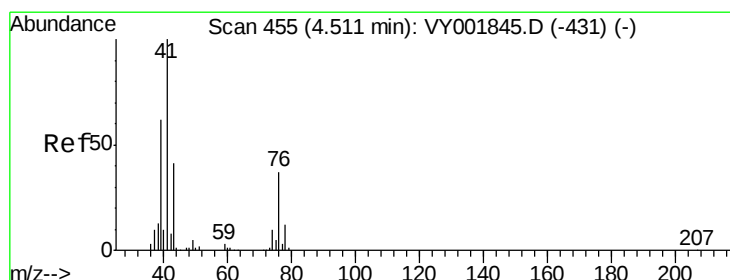
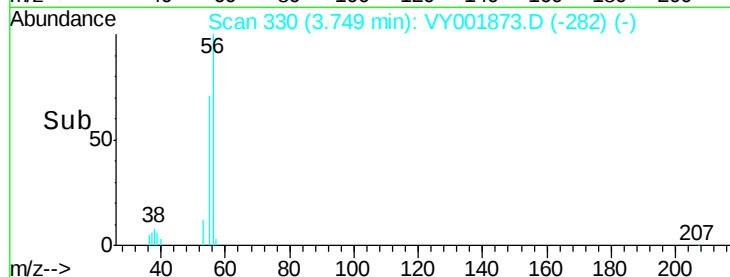
1500

1000

500

0

Time-->



#14

Allyl chloride

Concen: 3.996 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.02 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

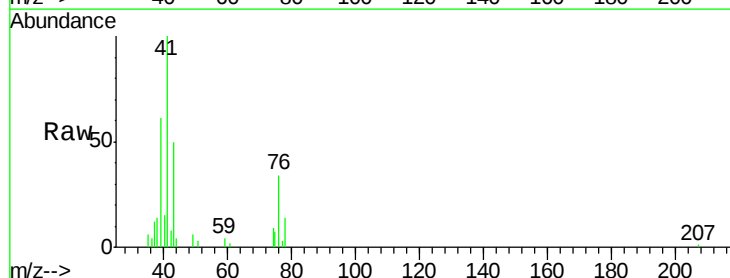
Tgt Ion: 41 Resp: 13328

Ion Ratio Lower Upper

41 100

39 61.3 49.0 73.6

76 36.9 28.9 43.3



Abundance Ion 41.00 (40.70 to 41.70): VY001845.D (-431) (-)

Ion 39.00 (38.70 to 39.70): VY001845.D (-431) (-)

Ion 75.90 (75.60 to 76.60): VY001845.D (-431) (-)

4.49

5000

4000

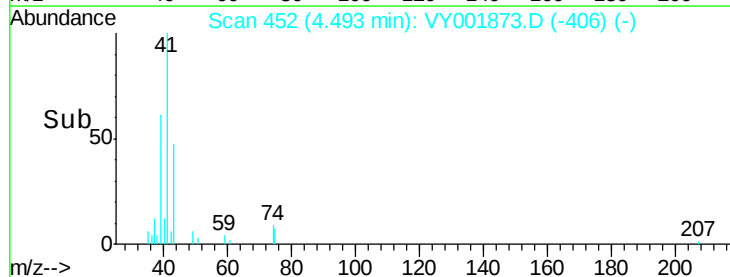
3000

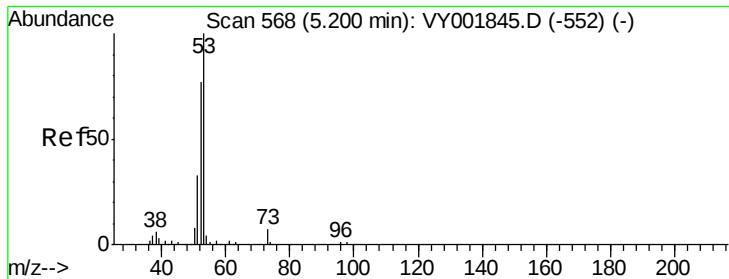
2000

1000

0

Time-->





#15

Acrylonitrile

Concen: 20.211 ug/l

RT: 5.19 min Scan# 567

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

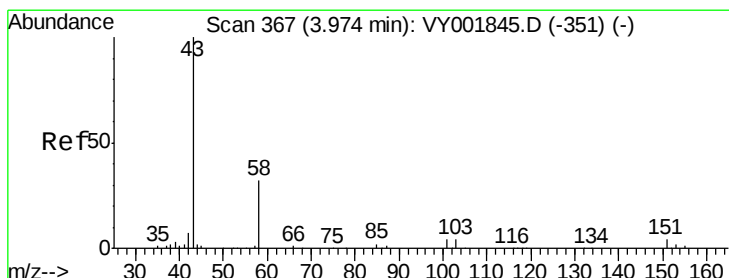
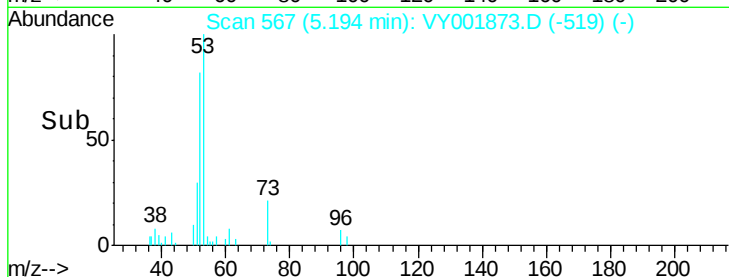
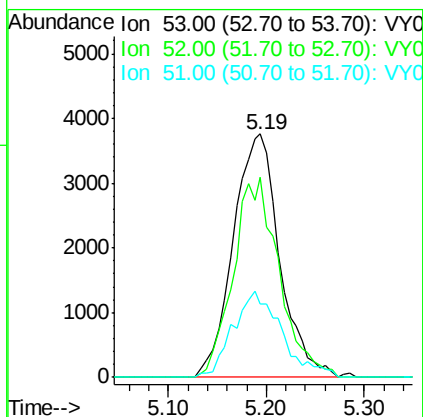
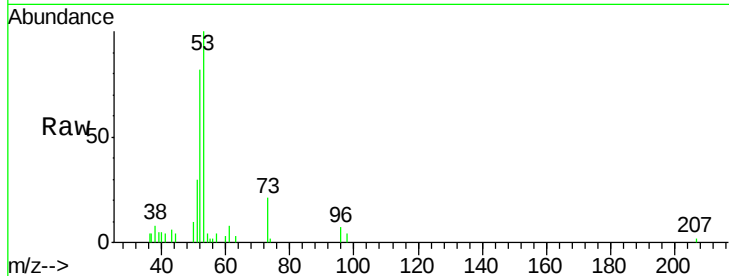
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	53	Resp	12365
Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.1	97.7
51	37.1	27.5	41.3

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 20.201 ug/l

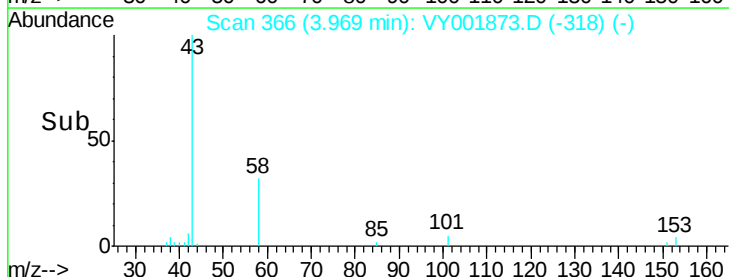
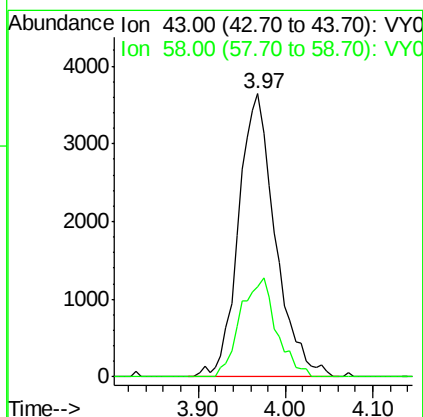
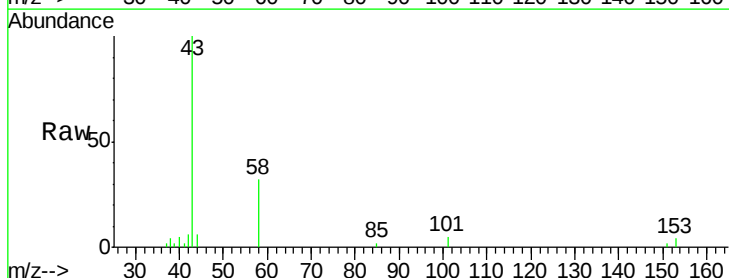
RT: 3.97 min Scan# 366

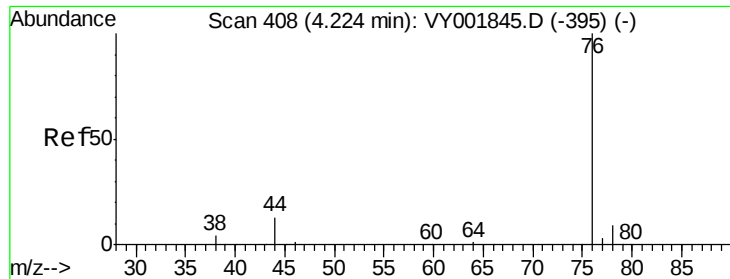
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion	43	Resp	10628
Ion	Ratio	Lower	Upper
43	100		
58	32.0	25.9	38.9





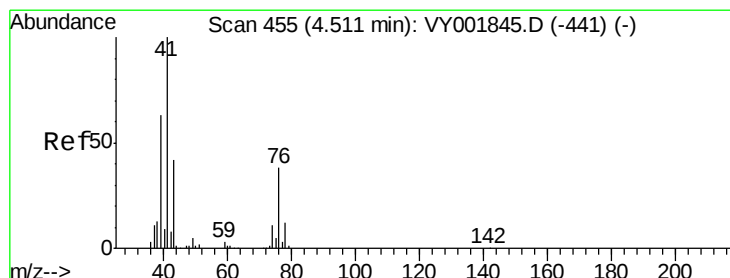
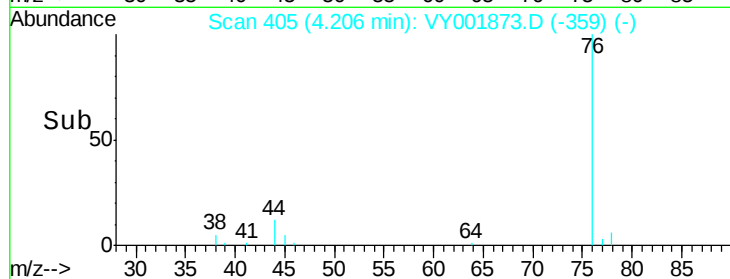
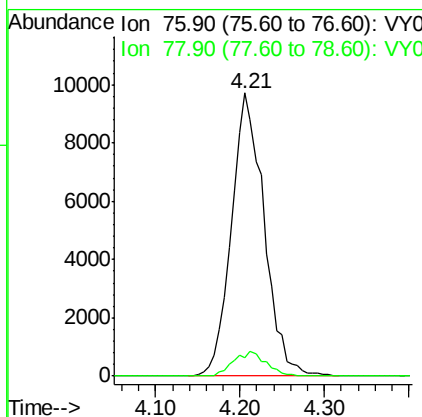
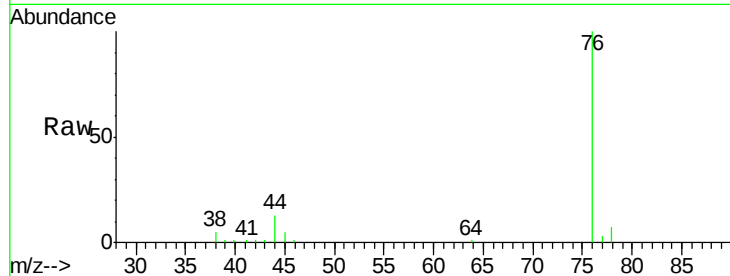
#17
Carbon Disulfide
Concen: 4.030 ug/l
RT: 4.21 min Scan# 405
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 76 Resp: 25488
Ion Ratio Lower Upper
76 100
78 6.7 7.4 11.2#

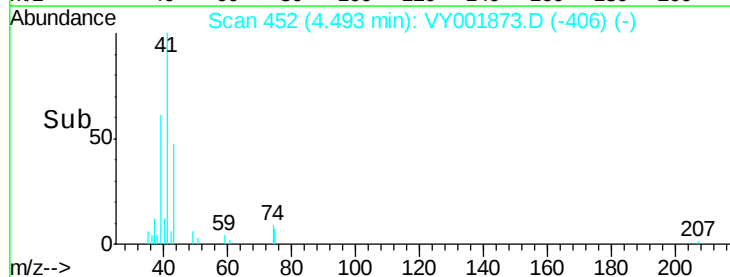
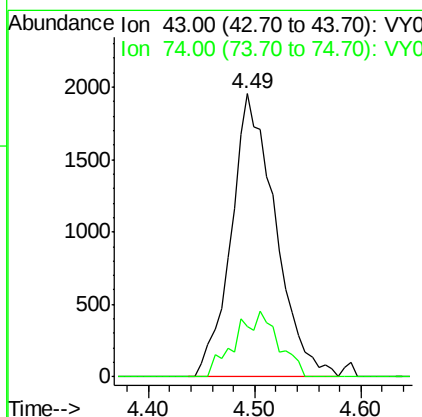
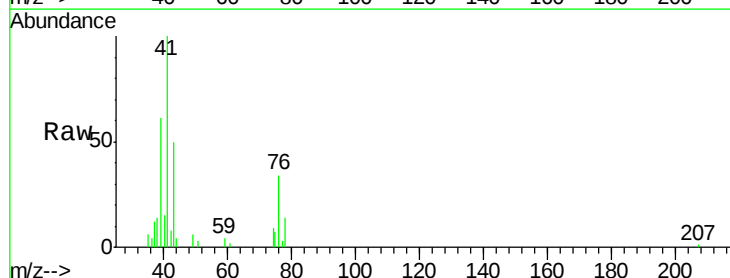
Manual Integrations
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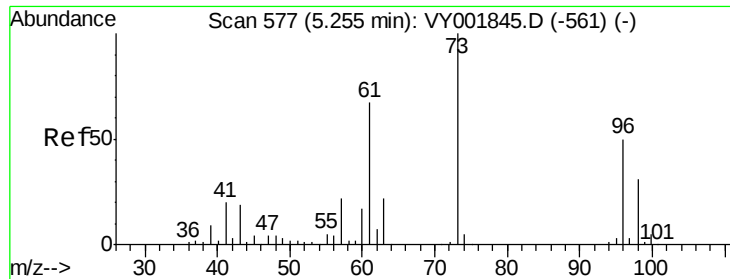
MMDadoda
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#18
Methyl Acetate
Concen: 4.205 ug/l
RT: 4.49 min Scan# 452
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 43 Resp: 5685
Ion Ratio Lower Upper
43 100
74 22.6 19.0 28.6





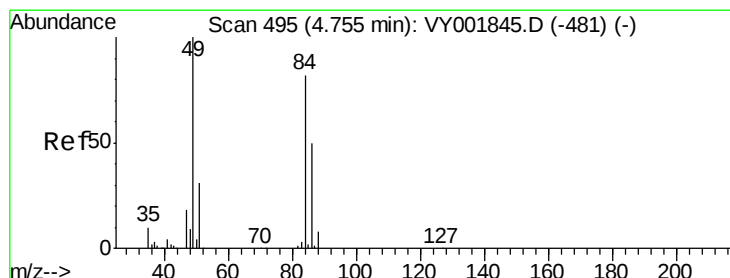
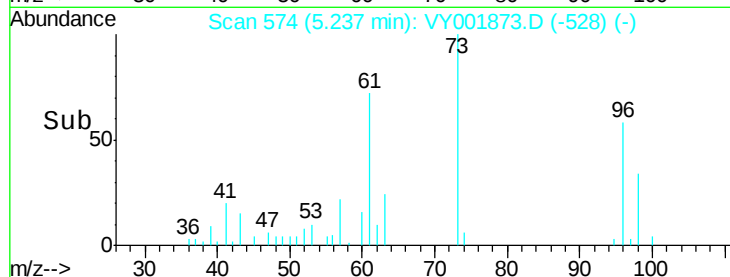
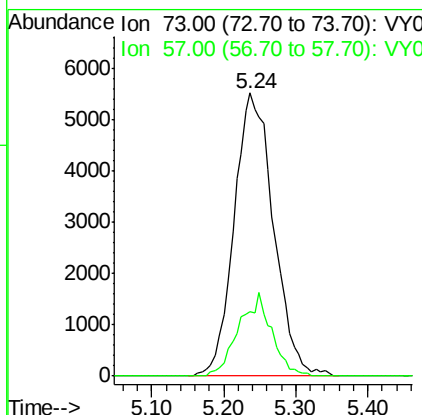
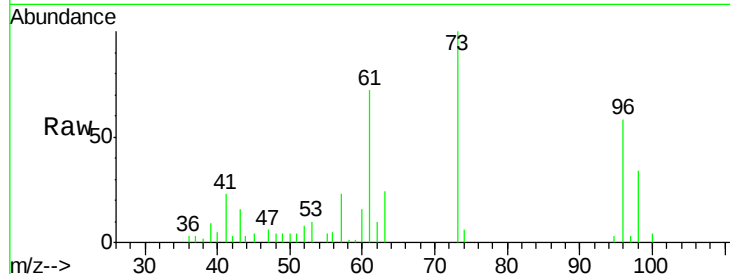
#19
Methvl tert-butvl Ether
Concen: 4.112 ug/l
RT: 5.24 min Scan# 574
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 73 Resp: 20965
Ion Ratio Lower Upper
73 100
57 22.9 17.4 26.2

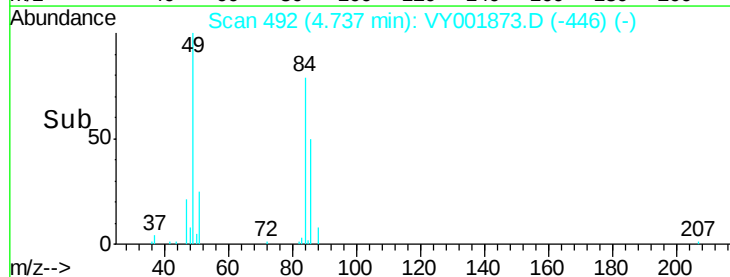
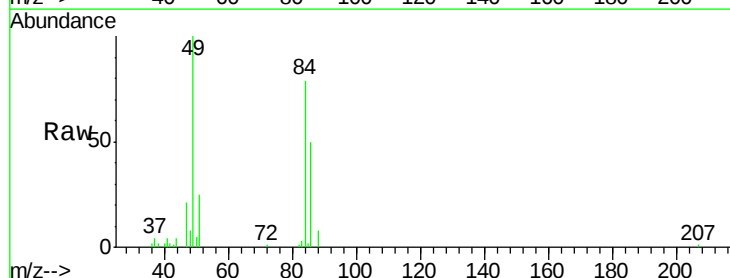
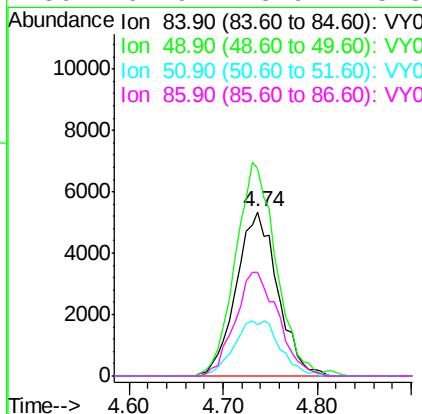
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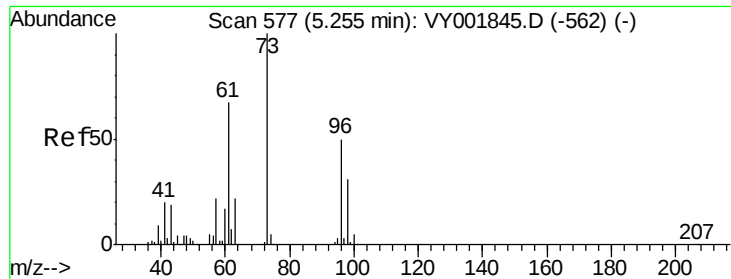
MMDadoda
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#20
Methylene Chloride
Concen: 7.280 ug/l
RT: 4.74 min Scan# 492
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 84 Resp: 16415
Ion Ratio Lower Upper
84 100
49 126.5 98.2 147.2
51 31.4 30.2 45.2
86 62.9 48.9 73.3





#21

trans-1,2-Dichloroethene

Concen: 4.223 ug/l

RT: 5.24 min Scan# 574

Delta R.T. -0.02 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

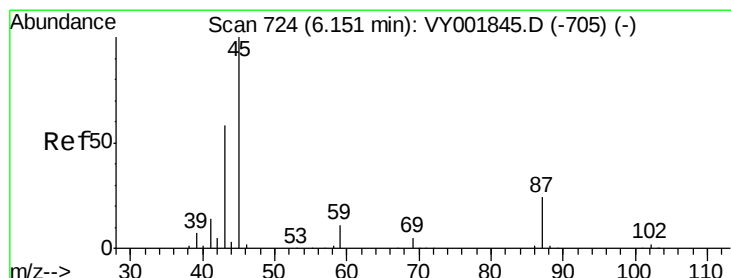
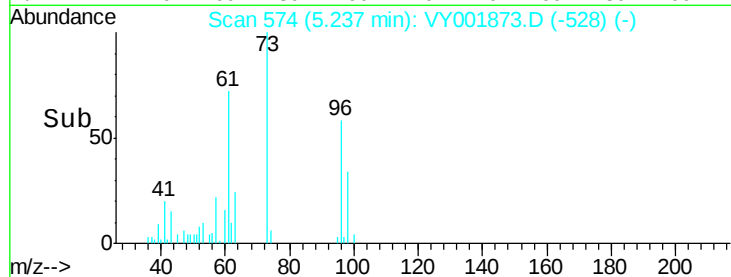
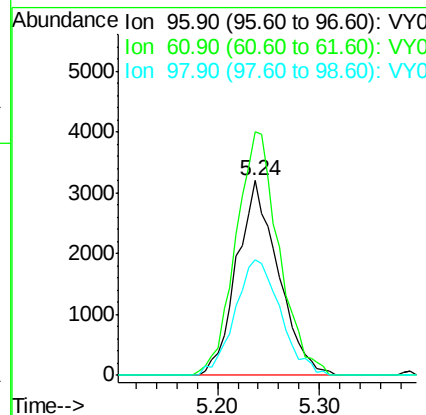
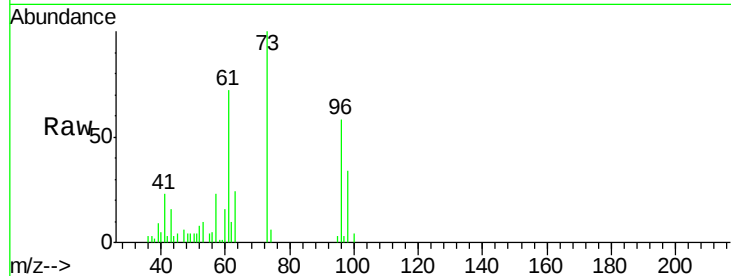
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.0	107.7	161.5
98	59.5	49.3	73.9

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.073 ug/l

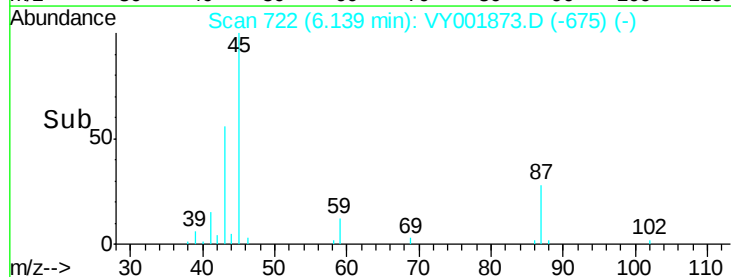
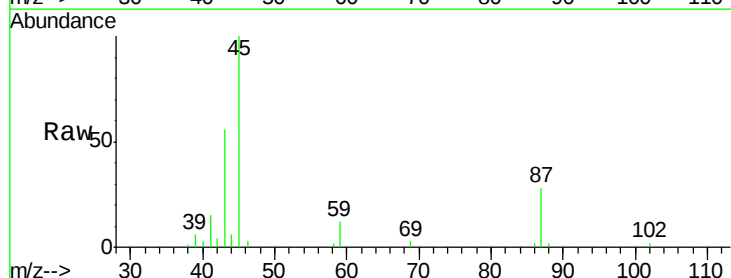
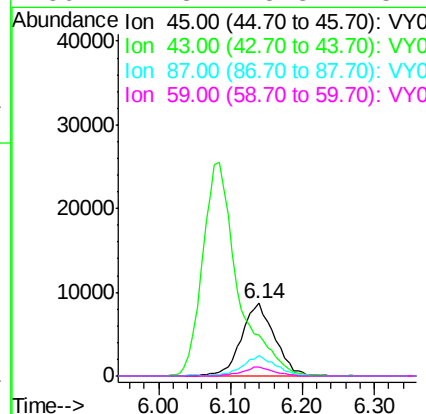
RT: 6.14 min Scan# 722

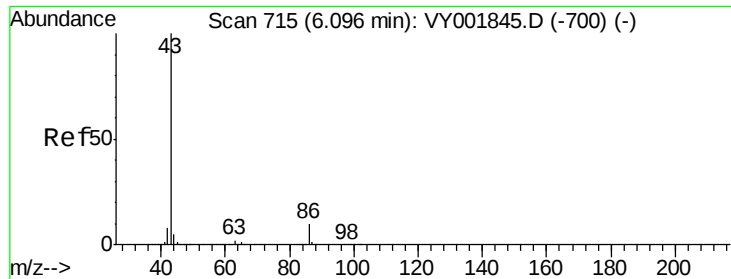
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.4	47.2	70.8
87	28.3	19.8	29.8
59	12.3	8.8	13.2





#23

Vinyl Acetate

Concen: 19.371 ug/l

RT: 6.08 min Scan# 713

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 86816

Ion Ratio Lower Upper

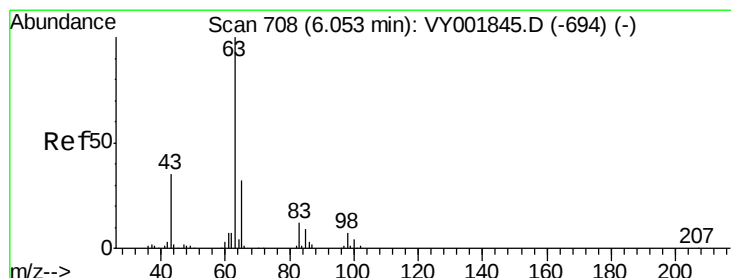
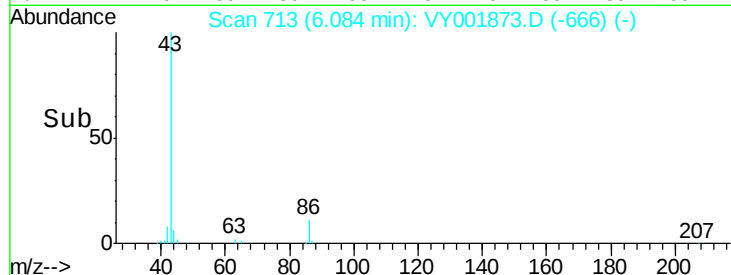
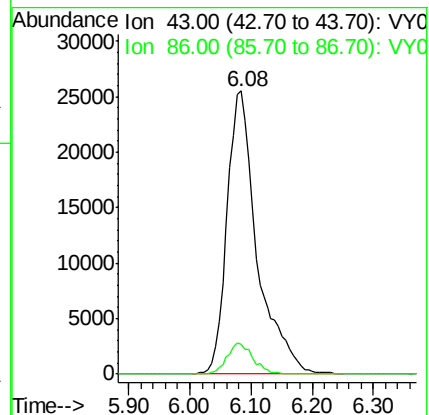
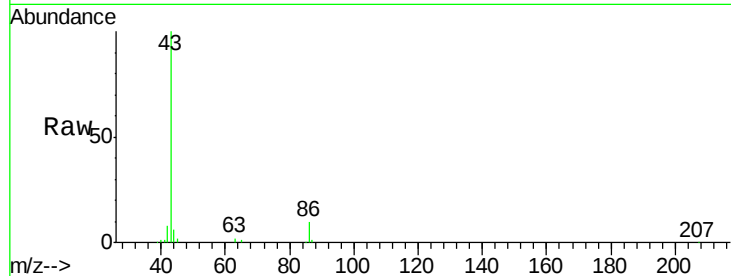
43 100

86 10.4 7.8 11.8

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 4.073 ug/l

RT: 6.04 min Scan# 705

Delta R.T. -0.02 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

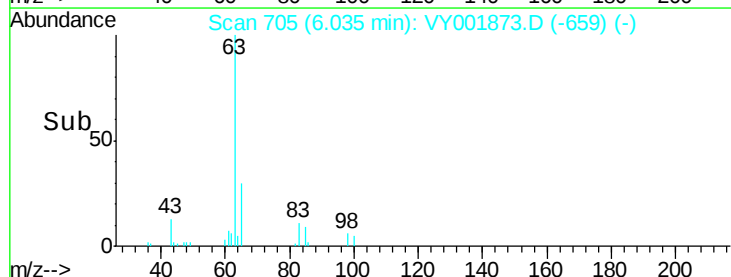
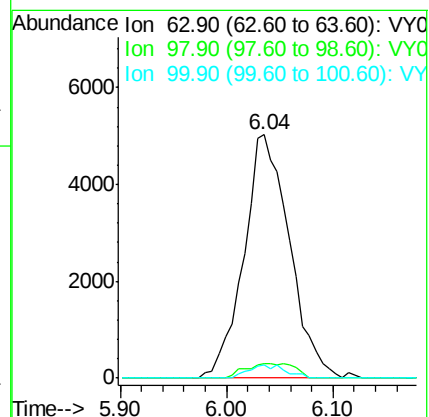
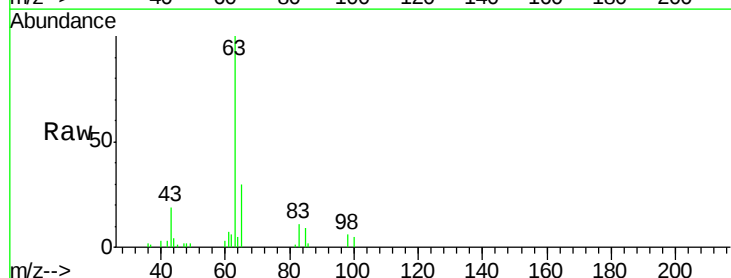
Tgt Ion: 63 Resp: 15077

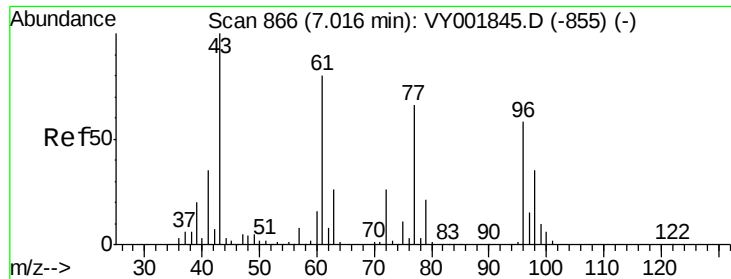
Ion Ratio Lower Upper

63 100

98 6.2 3.4 10.2

100 5.2 2.0 6.0





#25

2-Butanone

Concen: 19.523 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 15620

Ion Ratio Lower Upper

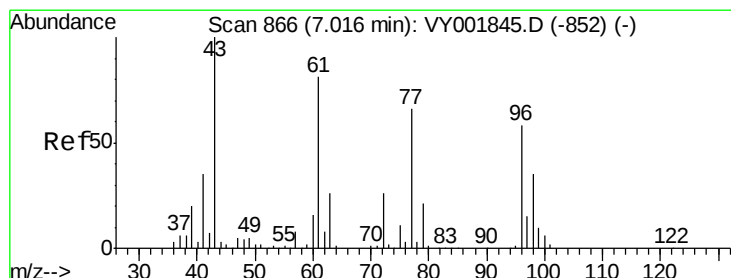
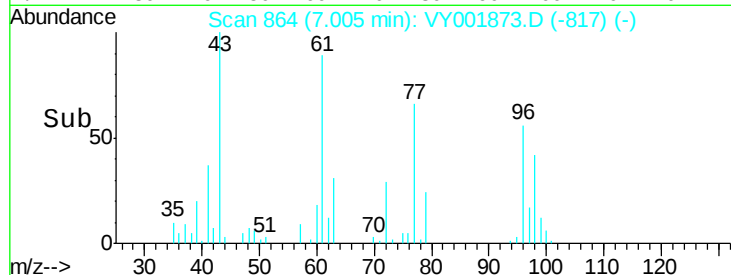
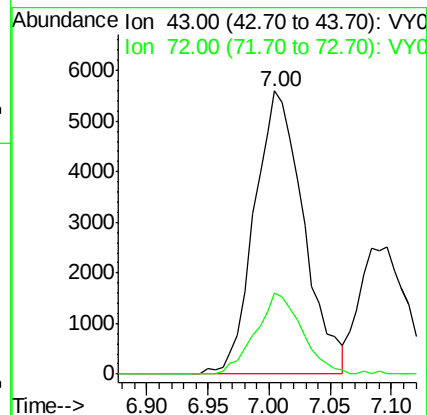
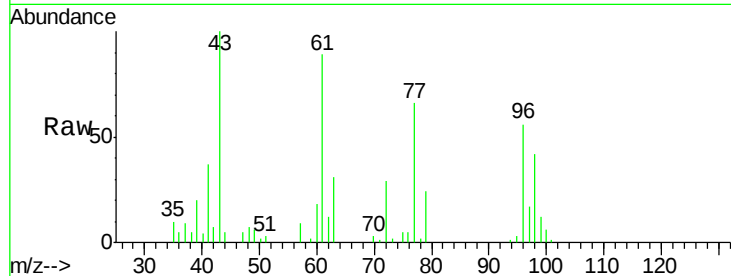
43 100

72 28.6 20.9 31.3

Manual Integrations
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MMDadoda

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#26

2,2-Dichloropropane

Concen: 4.010 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.02 min

Lab File: VY001873.D

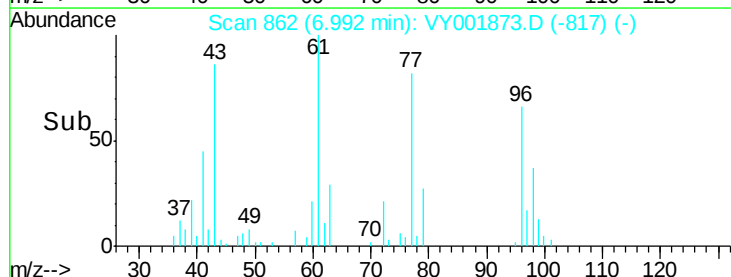
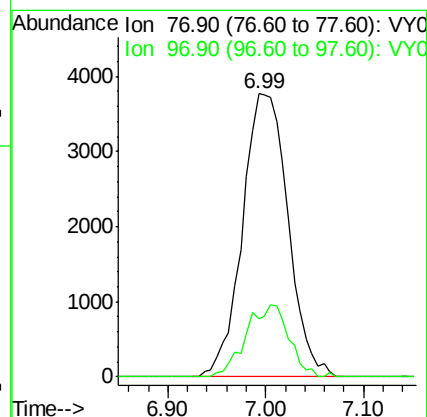
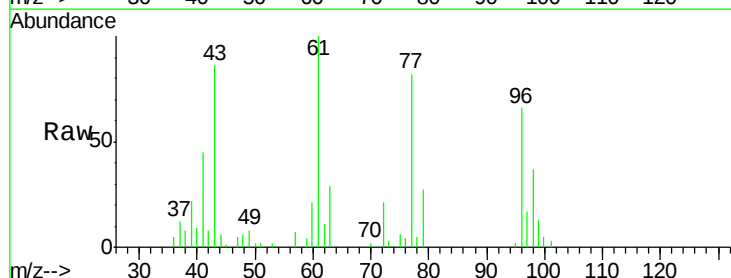
Acq: 05 Mar 2020 11:59

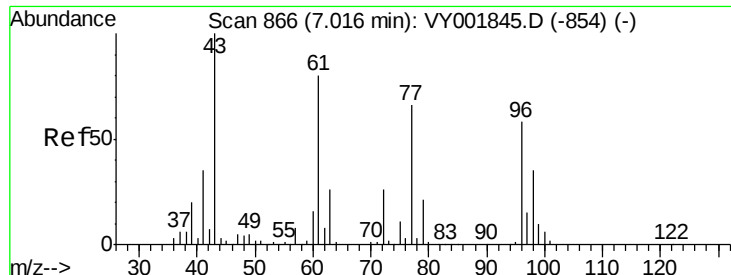
Tgt Ion: 77 Resp: 12184

Ion Ratio Lower Upper

77 100

97 23.8 11.9 35.7





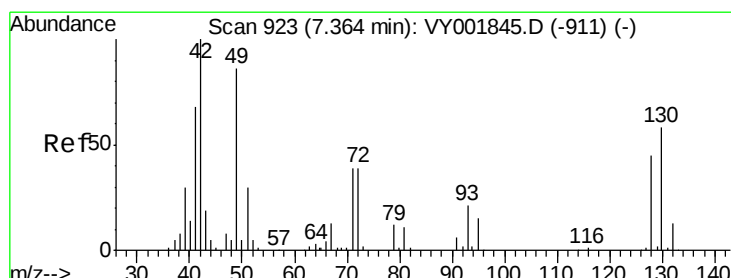
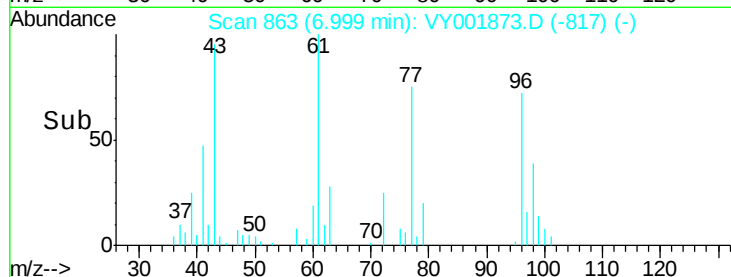
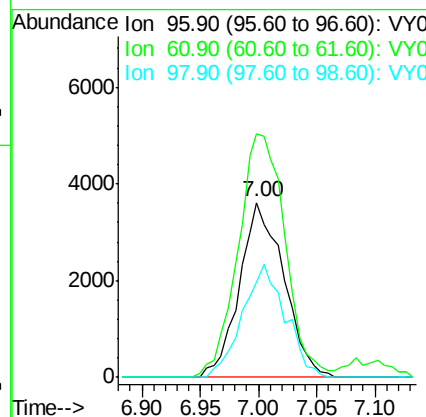
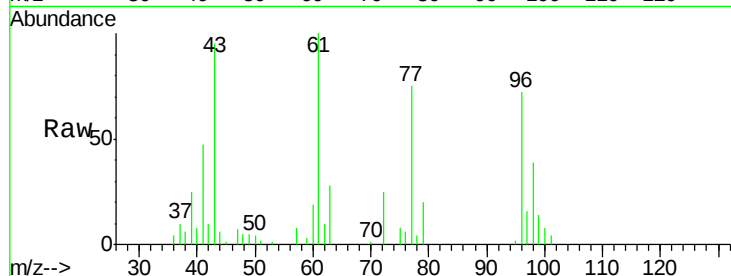
#27
 cis-1,2-Dichloroethene
 Concen: 4.113 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. -0.02 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	288.2
98	62.7	0.0	129.0

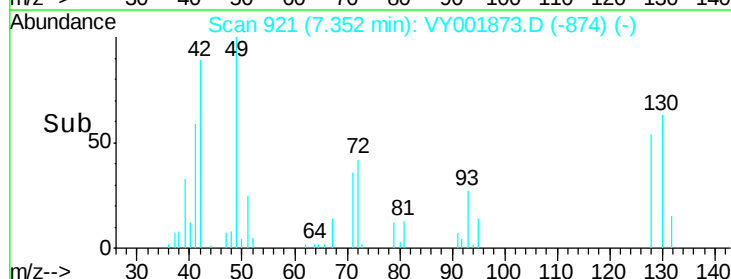
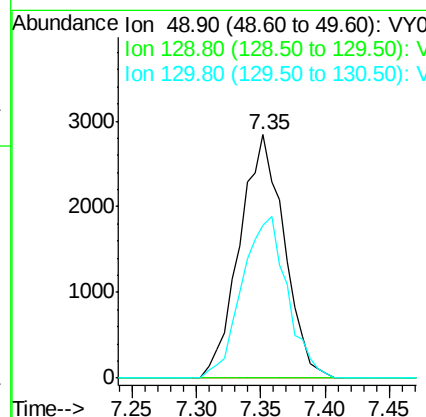
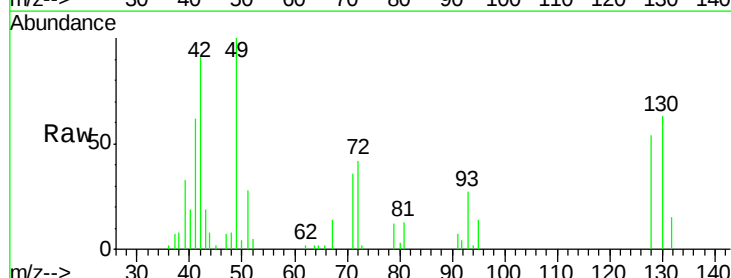
Manual Integrations
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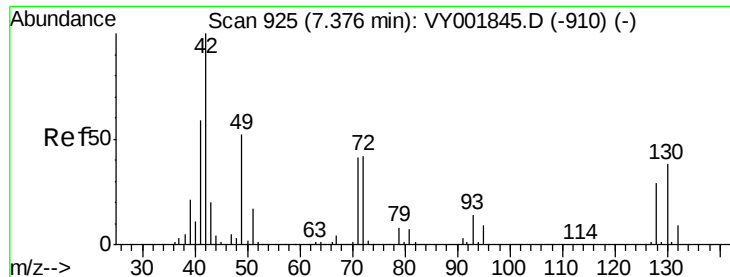
MMDadoda
 3/6/2020 11:16:52 AM



#28
 Bromochloromethane
 Concen: 4.082 ug/l
 RT: 7.35 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	67.6	54.4	81.6





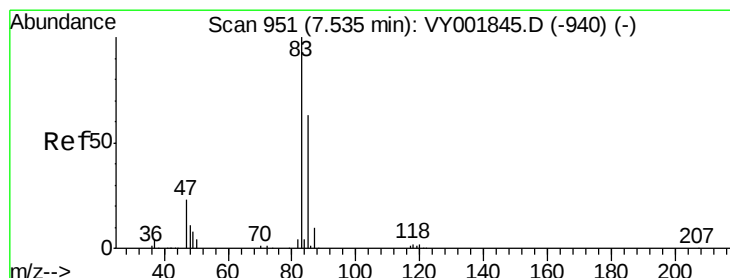
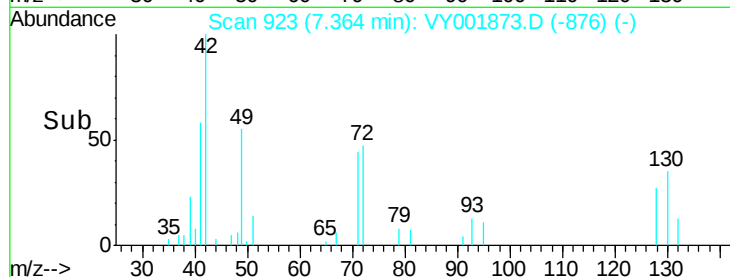
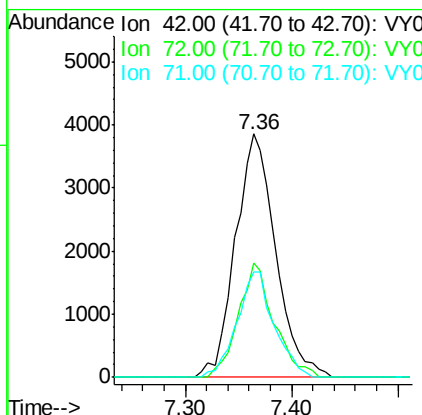
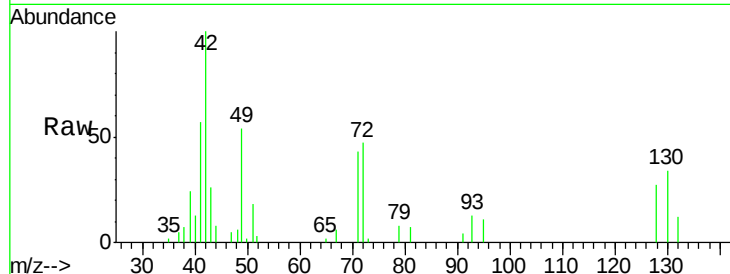
#29
Tetrahydrofuran
Concen: 19.226 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.5	50.3
71	40.0	31.3	46.9

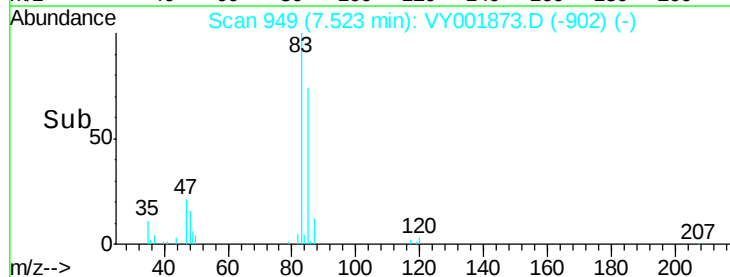
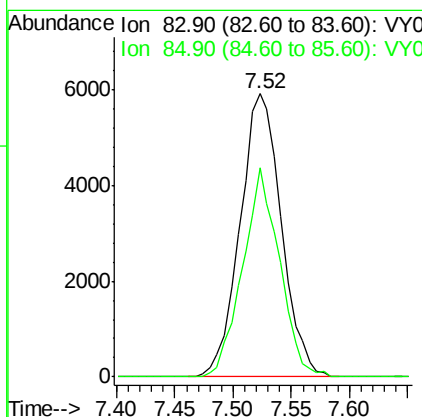
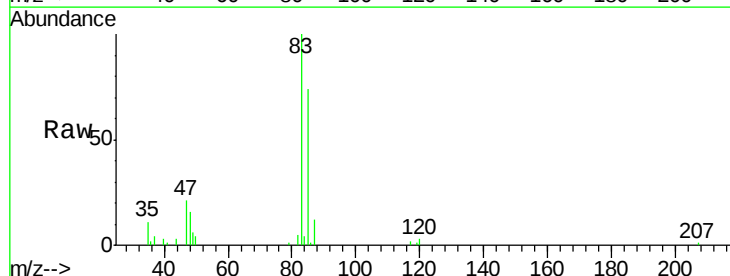
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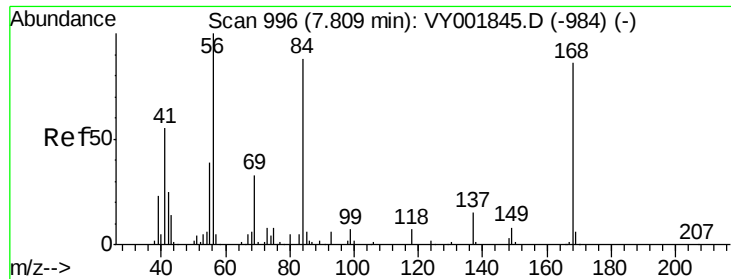
MMDadoda
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#30
Chloroform
Concen: 4.191 ug/l
RT: 7.52 min Scan# 949
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	73.8	50.7	76.1





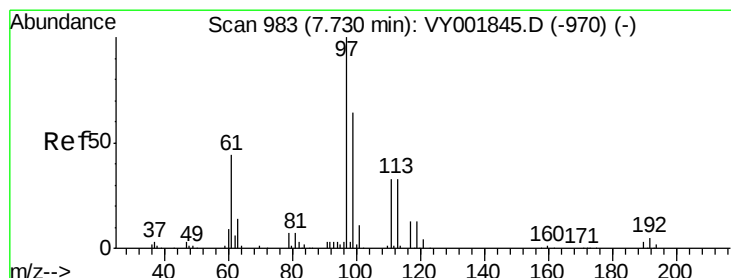
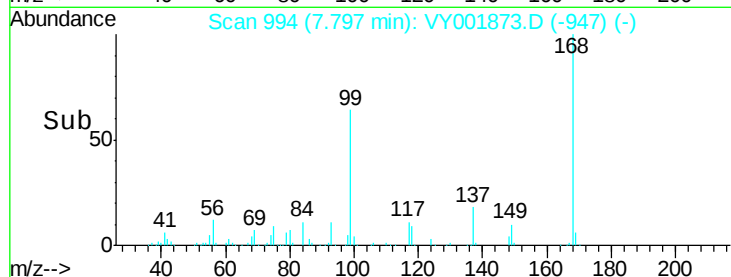
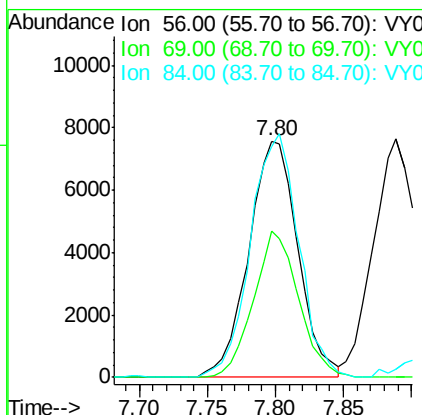
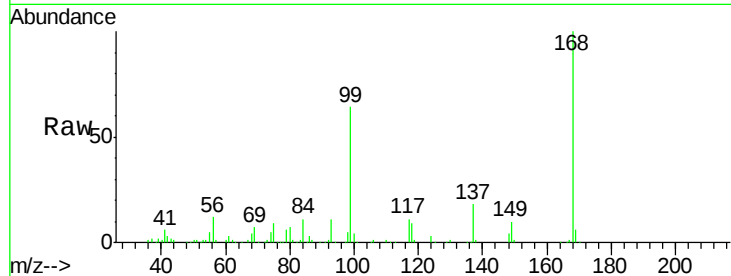
#31
Cyclohexane
Concen: 4.824 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	62.1	26.7	40.1#
84	97.8	70.4	105.6

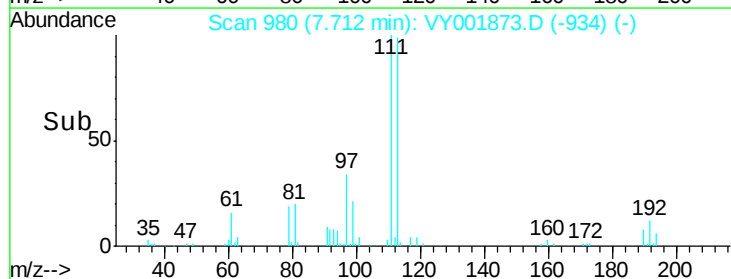
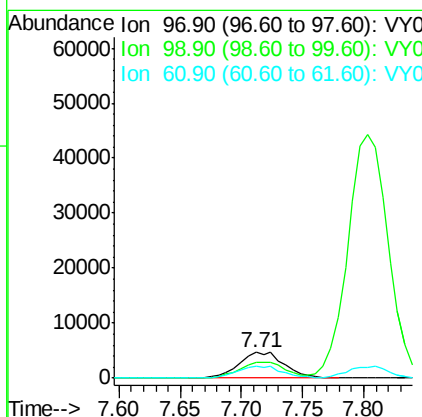
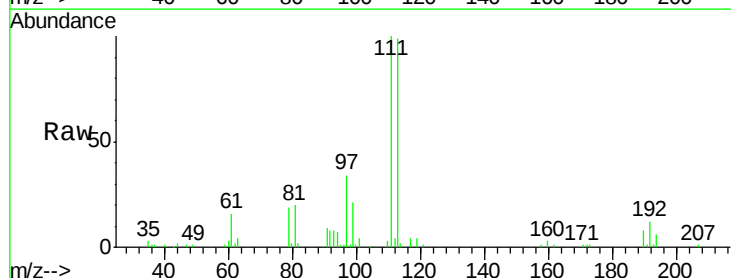
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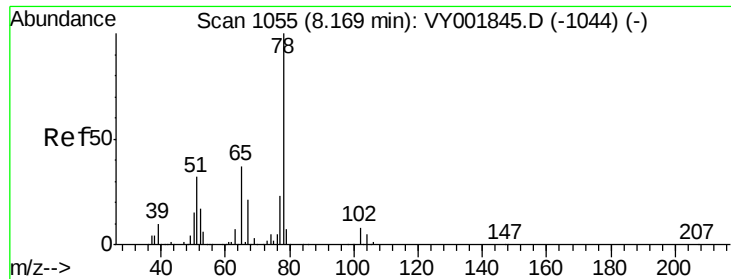
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 4.080 ug/l
RT: 7.71 min Scan# 980
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	52.0	78.0
61	46.1	35.0	52.4





#33

1,2-Dichloroethane-d4

Concen: 51.415 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 65 Resp: 92873

Ion Ratio Lower Upper

65 100

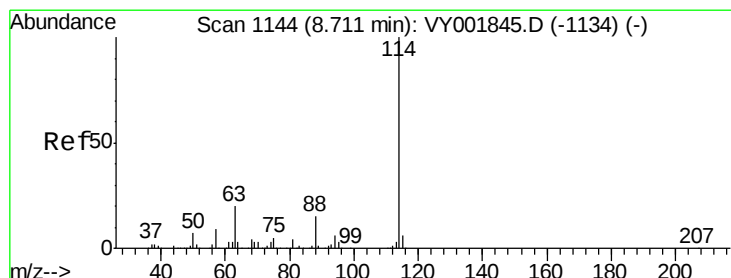
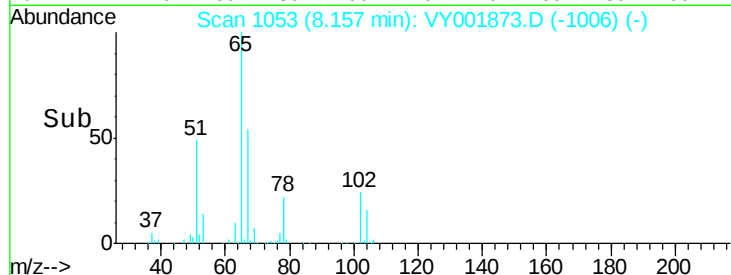
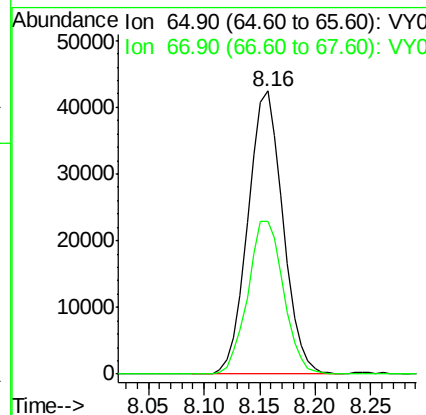
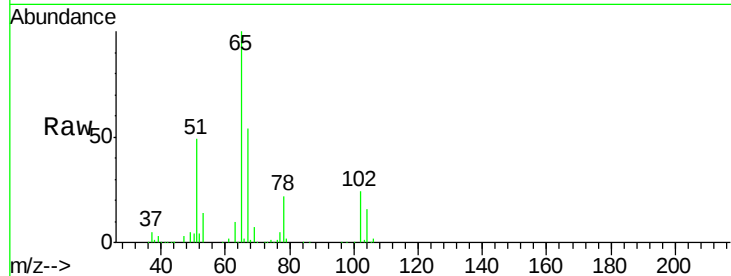
67 55.0 0.0 110.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

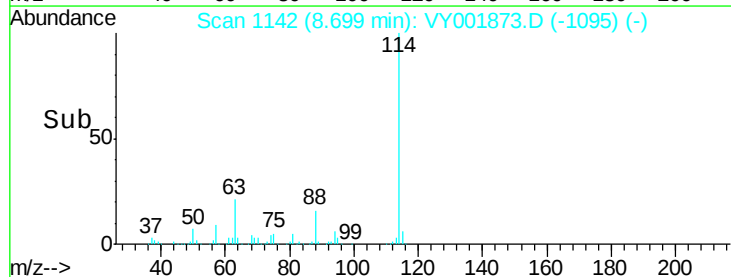
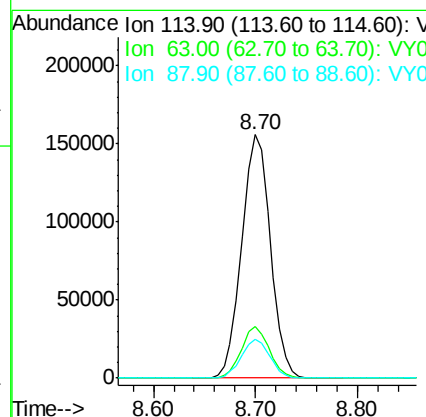
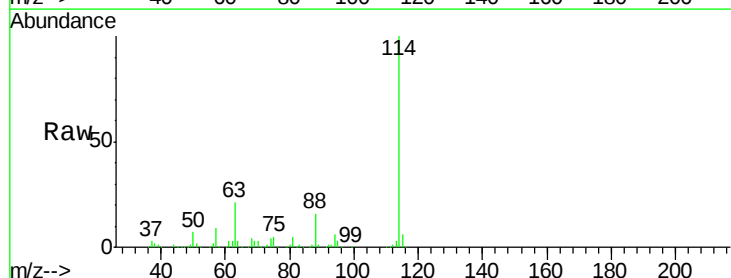
Tgt Ion: 114 Resp: 303506

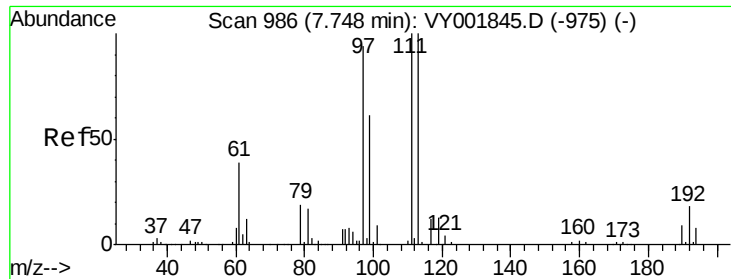
Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.4

88 16.0 0.0 30.4





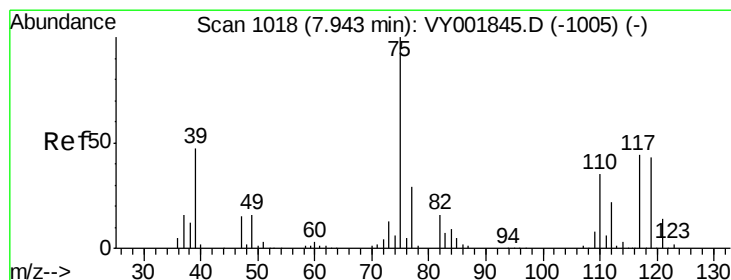
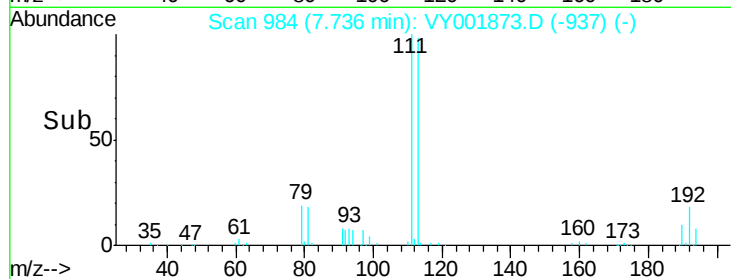
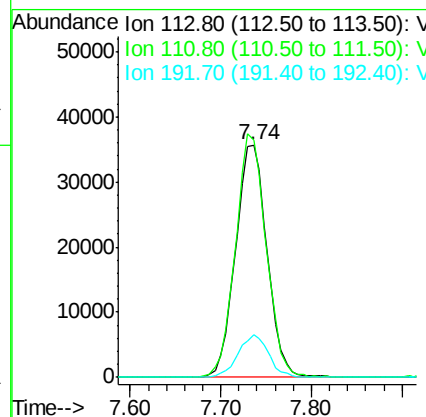
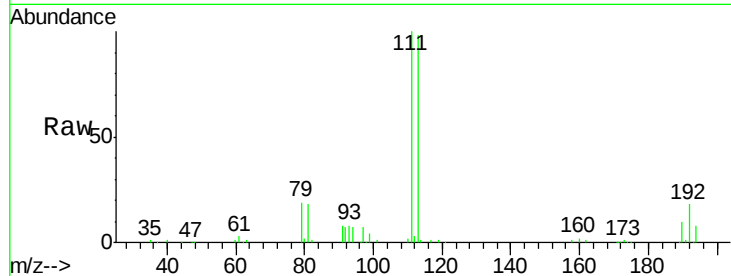
#35
Dibromofluoromethane
Concen: 51.919 ug/l
RT: 7.74 min Scan# 984
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	17.7	14.2	21.2

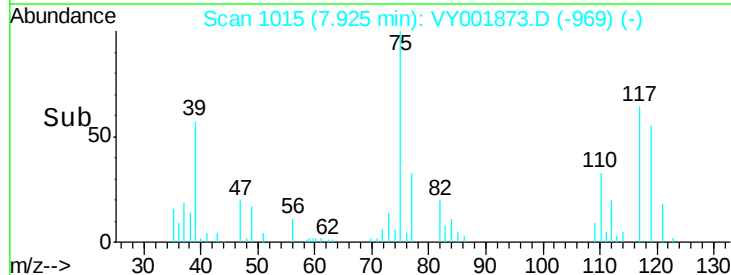
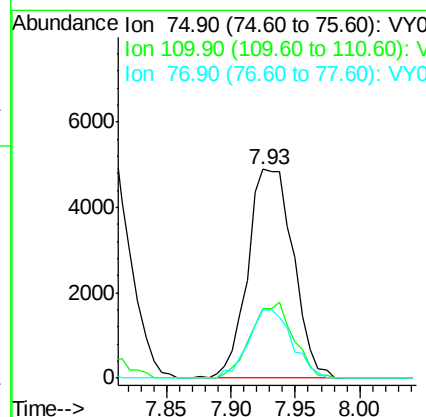
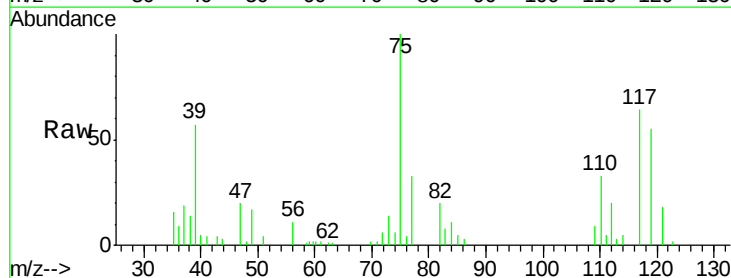
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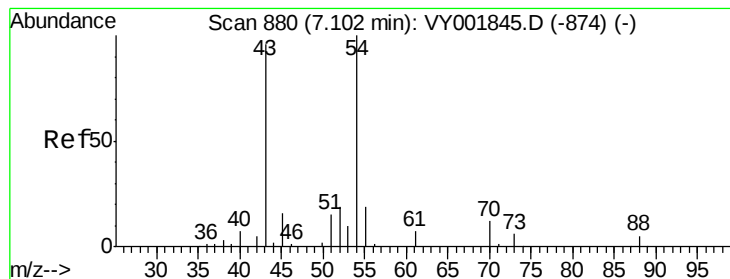
MMDadoda
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#36
1,1-Dichloropropene
Concen: 4.095 ug/l
RT: 7.93 min Scan# 1015
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.4	52.2
77	31.3	24.2	36.2





#37

Ethyl Acetate

Concen: 4.206 ug/l

RT: 7.10 min Scan# 879

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

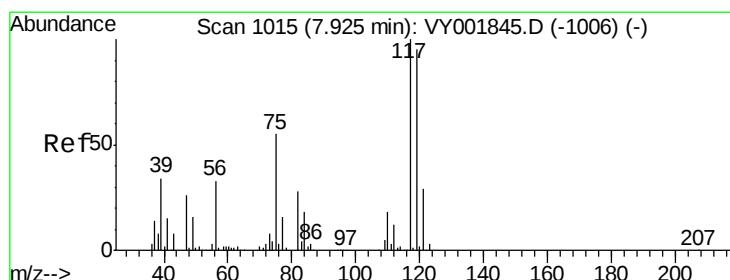
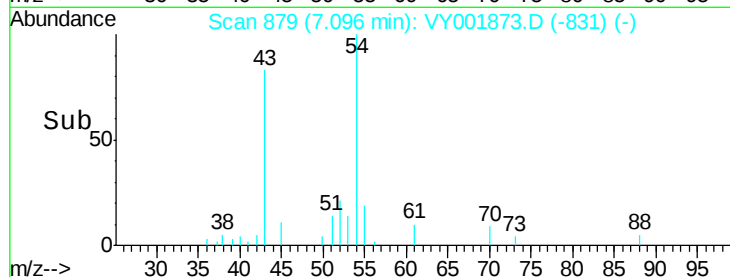
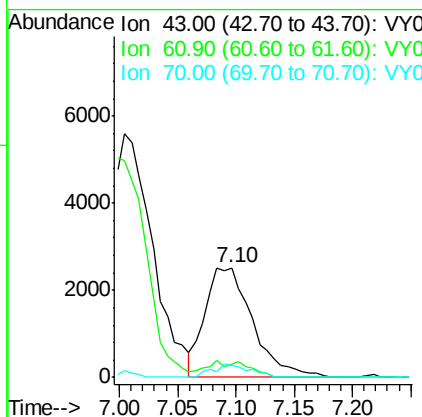
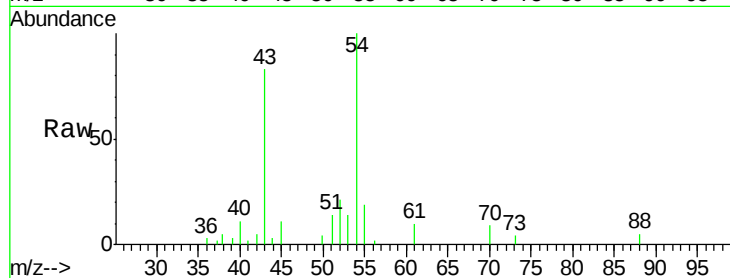
ClientSampleID :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	7140
Ion	Ratio	Lower	Upper
43	100		
61	12.6	11.1	16.7
70	9.2	8.2	12.4

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#38

Carbon Tetrachloride

Concen: 4.117 ug/l

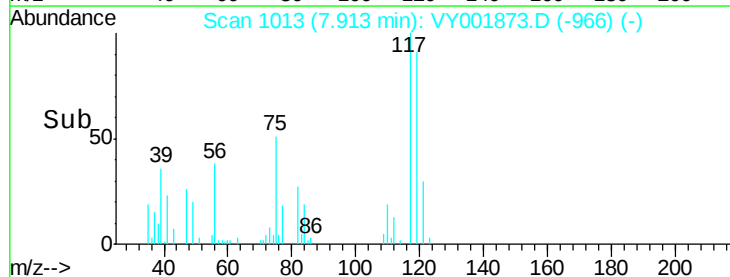
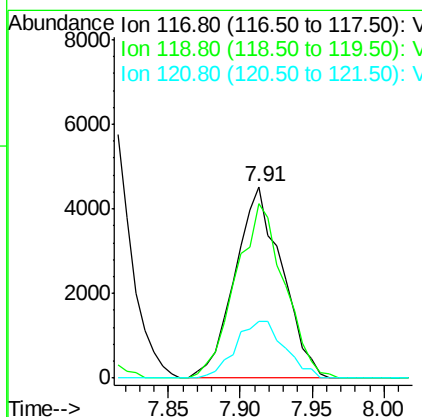
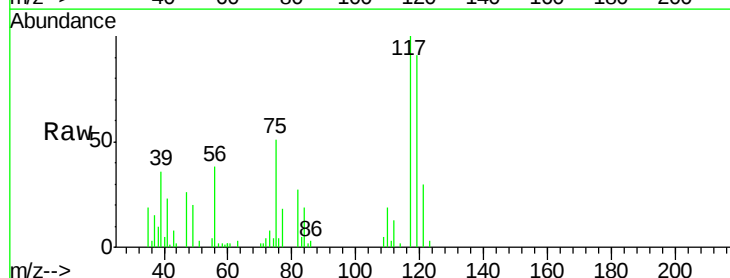
RT: 7.91 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	117	Resp:	10273
Ion	Ratio	Lower	Upper
117	100		
119	91.0	76.3	114.5
121	29.8	23.5	35.3





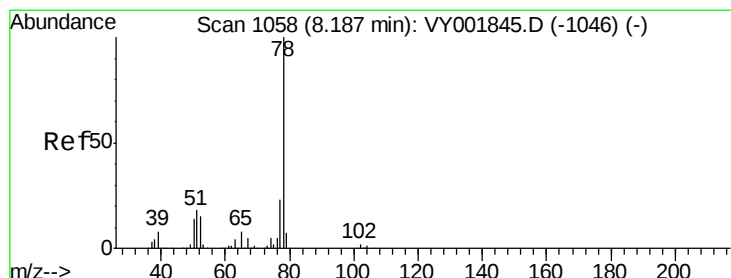
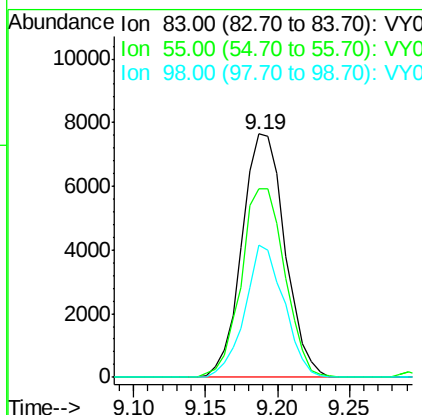
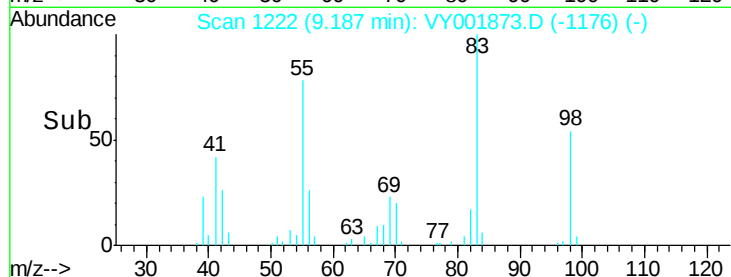
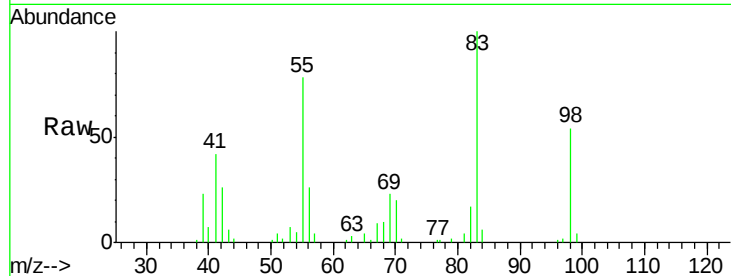
#39
Methvlcvclohexane
Concen: 4.085 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	83	Resp	15826
Ion Ratio	Lower	Upper	
83	100		
55	77.5	59.4	89.0
98	54.4	38.9	58.3

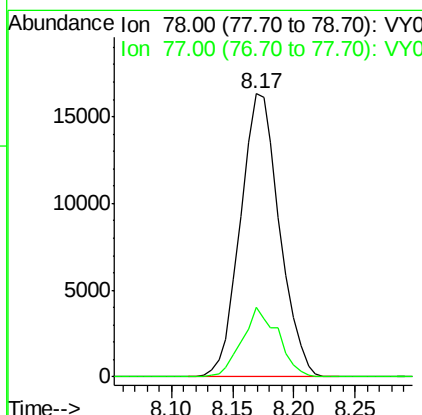
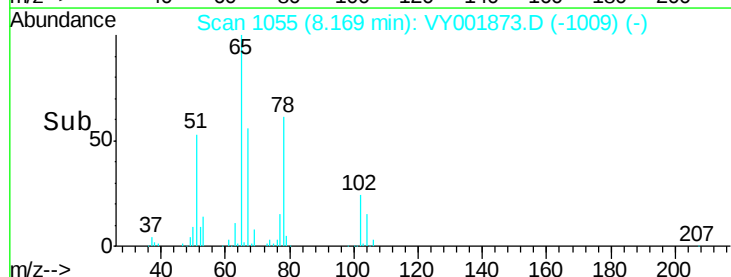
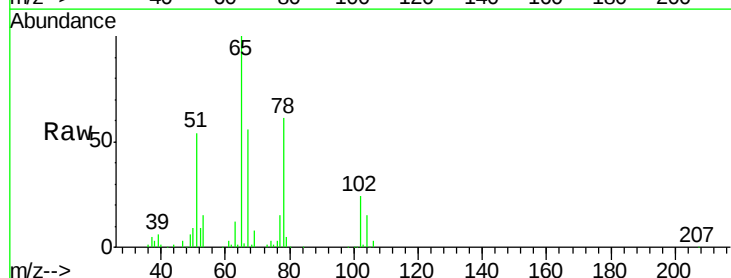
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#40
Benzene
Concen: 4.192 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	78	Resp	36288
Ion Ratio	Lower	Upper	
78	100		
77	24.7	18.7	28.1





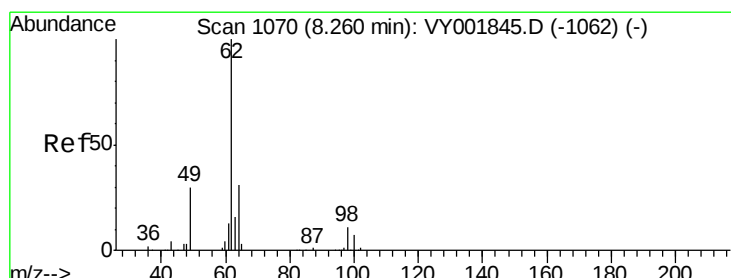
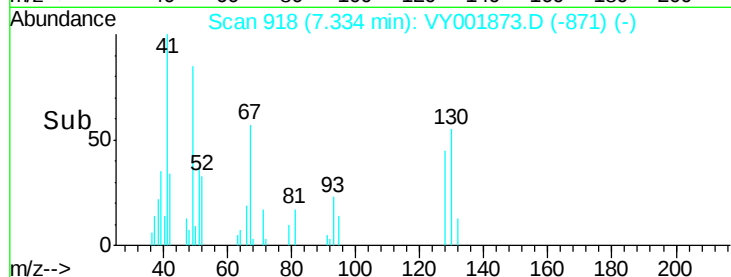
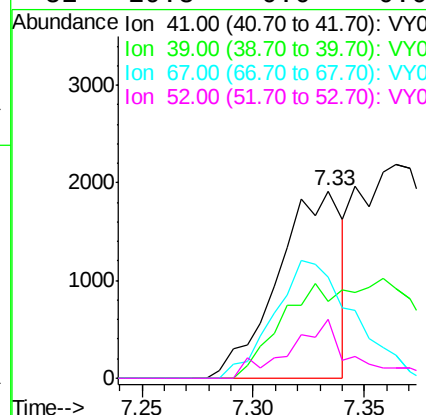
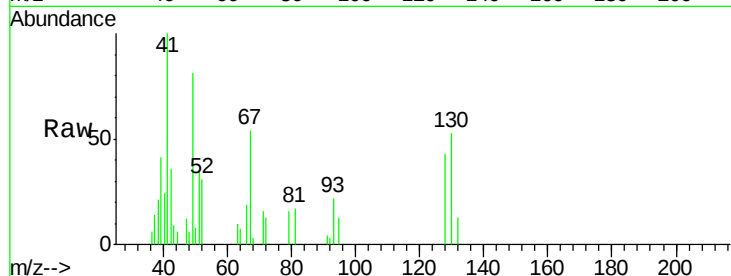
#41
Methacrylonitrile
Concen: 5.076 ug/l
RT: 7.33 min Scan# 918
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion:	41	Resp:	3878
Ion	Ratio	Lower	Upper
41	100		
39	39.4	111.7	167.5#
67	76.7	0.0	0.0#
52	29.8	0.0	0.0#

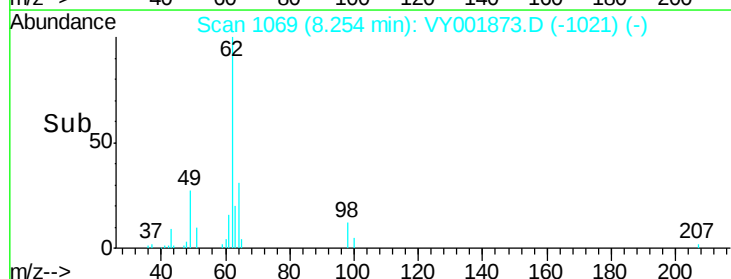
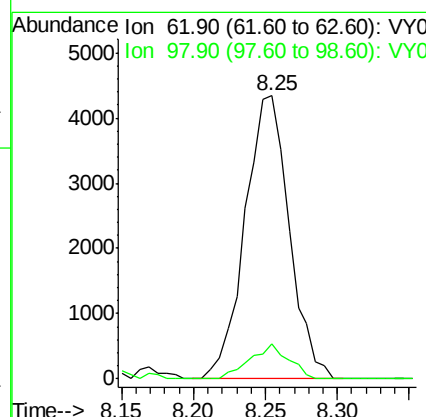
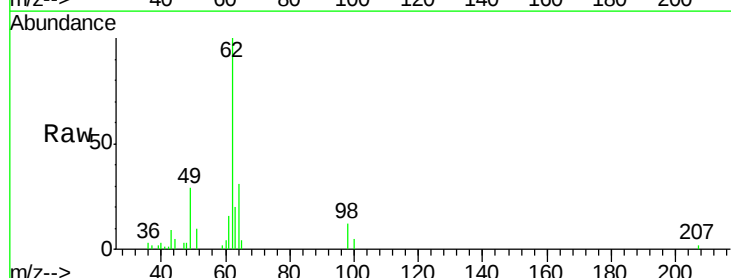
Manual Integrations
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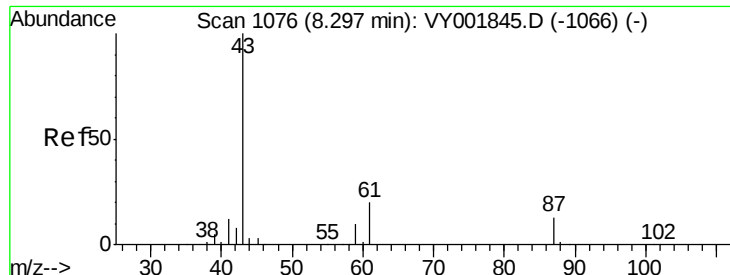
MMDadoda
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#42
1,2-Dichloroethane
Concen: 4.144 ug/l
RT: 8.25 min Scan# 1069
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion:	62	Resp:	9243
Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	21.4





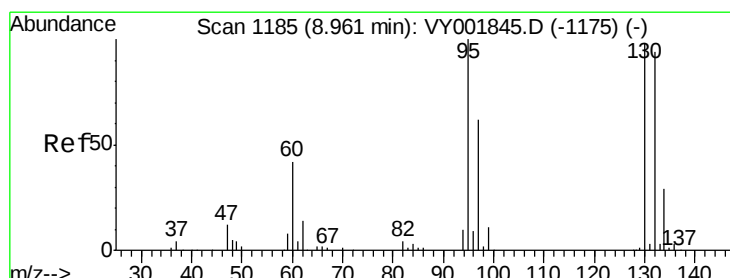
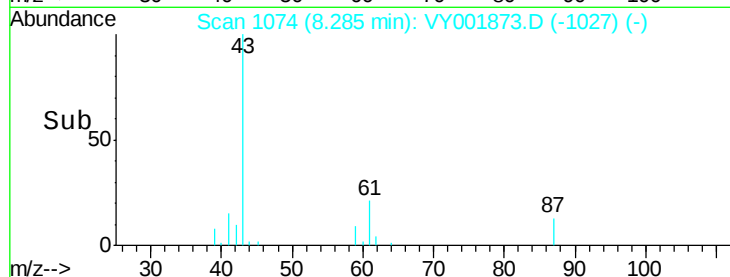
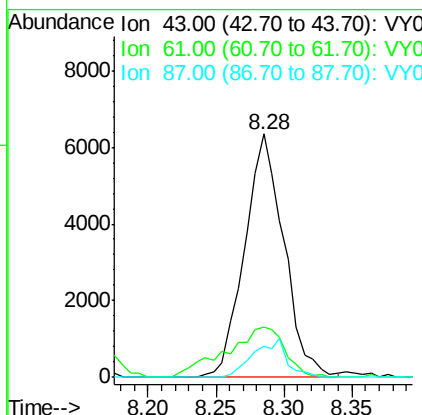
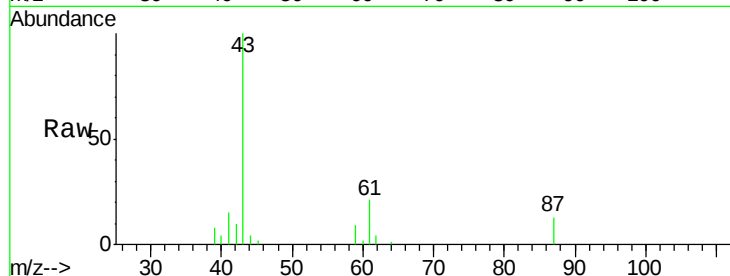
#43
Isopropyl Acetate
Concen: 4.005 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.9	23.8	35.6
87	13.5	10.9	16.3

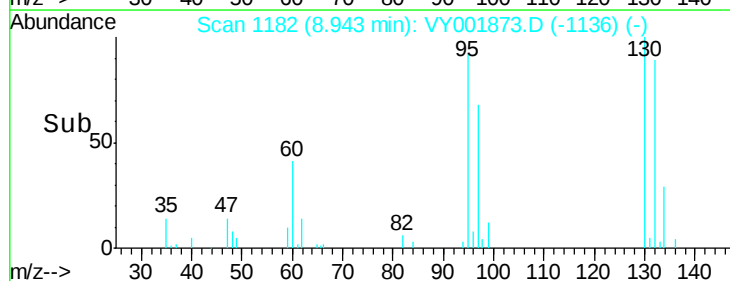
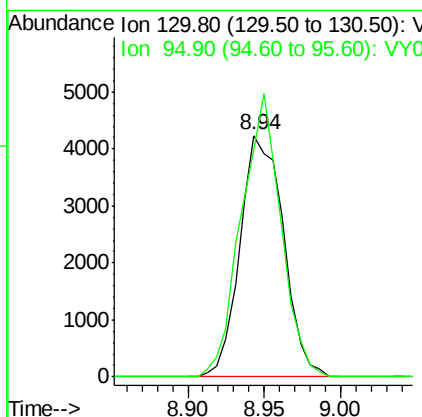
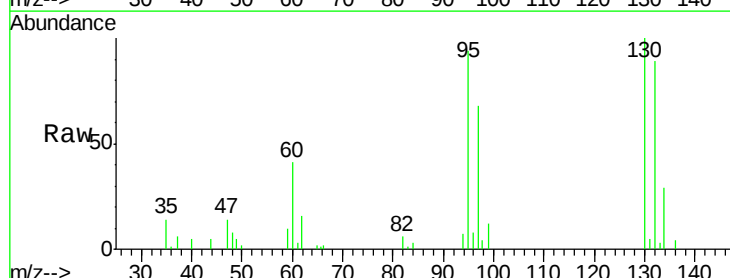
Manual Integrations
APPROVED

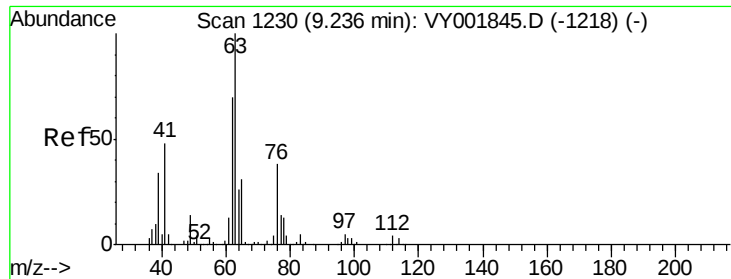
MMDadoda
3/6/2020 11:16:52 AM



#44
Trichloroethene
Concen: 3.965 ug/l
RT: 8.94 min Scan# 1182
Delta R.T. -0.02 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	204.6





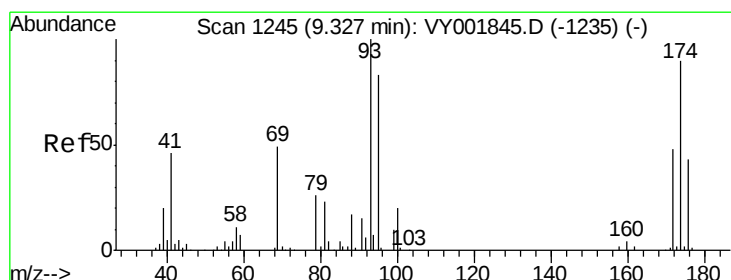
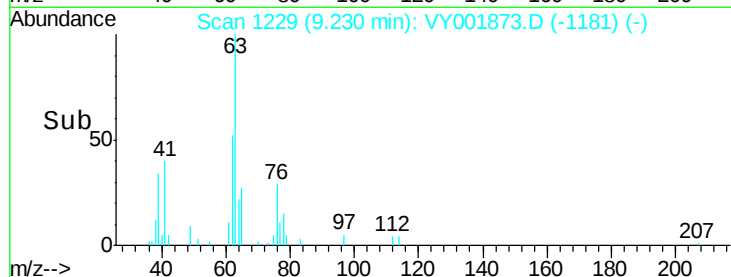
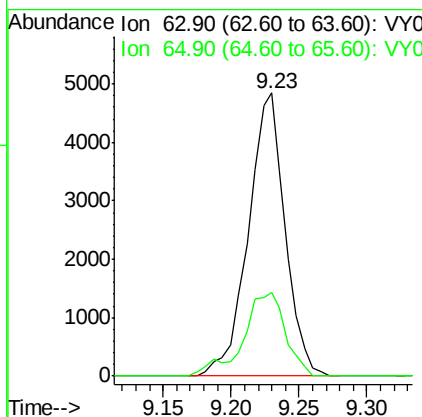
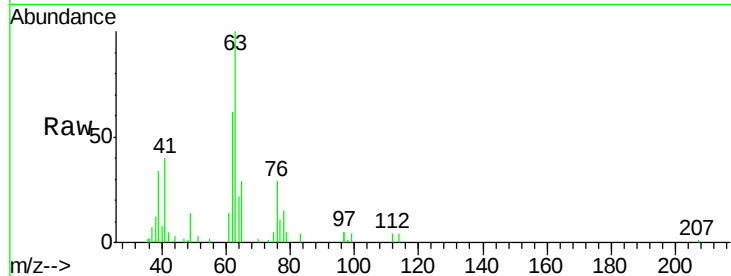
#45
 1,2-Dichloropropane
 Concen: 4.219 ug/l
 RT: 9.23 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion: 63 Resp: 9181
 Ion Ratio Lower Upper
 63 100
 65 29.5 24.9 37.3

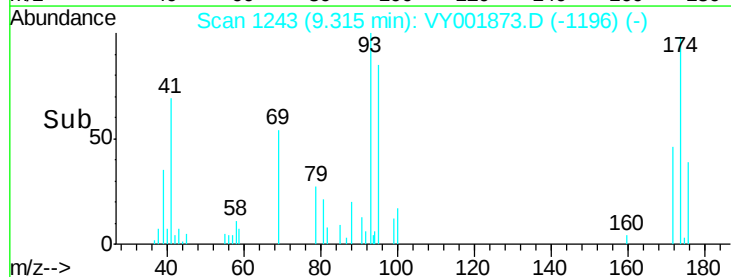
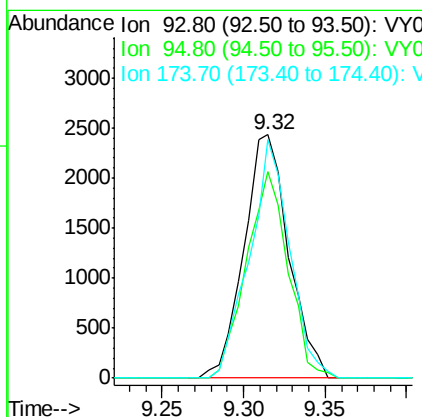
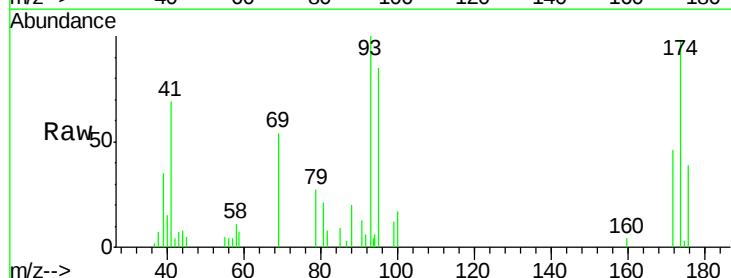
Manual Integrations
 APPROVED

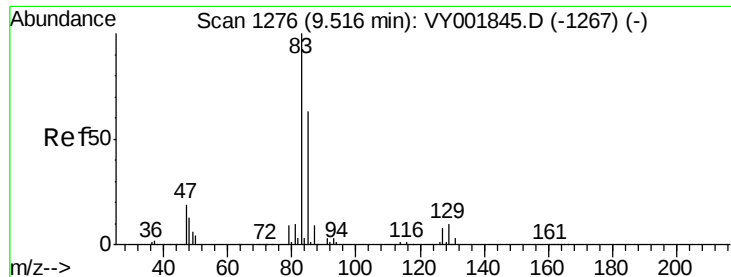
MMDadoda
 3/6/2020 11:16:52 AM



#46
 Dibromomethane
 Concen: 4.155 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion: 93 Resp: 4660
 Ion Ratio Lower Upper
 93 100
 95 78.9 67.0 100.4
 174 88.1 71.8 107.8





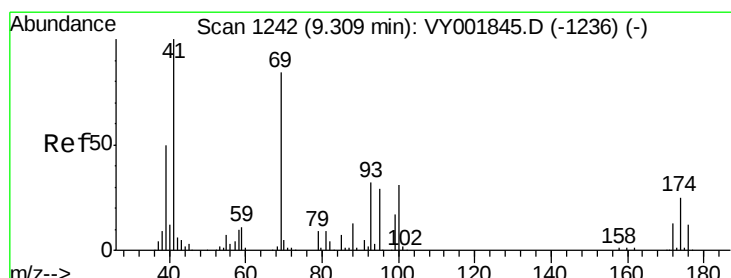
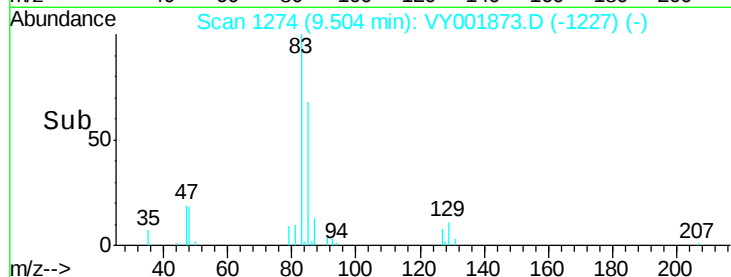
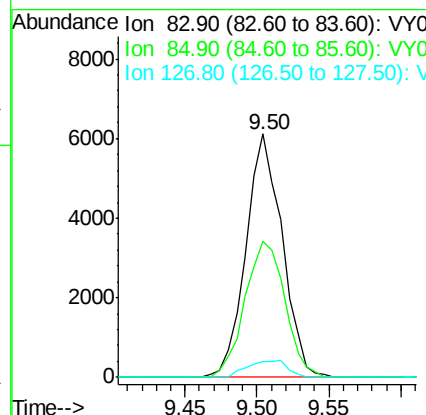
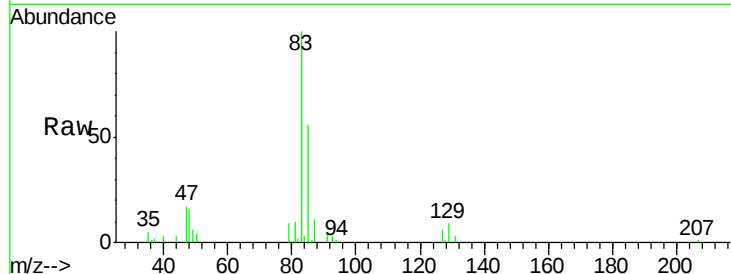
#47
Bromodichloromethane
Concen: 4.069 ug/l
RT: 9.50 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Resp	Lower	Upper
83	100	10615		
85	56.0		50.6	76.0
127	6.4		6.2	9.4

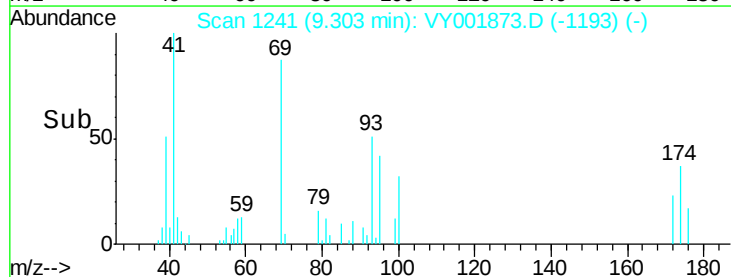
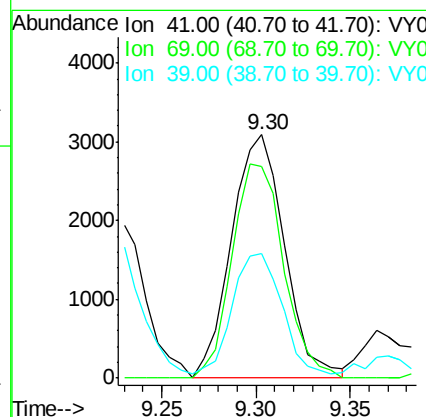
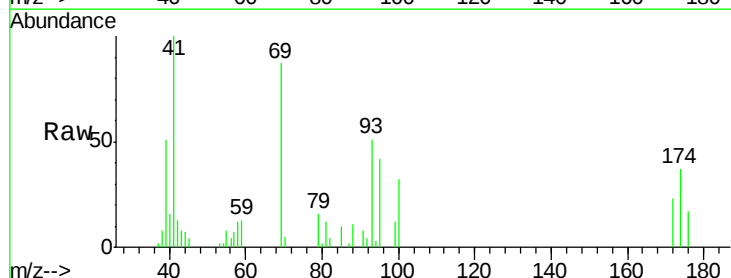
Manual Integrations
APPROVED

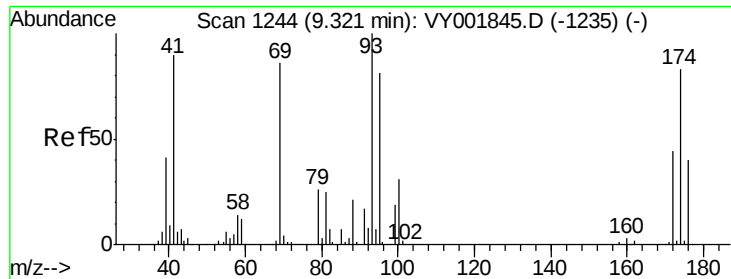
MMDadoda
3/6/2020 11:16:52 AM



#48
Methyl methacrylate
Concen: 4.240 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	6047		
69	85.6		69.0	103.6
39	49.2		39.1	58.7





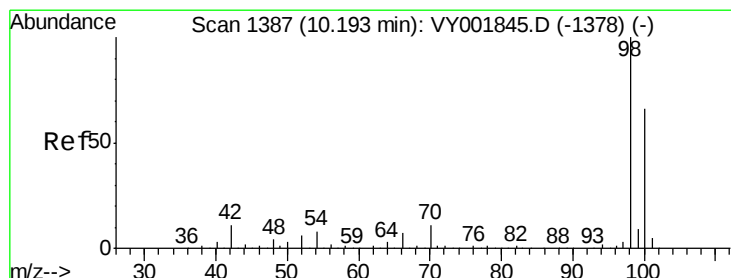
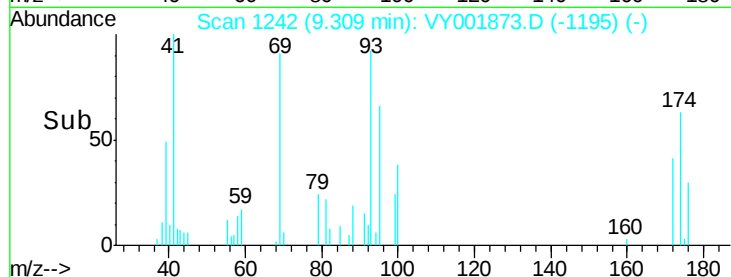
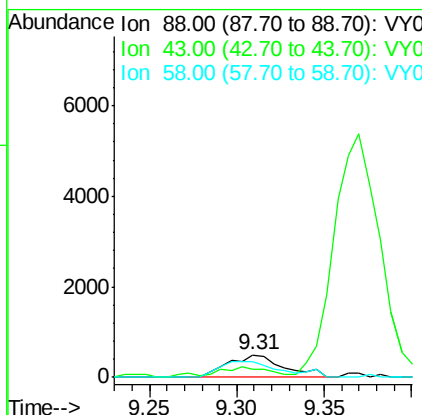
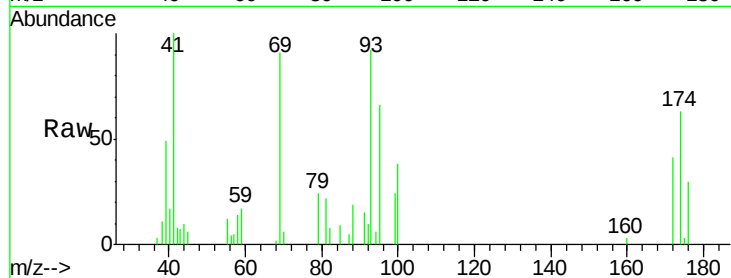
#49
 1,4-Dioxane
 Concen: 71.910 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	49.0	25.0	37.6#
58	68.9	58.9	88.3

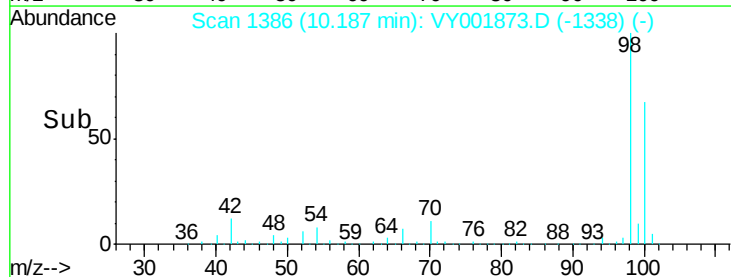
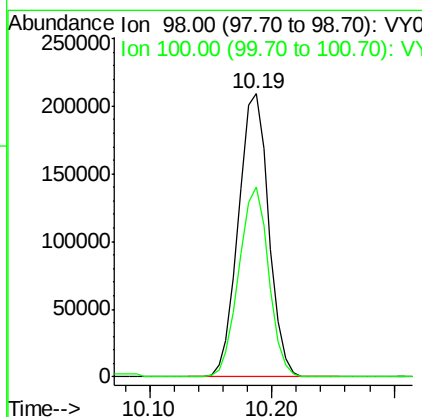
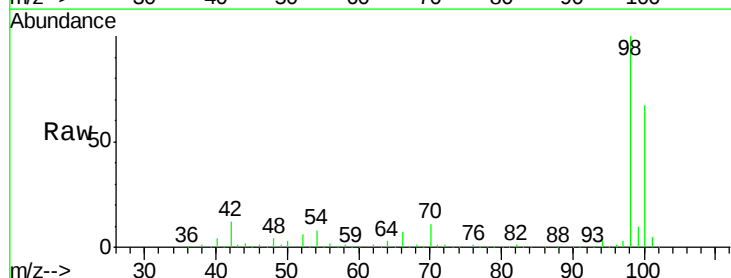
Manual Integrations
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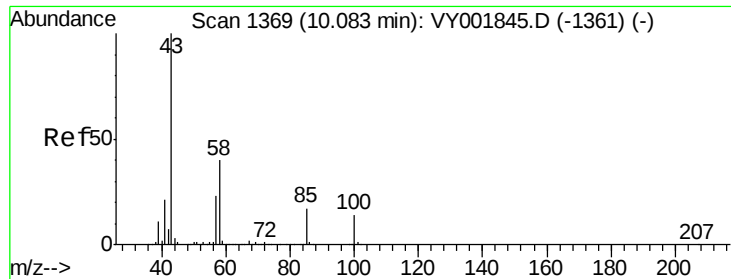
MMDadoda
 3/6/2020 11:16:52 AM



#50
 Toluene-d8
 Concen: 51.482 ug/l
 RT: 10.19 min Scan# 1386
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.0	79.4





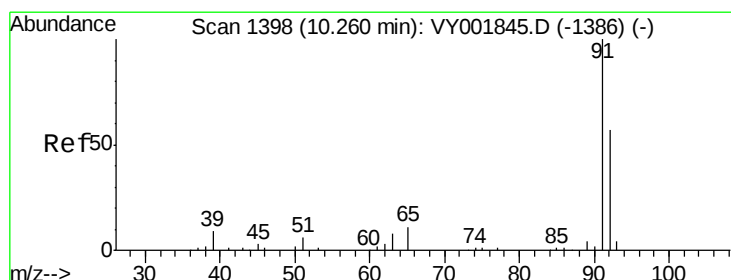
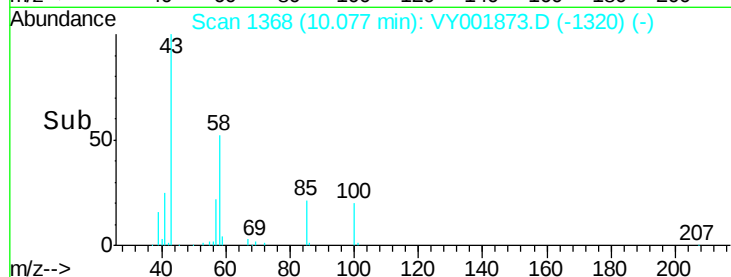
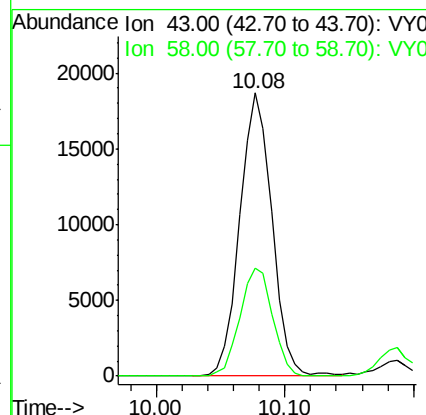
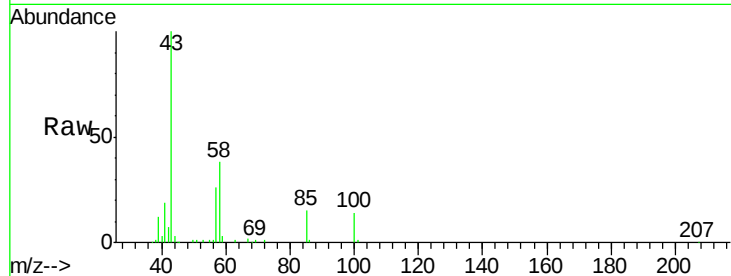
#51
4-Methyl-2-Pentanone
Concen: 19.531 ug/l
RT: 10.08 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 43 Resp: 32330
Ion Ratio Lower Upper
43 100
58 38.8 32.0 48.0

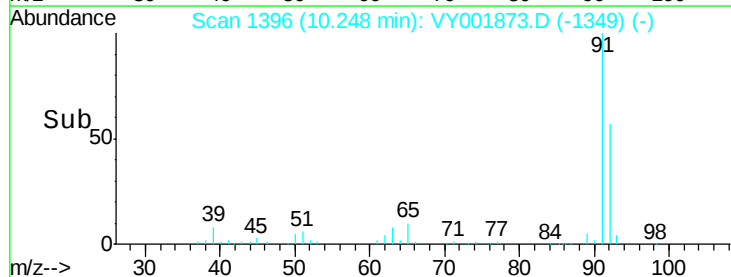
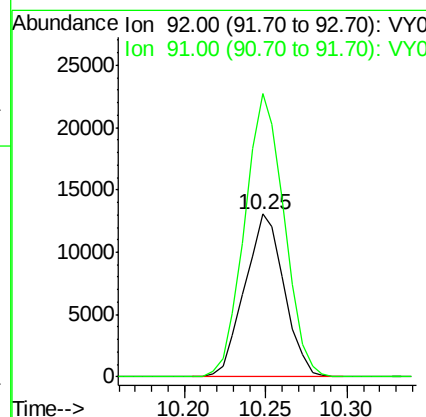
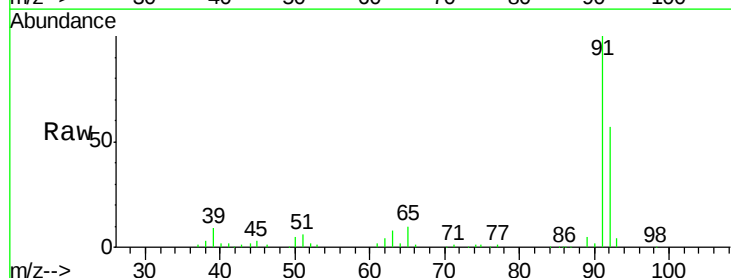
Manual Integrations
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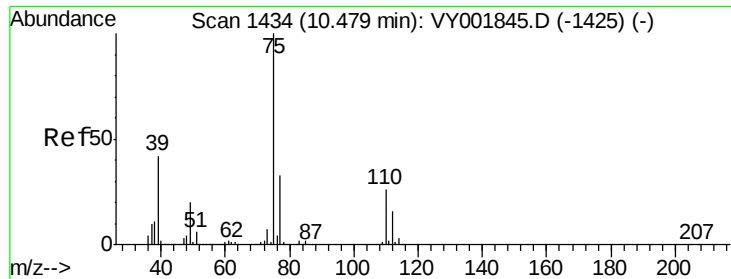
MMDadoda
3/6/2020 11:16:52 AM



#52
Toluene
Concen: 4.180 ug/l
RT: 10.25 min Scan# 1396
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 92 Resp: 21981
Ion Ratio Lower Upper
92 100
91 173.9 138.6 208.0





#53

t-1,3-Dichloropropene

Concen: 3.925 ug/l

RT: 10.47 min Scan# 1433

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 75 Resp: 11156

Ion Ratio Lower Upper

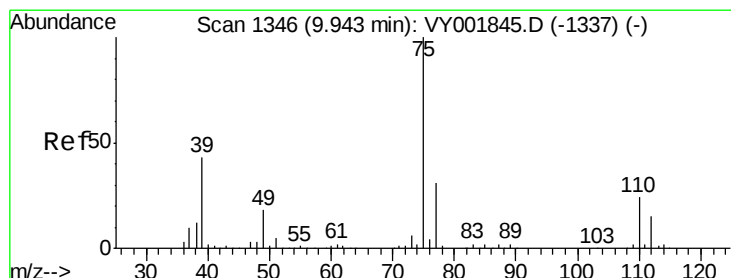
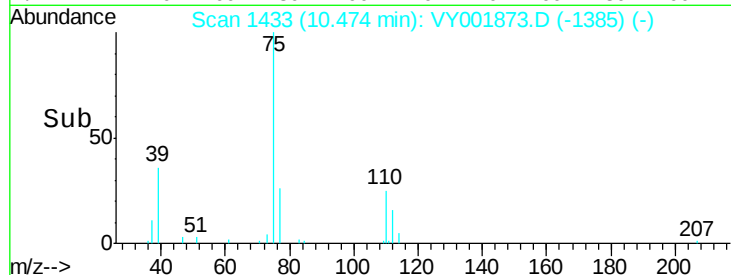
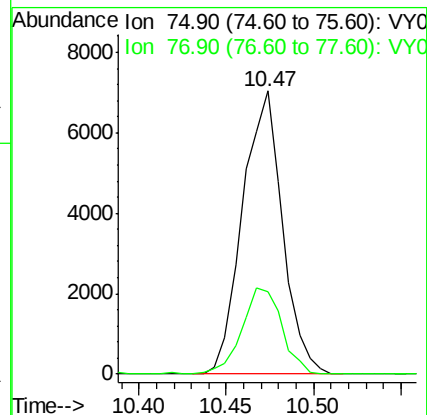
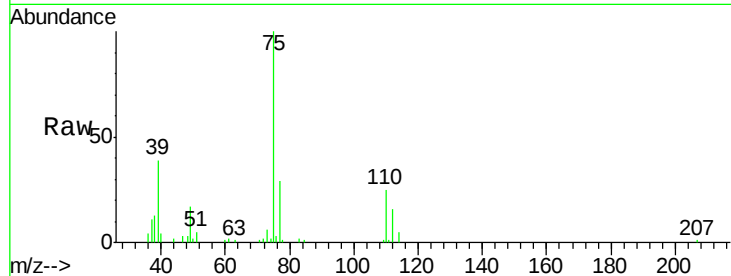
75 100

77 29.2 26.3 39.5

Manual Integrations
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MMDadoda

3/6/2020 11:16:52 AM



#54

cis-1,3-Dichloropropene

Concen: 3.895 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

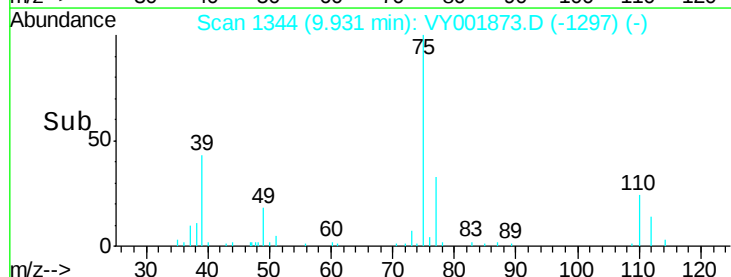
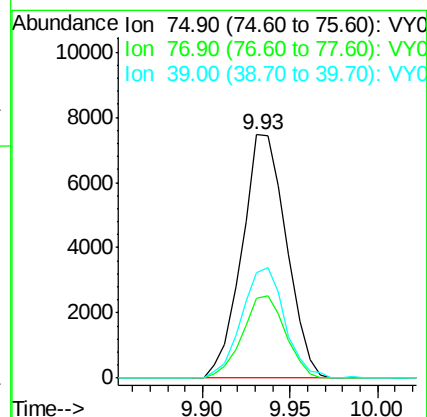
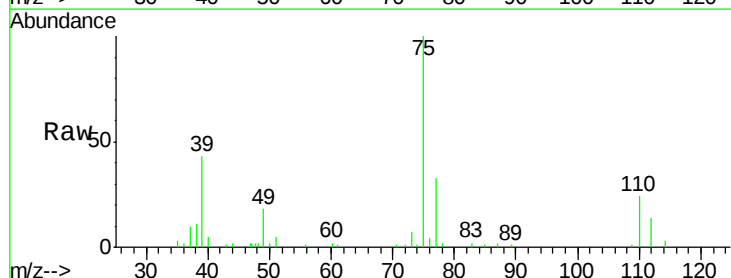
Tgt Ion: 75 Resp: 13180

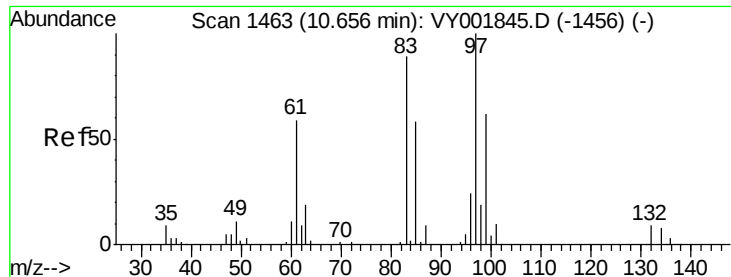
Ion Ratio Lower Upper

75 100

77 32.9 25.1 37.7

39 43.0 34.7 52.1





#55

1,1,2-Trichloroethane

Concen: 4.007 ug/l

RT: 10.65 min Scan# 1462

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

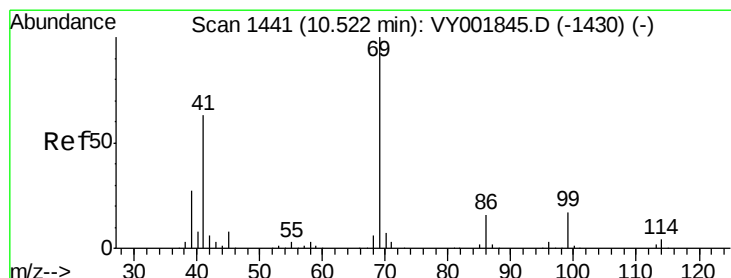
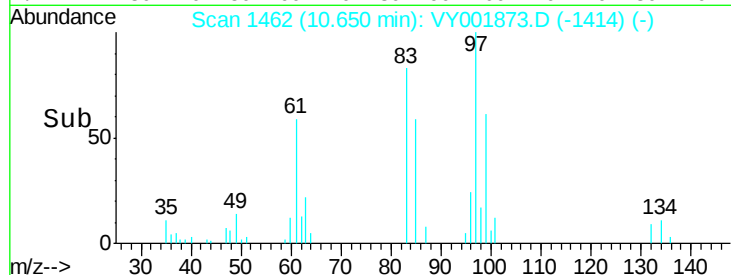
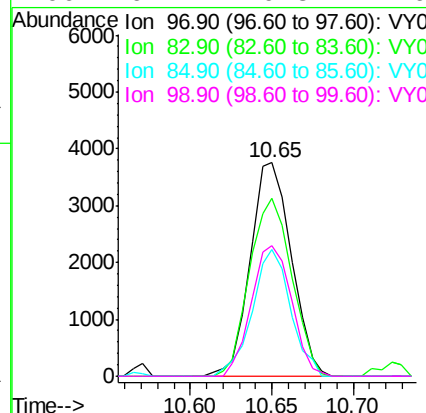
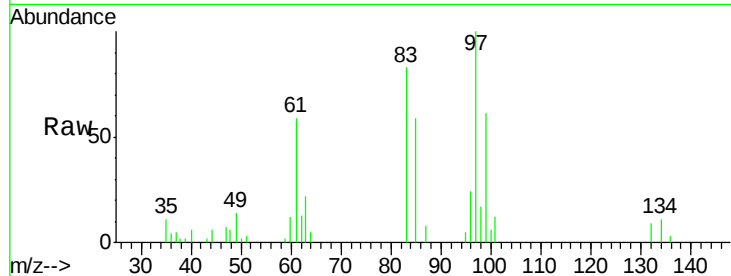
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	97	Resp:	6577
Ion	Ratio	Lower	Upper
97	100		
83	83.4	71.6	107.4
85	59.2	46.6	69.8
99	61.4	49.8	74.6

Manual Integrations
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3/6/2020 11:16:52 AM



#56

Ethyl methacrylate

Concen: 3.874 ug/l

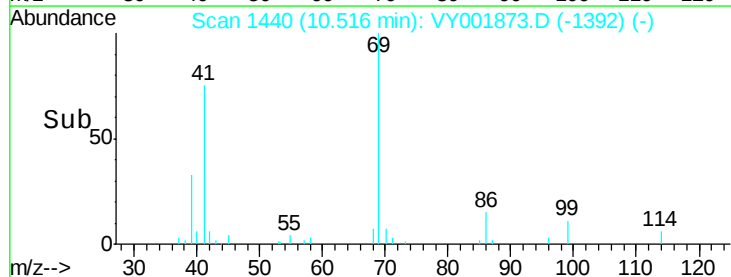
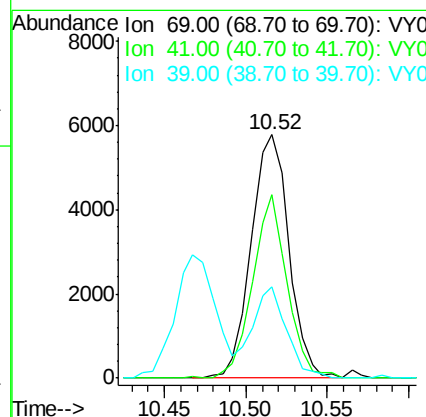
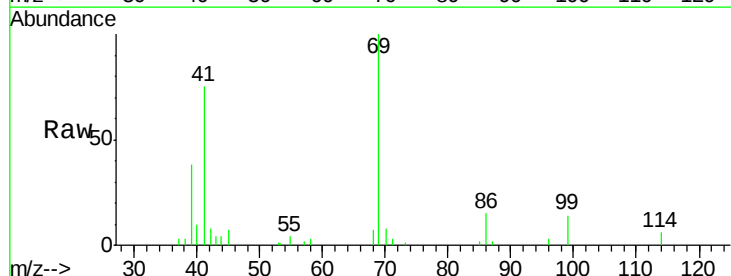
RT: 10.52 min Scan# 1440

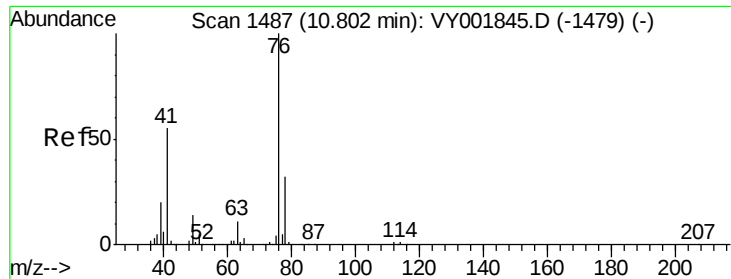
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	69	Resp:	9319
Ion	Ratio	Lower	Upper
69	100		
41	68.8	49.9	74.9
39	34.4	23.0	34.6





#57

1,3-Dichloropropane

Concen: 4.021 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 11762

Ion Ratio Lower Upper

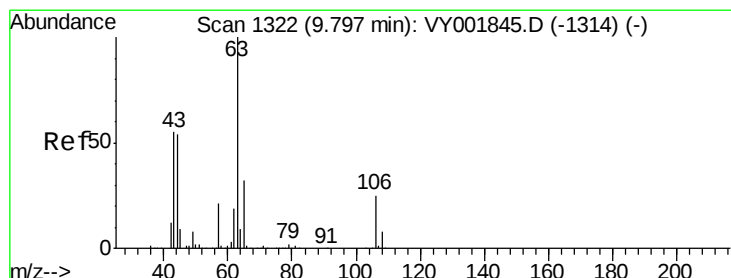
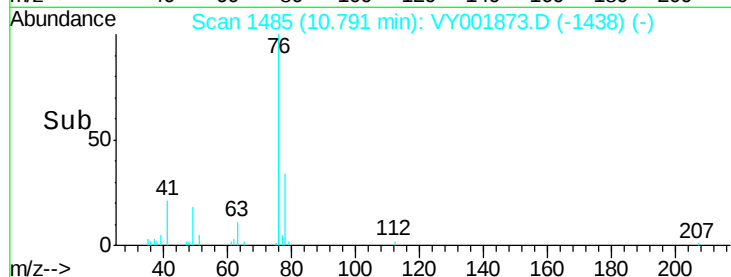
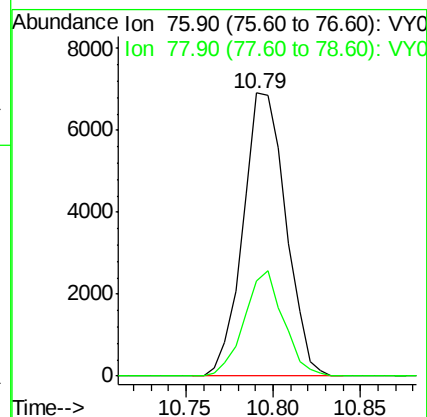
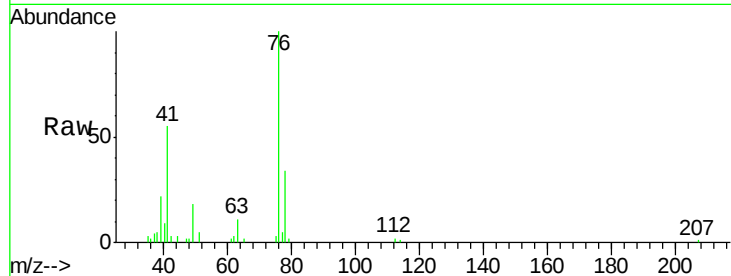
76 100

78 33.9 25.8 38.6

Manual Integrations
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MMDadoda

3/6/2020 11:16:52 AM



#58

2-Chloroethyl Vinyl ether

Concen: 16.771 ug/l

RT: 9.79 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VY001873.D

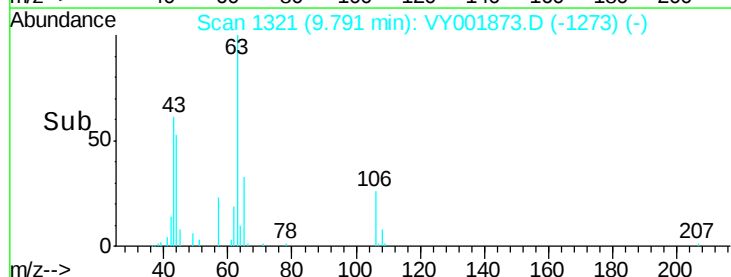
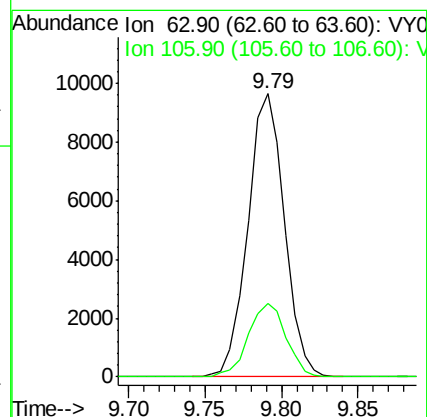
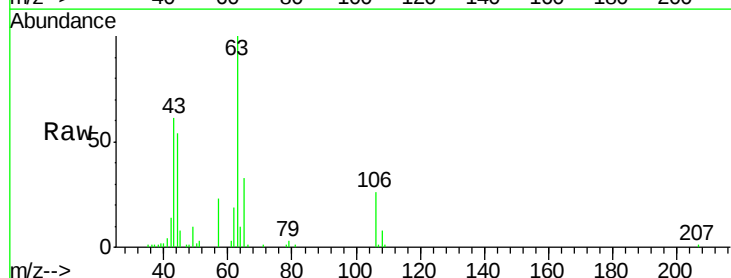
Acq: 05 Mar 2020 11:59

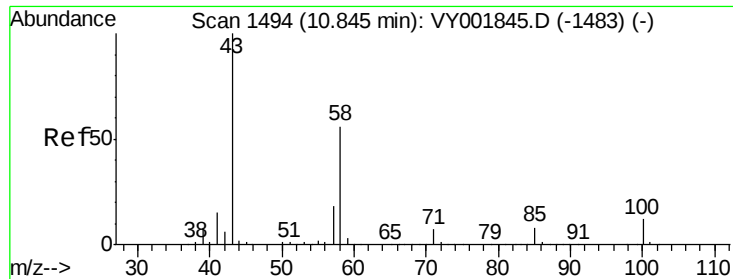
Tgt Ion: 63 Resp: 15997

Ion Ratio Lower Upper

63 100

106 26.8 21.3 31.9





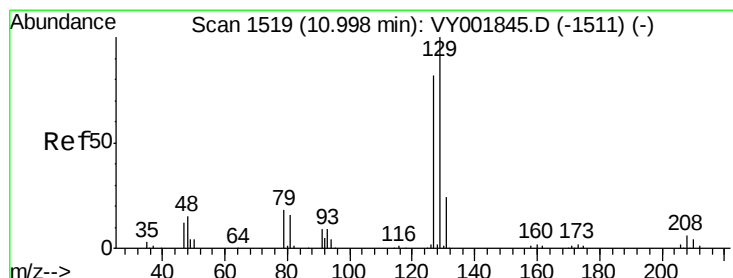
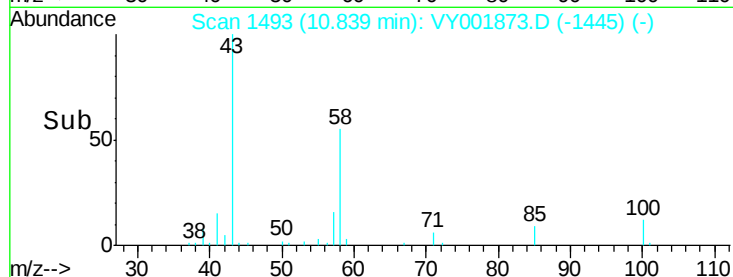
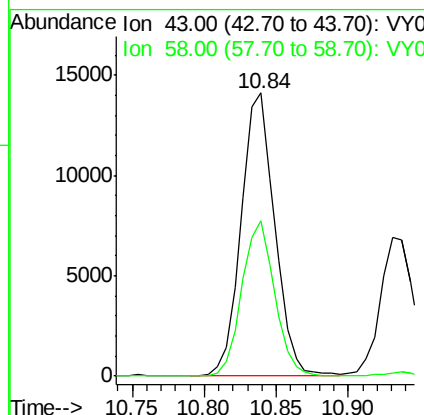
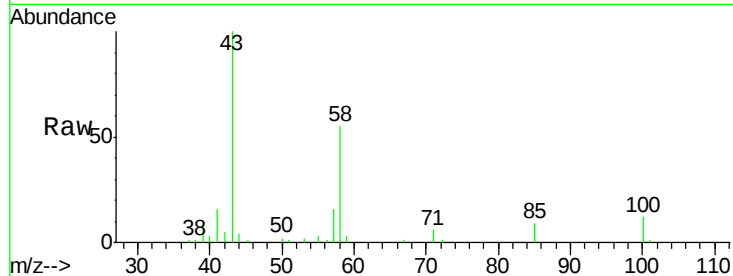
#59
2-Hexanone
Concen: 19.390 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 43 Resp: 22909
Ion Ratio Lower Upper
43 100
58 53.1 28.1 84.3

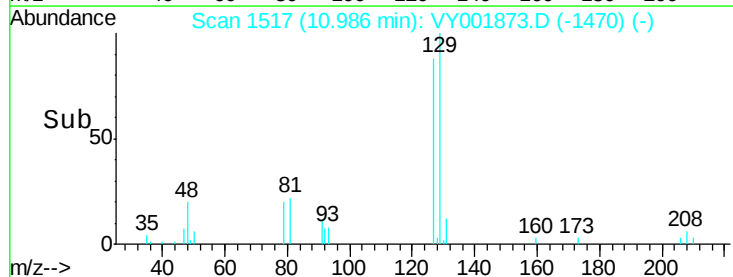
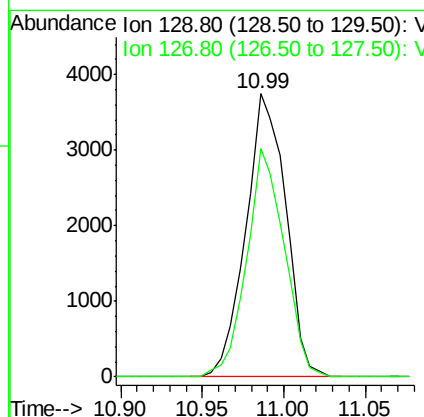
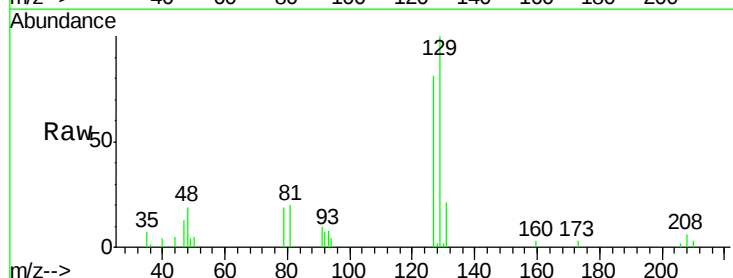
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#60
Dibromochloromethane
Concen: 3.690 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 129 Resp: 6381
Ion Ratio Lower Upper
129 100
127 76.2 39.0 117.0





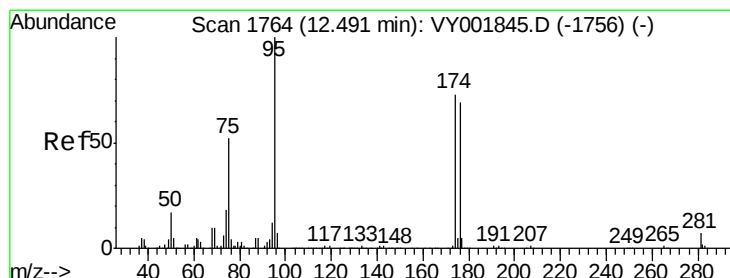
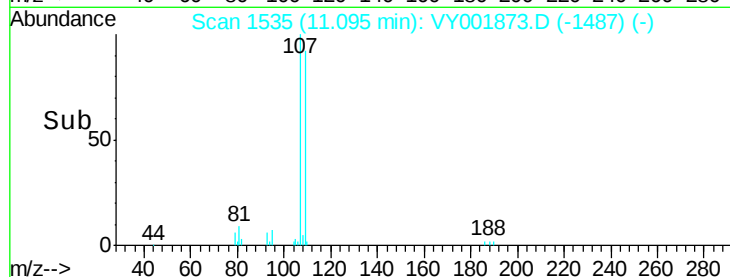
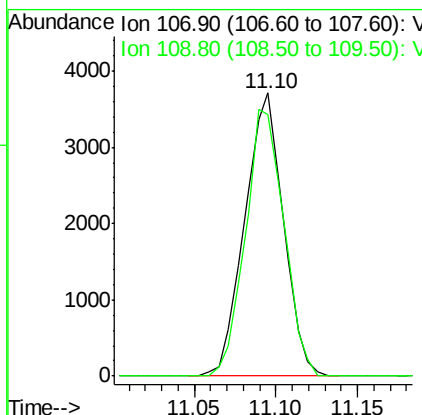
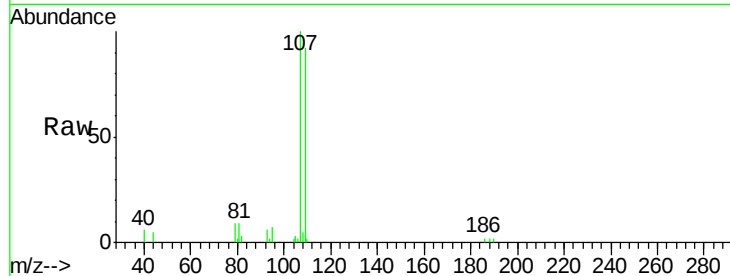
#61
 1,2-Dibromoethane
 Concen: 3.940 ug/l
 RT: 11.10 min Scan# 1535
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.4	113.0

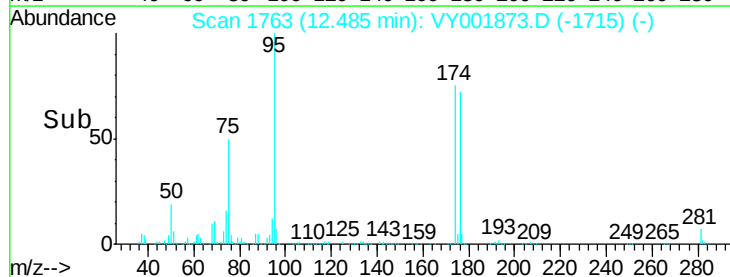
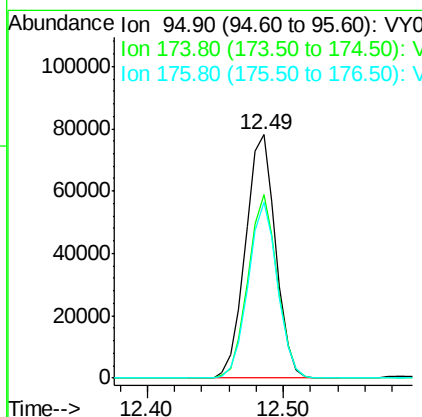
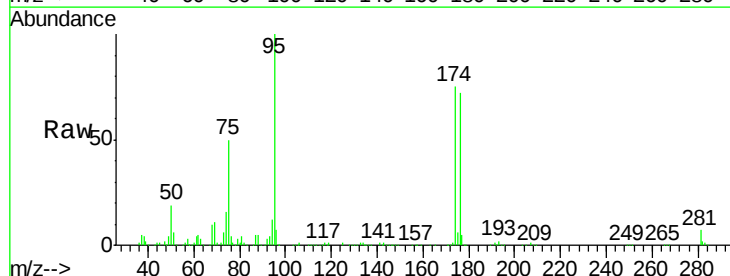
Manual Integrations
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 3/6/2020 11:16:52 AM



#62
 4-Bromofluorobenzene
 Concen: 49.830 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	145.0
176	70.3	0.0	137.4





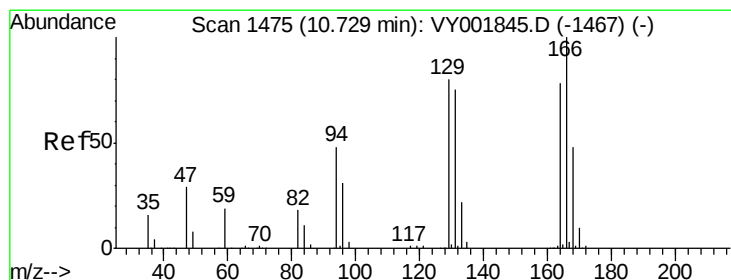
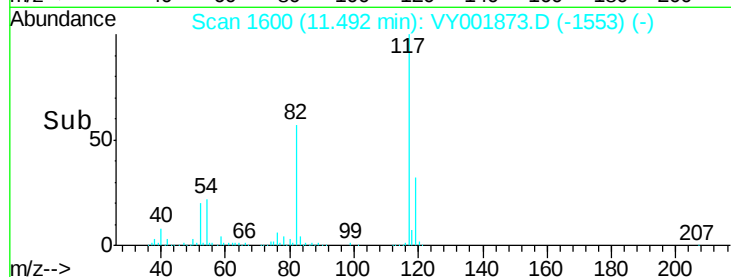
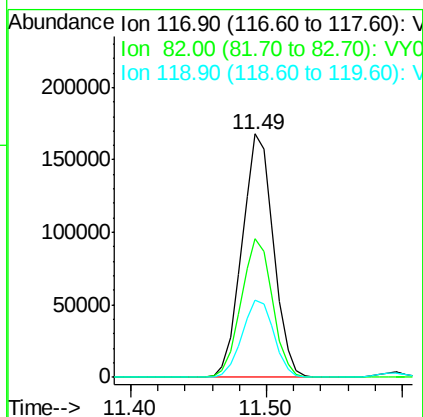
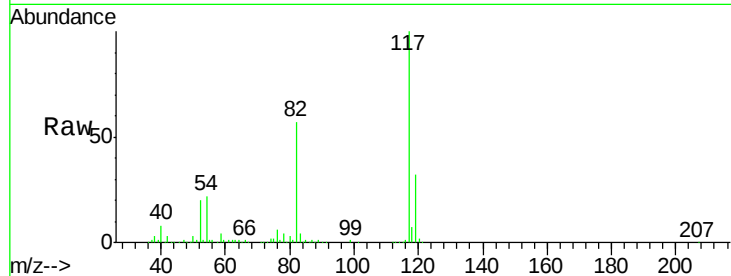
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	270607		
82	56.8		44.5	66.7
119	31.9		25.7	38.5

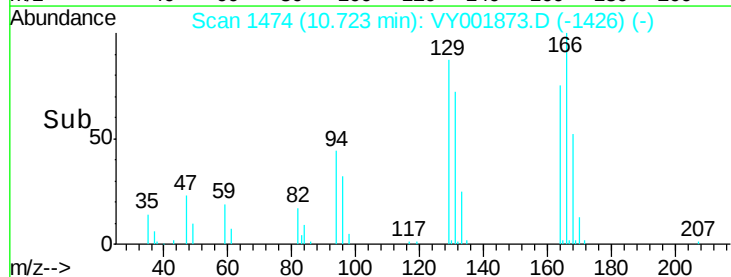
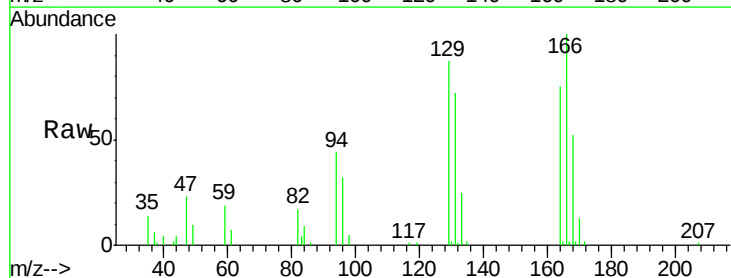
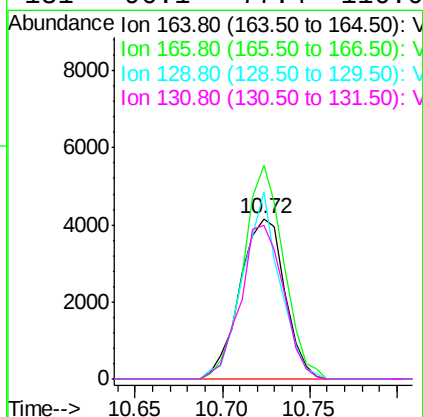
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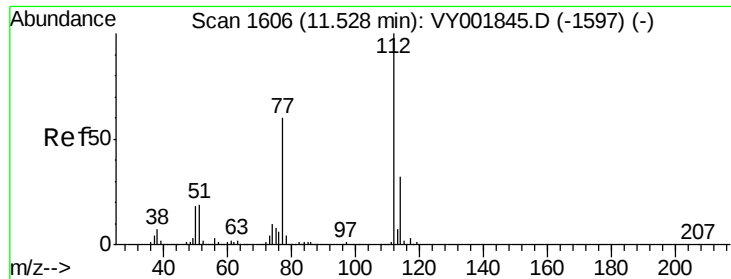
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#64
Tetrachloroethene
Concen: 4.362 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	7402		
166	133.4		102.6	154.0
129	116.5		82.3	123.5
131	96.1		77.4	116.0





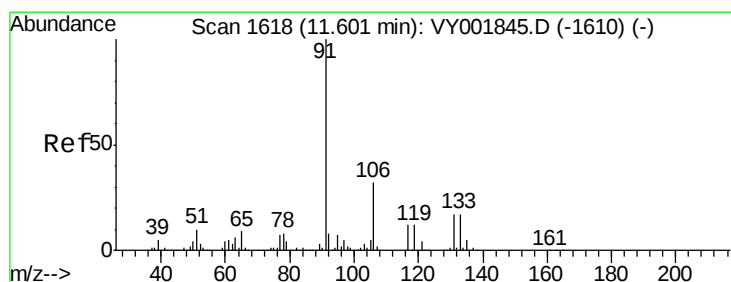
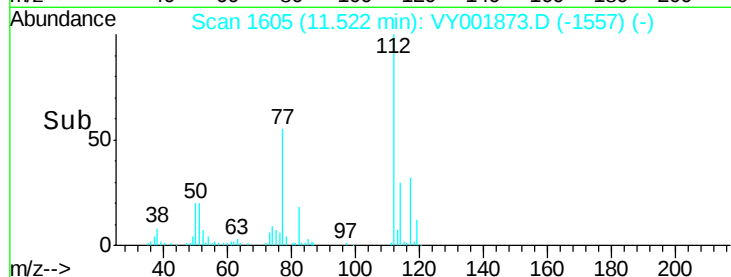
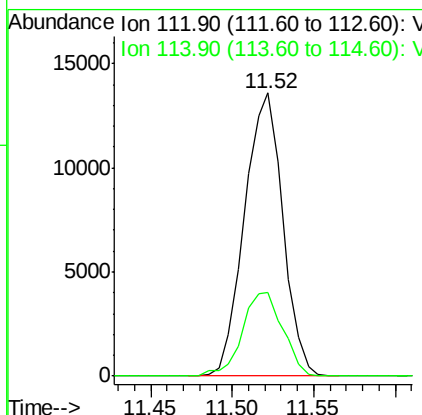
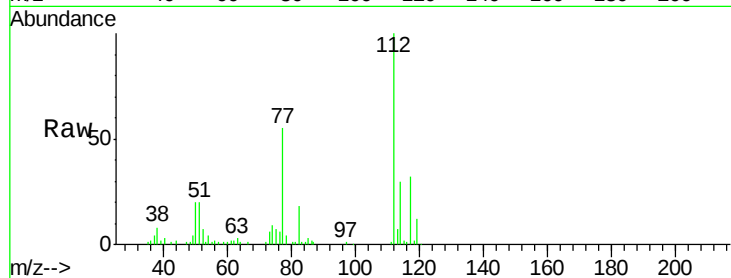
#65
Chlorobenzene
Concen: 4.125 ug/l
RT: 11.52 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion:112 Resp: 22240
Ion Ratio Lower Upper
112 100
114 29.6 25.9 38.9

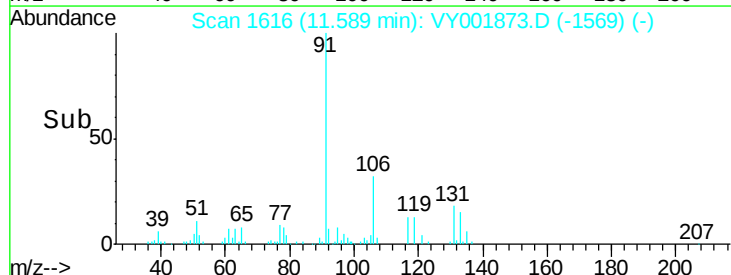
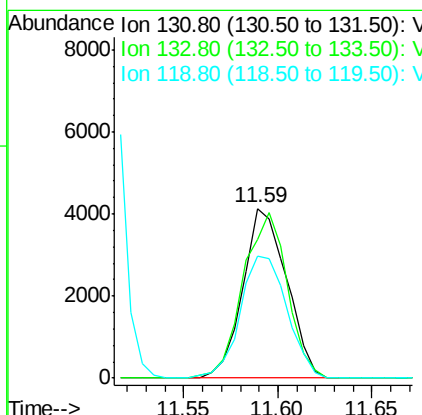
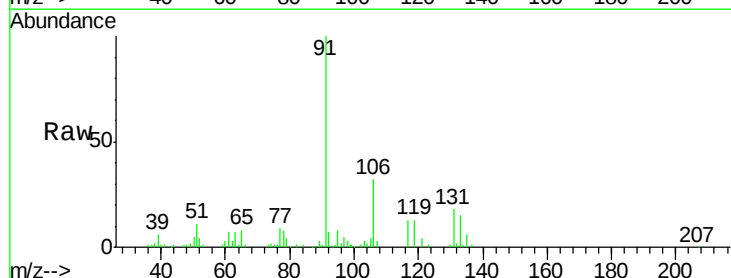
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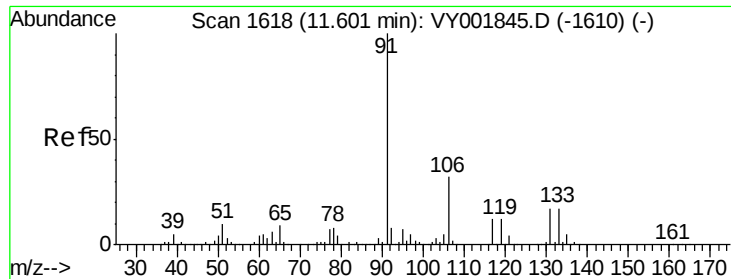
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#66
1,1,1,2-Tetrachloroethane
Concen: 3.768 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion:131 Resp: 6663
Ion Ratio Lower Upper
131 100
133 98.2 47.1 141.3
119 76.8 34.5 103.6





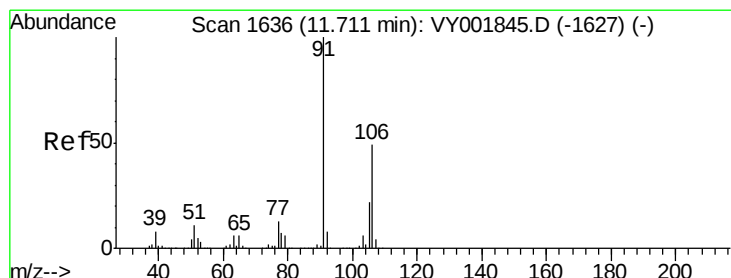
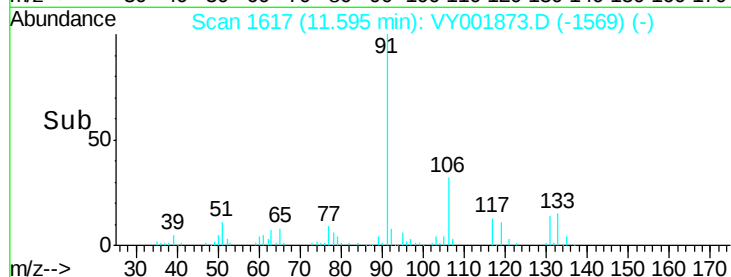
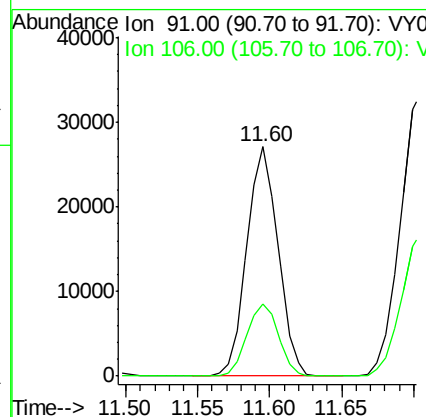
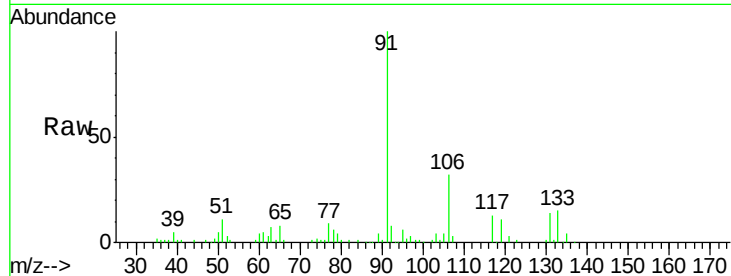
#67
Ethyl Benzene
Concen: 4.056 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 91 Resp: 40792
Ion Ratio Lower Upper
91 100
106 31.7 25.4 38.2

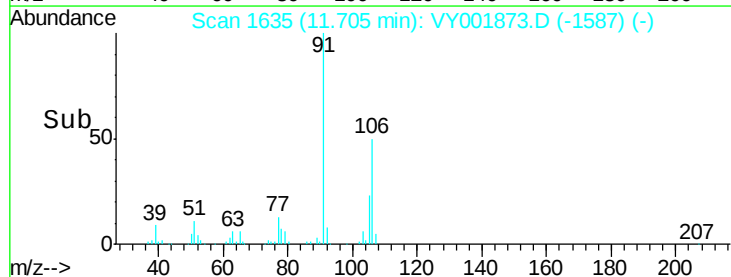
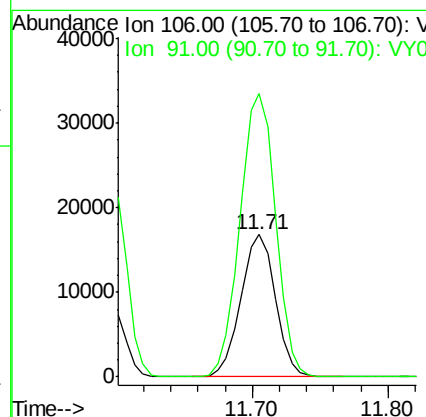
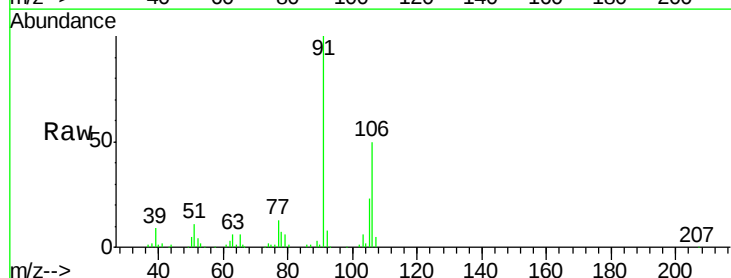
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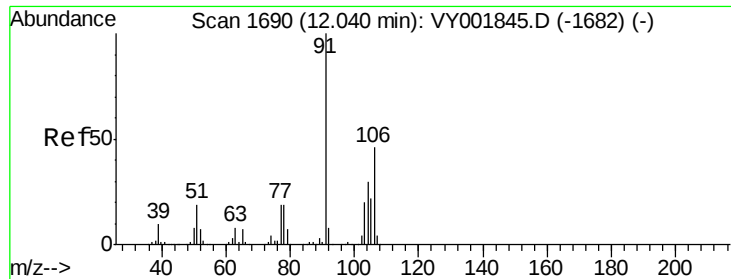
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#68
m/p-Xylenes
Concen: 8.028 ug/l
RT: 11.71 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 106 Resp: 29845
Ion Ratio Lower Upper
106 100
91 205.2 161.3 241.9





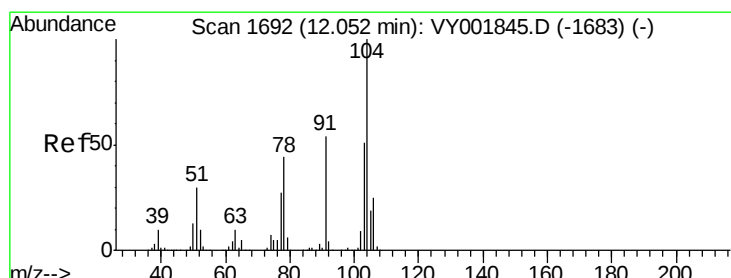
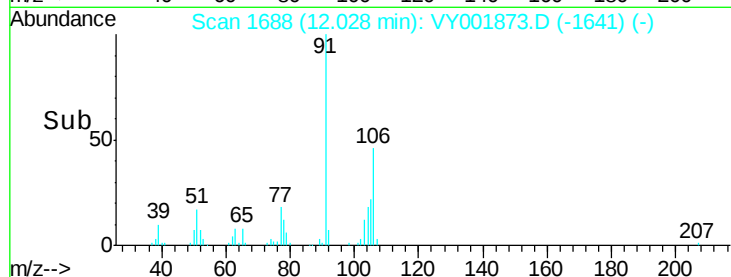
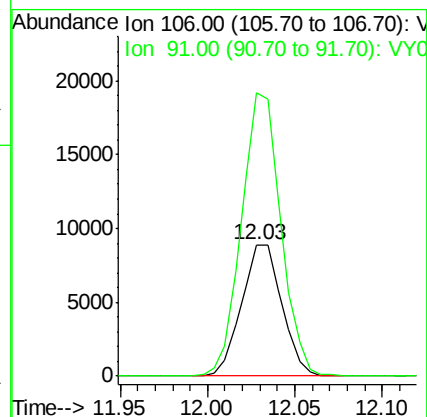
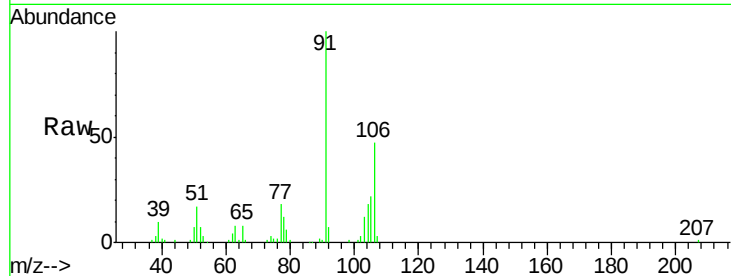
#69
o-Xylene
Concen: 4.074 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion:106 Resp: 14277
Ion Ratio Lower Upper
106 100
91 210.0 106.8 320.4

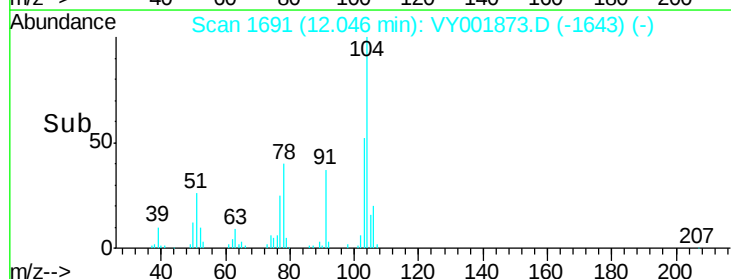
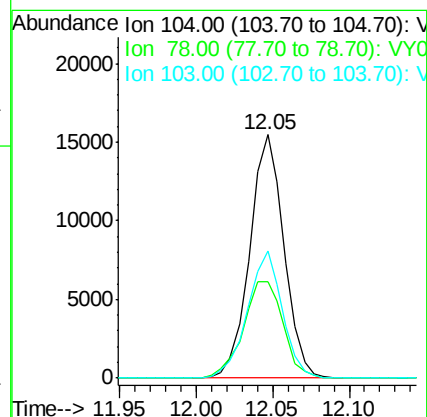
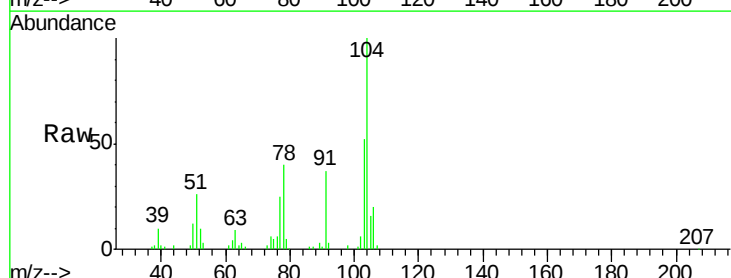
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#70
Styrene
Concen: 3.999 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion:104 Resp: 24000
Ion Ratio Lower Upper
104 100
78 46.3 38.5 57.7
103 53.3 42.9 64.3





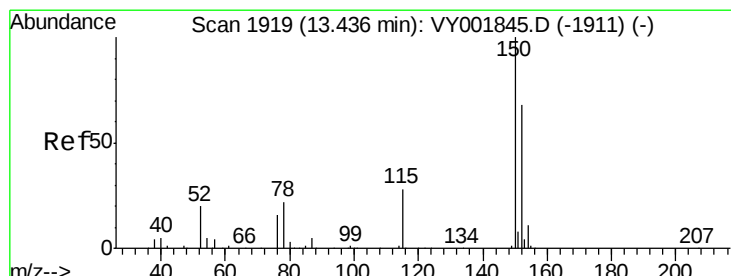
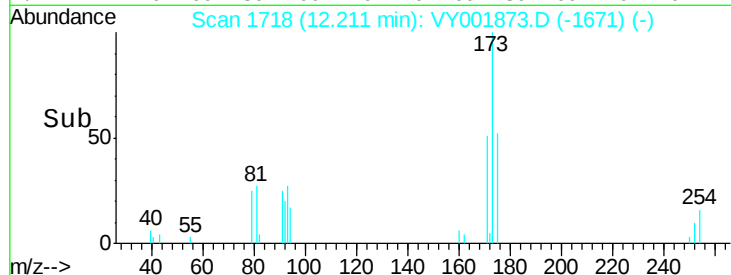
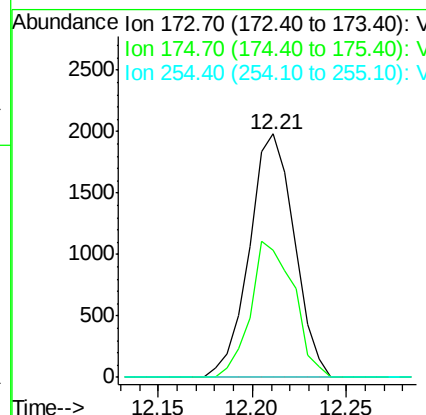
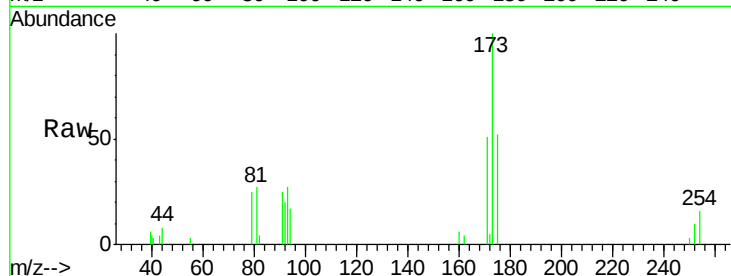
#71
Bromoform
Concen: 3.418 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	53.6	24.3	72.8
254	0.0	0.0	0.0

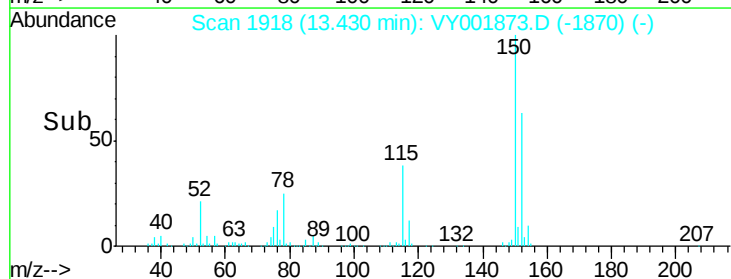
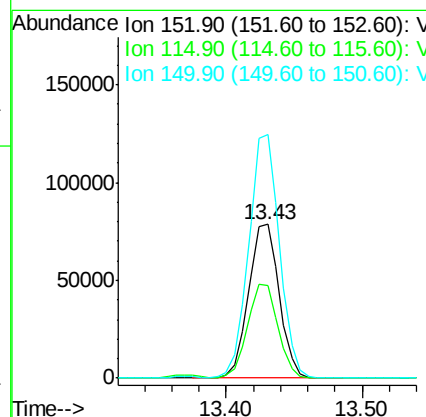
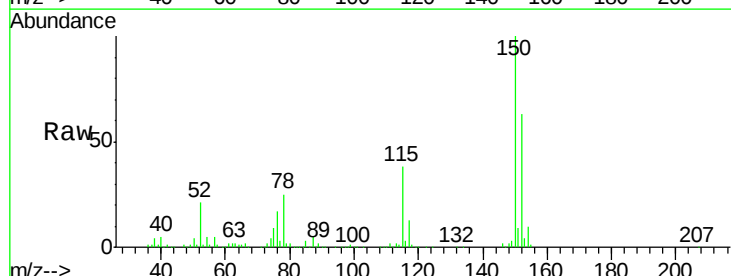
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	29.9	89.7
150	158.2	0.0	340.6





#73

Isopropylbenzene

Concen: 3.969 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 37647

Ion Ratio Lower Upper

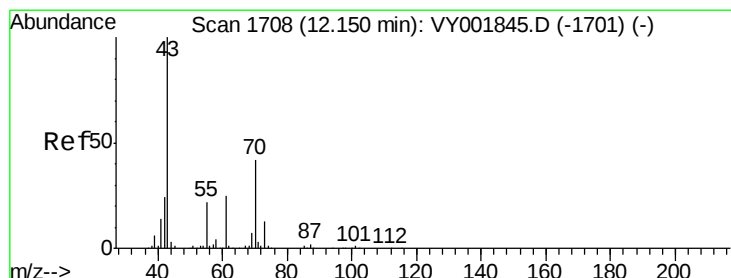
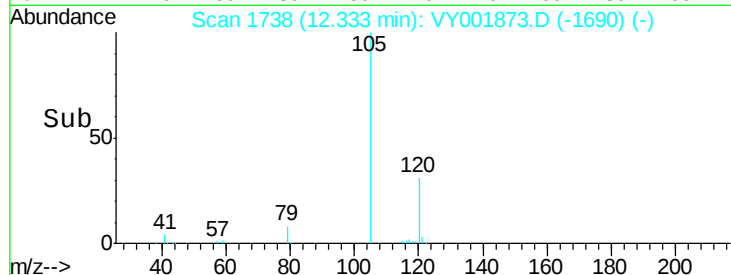
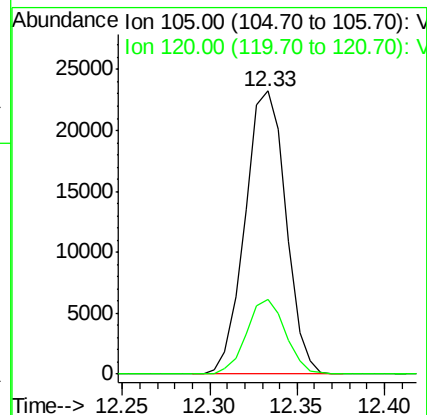
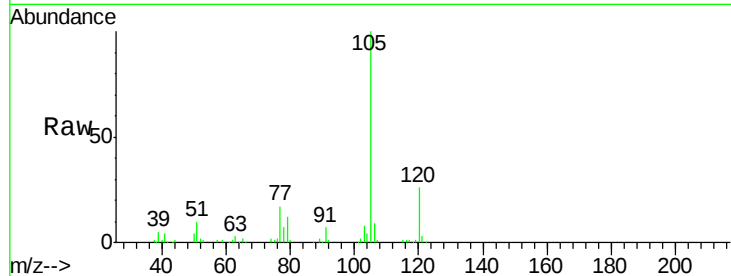
105 100

120 25.4 13.1 39.3

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#74

N-ethyl acetate

Concen: 3.837 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion: 43 Resp: 11186

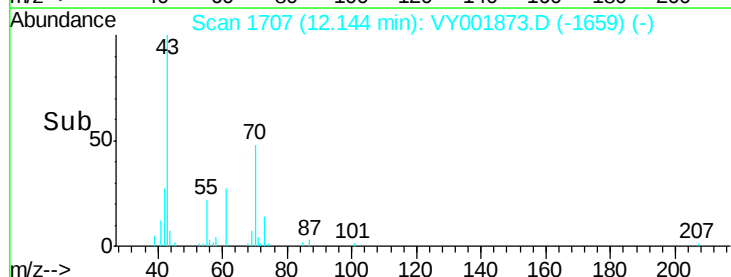
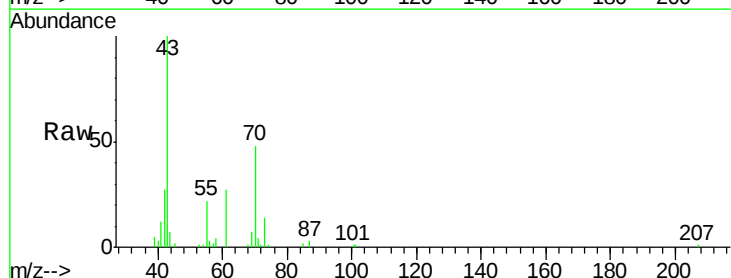
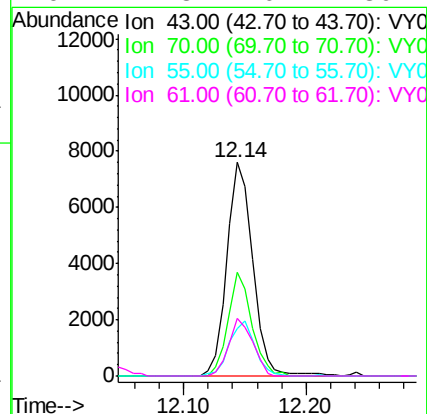
Ion Ratio Lower Upper

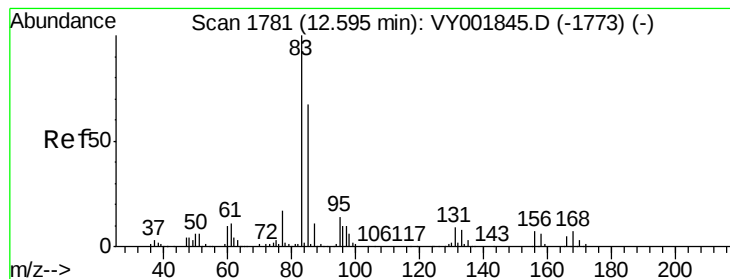
43 100

70 44.1 34.7 52.1

55 25.6 18.2 27.4

61 24.8 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 3.876 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

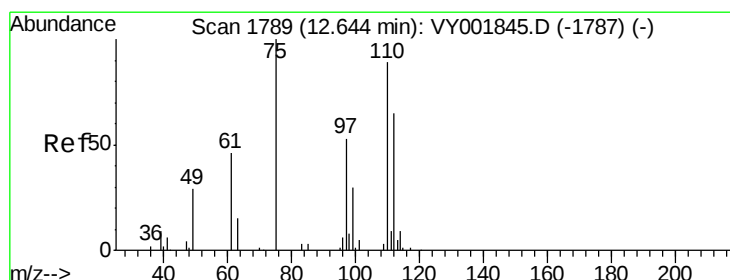
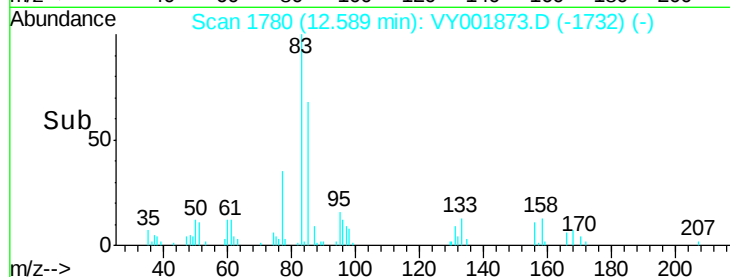
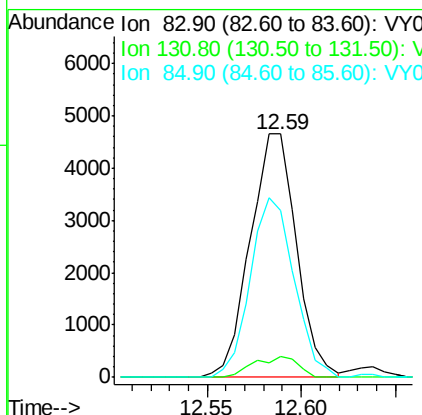
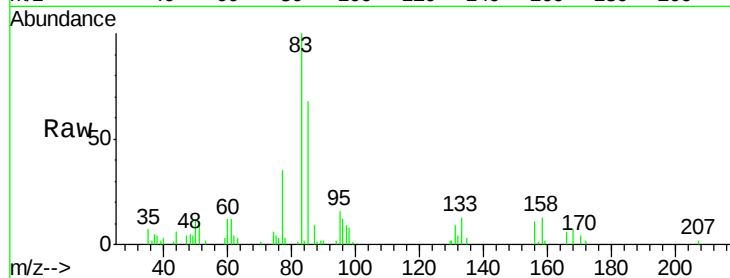
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	7927
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.6	13.8
85	69.5	32.1	96.3

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#76

1,2,3-Trichloropropane

Concen: 4.224 ug/l m

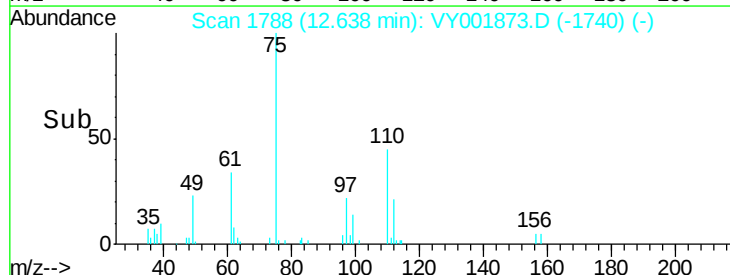
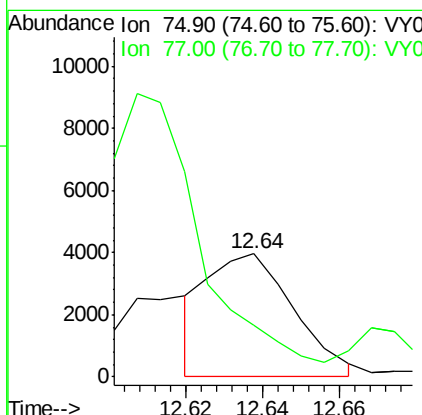
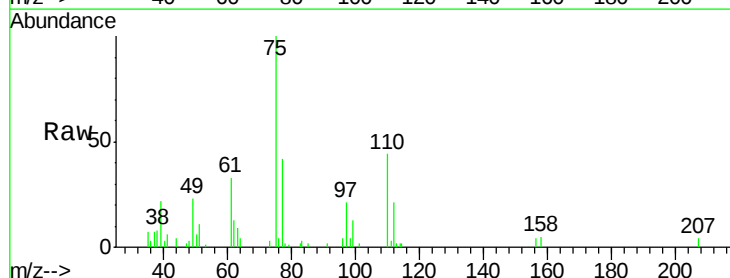
RT: 12.64 min Scan# 1788

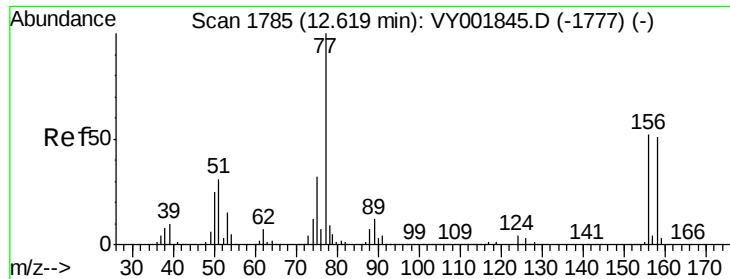
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	75	Resp:	6227
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





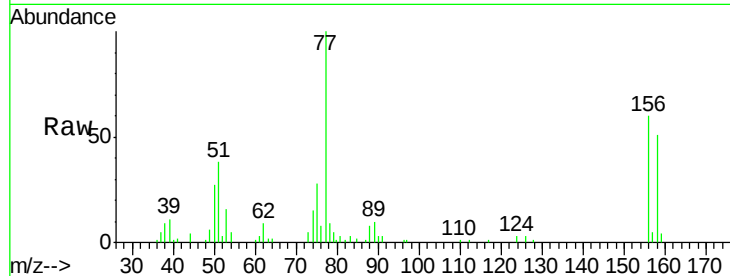
#77
Bromobenzene
Concen: 4.207 ug/l
RT: 12.61 min Scan# 1784
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

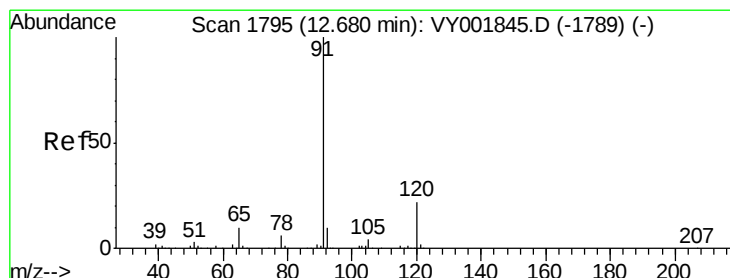
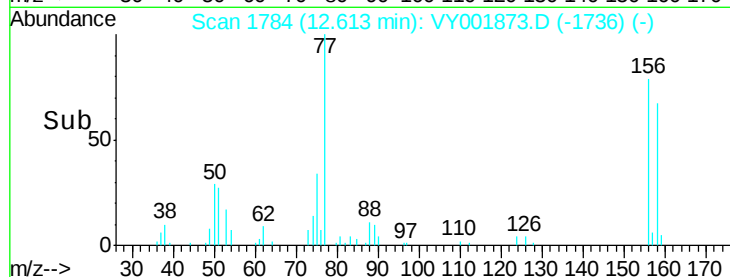
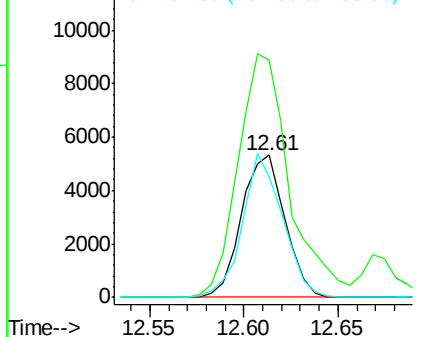
Tot Ion	Ratio	Lower	Upper
156	100		
77	203.8	109.0	327.0
158	93.7	48.9	146.8

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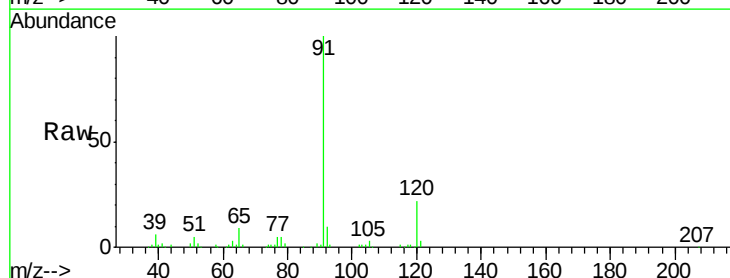


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VY0
Ion 157.80 (157.50 to 158.50): V

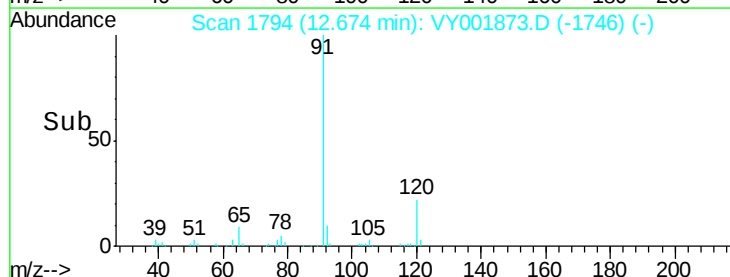
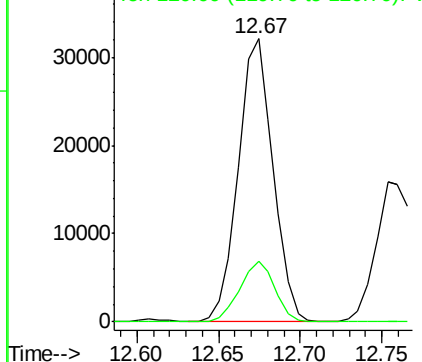


#78
n-propylbenzene
Concen: 4.080 ug/l
RT: 12.67 min Scan# 1794
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 120.00 (119.70 to 120.70): V





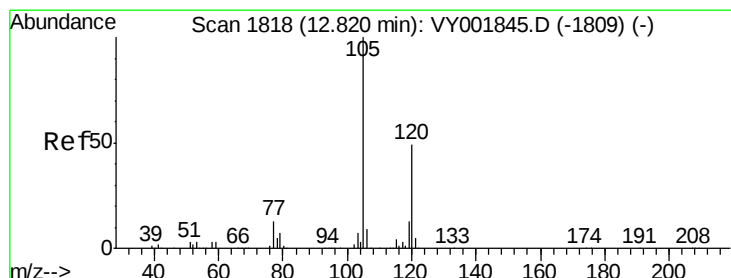
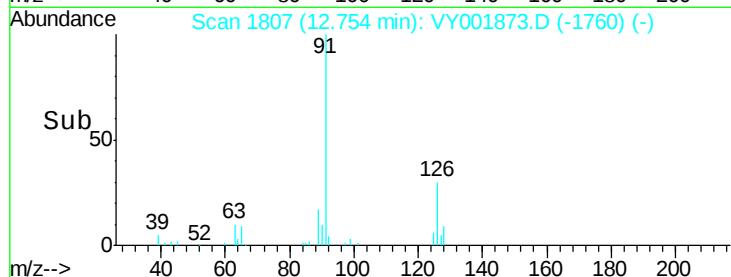
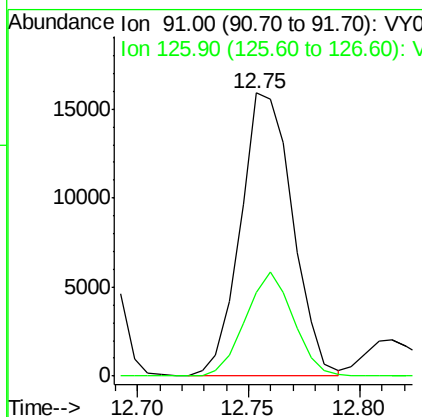
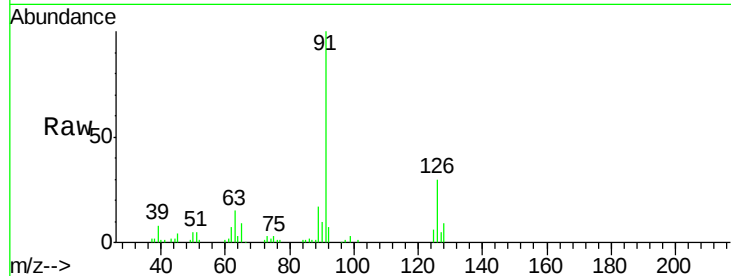
#79
2-Chlorotoluene
Concen: 4.017 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion: 91 Resp: 25970
Ion Ratio Lower Upper
91 100
126 33.5 16.3 48.8

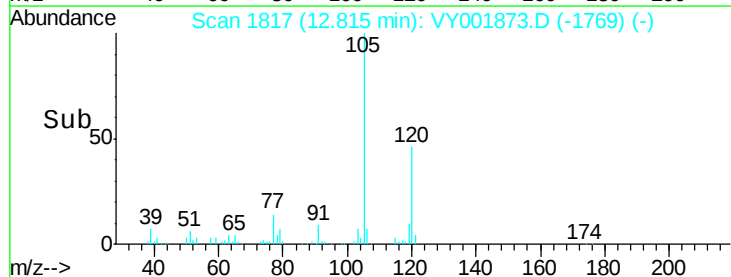
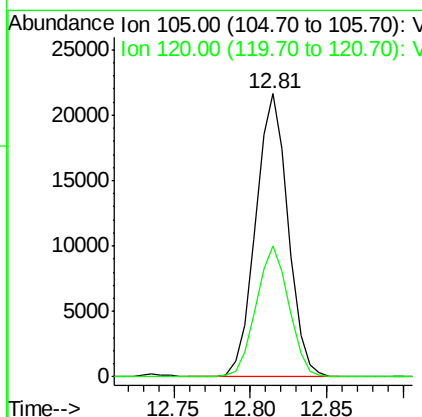
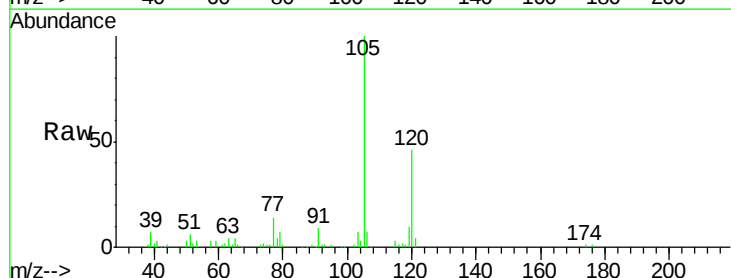
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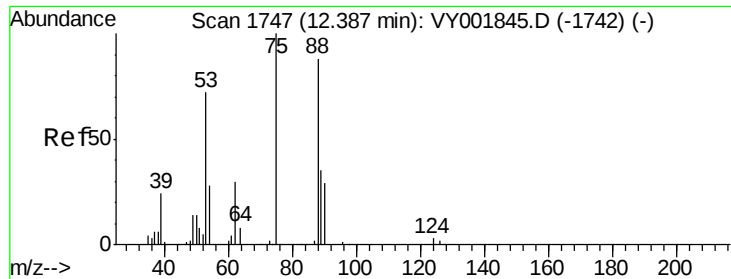
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#80
1,3,5-Trimethylbenzene
Concen: 4.084 ug/l
RT: 12.81 min Scan# 1817
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion: 105 Resp: 31886
Ion Ratio Lower Upper
105 100
120 46.8 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.499 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

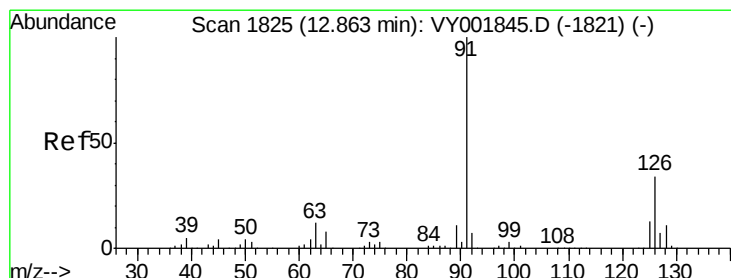
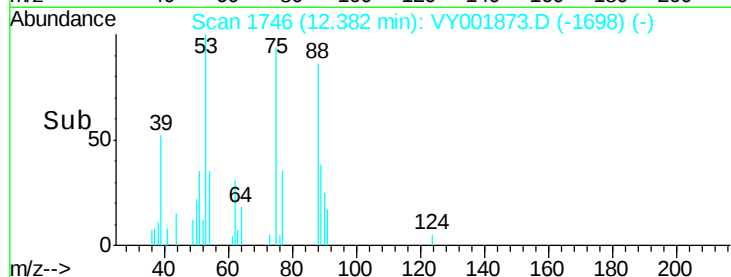
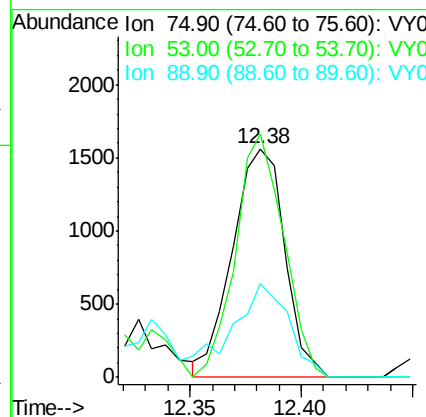
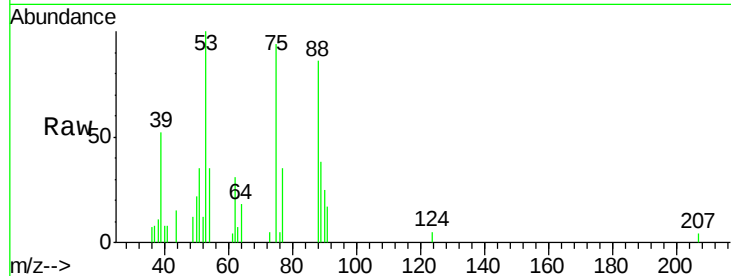
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	75	Resp:	2554
Ion	Ratio	Lower	Upper
75	100		
53	98.1	65.4	98.0#
89	43.6	36.0	54.0

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#82

4-Chlorotoluene

Concen: 3.976 ug/l

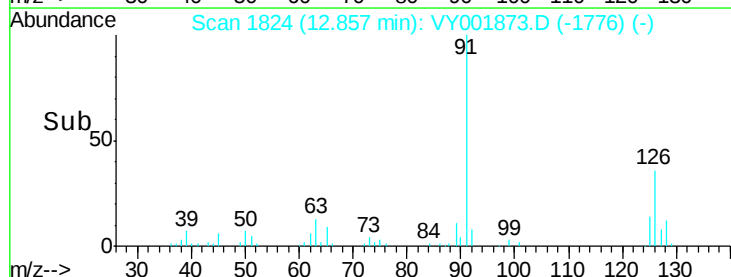
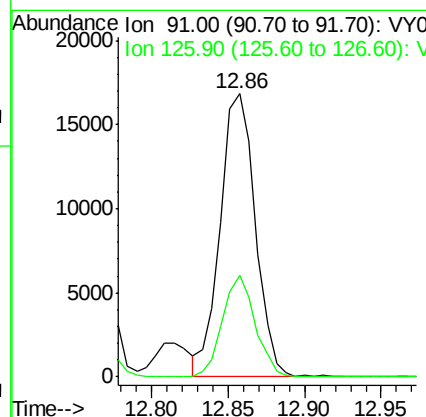
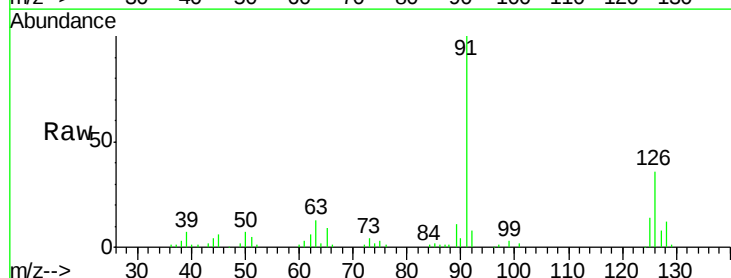
RT: 12.86 min Scan# 1824

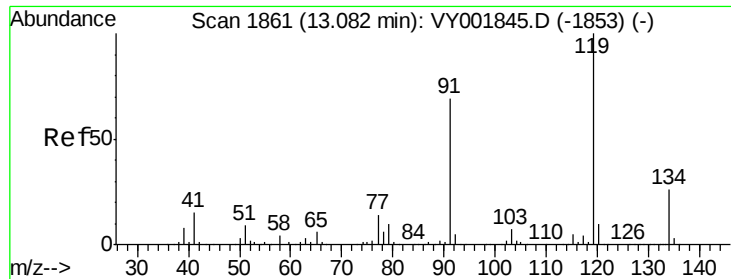
Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	91	Resp:	26766
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.4	49.2





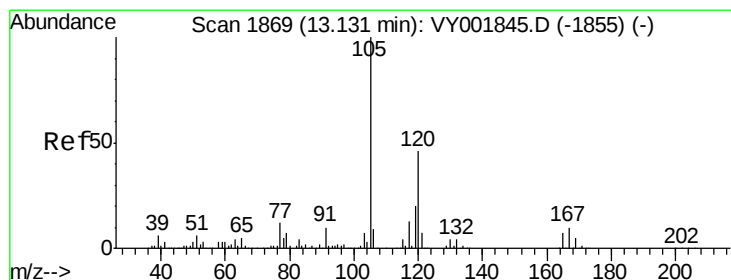
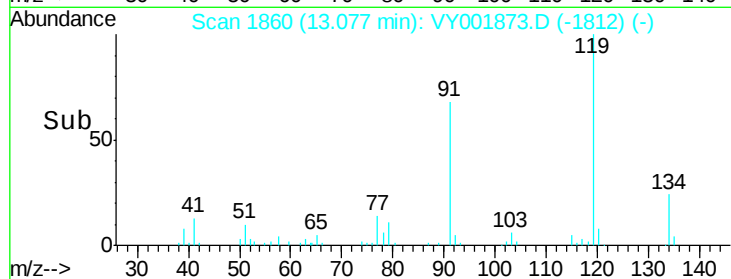
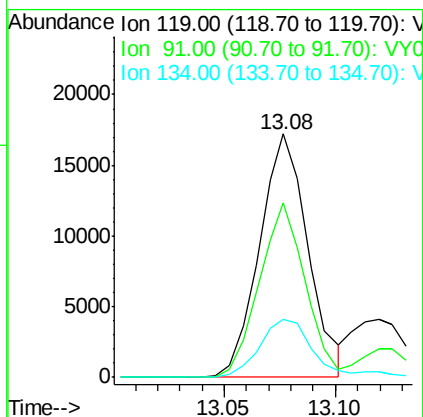
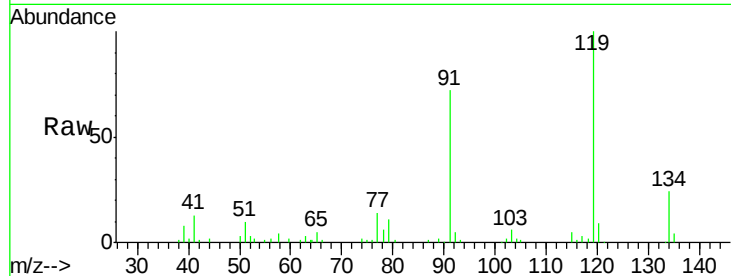
#83
tert-Butylbenzene
Concen: 4.002 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.7	34.0	101.8
134	26.6	13.5	40.4

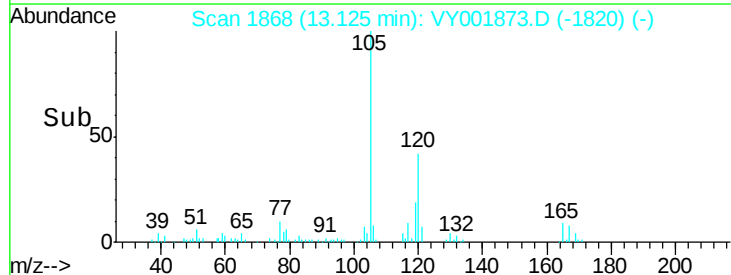
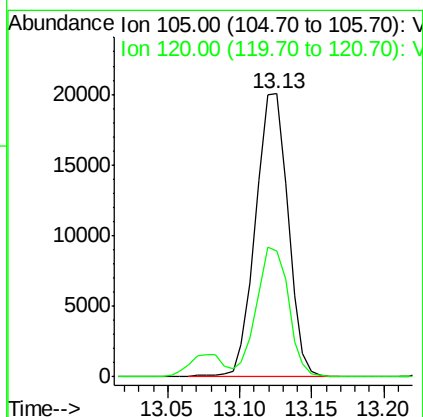
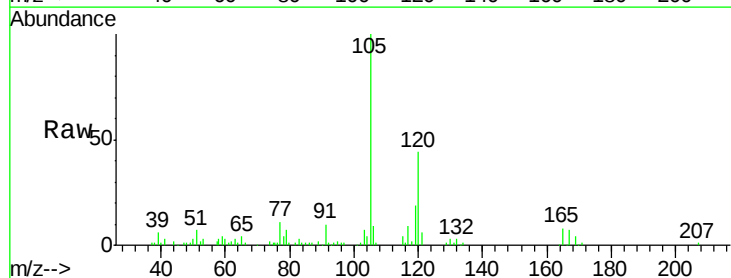
Manual Integrations
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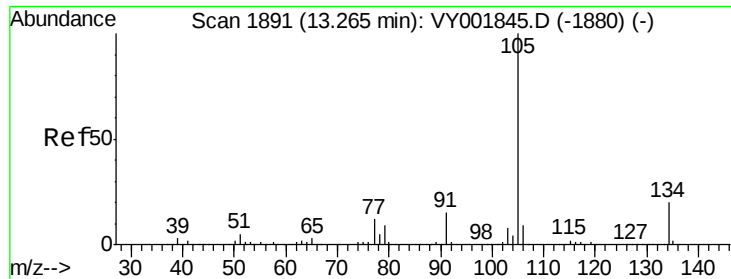
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#84
1,2,4-Trimethylbenzene
Concen: 4.035 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.6	67.7





#85

sec-Butylbenzene

Concen: 4.076 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 38960

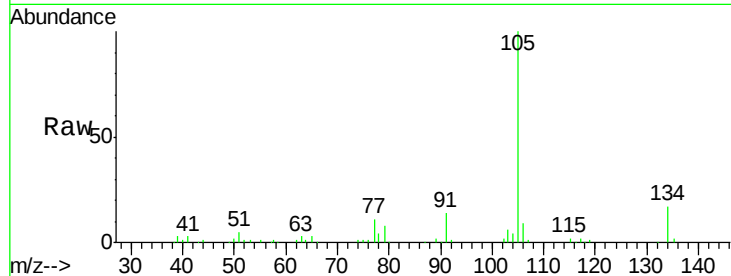
Ion Ratio Lower Upper

105 100

134 18.4 9.7 29.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.25

30000

25000

20000

15000

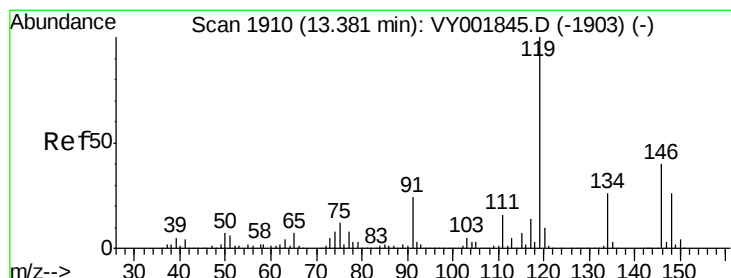
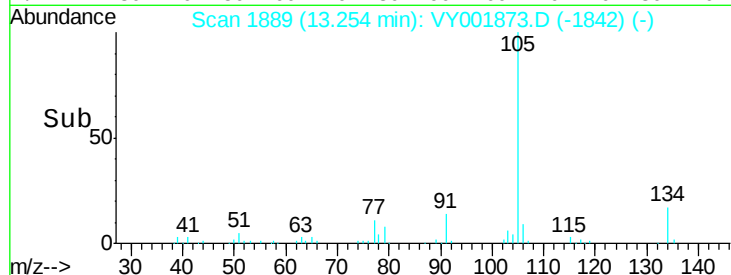
10000

5000

0

Time-->

13.20 13.25 13.30



#86

p-Isopropyltoluene

Concen: 4.108 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

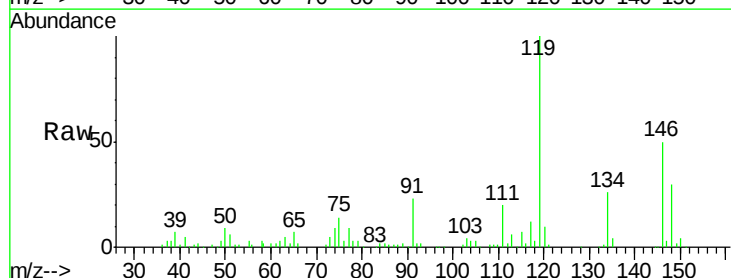
Tgt Ion:119 Resp: 33878

Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.3

91 23.7 11.9 35.7



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): VY0

13.37

30000

25000

20000

15000

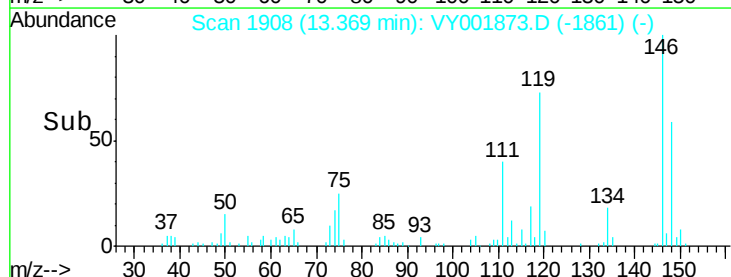
10000

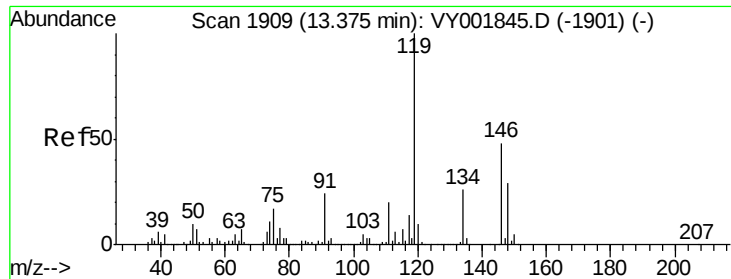
5000

0

Time-->

13.30 13.35 13.40





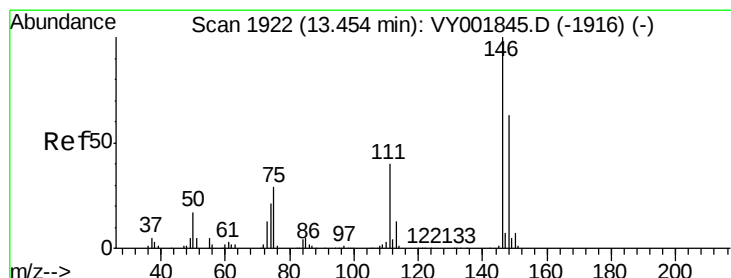
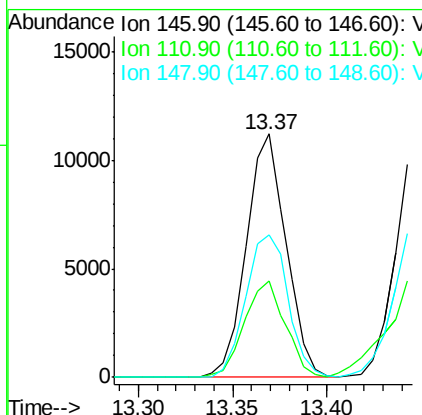
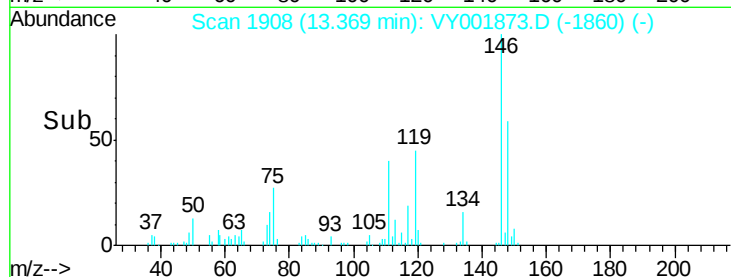
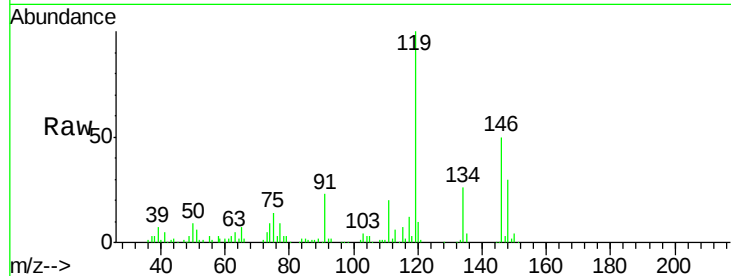
#87
 1,3-Dichlorobenzene
 Concen: 4.161 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.8	62.5
148	62.6	31.4	94.0

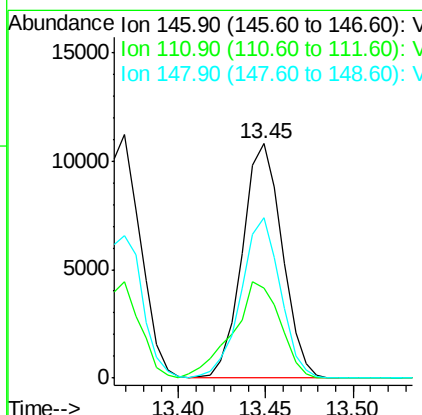
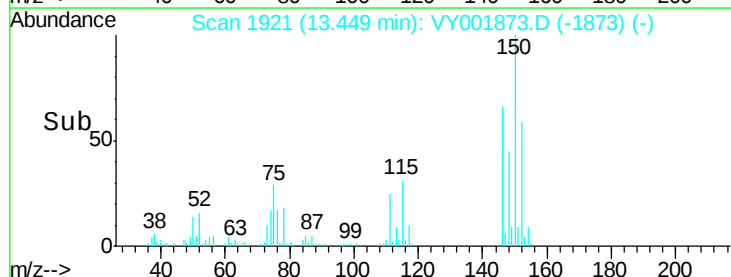
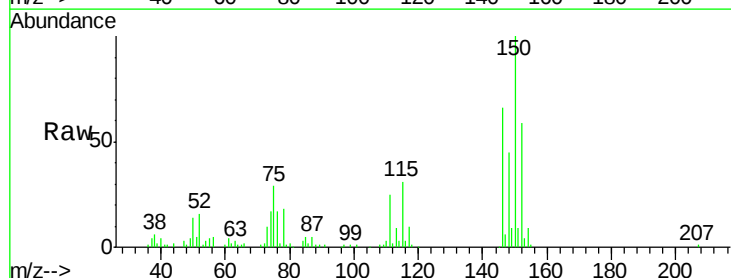
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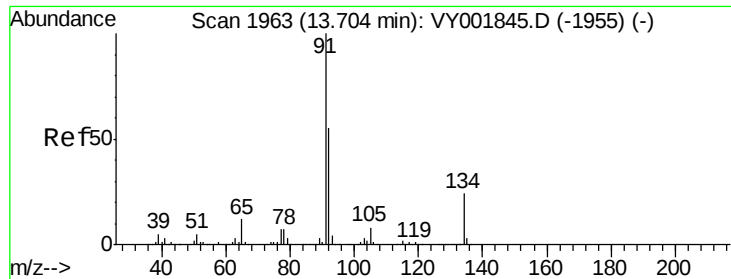
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#88
 1,4-Dichlorobenzene
 Concen: 4.285 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.6	20.0	60.0
148	67.7	31.5	94.5





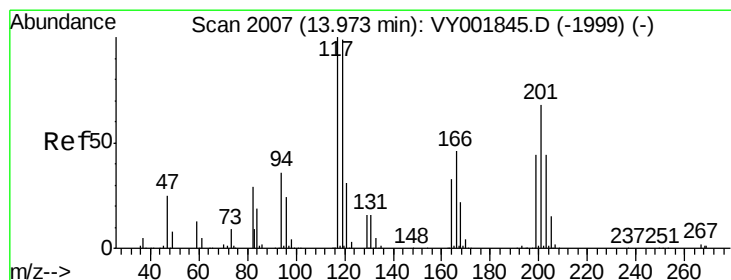
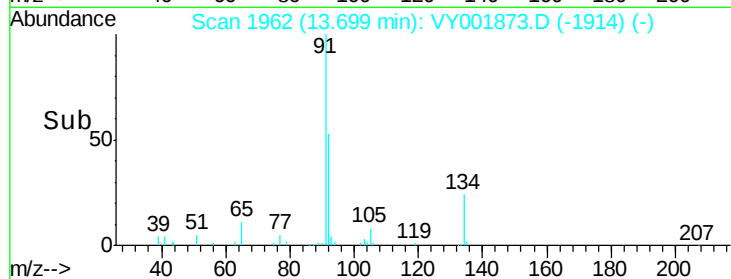
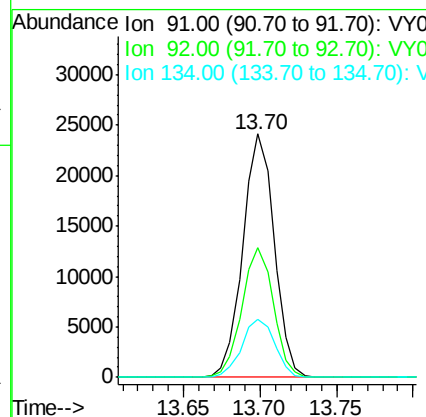
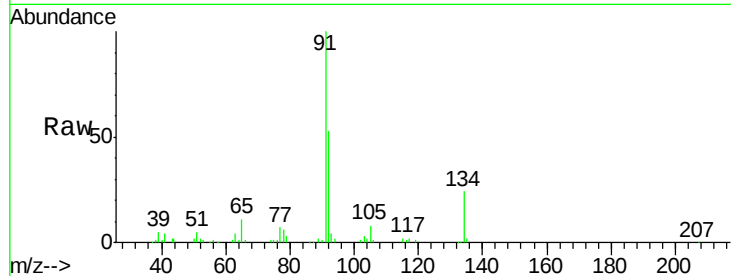
#89
n-Butylbenzene
Concen: 4.030 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.5	82.4
134	25.1	12.5	37.5

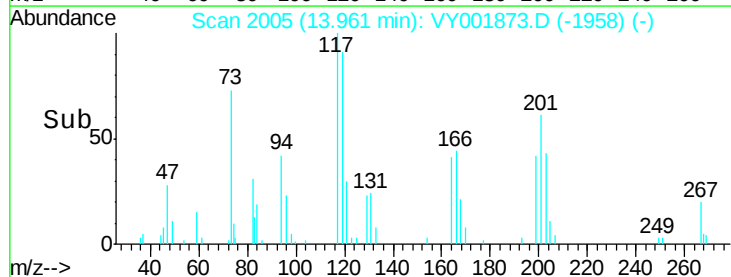
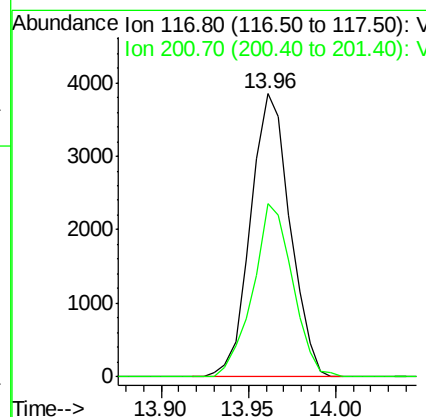
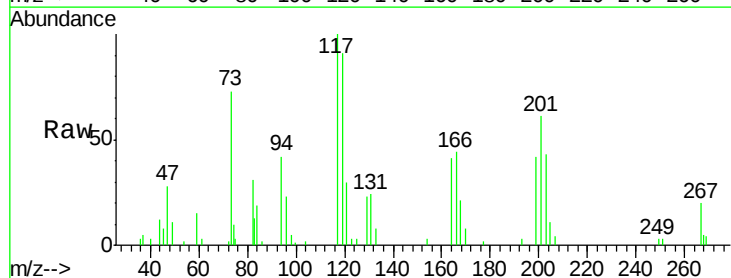
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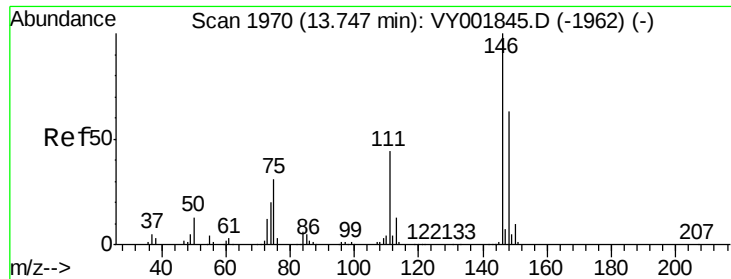
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#90
Hexachloroethane
Concen: 3.890 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	61.4	32.5	97.5





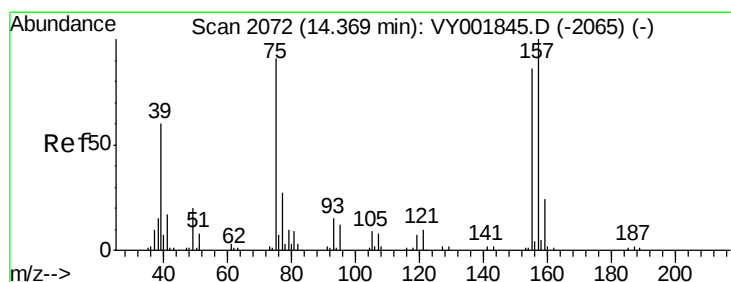
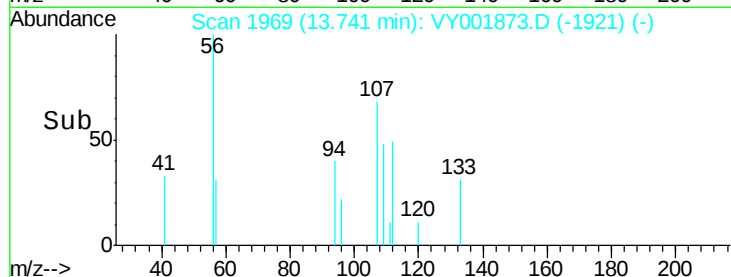
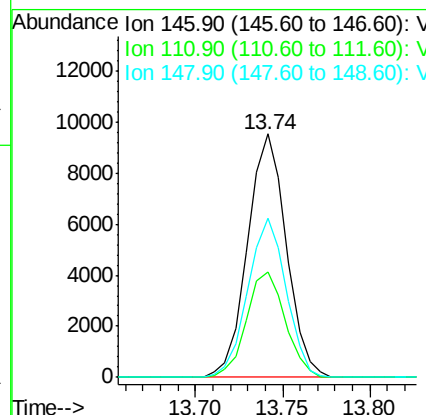
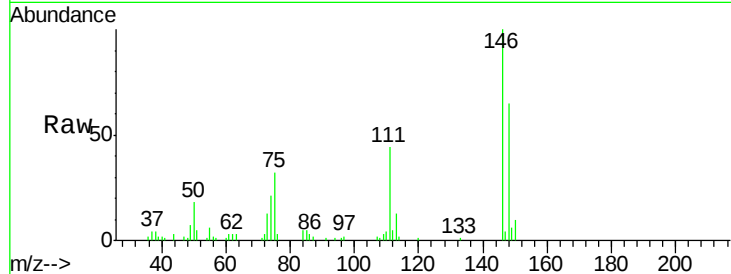
#91
 1,2-Dichlorobenzene
 Concen: 4.093 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.5	64.5
148	64.9	32.0	96.0

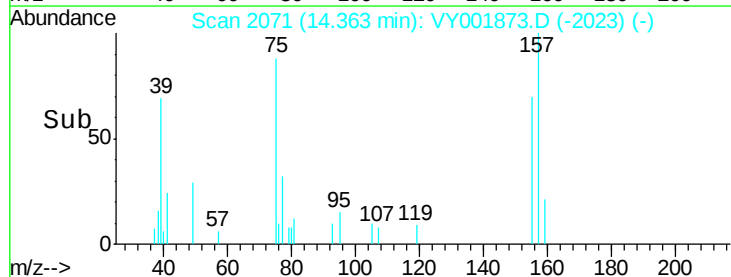
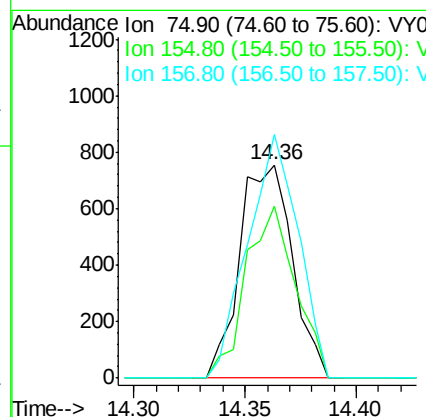
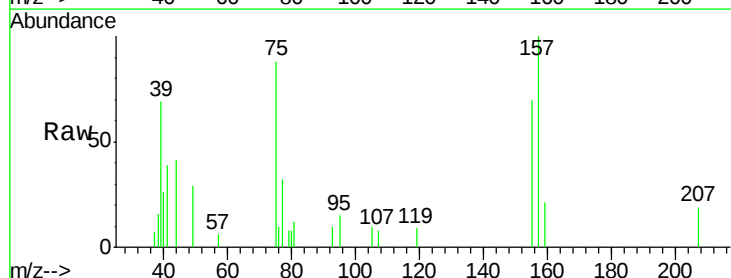
Manual Integrations
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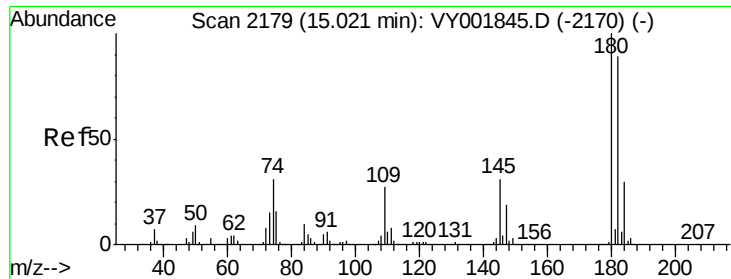
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.894 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. -0.01 min
 Lab File: VY001873.D
 Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.7	42.9	128.7
157	109.3	53.1	159.4





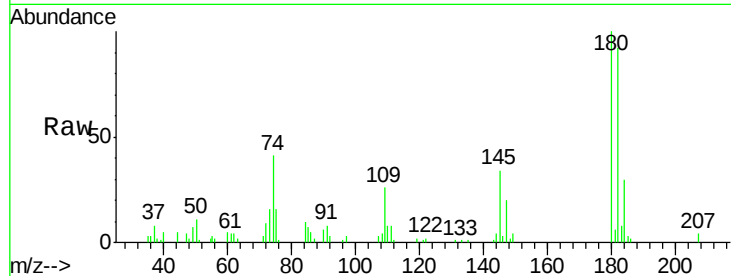
#93
1,2,4-Trichlorobenzene
Concen: 4.121 ug/l
RT: 15.01 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

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

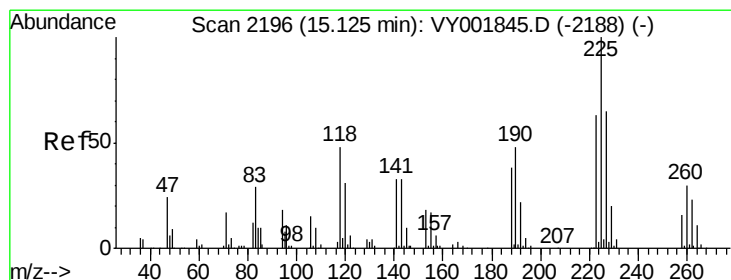
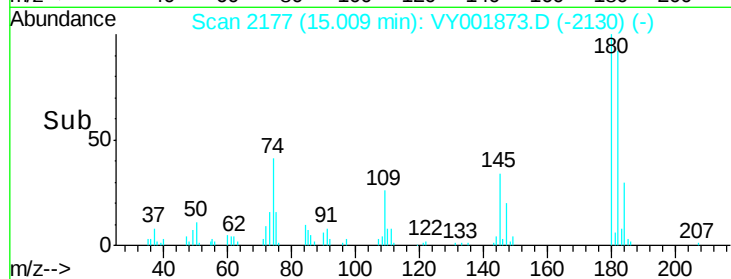
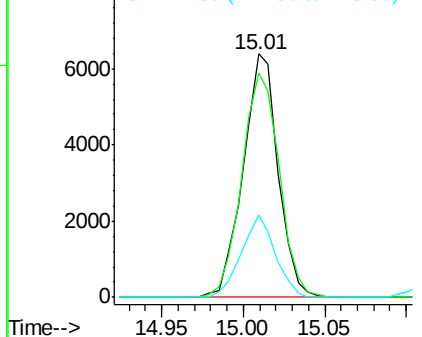
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	46.1	138.3
145	32.7	15.6	46.8

Manual Integrations
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3/6/2020 11:16:52 AM

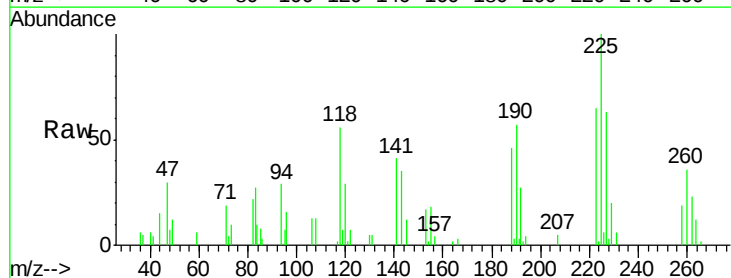


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

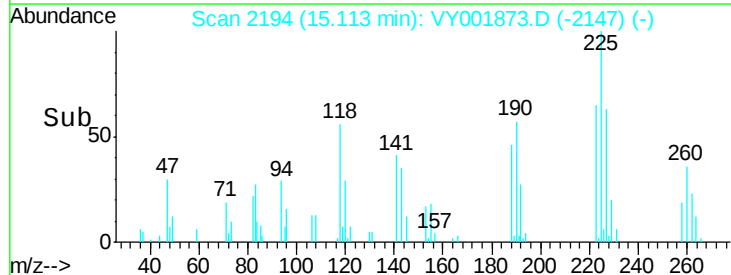
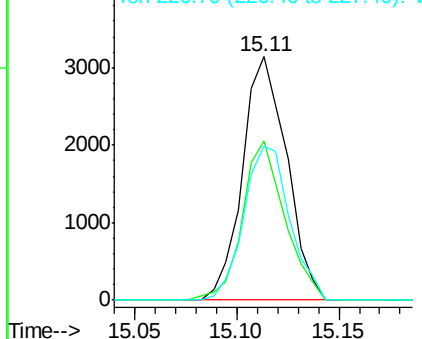


#94
Hexachlorobutadiene
Concen: 4.179 ug/l
RT: 15.11 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VY001873.D
Acq: 05 Mar 2020 11:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.5	94.5
227	65.8	31.9	95.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.972 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Instrument :

MSVOA_Y

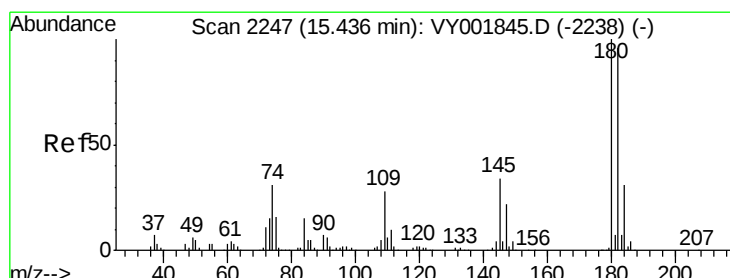
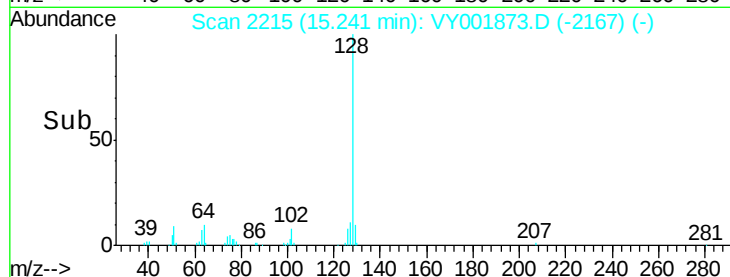
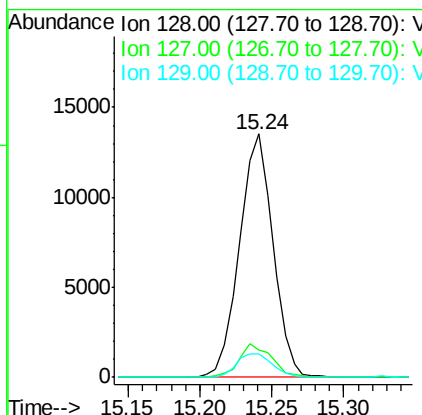
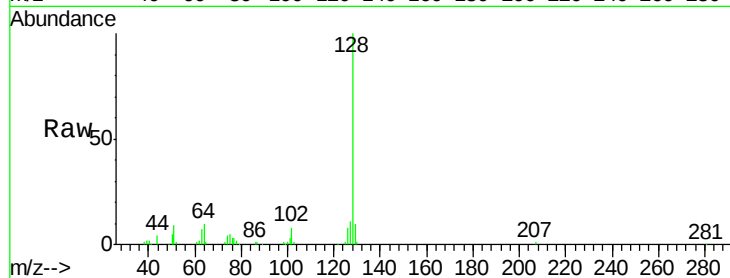
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	128	Resp:	21858
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.1	15.1
129	10.3	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/6/2020 11:16:52 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.098 ug/l

RT: 15.43 min Scan# 2246

Delta R.T. -0.01 min

Lab File: VY001873.D

Acq: 05 Mar 2020 11:59

Tgt Ion:	180	Resp:	8376
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.6	142.9
145	35.6	16.8	50.3

