

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\
 Data File : VY003485.D
 Acq On : 03 Nov 2020 12:32
 Operator : SY/MD
 Sample : L4214-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 11:57:44 AM

Quant Time: Nov 04 01:23:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 02 12:40:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	259136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	377078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	338369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	168780	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	136675	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
35) Dibromofluoromethane	7.73	113	119131	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
50) Toluene-d8	10.18	98	479025	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.48	95	154233	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	5667	2.764	ug/l	93
3) Chloromethane	2.12	50	7330	2.716	ug/l	99
4) Vinyl Chloride	2.26	62	7829	2.584	ug/l	100
5) Bromomethane	2.66	94	6877	2.717	ug/l	96
6) Chloroethane	2.80	64	4984	2.760	ug/l	92
7) Trichlorofluoromethane	3.14	101	11772	3.061	ug/l	93
8) Diethyl Ether	3.54	74	3581	3.036	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.92	101	6164	2.900	ug/l	97
10) Methyl Iodide	4.11	142	5748	3.277	ug/l	98
11) Tert butyl alcohol	4.96	59	7330	24.438	ug/l #	88
12) 1,1-Dichloroethene	3.89	96	6149	2.908	ug/l	94
13) Acrolein	3.74	56	3062	13.888	ug/l	94
14) Allyl chloride	4.50	41	10131	2.626	ug/l	98
15) Acrylonitrile	5.18	53	8800	13.979	ug/l	98
16) Acetone	3.96	43	11500	13.122	ug/l	94
17) Carbon Disulfide	4.21	76	18837	2.749	ug/l	97
18) Methyl Acetate	4.50	43	5201	3.140	ug/l	97
19) Methyl tert-butyl Ether	5.24	73	14037	2.680	ug/l	97
20) Methylene Chloride	4.73	84	11600	4.700	ug/l	96
21) trans-1,2-Dichloroethene	5.23	96	6844	2.795	ug/l	85
22) Diisopropyl ether	6.14	45	17236	2.547	ug/l	93
23) Vinyl Acetate	6.08	43	60664	11.929	ug/l	98
24) 1,1-Dichloroethane	6.04	63	11933	2.775	ug/l	96
25) 2-Butanone	7.00	43	14120	12.882	ug/l	99
26) 2,2-Dichloropropane	7.00	77	11367	2.837	ug/l	99
27) cis-1,2-Dichloroethene	7.00	96	7318	2.758	ug/l	97
28) Bromochloromethane	7.35	49	6320	2.921	ug/l #	94
29) Tetrahydrofuran	7.36	42	7614	13.294	ug/l	96
30) Chloroform	7.52	83	11143	2.638	ug/l	95
31) Cyclohexane	7.79	56	14937	3.751	ug/l #	75
32) 1,1,1-Trichloroethane	7.71	97	10333	2.622	ug/l	98
36) 1,1-Dichloropropene	7.92	75	9820	2.762	ug/l	97
37) Ethyl Acetate	7.10	43	6426	2.911	ug/l	98
38) Carbon Tetrachloride	7.91	117	9730	2.638	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	10930	2.761	ug/l	96
40) Benzene	8.17	78	26230	2.651	ug/l	99
41) Methacrylonitrile	7.32	41	2981	2.529	ug/l #	100
42) 1,2-Dichloroethane	8.25	62	8716	2.812	ug/l	99
43) Isopropyl Acetate	8.28	43	10163	2.562	ug/l	96
44) Trichloroethene	8.94	130	7885	2.839	ug/l	99
45) 1,2-Dichloropropane	9.22	63	6477	2.592	ug/l	97
46) Dibromomethane	9.31	93	3646	2.652	ug/l	98
47) Bromodichloromethane	9.50	83	8458	2.514	ug/l	98
48) Methyl methacrylate	9.30	41	4441	2.376	ug/l	96
49) 1,4-Dioxane	9.31	88	885	51.598	ug/l #	90
51) 4-Methyl-2-Pentanone	10.07	43	28699	13.576	ug/l	99
52) Toluene	10.25	92	16550	2.674	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	9375	2.618	ug/l	99
54) cis-1,3-Dichloropropene	9.93	75	10126	2.513	ug/l	99
55) 1,1,2-Trichloroethane	10.64	97	5414	2.775	ug/l	92
56) Ethyl methacrylate	10.52	69	5825	2.229	ug/l	92
57) 1,3-Dichloropropane	10.79	76	9003	2.653	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	16489	12.445	ug/l	99
59) 2-Hexanone	10.83	43	17911	11.444	ug/l	99
60) Dibromochloromethane	10.99	129	6161	2.569	ug/l	100
61) 1,2-Dibromoethane	11.09	107	4845	2.572	ug/l	96
64) Tetrachloroethene	10.72	164	7158	2.833	ug/l	94
65) Chlorobenzene	11.52	112	17621	2.681	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	6336	2.556	ug/l	94
67) Ethyl Benzene	11.59	91	30582	2.566	ug/l	100
68) m/p-Xylenes	11.70	106	22947	5.080	ug/l	99
69) o-Xylene	12.03	106	10633	2.559	ug/l	99
70) Styrene	12.05	104	17069	2.419	ug/l	99
71) Bromoform	12.21	173	3888	2.353	ug/l #	90
73) Isopropylbenzene	12.33	105	28306	2.567	ug/l	100
74) N-amyl acetate	12.14	43	7919	2.536	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.58	83	6511	2.765	ug/l	100
76) 1,2,3-Trichloropropane	12.63	75	4667m	2.613	ug/l	
77) Bromobenzene	12.61	156	7510	2.681	ug/l	93
78) n-propylbenzene	12.67	91	36324	2.797	ug/l	98
79) 2-Chlorotoluene	12.75	91	19645	2.708	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	23704	2.595	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	2102m	2.457	ug/l	
82) 4-Chlorotoluene	12.85	91	21003	2.770	ug/l	98
83) tert-Butylbenzene	13.08	119	21159	2.612	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	23872	2.615	ug/l	100
85) sec-Butylbenzene	13.25	105	28584	2.606	ug/l	97
86) p-Isopropyltoluene	13.37	119	26601	2.615	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	14617	2.801	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	15266	2.942	ug/l	90
89) n-Butylbenzene	13.69	91	24936	2.683	ug/l	97
90) Hexachloroethane	13.96	117	4557	2.661	ug/l	99
91) 1,2-Dichlorobenzene	13.74	146	12761	2.753	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.35	75	1300	3.049	ug/l	87

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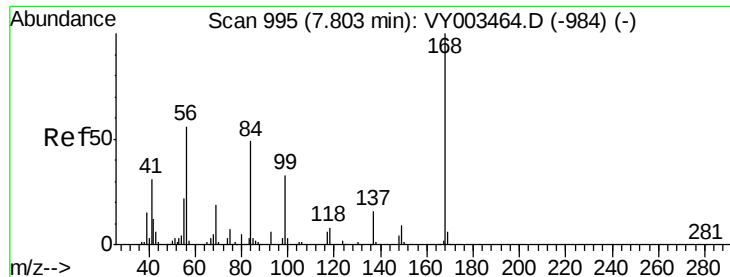
Manual Integrations
APPROVED

MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	9750	2.973	ug/l	99
94) Hexachlorobutadiene	15.11	225	6027	2.857	ug/l	99
95) Naphthalene	15.23	128	18316	2.789	ug/l	99
96) 1,2,3-Trichlorobenzene	15.42	180	8805	2.985	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. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 259136

Ion Ratio Lower Upper

168 100

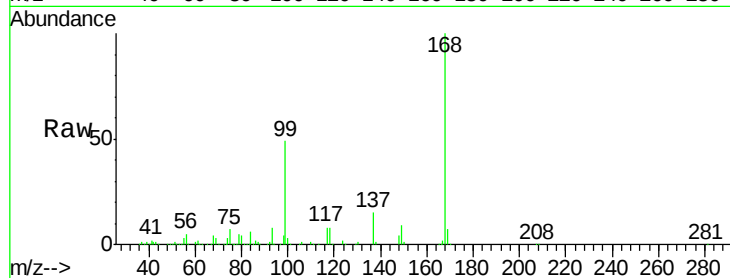
99 48.5 39.7 59.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VY003464.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY003464.D (-984) (-)

7.80

120000

100000

80000

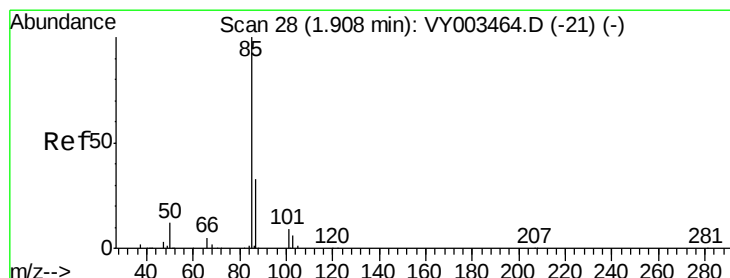
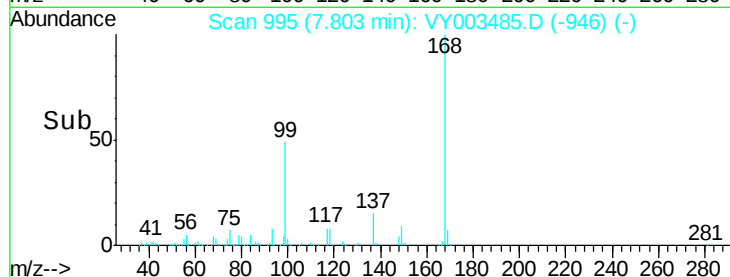
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.764 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.00 min

Lab File: VY003485.D

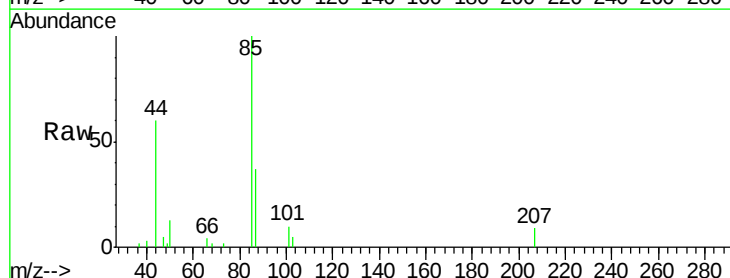
Acq: 03 Nov 2020 12:32

Tgt Ion: 85 Resp: 5667

Ion Ratio Lower Upper

85 100

87 36.6 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VY003464.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY003464.D (-21) (-)

1.91

4000

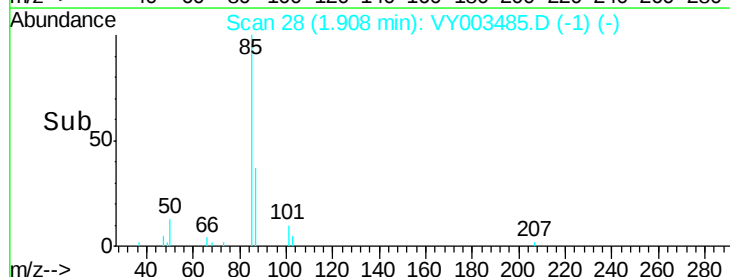
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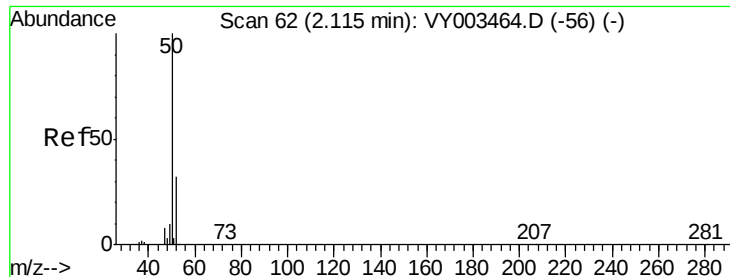
2000

1000

0

Time-->





#3

Chloromethane

Concen: 2.716 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 7330

Ion Ratio Lower Upper

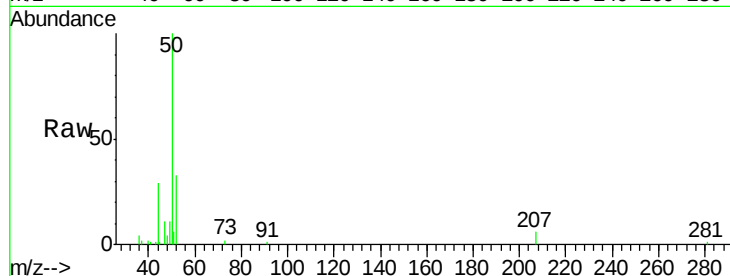
50 100

52 32.8 25.6 38.4

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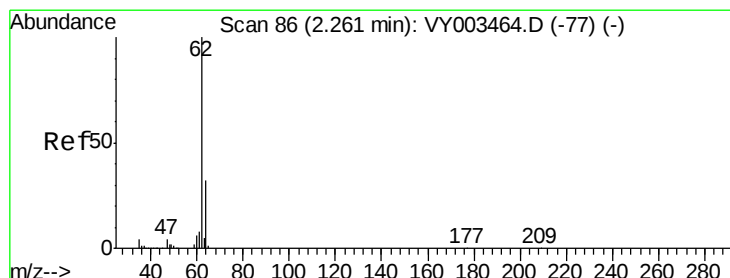
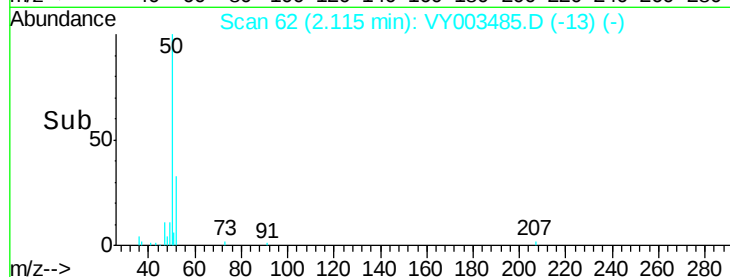
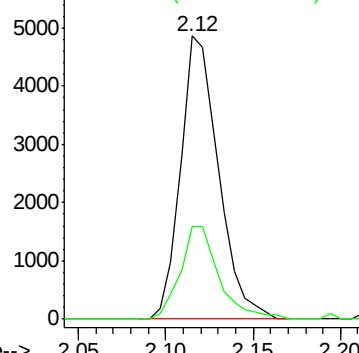
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Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 2.584 ug/l

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY003485.D

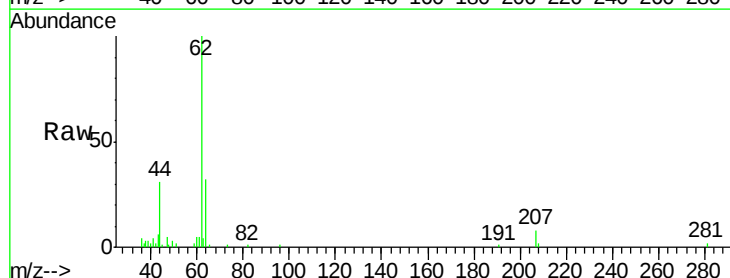
Acq: 03 Nov 2020 12:32

Tgt Ion: 62 Resp: 7829

Ion Ratio Lower Upper

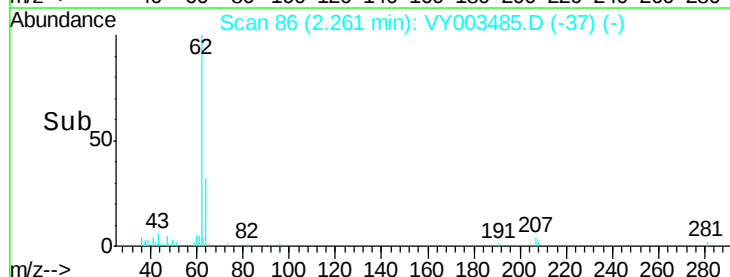
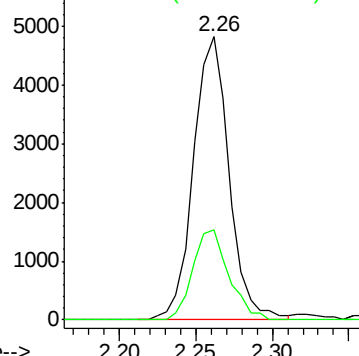
62 100

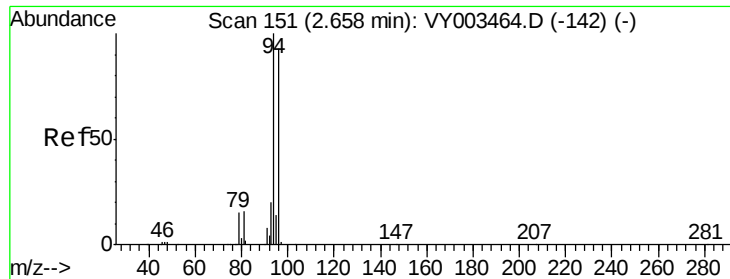
64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 2.717 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 6877

Ion Ratio Lower Upper

94 100

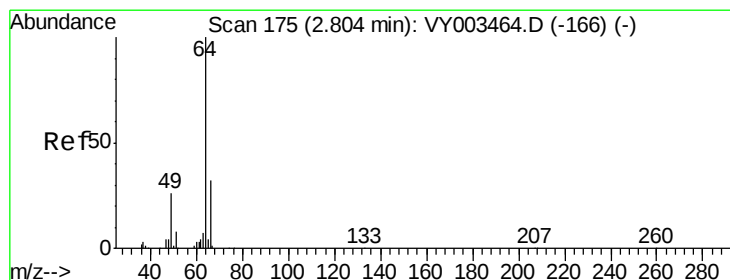
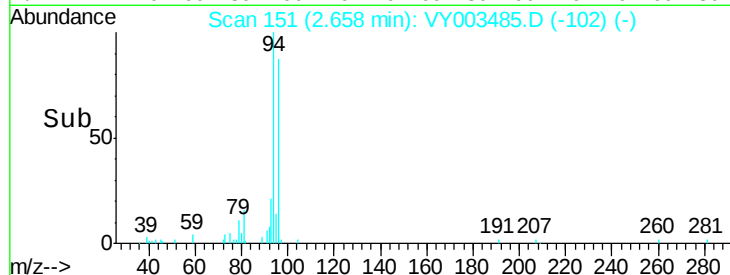
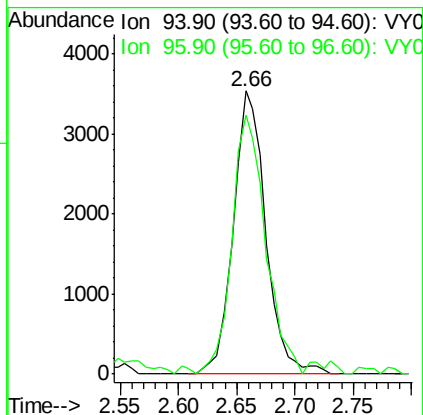
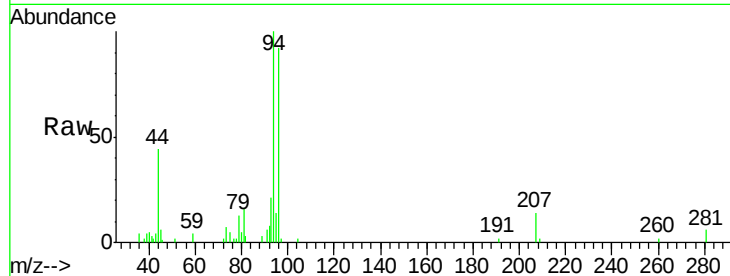
96 89.4 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 2.760 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY003485.D

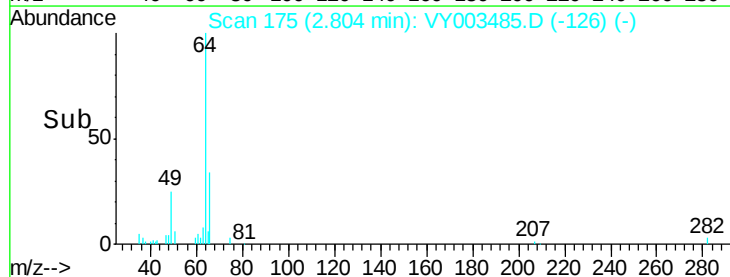
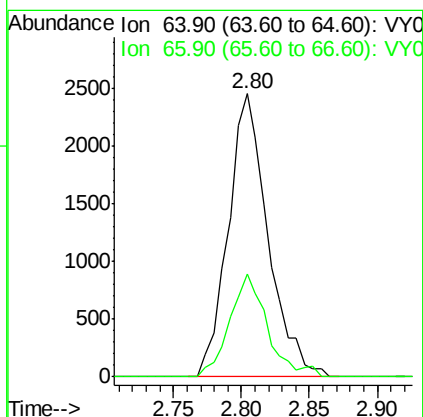
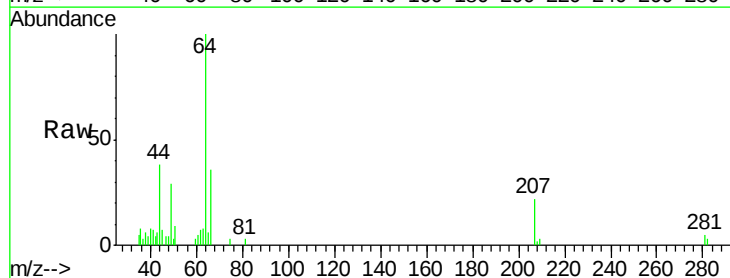
Acq: 03 Nov 2020 12:32

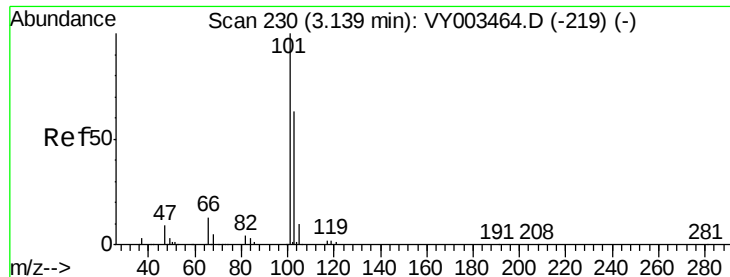
Tgt Ion: 64 Resp: 4984

Ion Ratio Lower Upper

64 100

66 36.2 25.6 38.4





#7

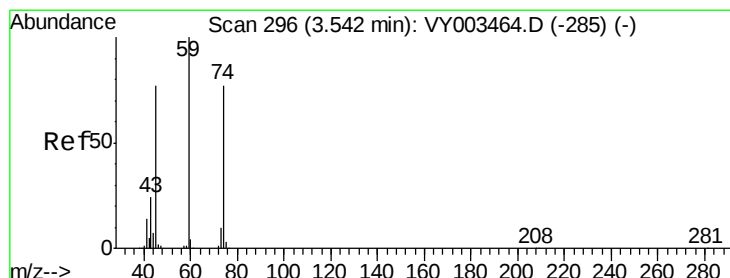
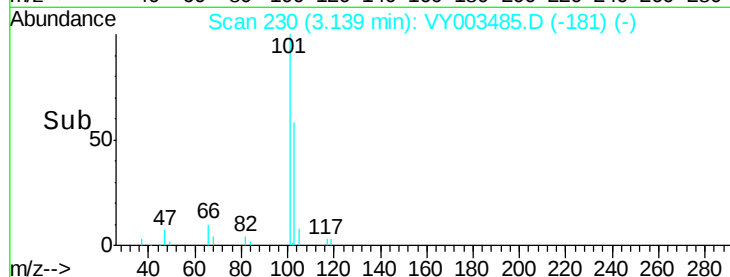
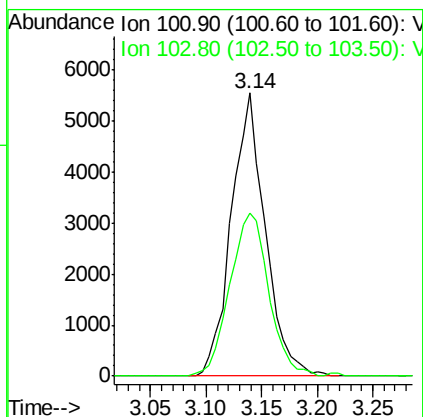
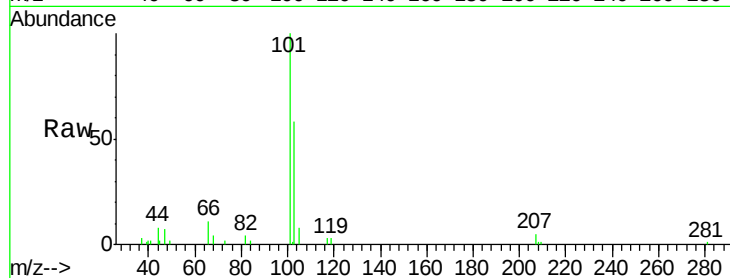
Trichlorofluoromethane
Concen: 3.061 ug/l
RT: 3.14 min Scan# 230
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

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Tot Ion	Ratio	Lower	Upper
101	100		
103	57.7	50.7	76.1

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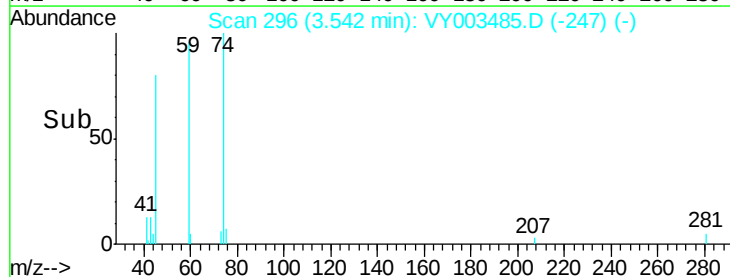
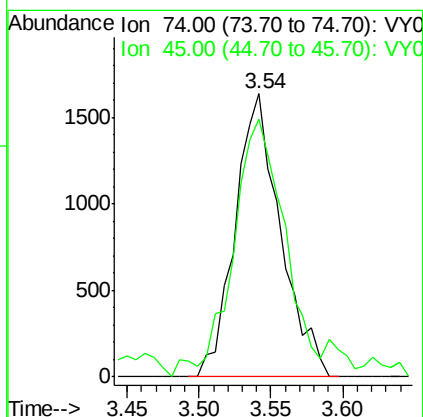
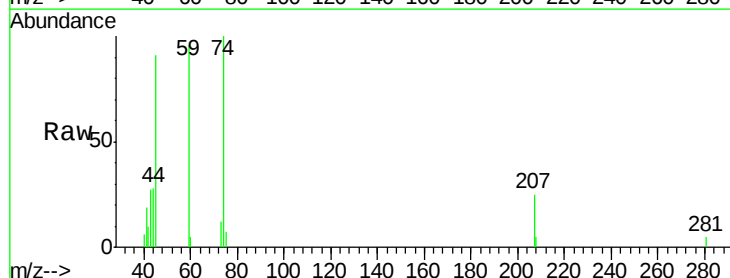
MMDadoda
11/4/2020 11:57:44 AM

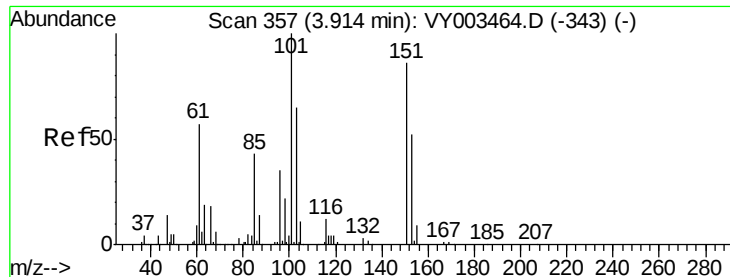


#8

Diethyl Ether
Concen: 3.036 ug/l
RT: 3.54 min Scan# 296
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.9	50.7	152.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.900 ug/l

RT: 3.92 min Scan# 358

Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

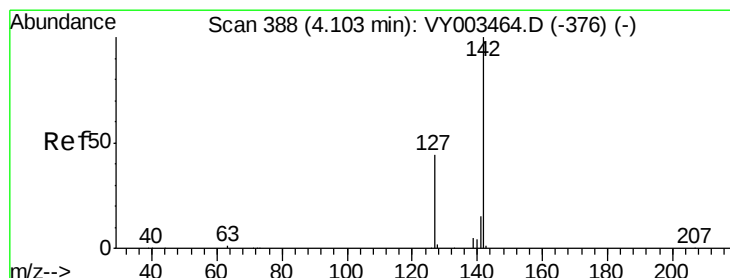
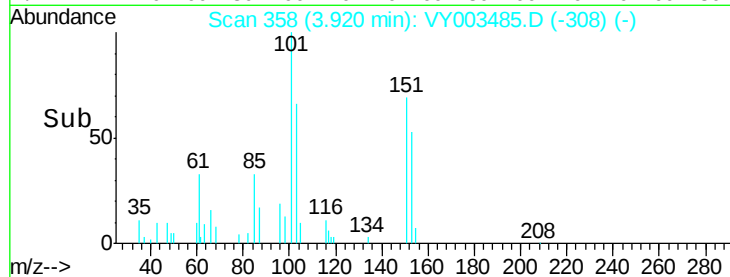
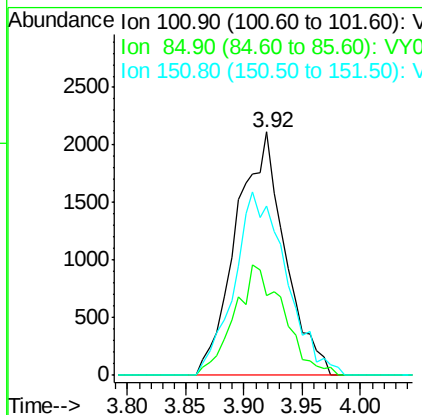
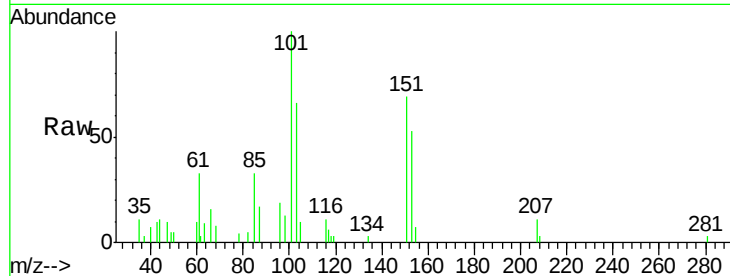
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	101	Resp:	6164
Ion Ratio	Lower	Upper	
101	100		
85	45.6	35.8	53.8
151	80.3	67.6	101.4

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11/4/2020 11:57:44 AM



#10

Methyl Iodide

Concen: 3.277 ug/l

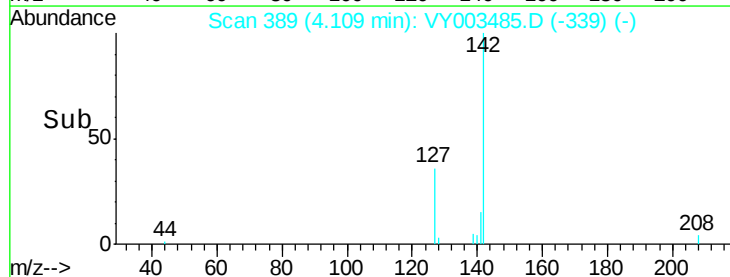
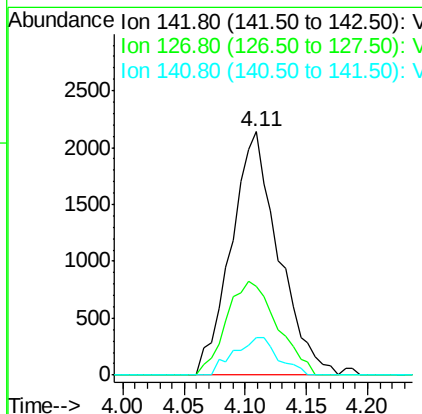
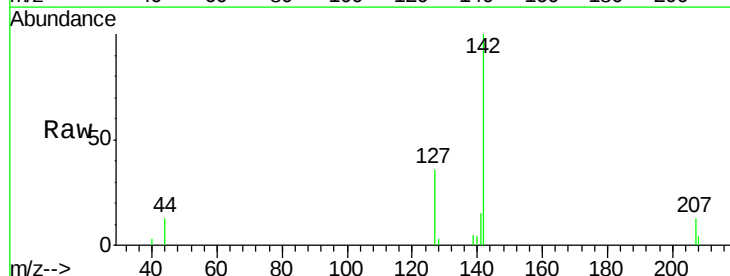
RT: 4.11 min Scan# 389

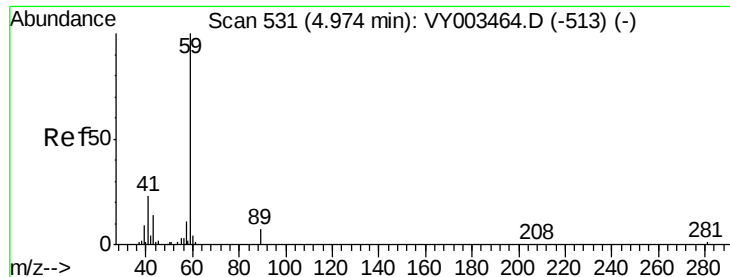
Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	142	Resp:	5748
Ion Ratio	Lower	Upper	
142	100		
127	41.4	34.5	51.7
141	14.4	11.8	17.8





#11

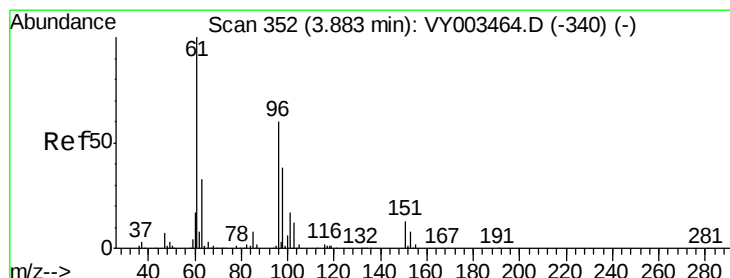
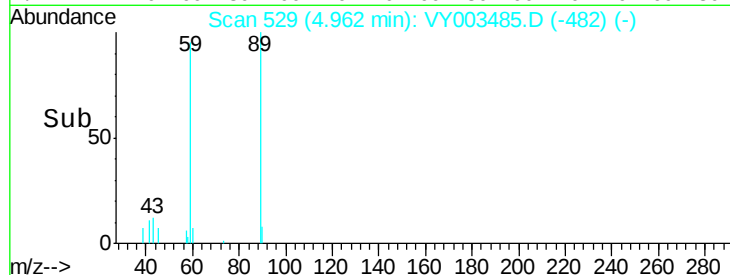
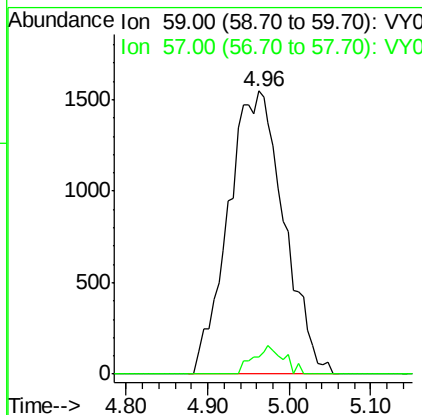
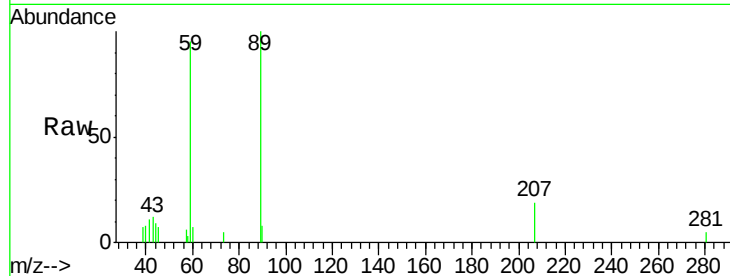
Tert butyl alcohol
Concen: 24.438 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.4	7.9	11.9#

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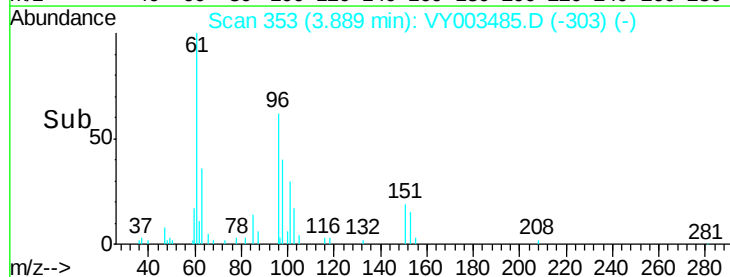
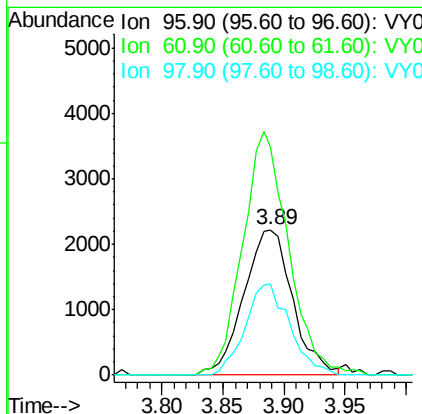
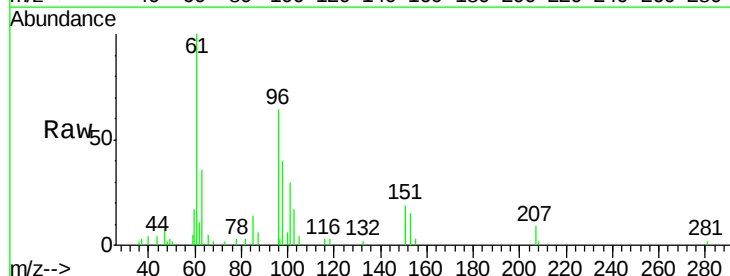
MMDadoda
11/4/2020 11:57:44 AM

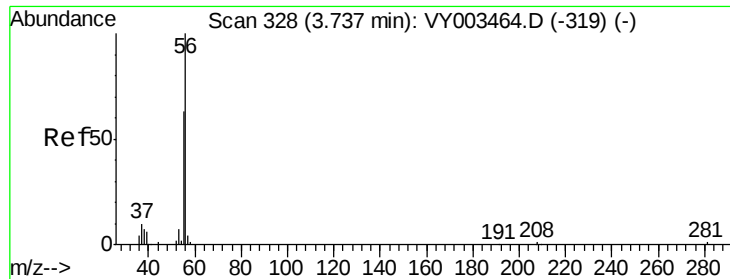


#12

1,1-Dichloroethene
Concen: 2.908 ug/l
RT: 3.89 min Scan# 353
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.8	133.6	200.4
98	62.6	50.2	75.2





#13

Acrolein

Concen: 13.888 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 3062

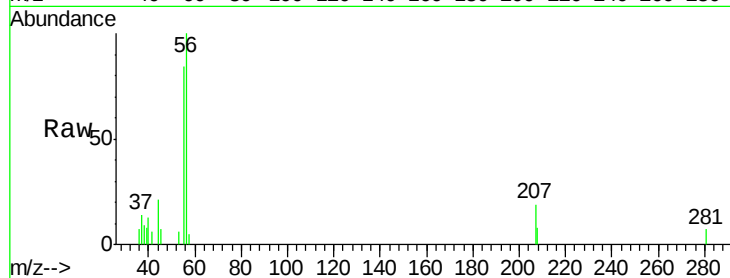
Ion Ratio Lower Upper

56 100

55 76.1 56.6 85.0

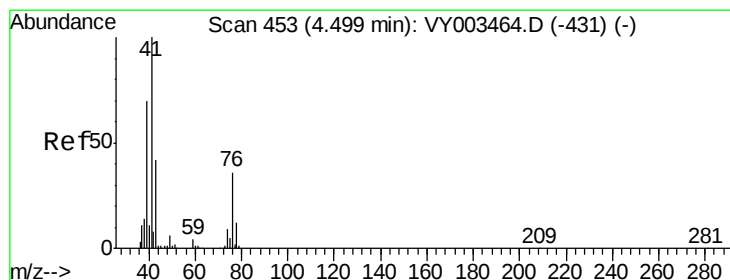
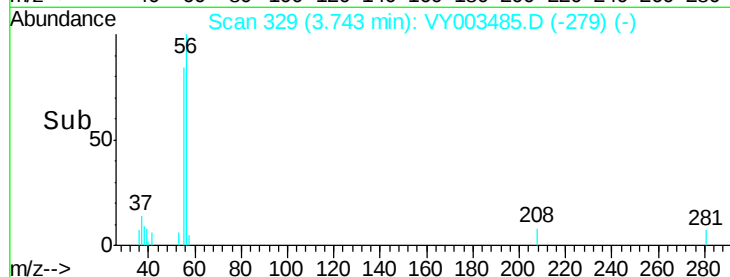
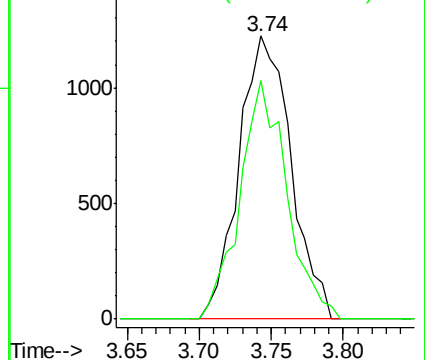
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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 2.626 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

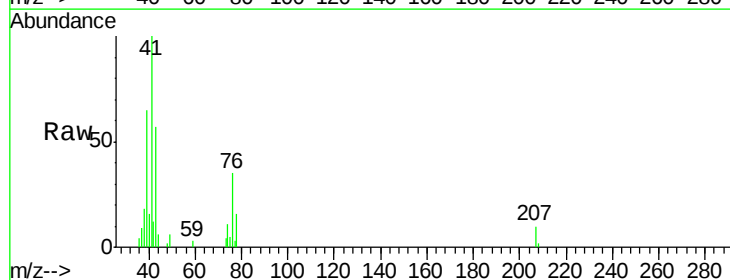
Tgt Ion: 41 Resp: 10131

Ion Ratio Lower Upper

41 100

39 66.8 54.4 81.6

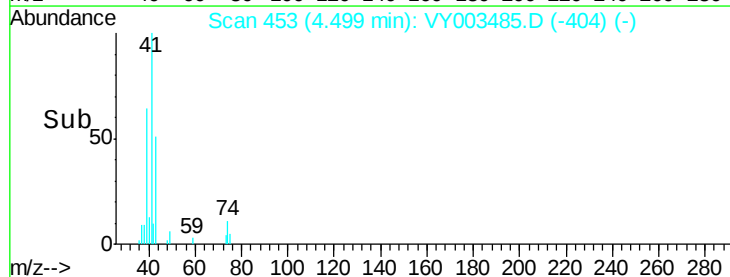
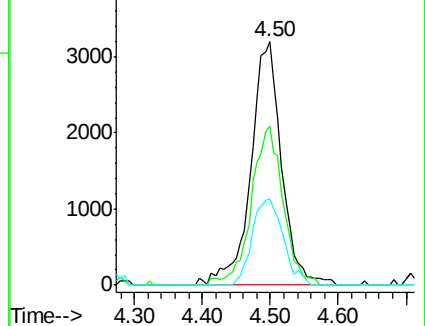
76 35.4 27.6 41.4

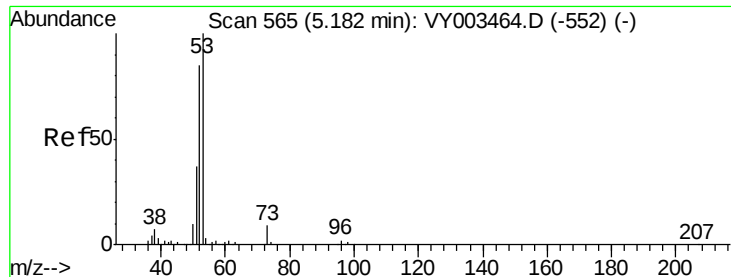


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 13.979 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

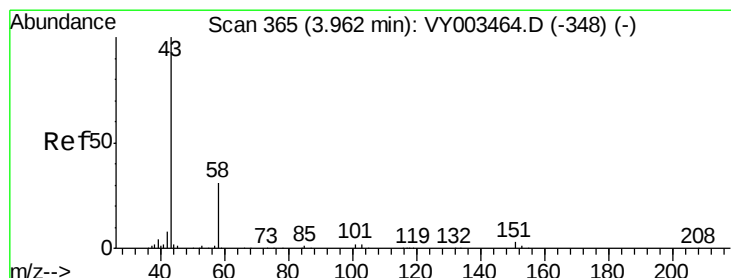
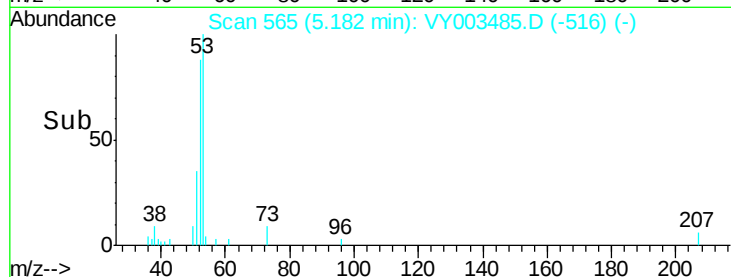
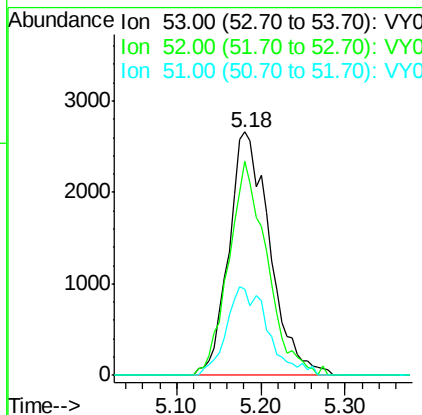
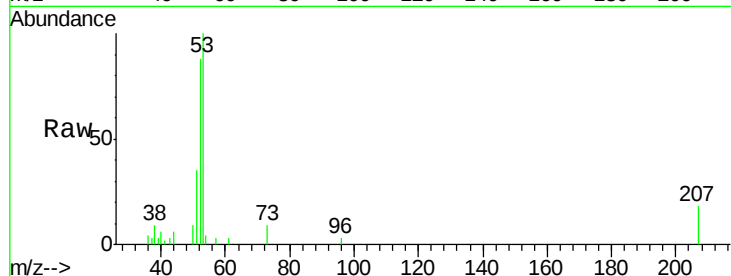
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	53	Resp:	8800
Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.9	100.3
51	36.8	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 13.122 ug/l

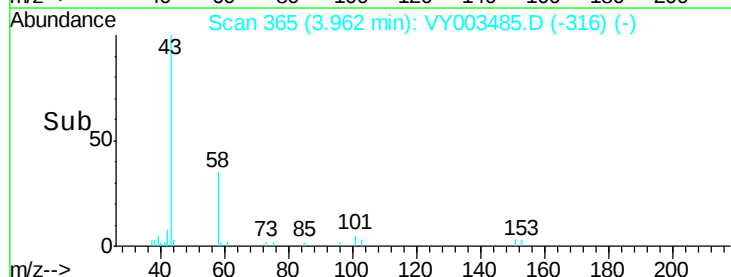
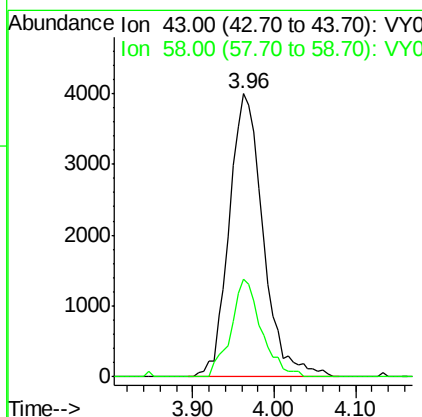
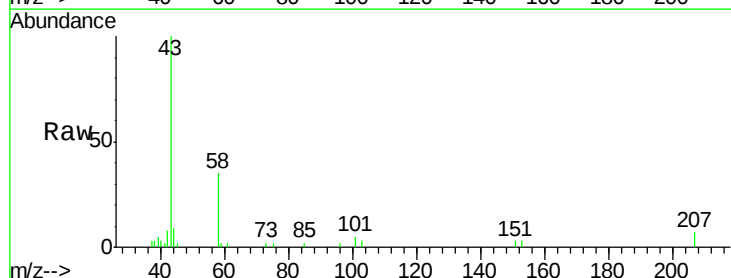
RT: 3.96 min Scan# 365

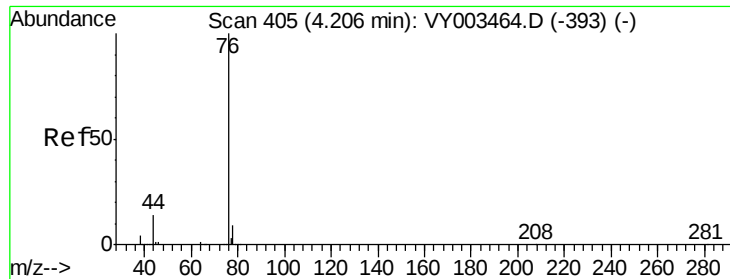
Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	43	Resp:	11500
Ion	Ratio	Lower	Upper
43	100		
58	34.5	25.0	37.4





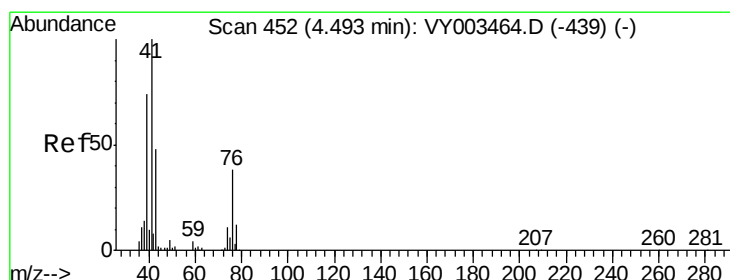
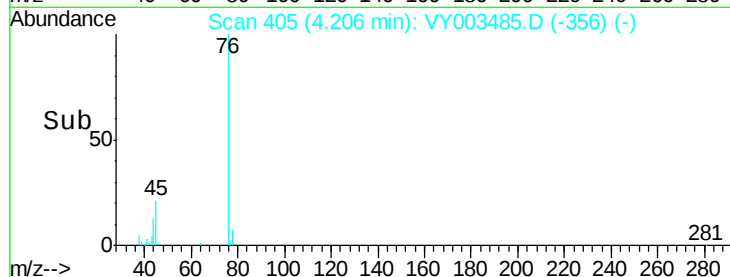
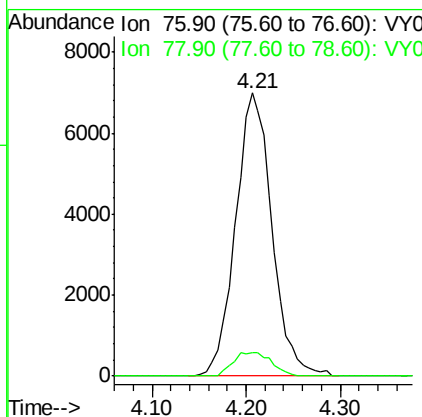
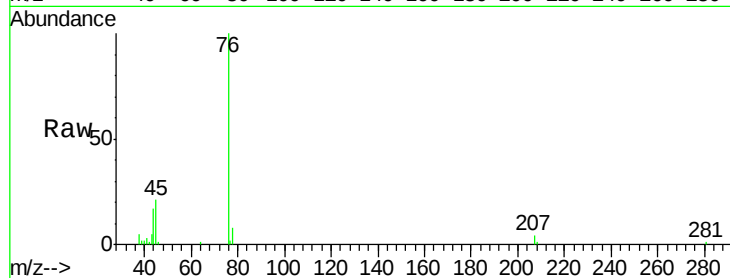
#17
Carbon Disulfide
Concen: 2.749 ug/l
RT: 4.21 min Scan# 405
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.4	11.2

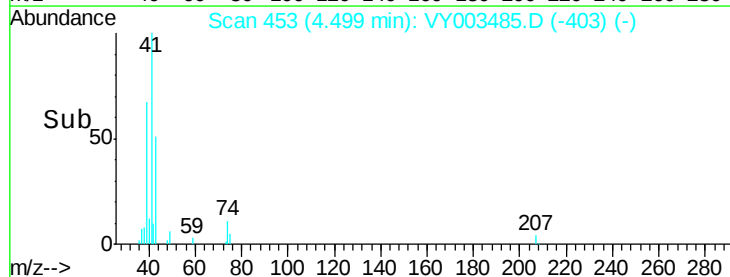
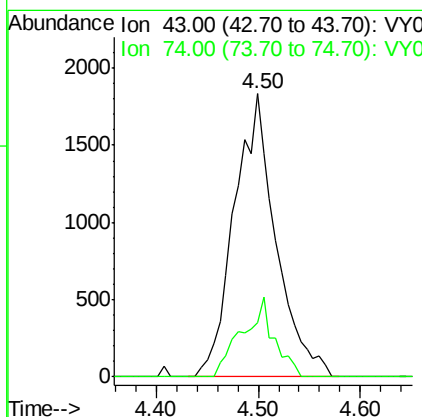
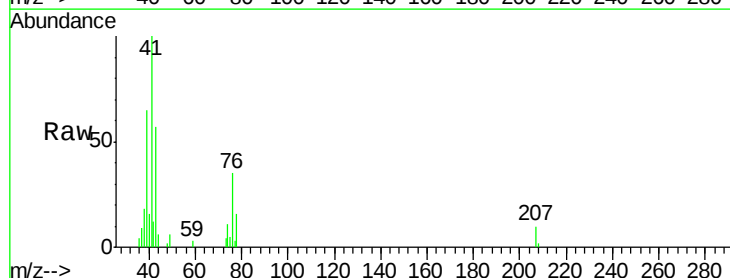
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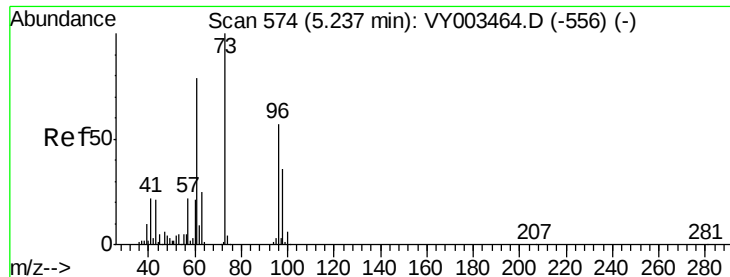
MMDadoda
11/4/2020 11:57:44 AM



#18
Methyl Acetate
Concen: 3.140 ug/l
RT: 4.50 min Scan# 453
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.6	18.4	27.6





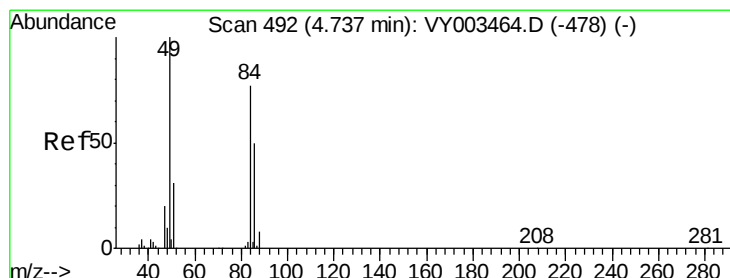
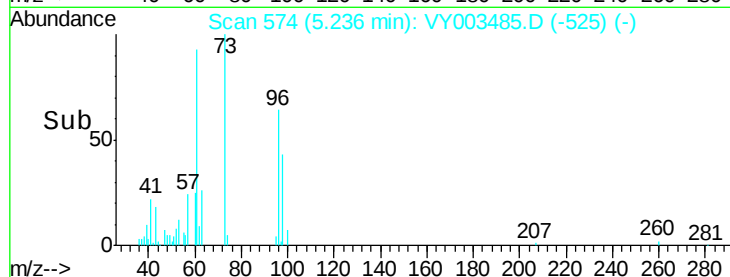
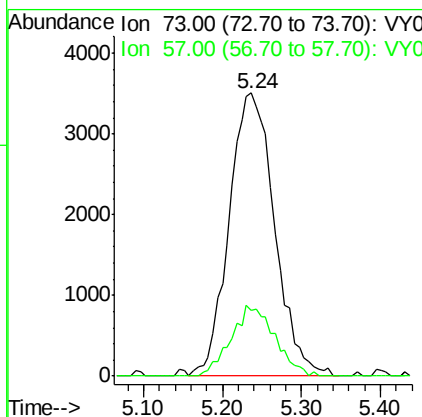
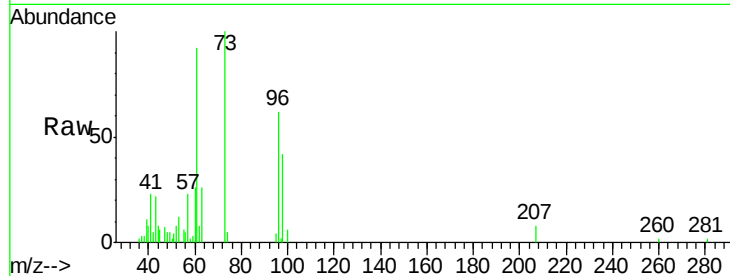
#19
Methvl tert-butvl Ether
Concen: 2.680 ug/l
RT: 5.24 min Scan# 574
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 73 Resp: 14037
Ion Ratio Lower Upper
73 100
57 23.1 17.2 25.8

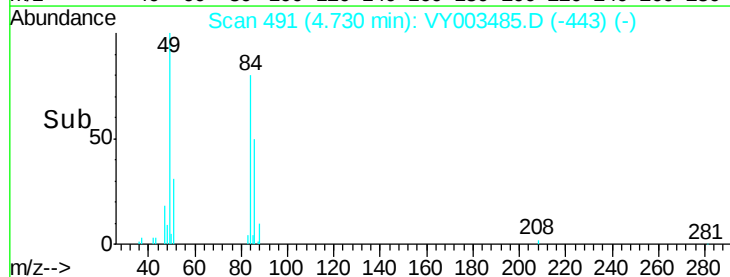
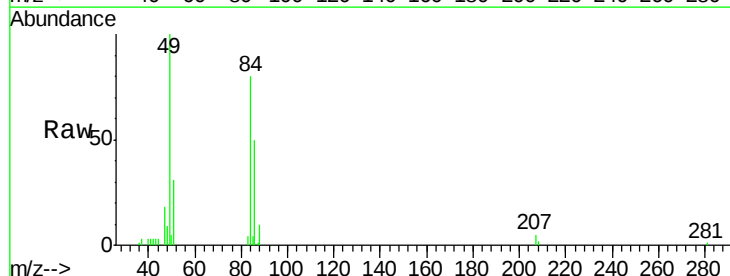
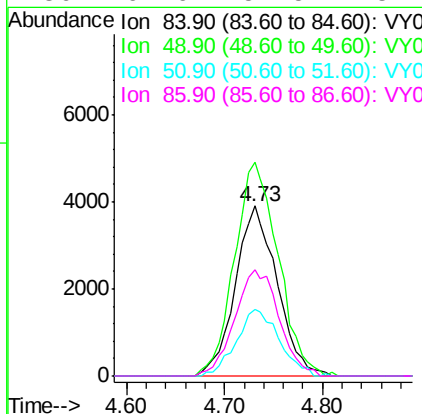
Manual Integrations
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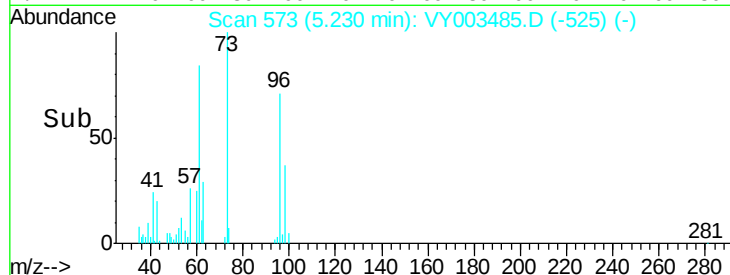
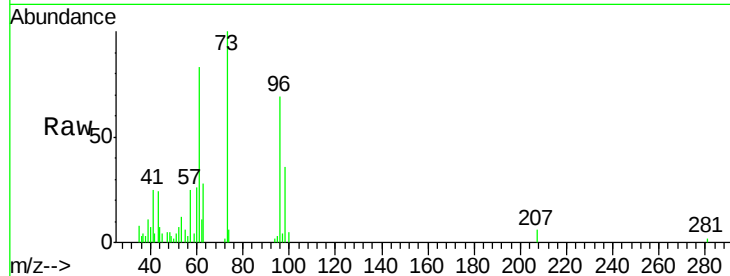
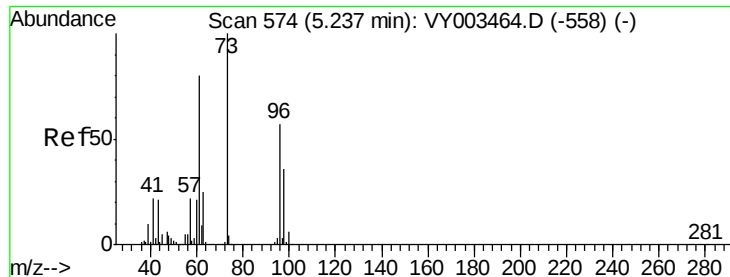
MMDadoda
11/4/2020 11:57:44 AM



#20
Methylene Chloride
Concen: 4.700 ug/l
RT: 4.73 min Scan# 491
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 84 Resp: 11600
Ion Ratio Lower Upper
84 100
49 125.6 104.3 156.5
51 38.9 32.5 48.7
86 62.6 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 2.795 ug/l

RT: 5.23 min Scan# 573

Delta R.T. -0.01 min

Lab File: VY003485.D

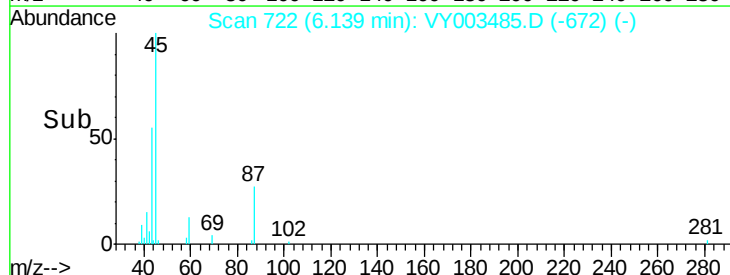
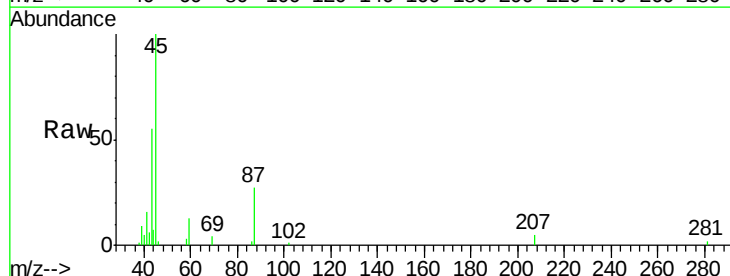
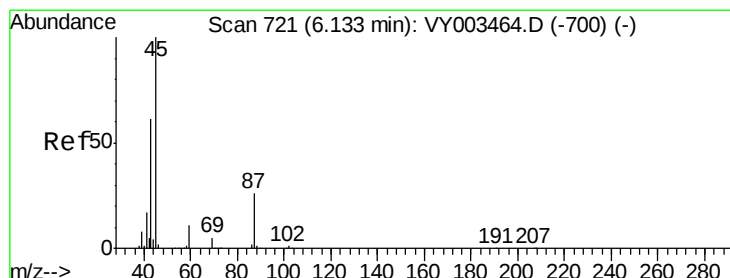
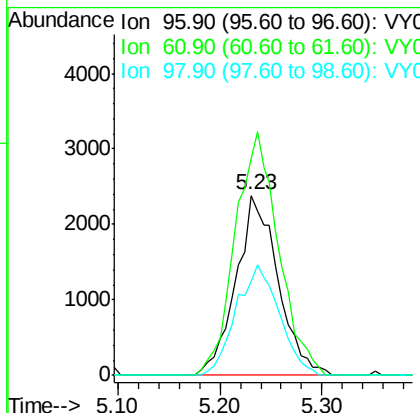
Acq: 03 Nov 2020 12:32

Tot Ion:	96	Resp:	6844
Ion	Ratio	Lower	Upper
96	100		
61	120.6	111.3	166.9
98	52.2	50.3	75.5

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Manual Integrations
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MMDadoda
11/4/2020 11:57:44 AM



#22

Diisopropyl ether

Concen: 2.547 ug/l

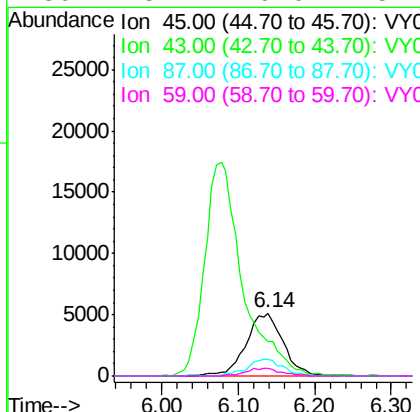
RT: 6.14 min Scan# 722

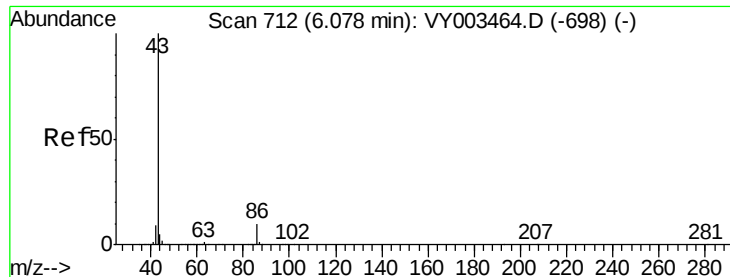
Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	45	Resp:	17236
Ion	Ratio	Lower	Upper
45	100		
43	53.5	48.8	73.2
87	26.6	20.6	31.0
59	13.2	9.0	13.4





#23

Vinyl Acetate

Concen: 11.929 ug/l

RT: 6.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 60664

Ion Ratio Lower Upper

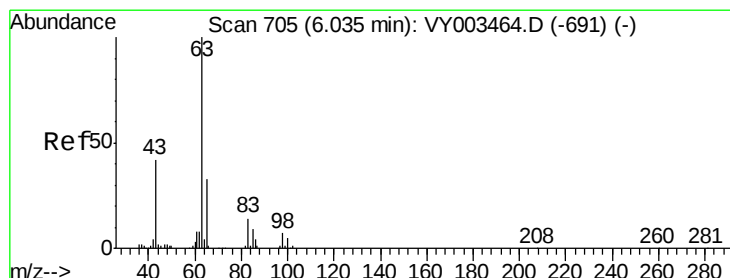
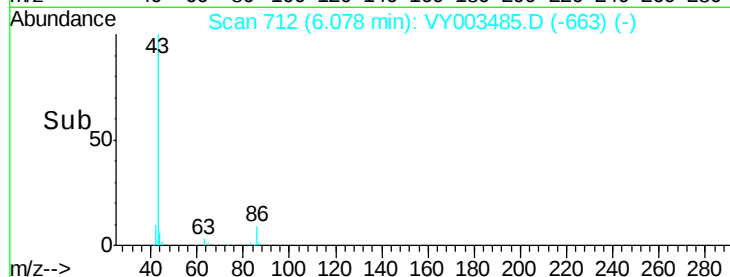
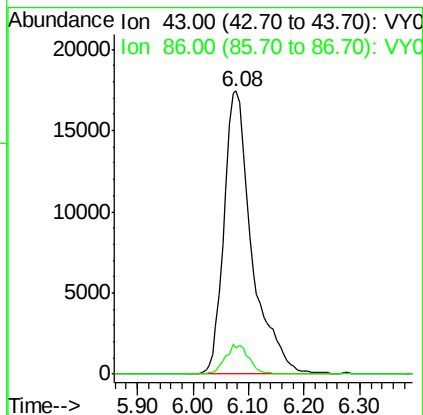
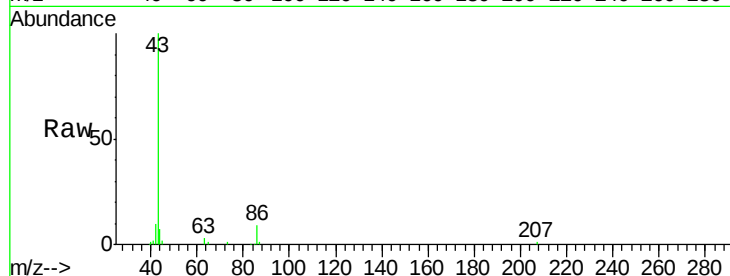
43 100

86 9.3 8.2 12.2

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 2.775 ug/l

RT: 6.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

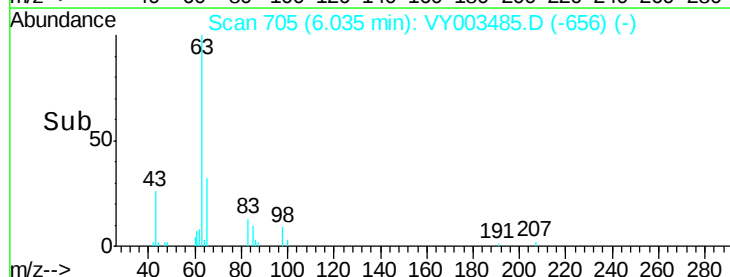
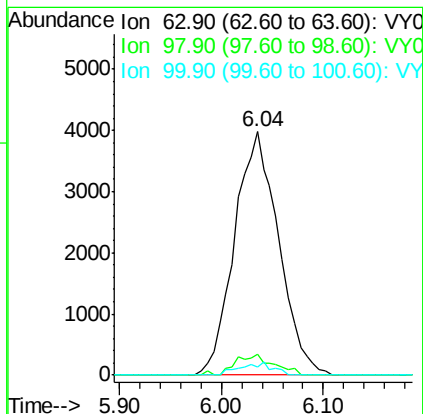
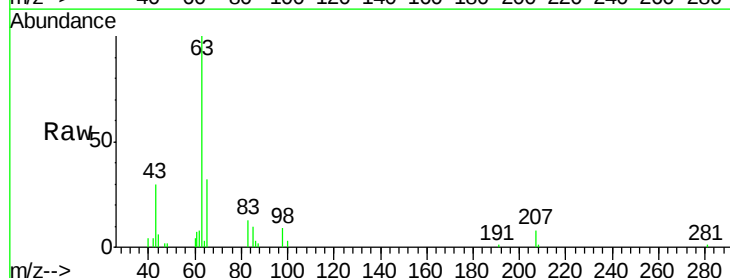
Tgt Ion: 63 Resp: 11933

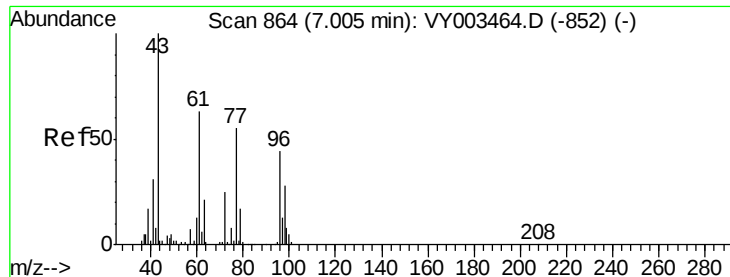
Ion Ratio Lower Upper

63 100

98 8.7 3.6 10.8

100 3.1 2.3 6.9





#25

2-Butanone

Concen: 12.882 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 14120

Ion Ratio Lower Upper

43 100

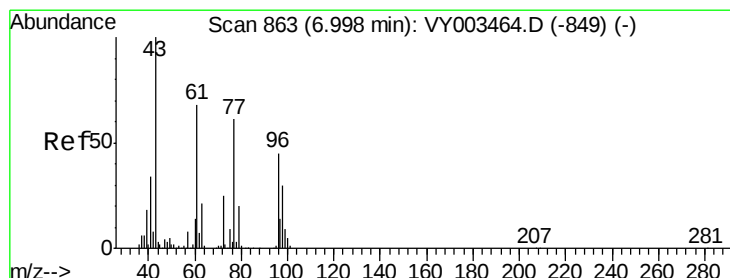
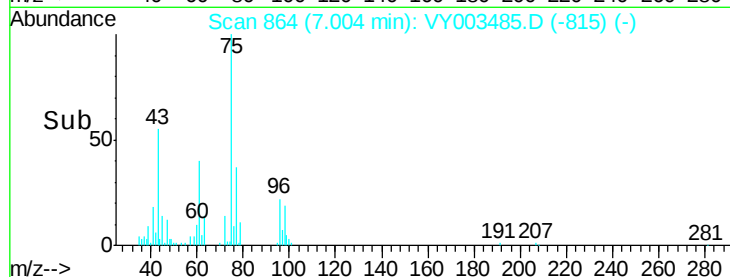
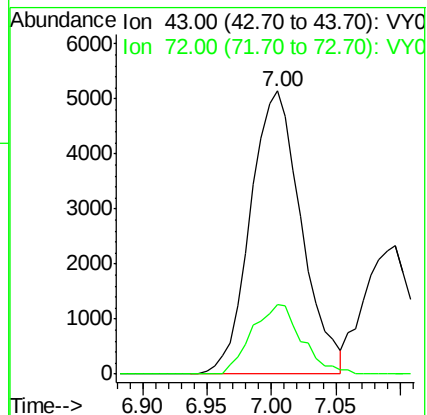
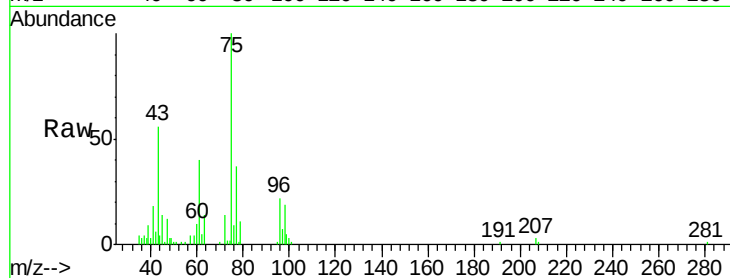
72 24.7 20.1 30.1

Manual Integrations

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11/4/2020 11:57:44 AM



#26

2,2-Dichloropropane

Concen: 2.837 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY003485.D

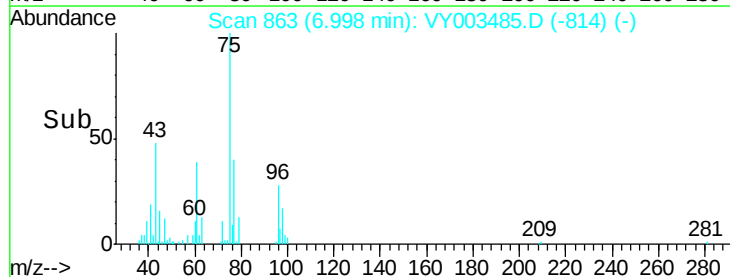
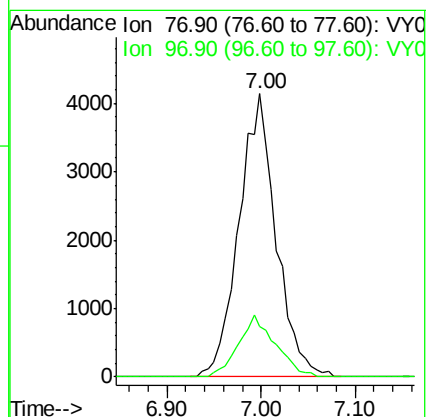
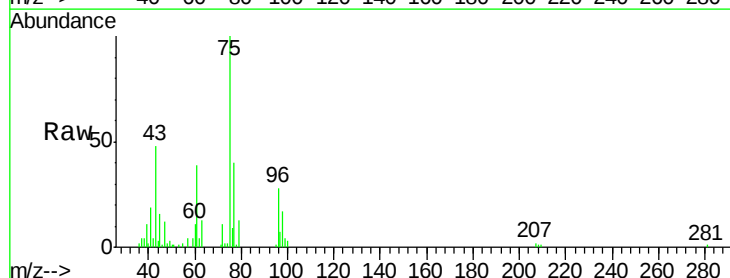
Acq: 03 Nov 2020 12:32

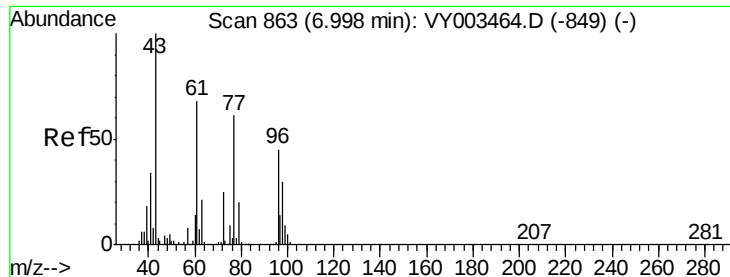
Tgt Ion: 77 Resp: 11367

Ion Ratio Lower Upper

77 100

97 21.7 11.2 33.6





#27

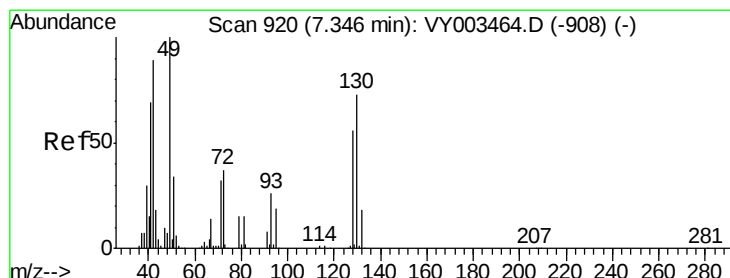
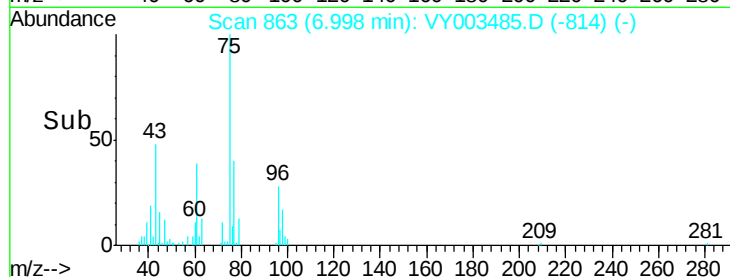
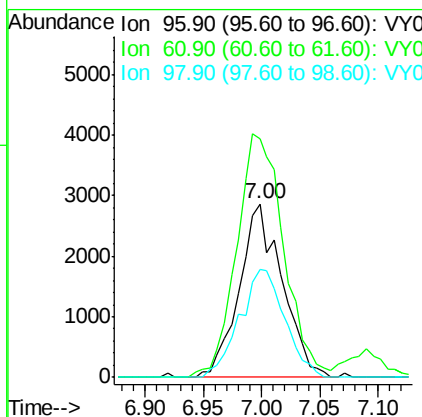
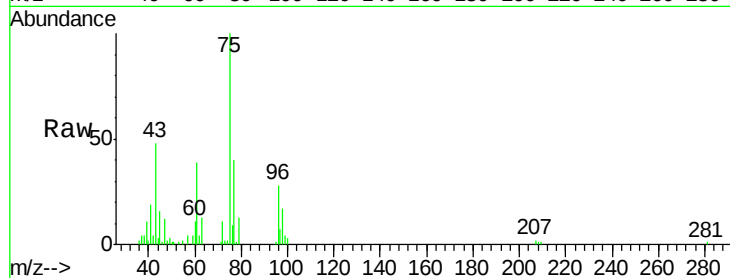
cis-1,2-Dichloroethene
Concen: 2.758 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	299.2
98	65.4	0.0	128.6

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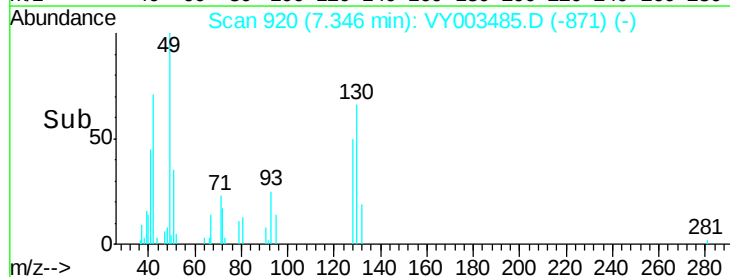
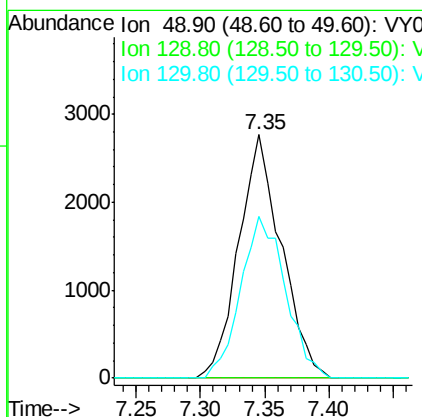
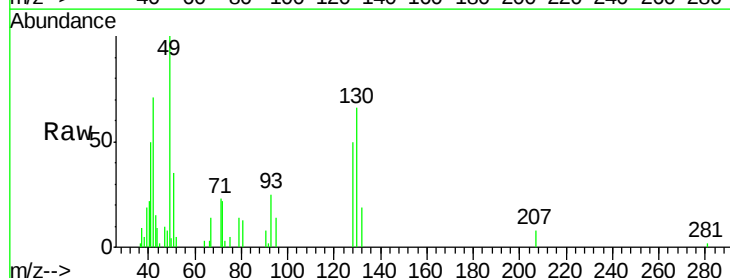
MMDadoda
11/4/2020 11:57:44 AM

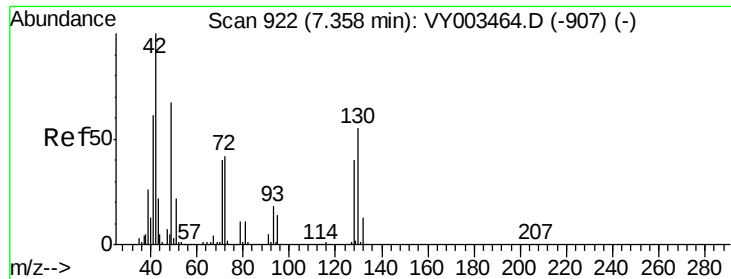


#28

Bromochloromethane
Concen: 2.921 ug/l
RT: 7.35 min Scan# 920
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	69.8	60.0	90.0





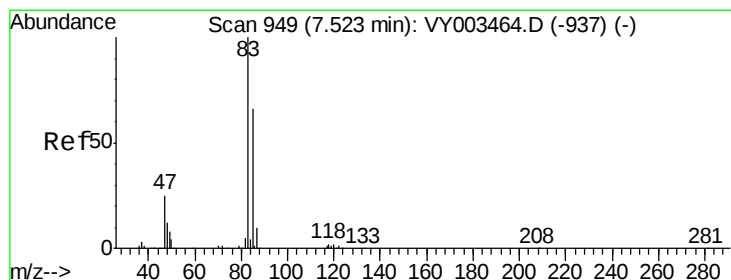
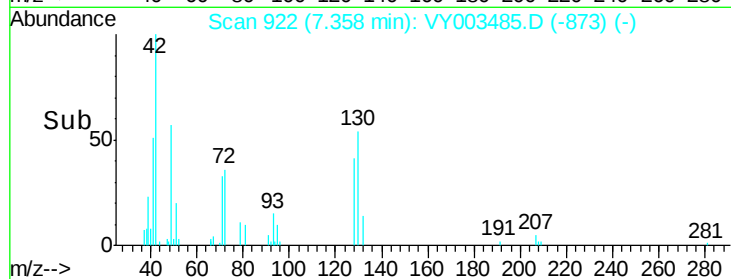
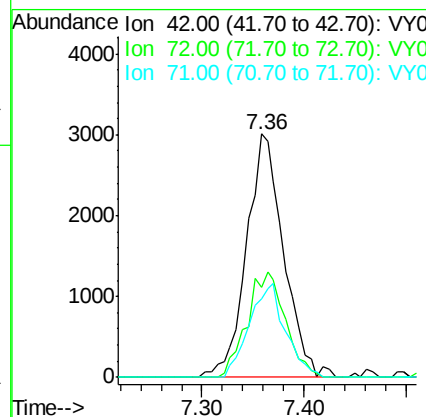
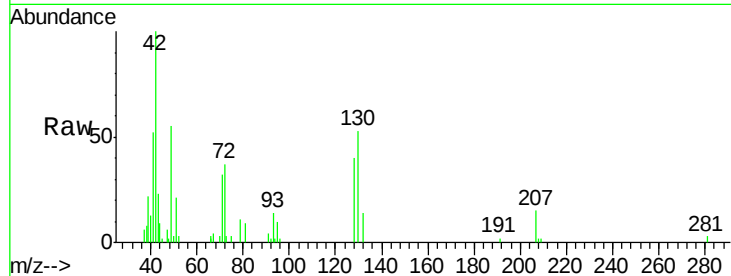
#29
Tetrahydrofuran
Concen: 13.294 ug/l
RT: 7.36 min Scan# 922
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	32.8	49.2
71	37.4	30.7	46.1

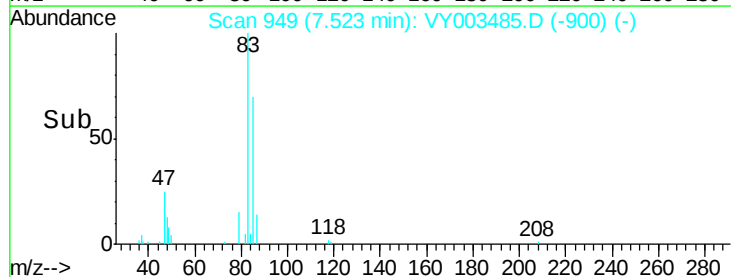
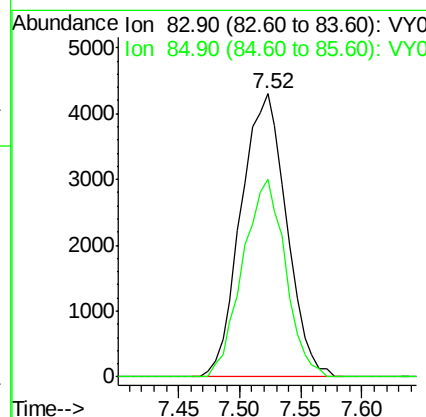
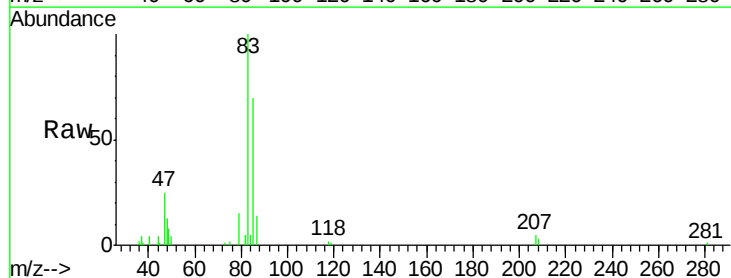
Manual Integrations
APPROVED

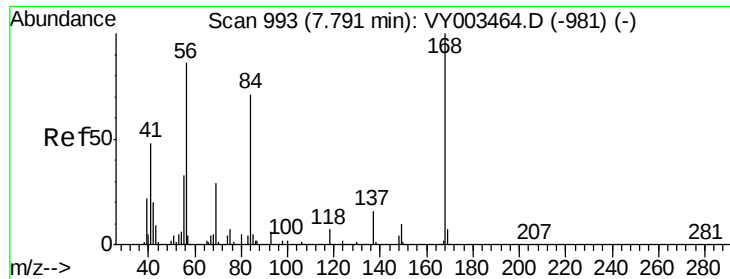
MMDadoda
11/4/2020 11:57:44 AM



#30
Chloroform
Concen: 2.638 ug/l
RT: 7.52 min Scan# 949
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.9	52.6	79.0





#31

Cyclohexane

Concen: 3.751 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

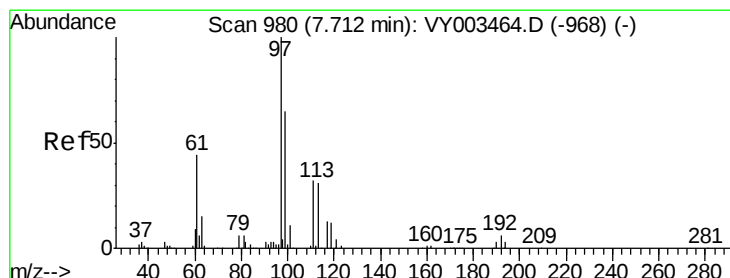
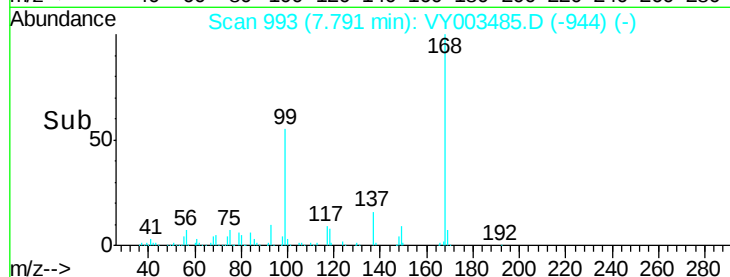
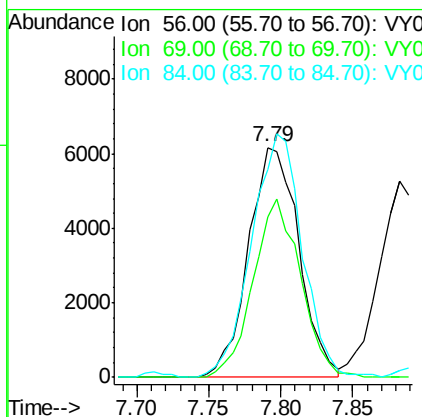
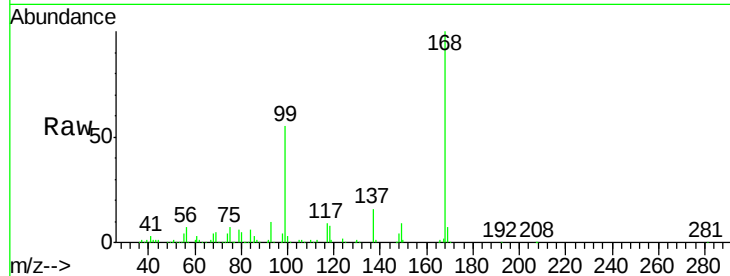
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	56	Resp:	14937
Ion Ratio	Lower	Upper	
56	100		
69	69.9	26.6	39.8#
84	90.4	65.9	98.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 2.622 ug/l

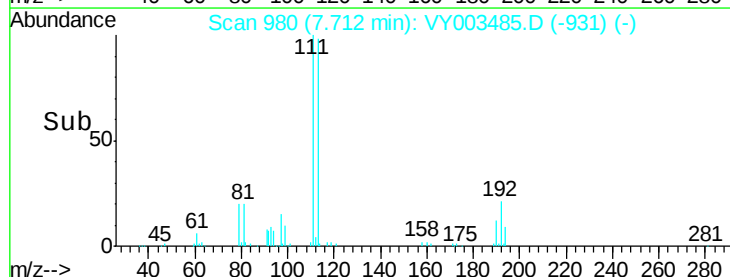
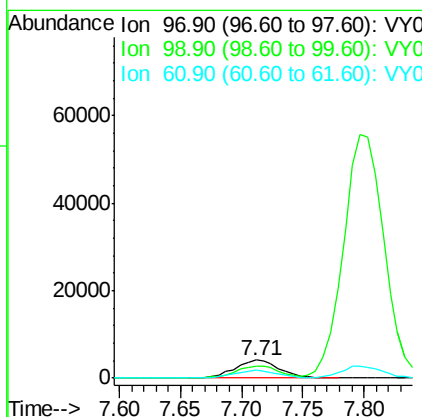
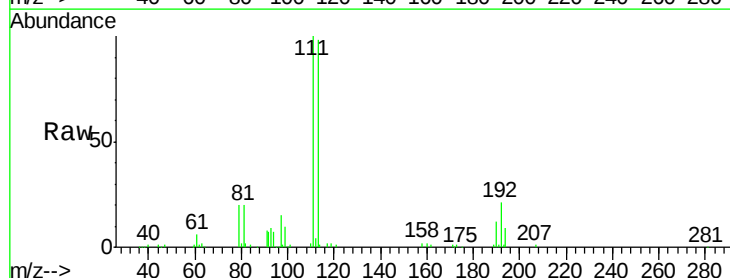
RT: 7.71 min Scan# 980

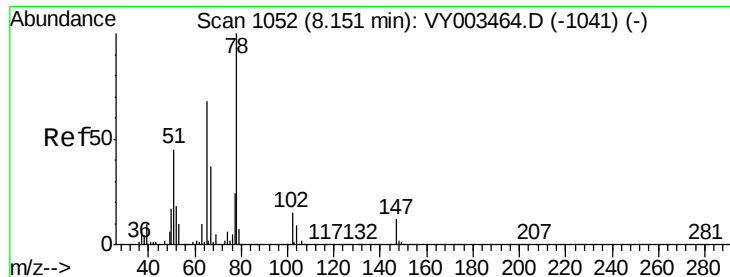
Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	97	Resp:	10333
Ion Ratio	Lower	Upper	
97	100		
99	65.9	51.6	77.4
61	42.4	35.1	52.7





#33

1,2-Dichloroethane-d4

Concen: 51.447 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 65 Resp: 136675

Ion Ratio Lower Upper

65 100

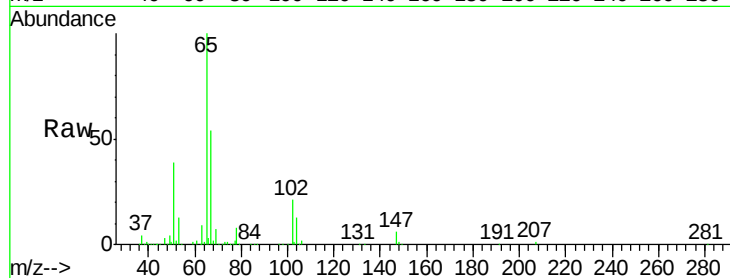
67 52.7 0.0 106.0

Manual Integrations

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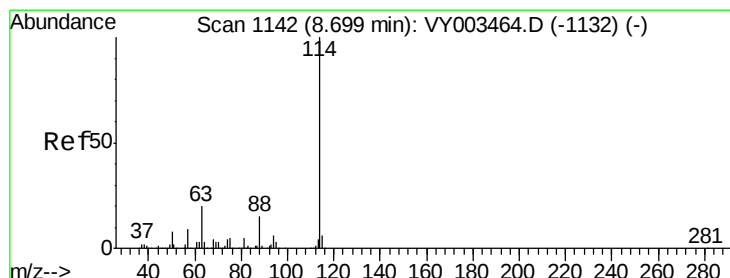
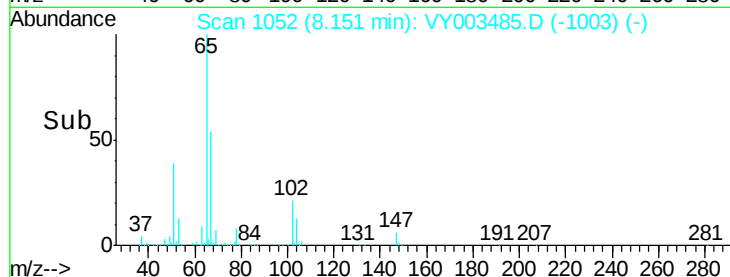
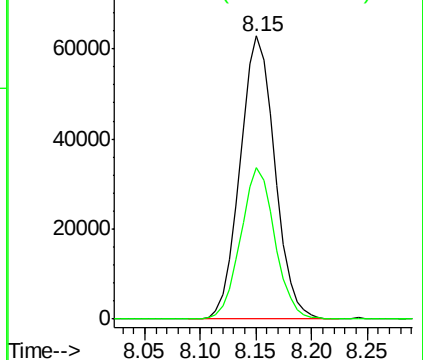
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Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

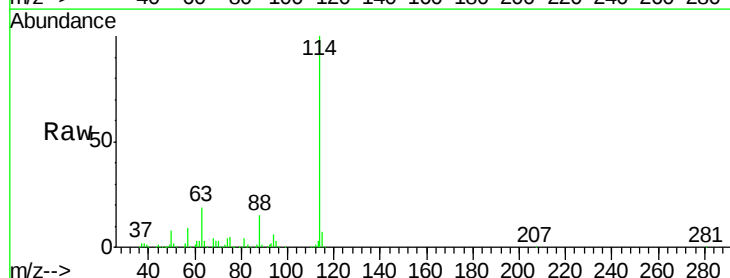
Tgt Ion: 114 Resp: 377078

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.6

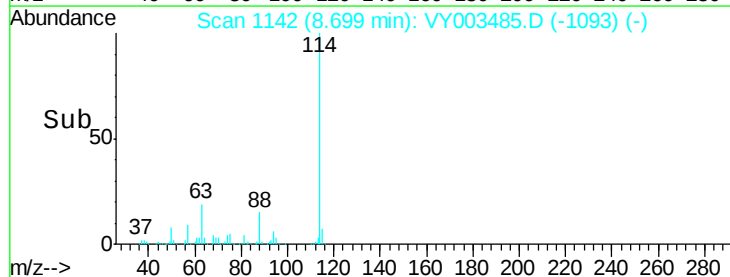
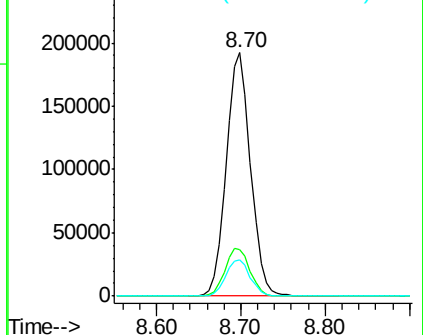
88 15.1 0.0 29.4

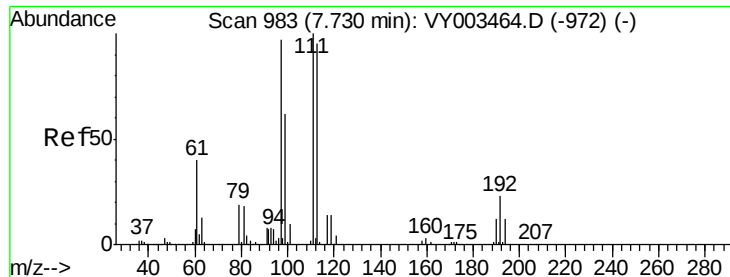


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0





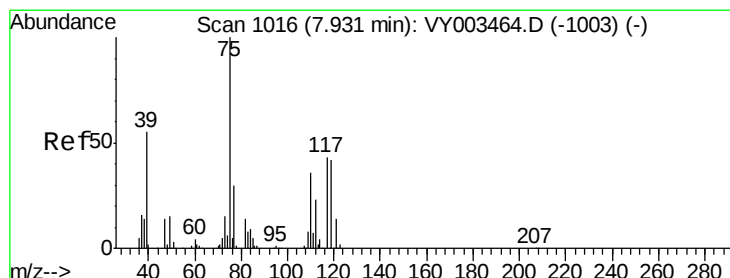
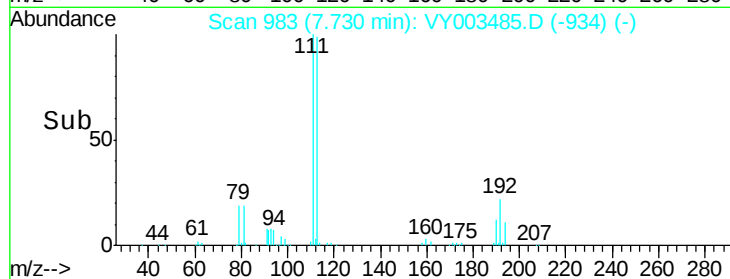
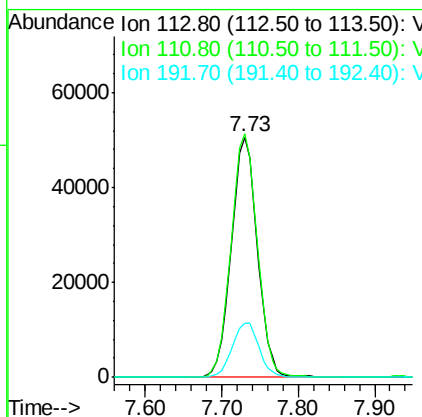
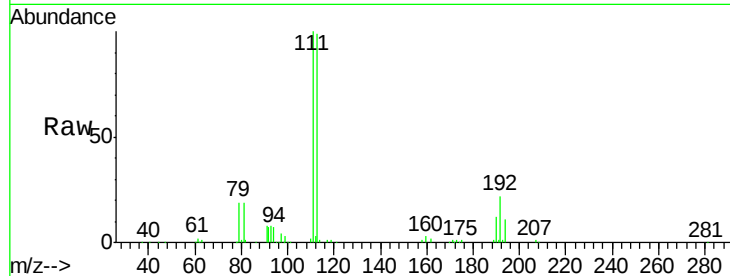
#35
Dibromofluoromethane
Concen: 51.918 ug/l
RT: 7.73 min Scan# 983
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	119131		
111	102.3	81.8	122.6	
192	23.3	18.8	28.2	

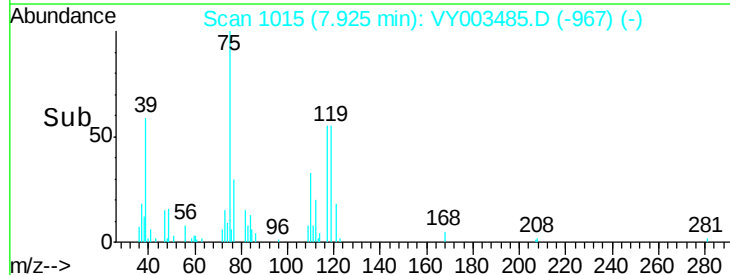
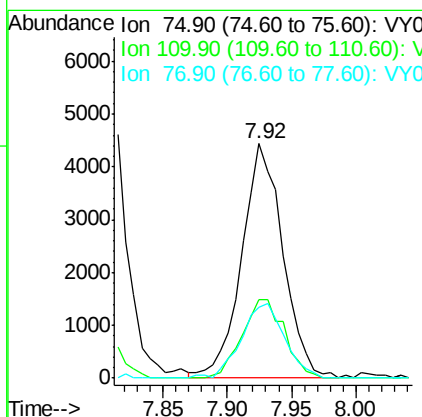
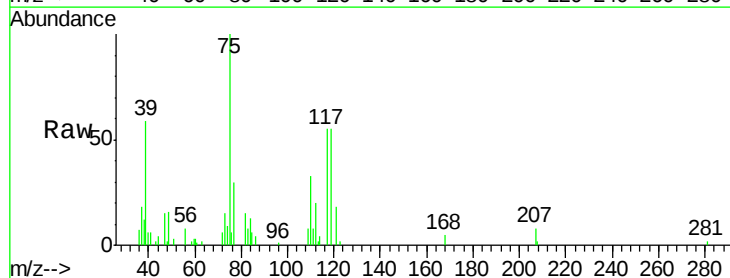
Manual Integrations
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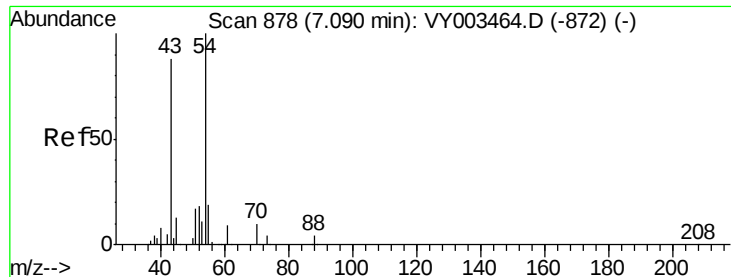
MMDadoda
11/4/2020 11:57:44 AM



#36
1,1-Dichloropropene
Concen: 2.762 ug/l
RT: 7.92 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9820		
110	34.5	17.6	52.9	
77	33.6	24.7	37.1	





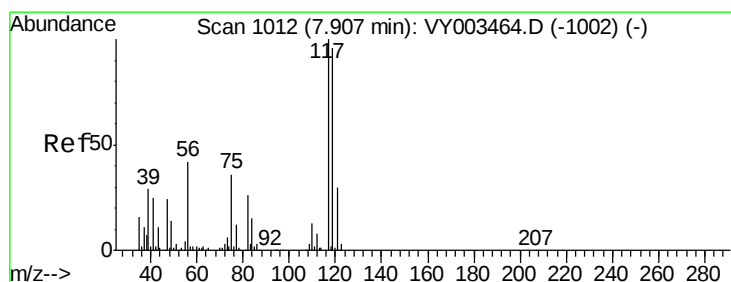
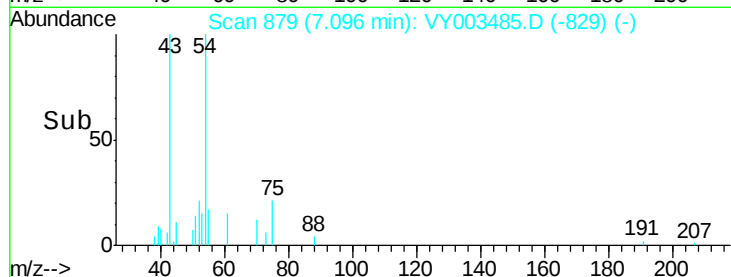
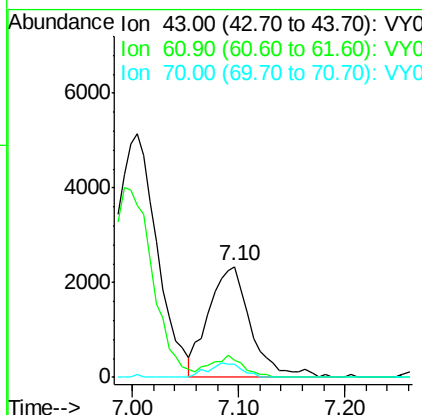
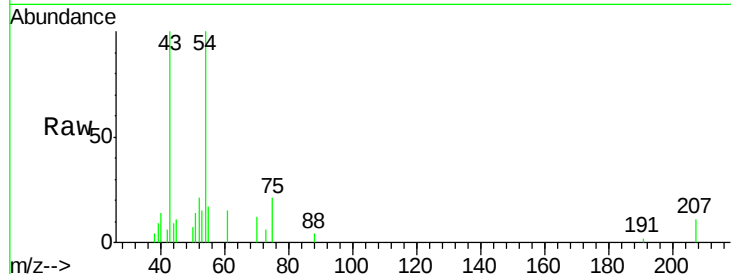
#37
Ethyl Acetate
Concen: 2.911 ug/l
RT: 7.10 min Scan# 879
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.0	16.6
70	10.1	7.9	11.9

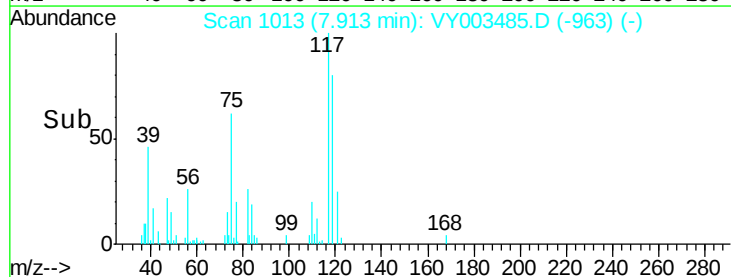
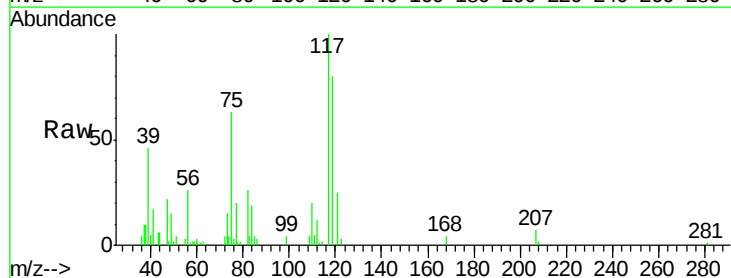
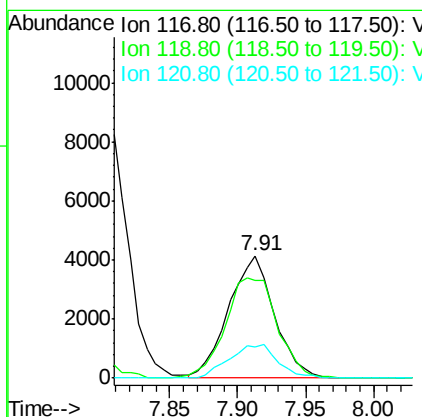
Manual Integrations
APPROVED

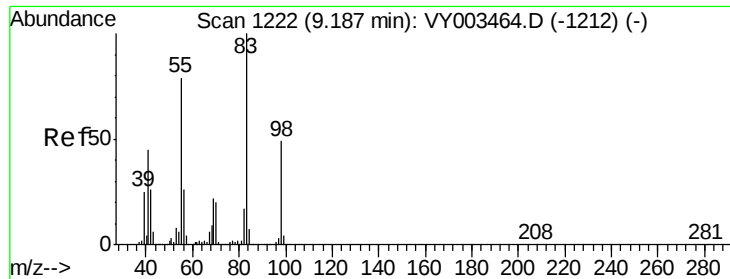
MMDadoda
11/4/2020 11:57:44 AM



#38
Carbon Tetrachloride
Concen: 2.638 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	79.7	76.2	114.4
121	25.4	24.2	36.4





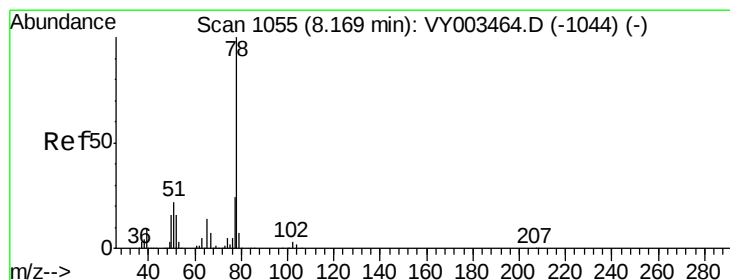
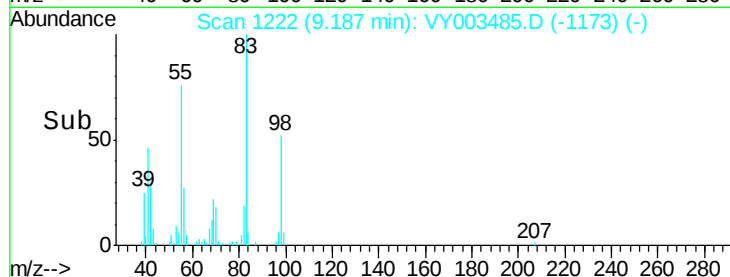
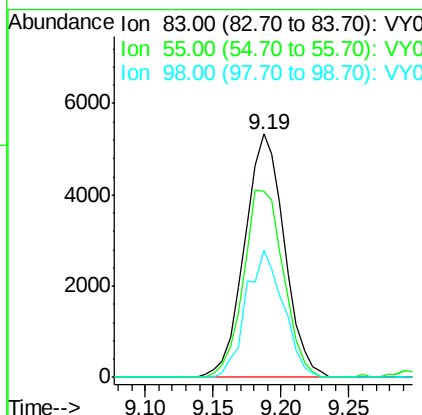
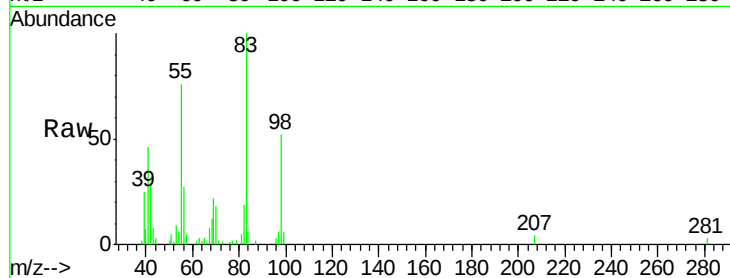
#39
Methvlcvclohexane
Concen: 2.761 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.3	63.5	95.3
98	52.3	39.4	59.2

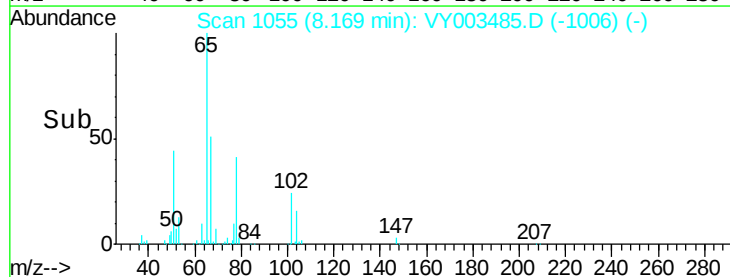
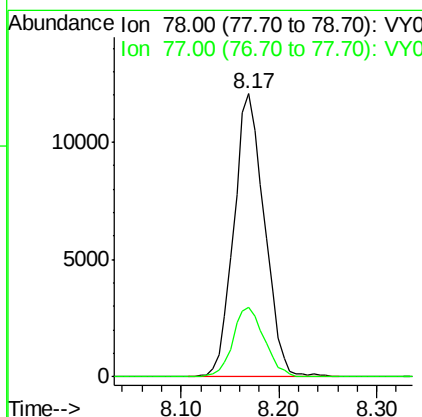
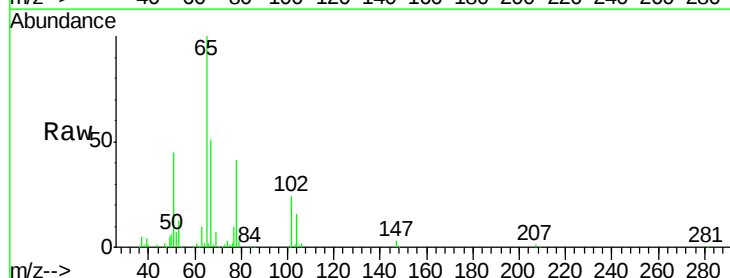
Manual Integrations
APPROVED

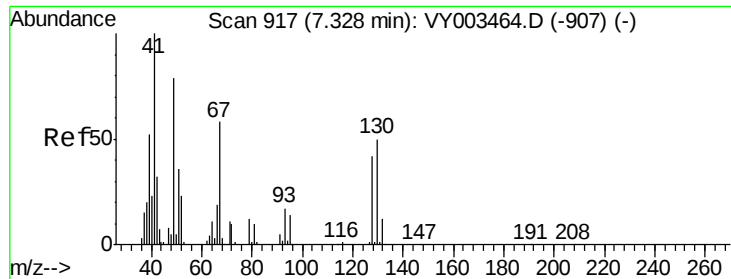
MMDadoda
11/4/2020 11:57:44 AM



#40
Benzene
Concen: 2.651 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.4	29.0





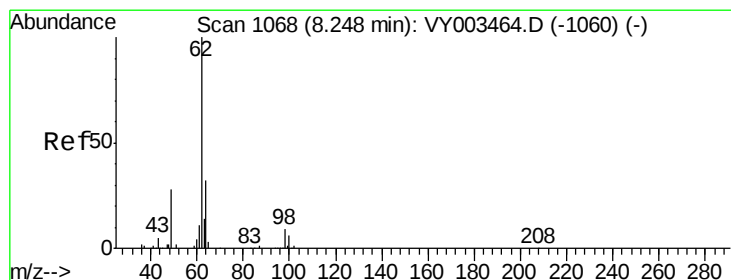
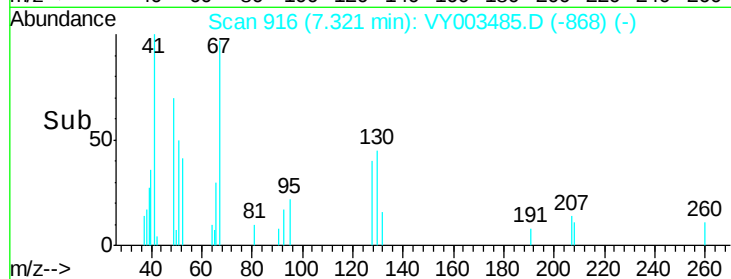
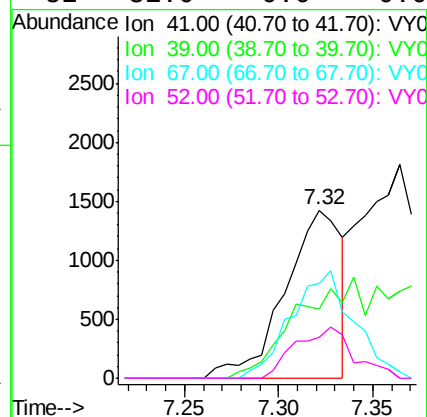
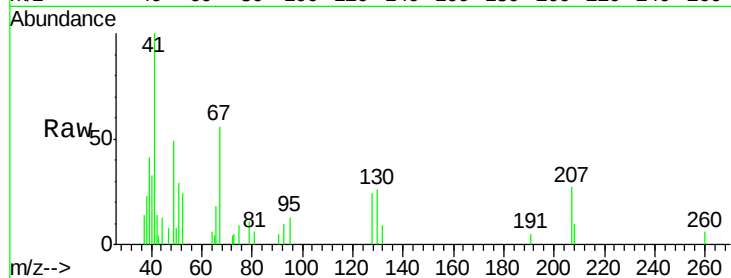
#41
Methacrylonitrile
Concen: 2.529 ug/l
RT: 7.32 min Scan# 916
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.4	0.0	0.0#
67	70.1	0.0	0.0#
52	31.0	0.0	0.0#

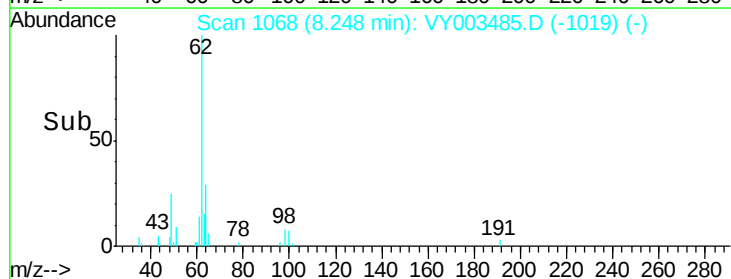
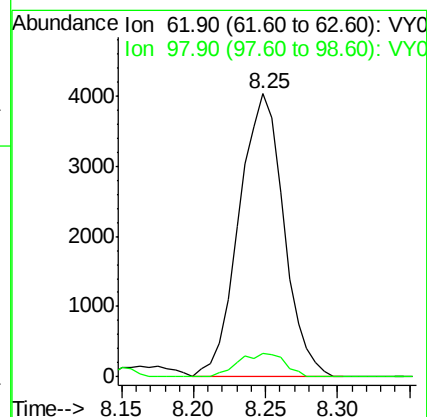
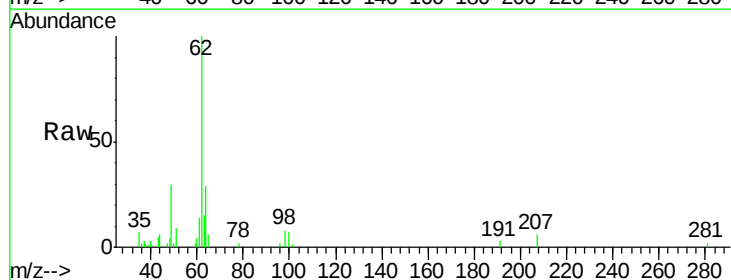
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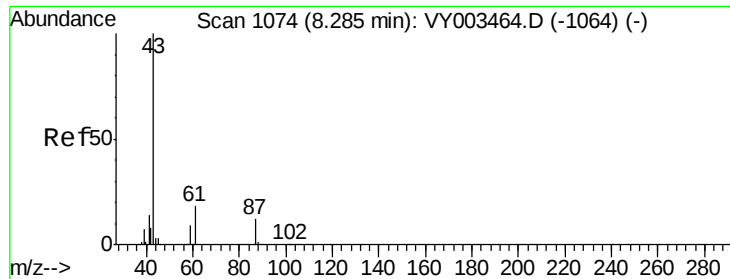
MMDadoda
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#42
1,2-Dichloroethane
Concen: 2.812 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.2





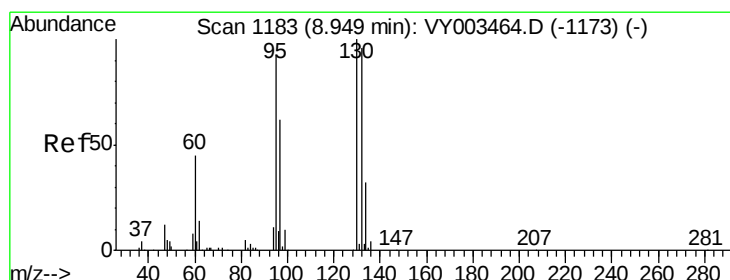
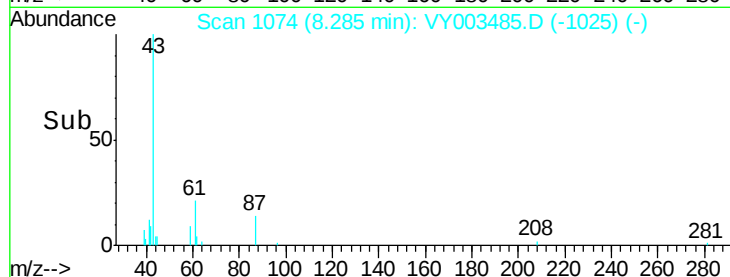
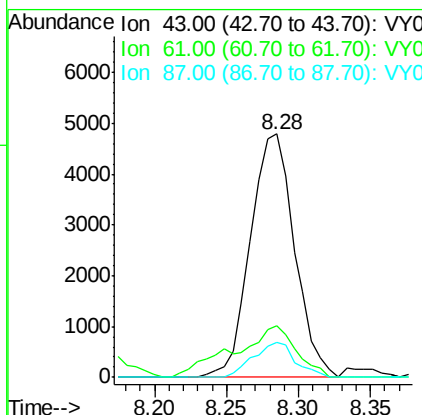
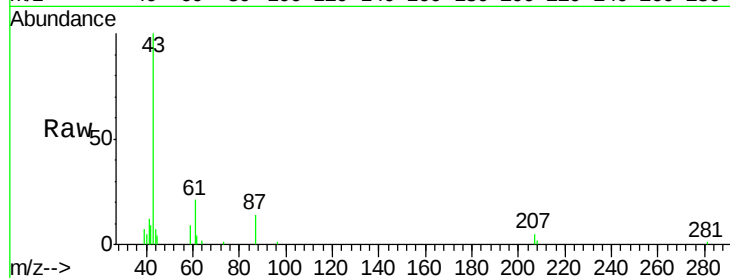
#43
Isopropyl Acetate
Concen: 2.562 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.0	21.9	32.9
87	13.6	10.0	15.0

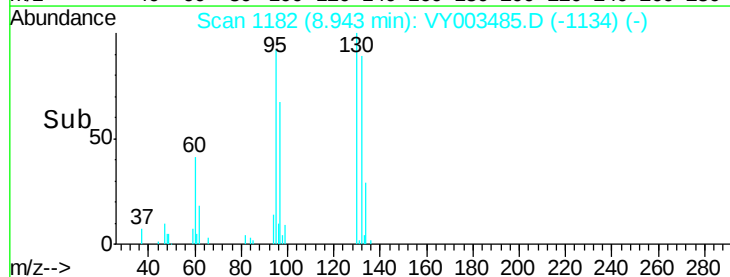
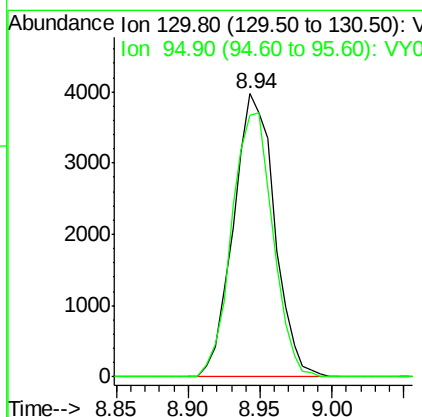
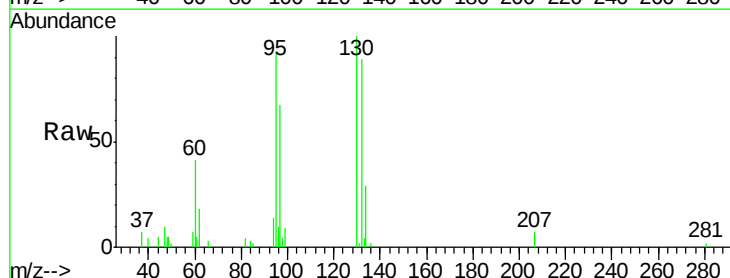
Manual Integrations
APPROVED

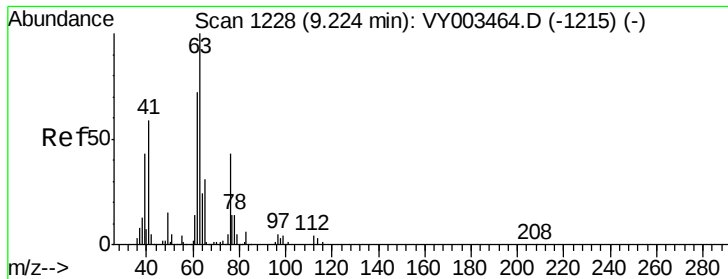
MMDadoda
11/4/2020 11:57:44 AM



#44
Trichloroethene
Concen: 2.839 ug/l
RT: 8.94 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.3	0.0	186.6





#45

1,2-Dichloropropane

Concen: 2.592 ug/l

RT: 9.22 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 63 Resp: 6477

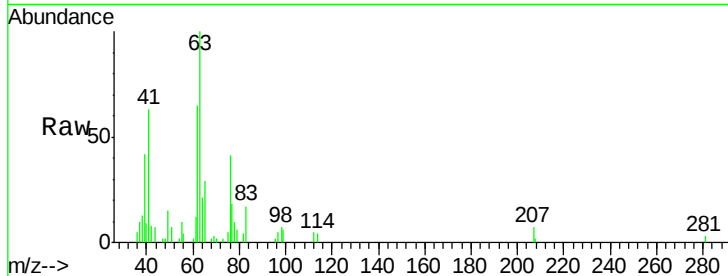
Ion Ratio Lower Upper

63 100

65 28.9 24.6 36.8

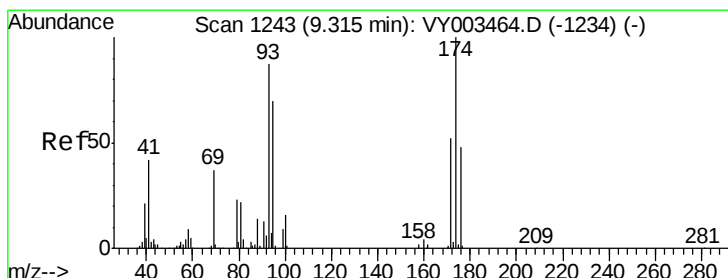
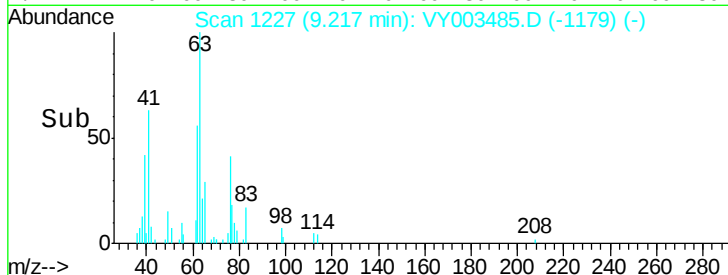
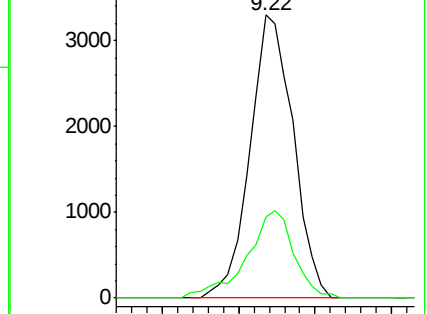
Manual Integrations
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Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0



#46

Dibromomethane

Concen: 2.652 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

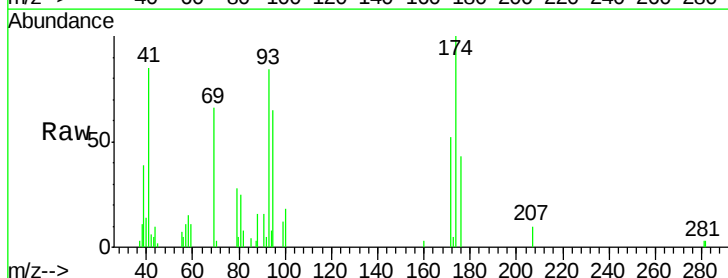
Tgt Ion: 93 Resp: 3646

Ion Ratio Lower Upper

93 100

95 81.1 65.0 97.6

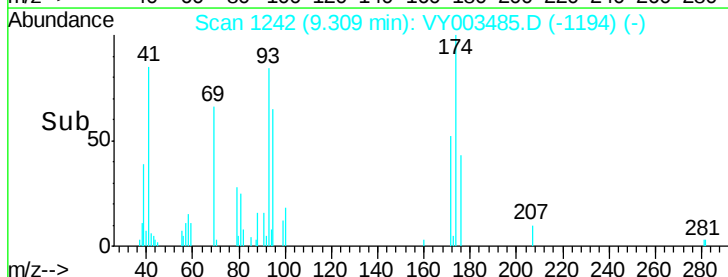
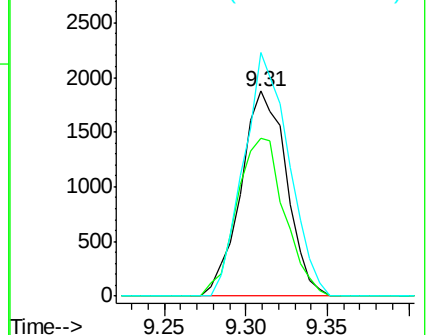
174 117.5 91.8 137.6

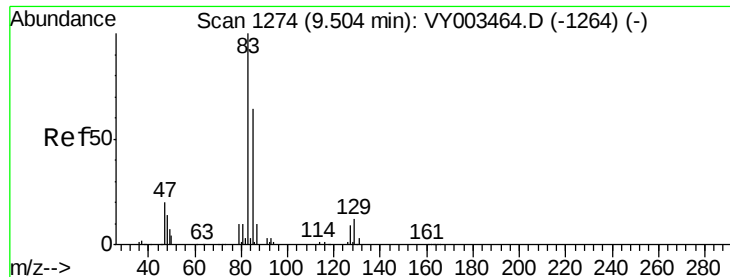


Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.514 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

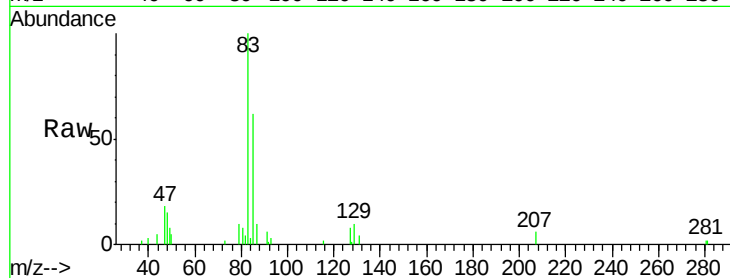
ClientSampleId :

MDL-SOIL-03-QT4-2020

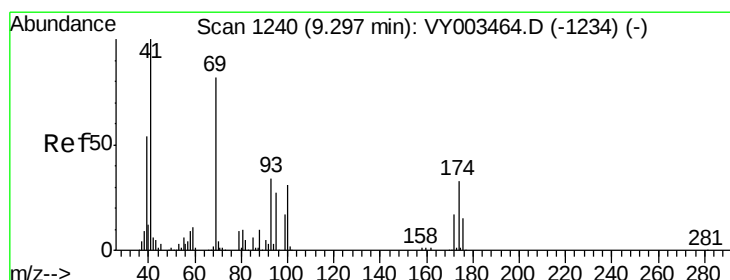
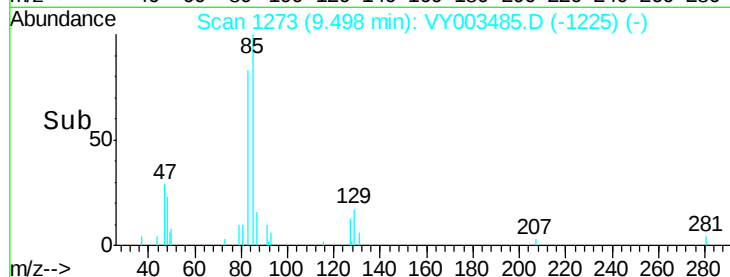
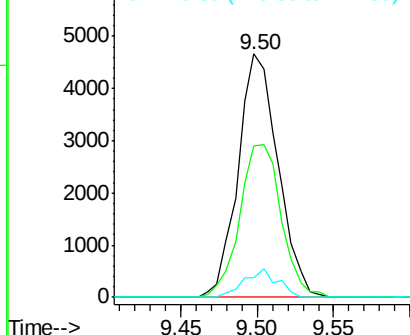
Tot Ion:	83	Resp:	8458
Ion Ratio	Lower	Upper	
83	100		
85	62.1	51.0	76.6
127	8.0	7.1	10.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.376 ug/l

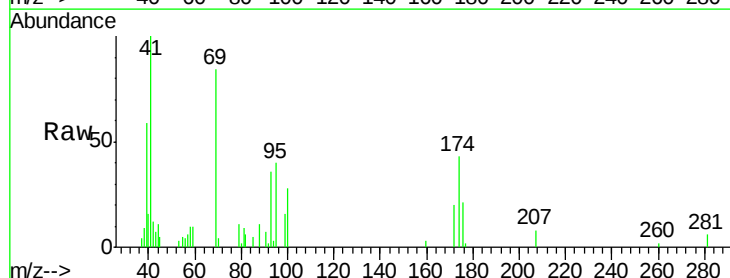
RT: 9.30 min Scan# 1240

Delta R.T. -0.00 min

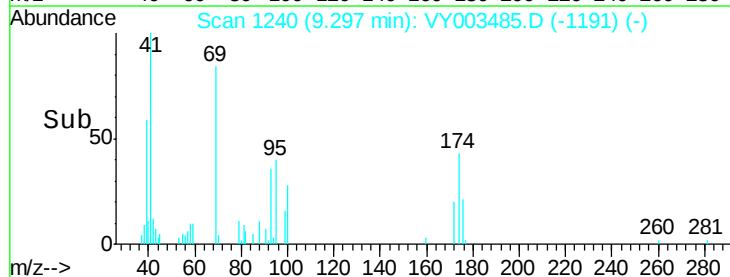
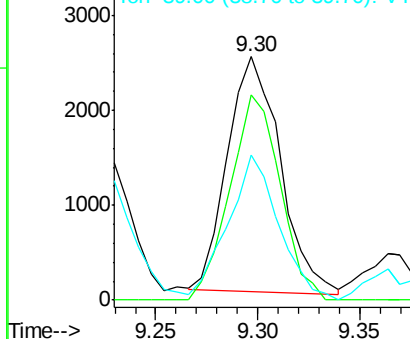
Lab File: VY003485.D

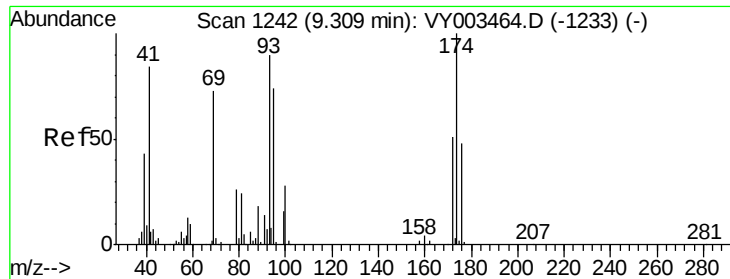
Acq: 03 Nov 2020 12:32

Tgt Ion:	41	Resp:	4441
Ion Ratio	Lower	Upper	
41	100		
69	83.4	65.9	98.9
39	59.5	43.2	64.8



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0





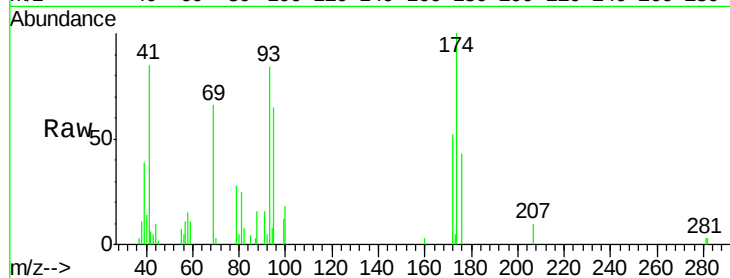
#49
1,4-Dioxane
Concen: 51.598 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	45.8	27.6	41.4#
58	72.2	54.2	81.2

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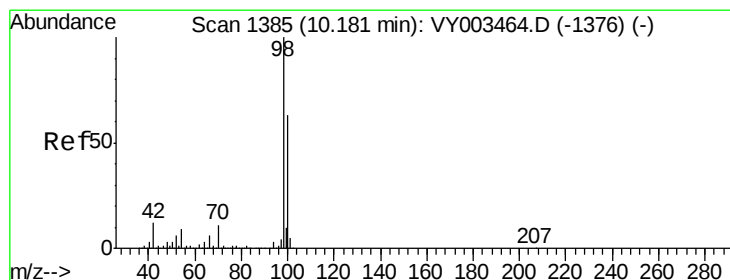
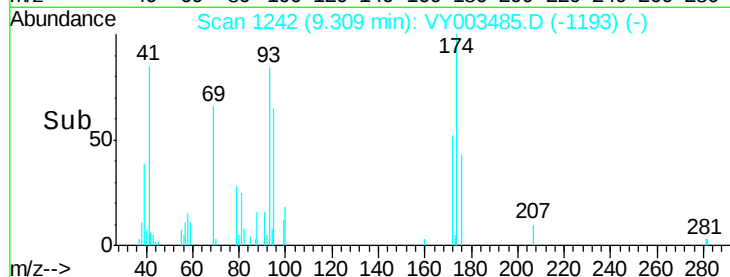
Abundance

Ion 88.00 (87.70 to 88.70): VY003485.D (-1193) (-)

Ion 43.00 (42.70 to 43.70): VY003485.D (-1193) (-)

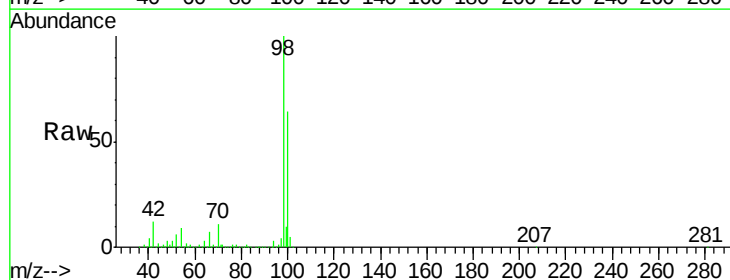
Ion 58.00 (57.70 to 58.70): VY003485.D (-1193) (-)

Time-->



#50
Toluene-d8
Concen: 50.182 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	50.9	76.3

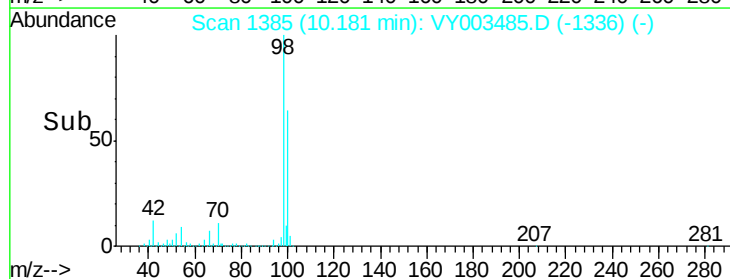


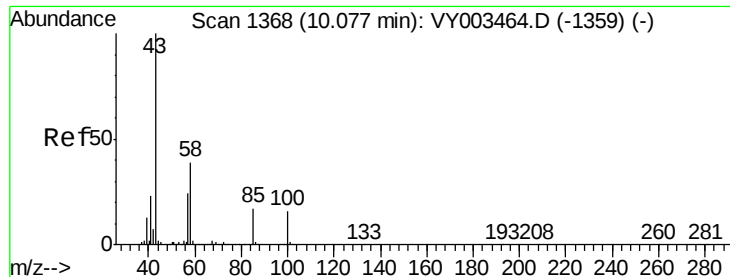
Abundance

Ion 98.00 (97.70 to 98.70): VY003485.D (-1336) (-)

Ion 100.00 (99.70 to 100.70): VY003485.D (-1336) (-)

Time-->





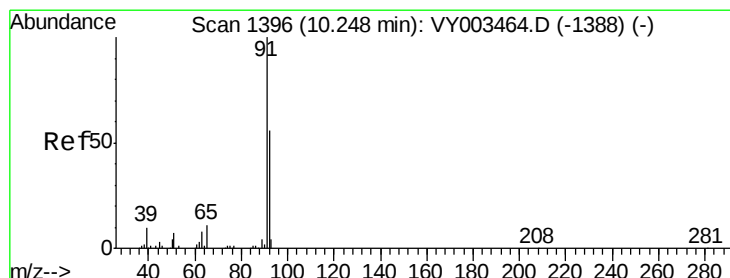
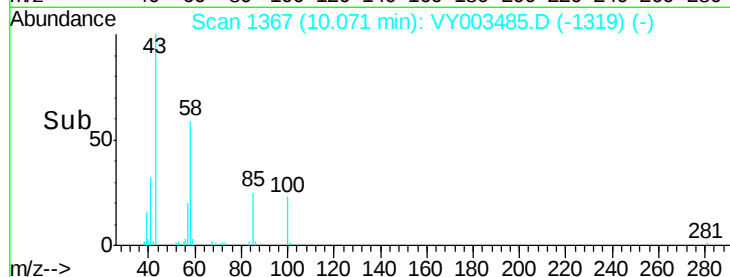
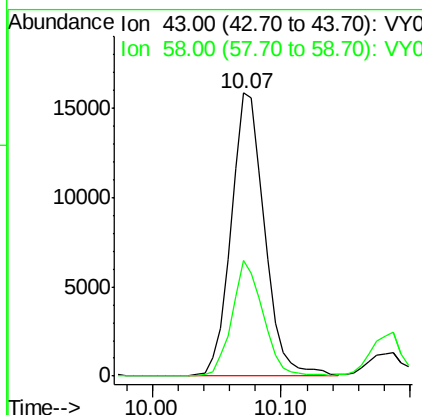
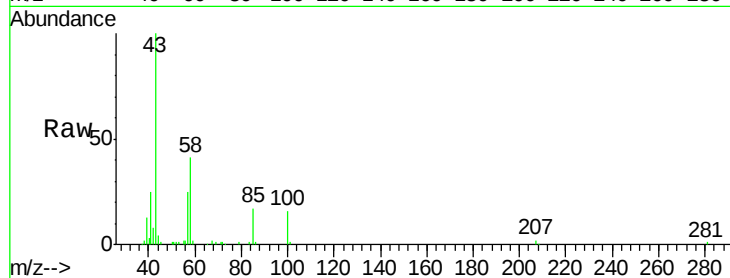
#51
4-Methyl-2-Pentanone
Concen: 13.576 ug/l
RT: 10.07 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	43	Resp	28699
Ion Ratio	43	100	
Lower	58	38.1	31.0
Upper			46.4

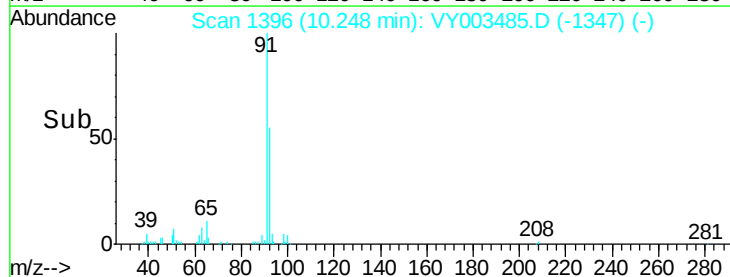
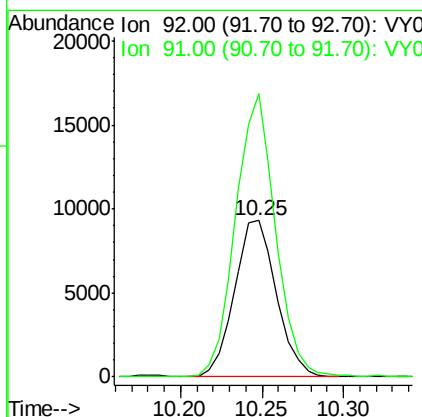
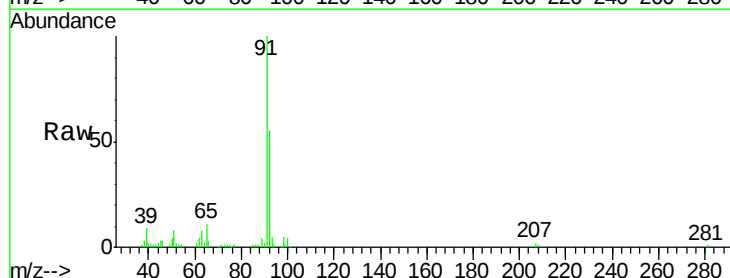
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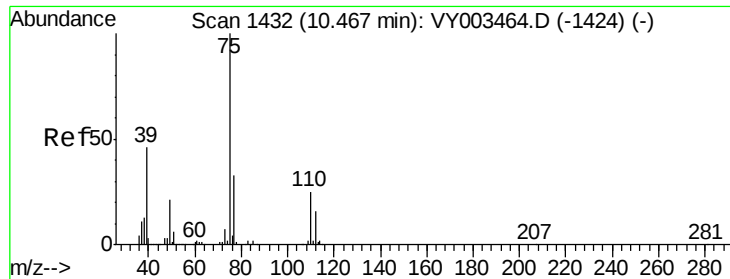
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#52
Toluene
Concen: 2.674 ug/l
RT: 10.25 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	92	Resp	16550
Ion Ratio	92	100	
Lower	91	173.5	140.2
Upper			210.4





#53

t-1,3-Dichloropropene

Concen: 2.618 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 9375

Ion Ratio Lower Upper

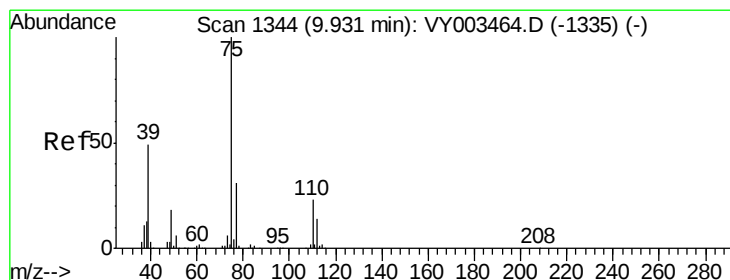
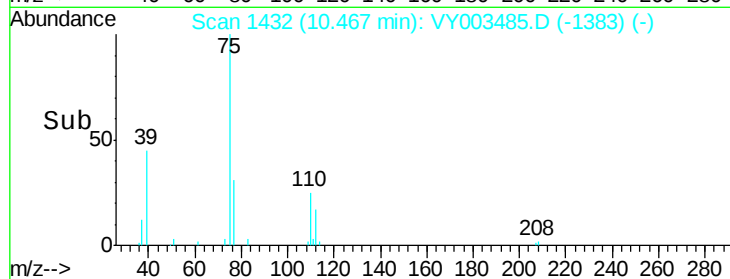
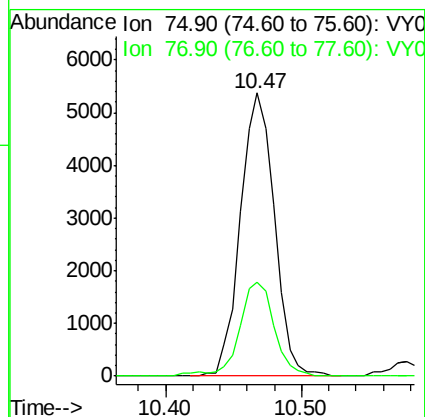
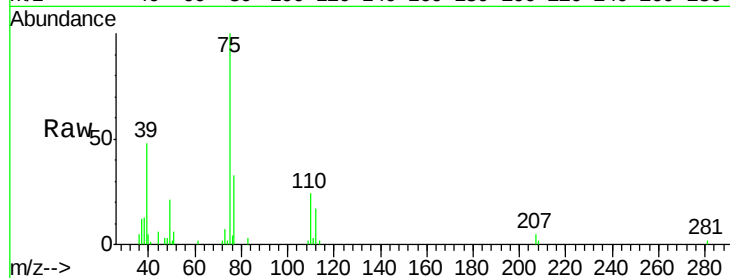
75 100

77 33.3 26.2 39.4

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#54

cis-1,3-Dichloropropene

Concen: 2.513 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

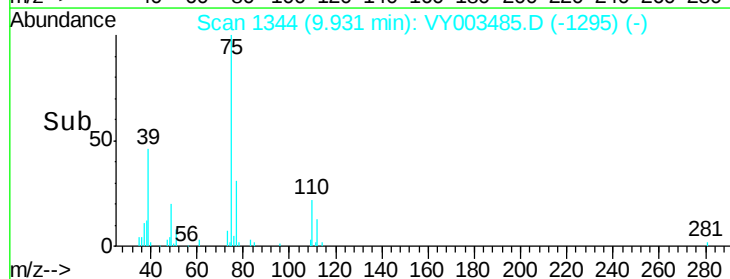
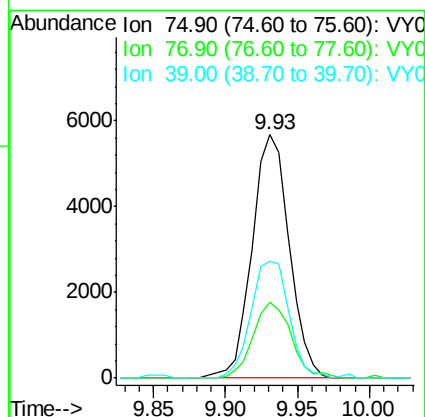
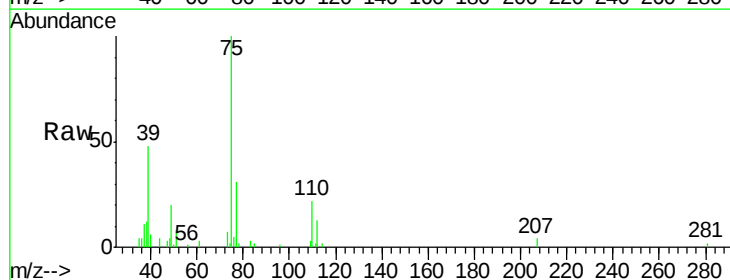
Tgt Ion: 75 Resp: 10126

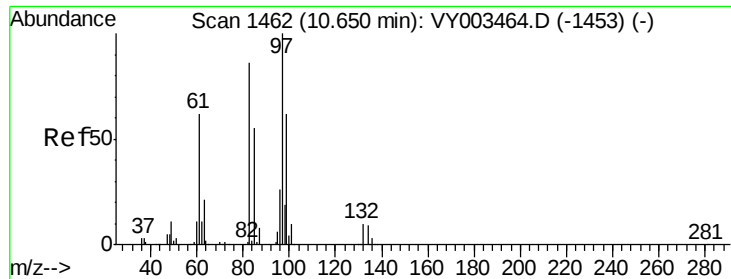
Ion Ratio Lower Upper

75 100

77 31.4 24.5 36.7

39 48.2 39.0 58.4





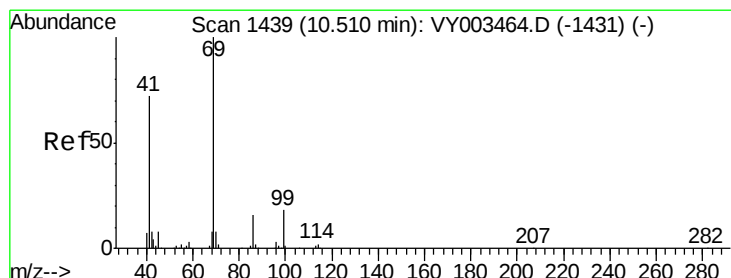
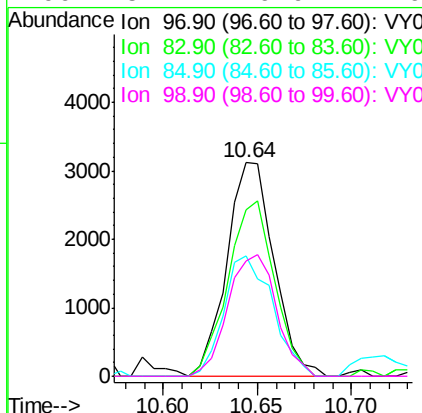
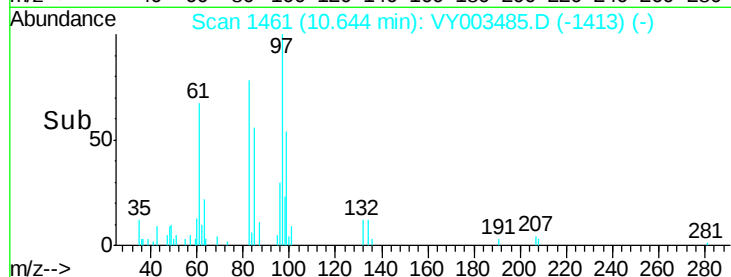
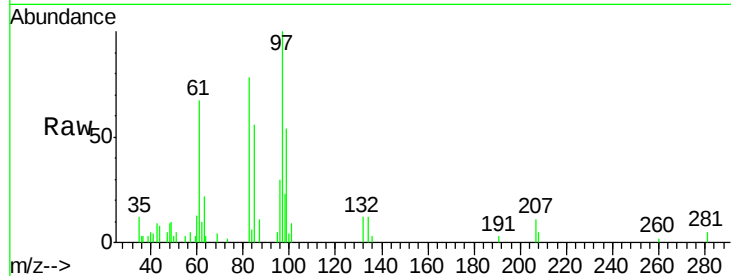
#55
 1,1,2-Trichloroethane
 Concen: 2.775 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	97	Resp:	5414
Ion	Ratio	Lower	Upper
97	100		
83	77.7	68.6	102.8
85	56.3	43.8	65.6
99	54.2	49.9	74.9

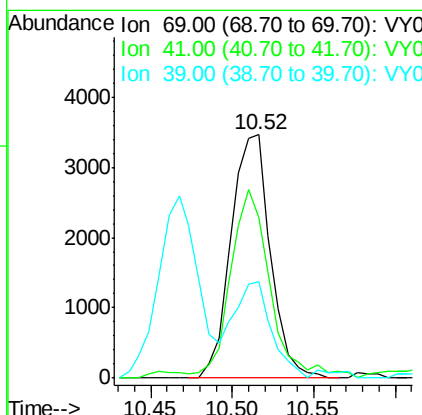
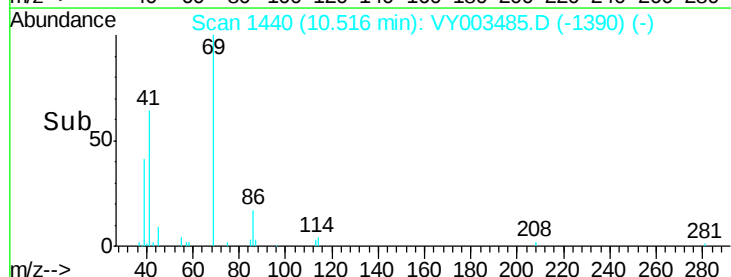
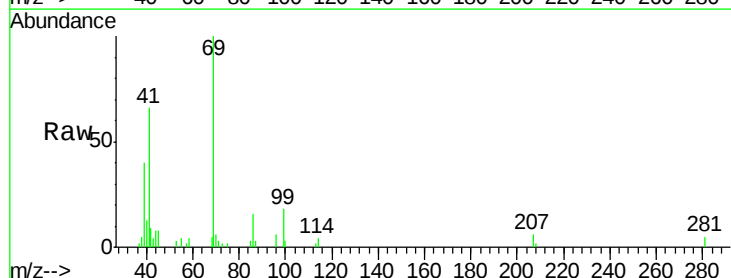
Manual Integrations
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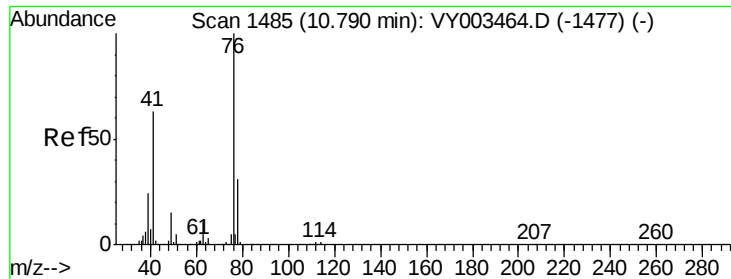
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#56
 Ethyl methacrylate
 Concen: 2.229 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion:	69	Resp:	5825
Ion	Ratio	Lower	Upper
69	100		
41	77.9	55.4	83.2
39	38.3	28.7	43.1





#57

1,3-Dichloropropane

Concen: 2.653 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 9003

Ion Ratio Lower Upper

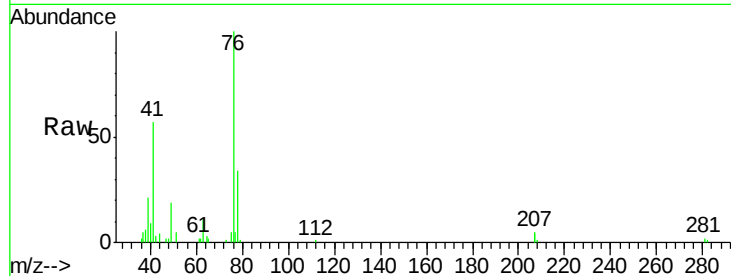
76 100

78 31.6 25.8 38.8

Manual Integrations
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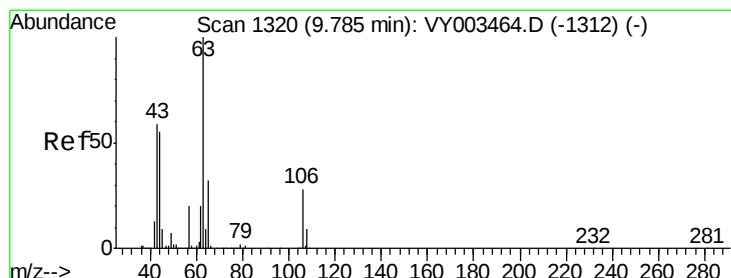
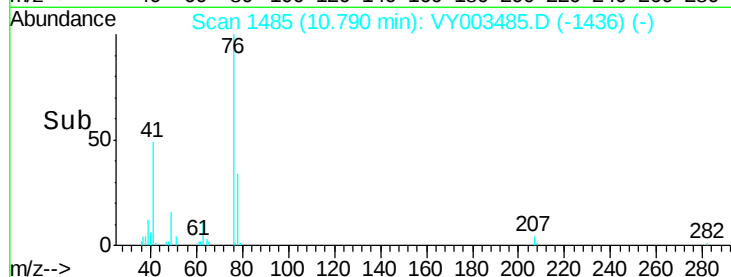
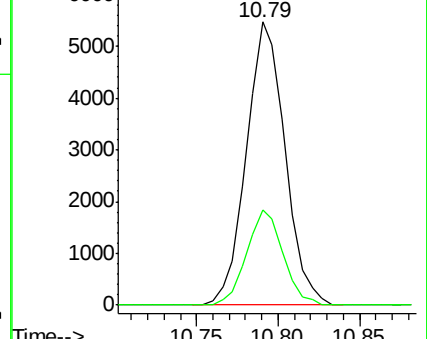
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Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 12.445 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VY003485.D

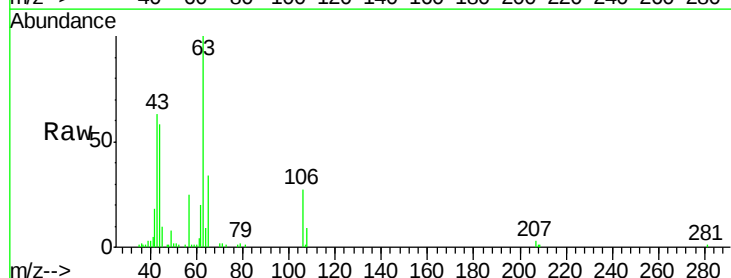
Acq: 03 Nov 2020 12:32

Tgt Ion: 63 Resp: 16489

Ion Ratio Lower Upper

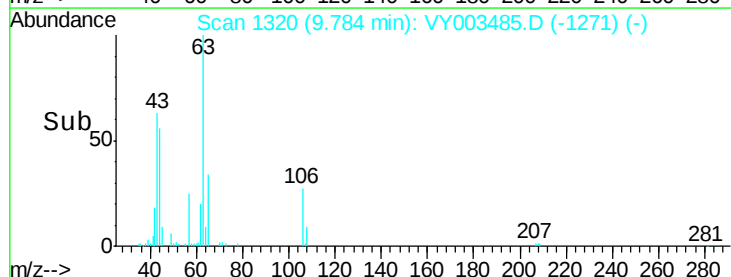
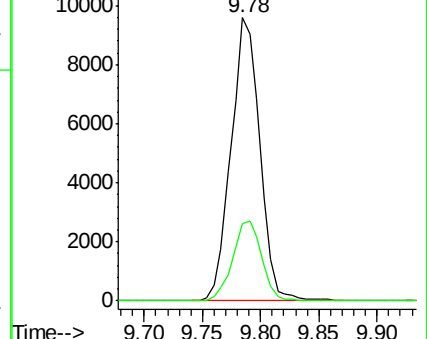
63 100

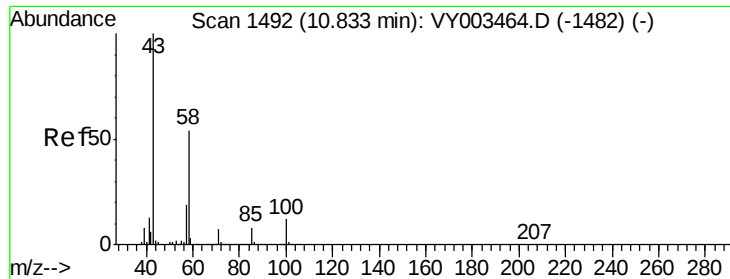
106 28.3 22.3 33.5



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V





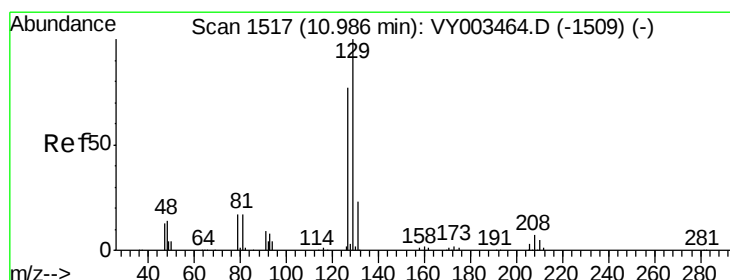
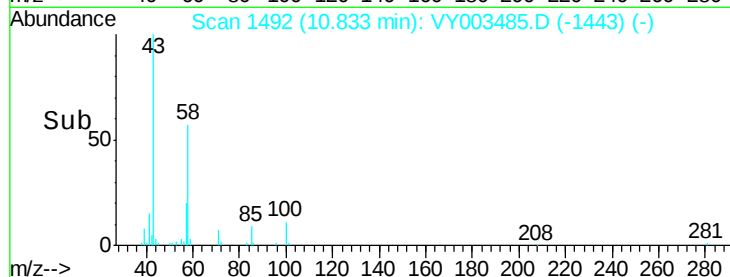
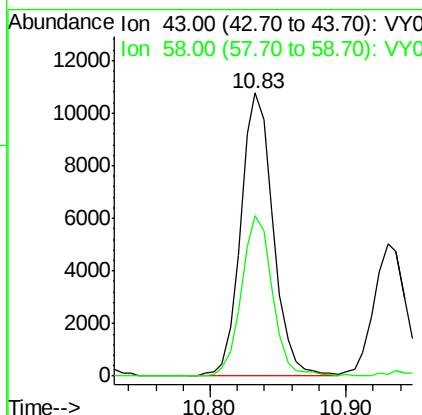
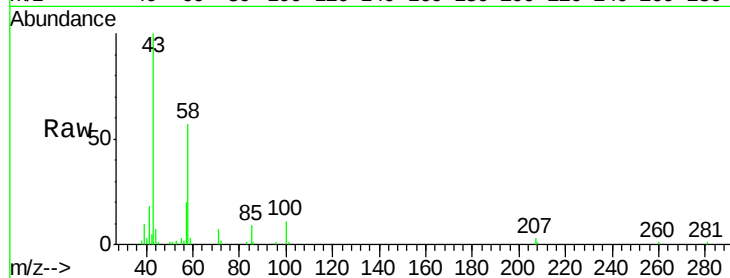
#59
2-Hexanone
Concen: 11.444 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 17911
Ion Ratio Lower Upper
43 100
58 54.1 26.8 80.3

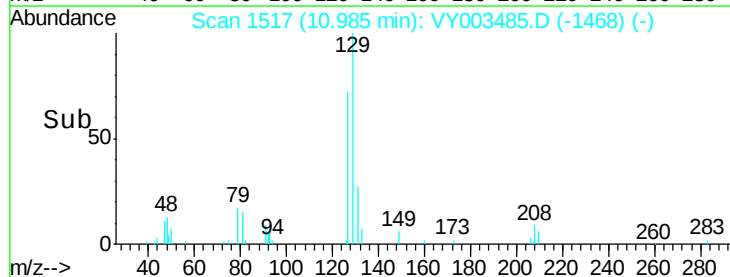
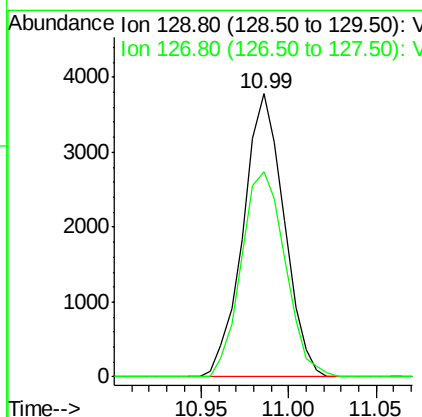
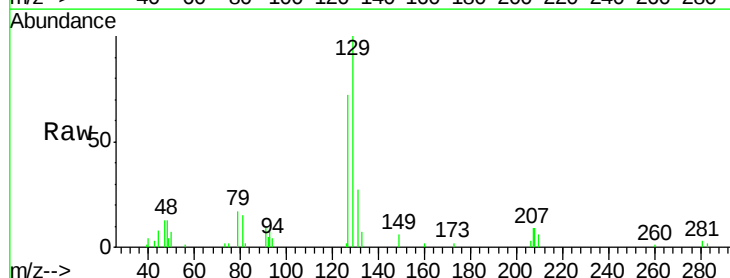
Manual Integrations
APPROVED

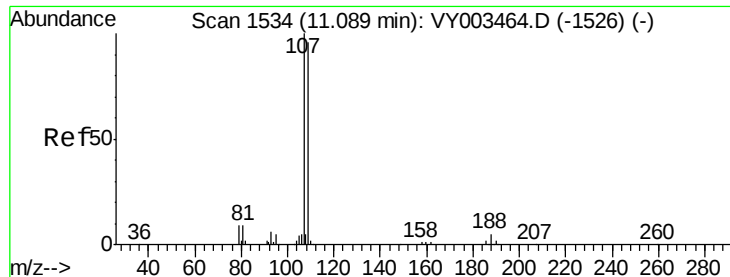
MMDadoda
11/4/2020 11:57:44 AM



#60
Dibromochloromethane
Concen: 2.569 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 129 Resp: 6161
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3





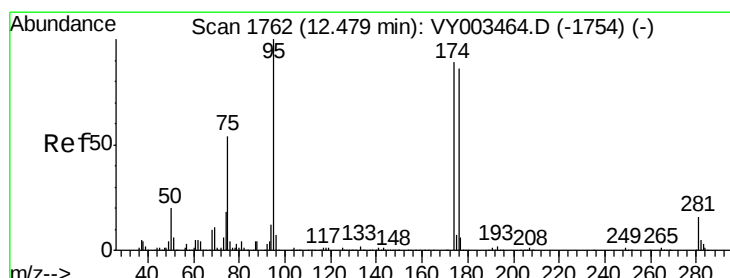
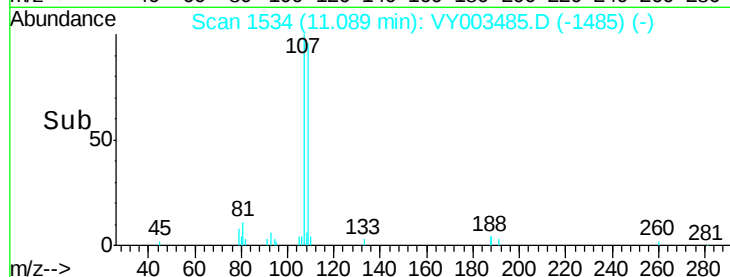
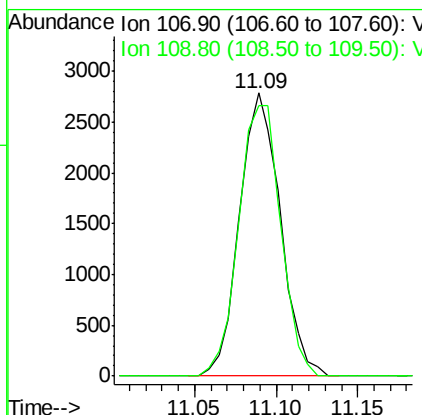
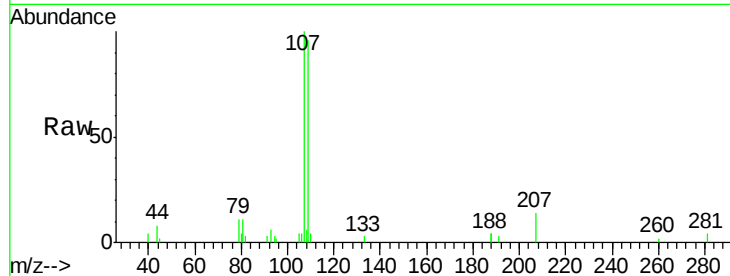
#61
 1,2-Dibromoethane
 Concen: 2.572 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
107	100		
109	99.1	76.5	114.7

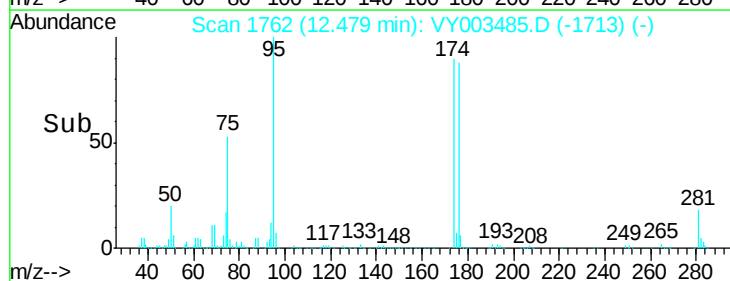
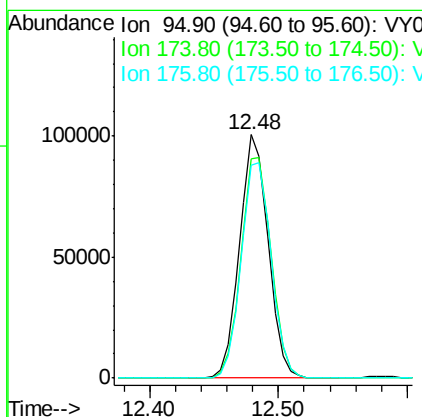
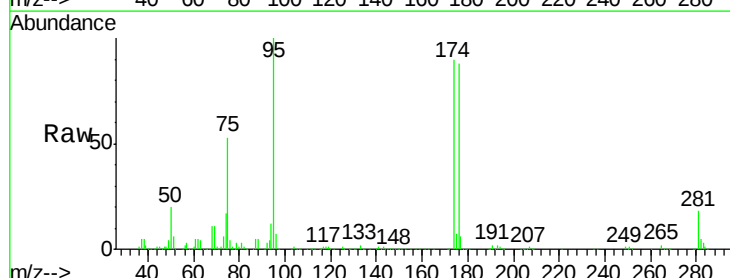
Manual Integrations
 APPROVED

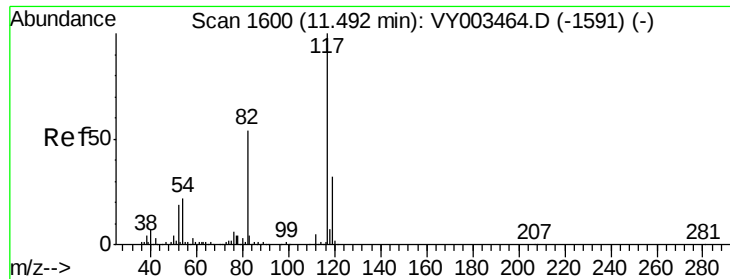
MMDadoda
 11/4/2020 11:57:44 AM



#62
 4-Bromofluorobenzene
 Concen: 48.765 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.1	0.0	193.0
176	92.6	0.0	187.4





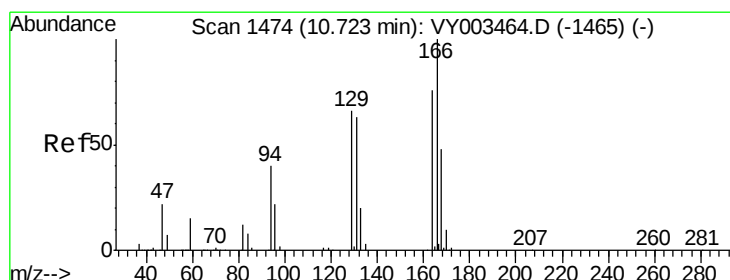
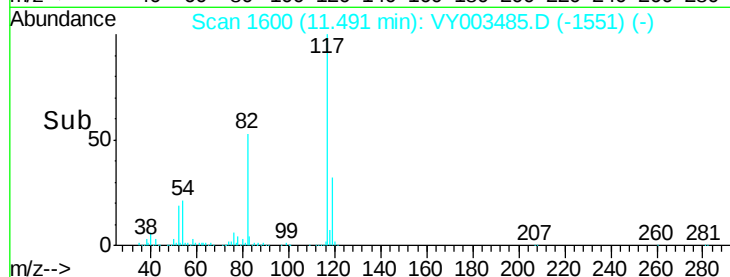
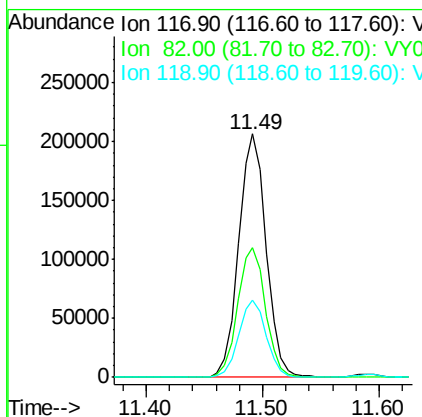
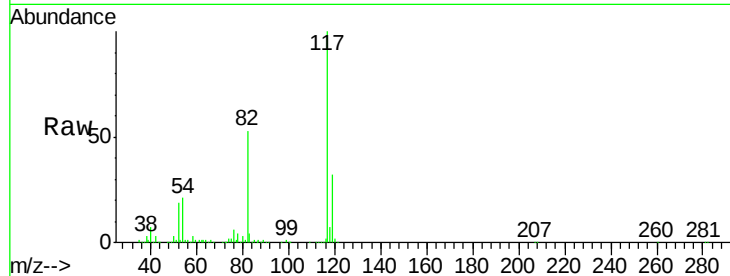
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	338369		
82	53.4		43.4	65.2
119	31.9		25.8	38.6

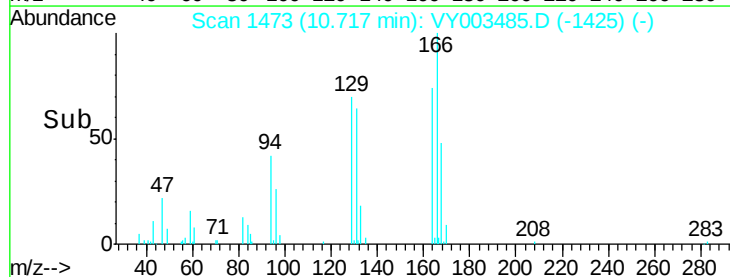
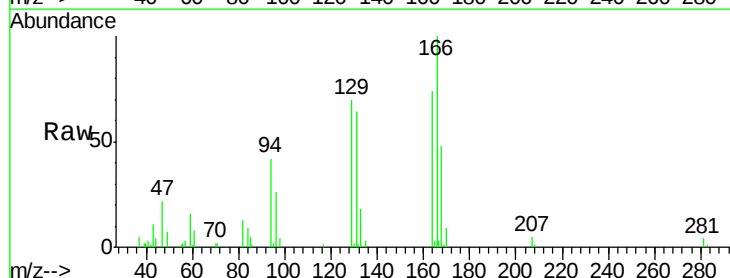
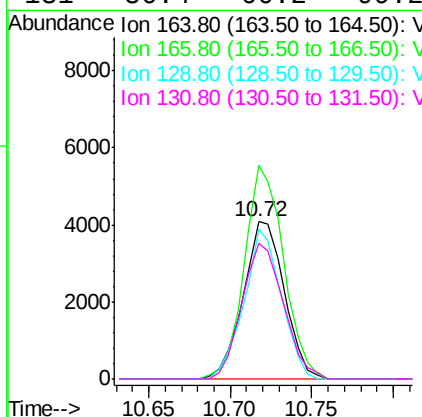
Manual Integrations
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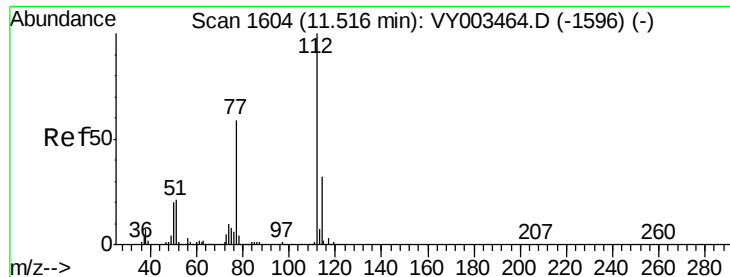
MMDadoda
11/4/2020 11:57:44 AM



#64
Tetrachloroethene
Concen: 2.833 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	7158		
166	136.0		104.9	157.3
129	95.2		68.9	103.3
131	86.4		66.2	99.2





#65

Chlorobenzene

Concen: 2.681 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:112 Resp: 17621

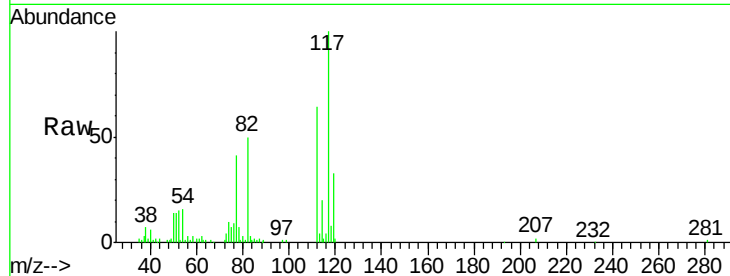
Ion Ratio Lower Upper

112 100

114 31.3 25.5 38.3

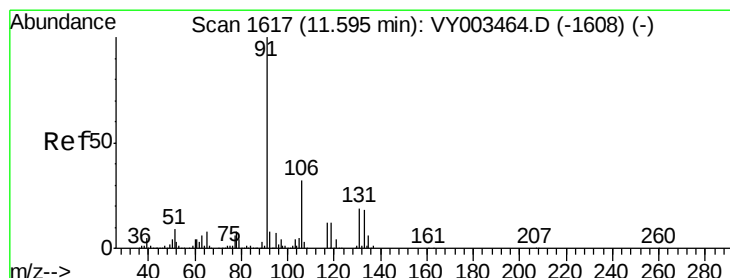
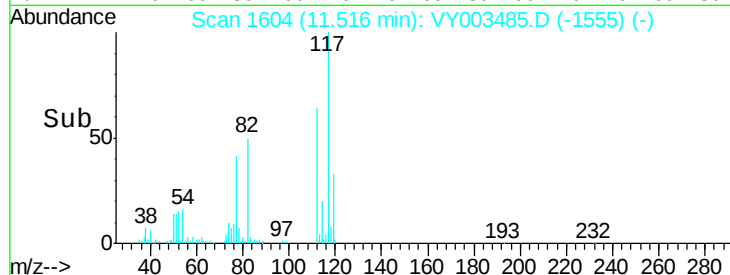
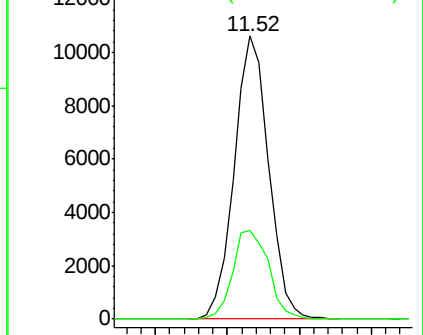
Manual Integrations
APPROVED

MMDadoda
11/4/2020 11:57:44 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.556 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

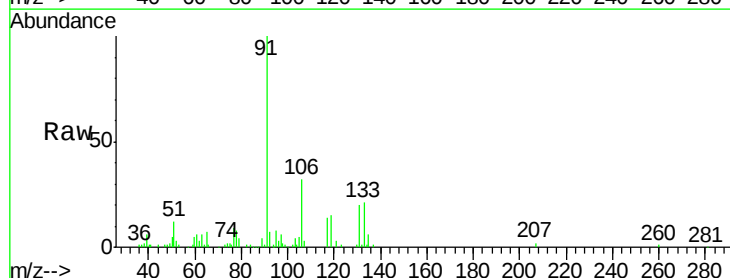
Tgt Ion:131 Resp: 6336

Ion Ratio Lower Upper

131 100

133 101.4 47.4 142.2

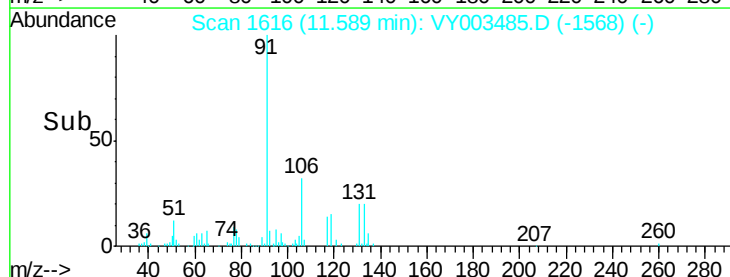
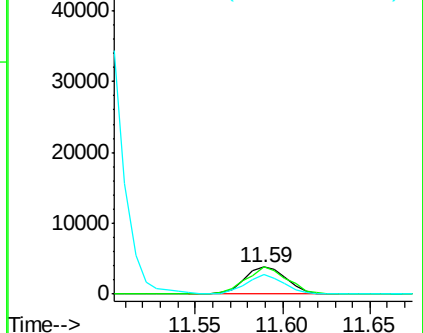
119 66.1 31.6 95.0

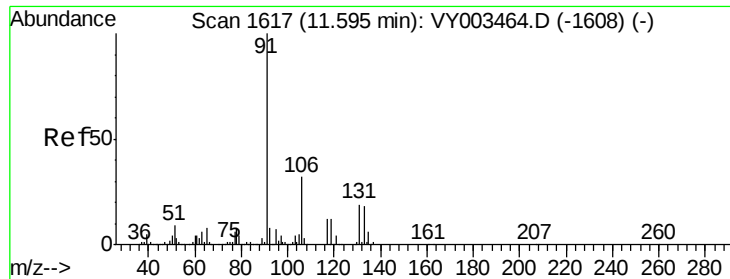


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





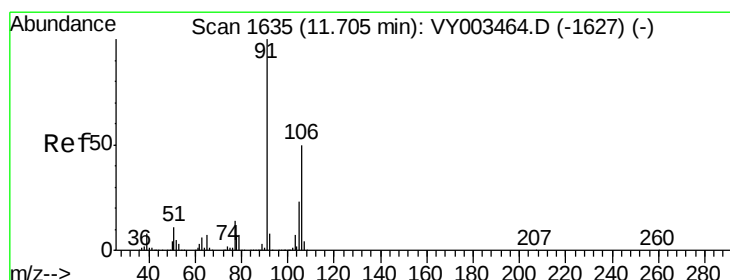
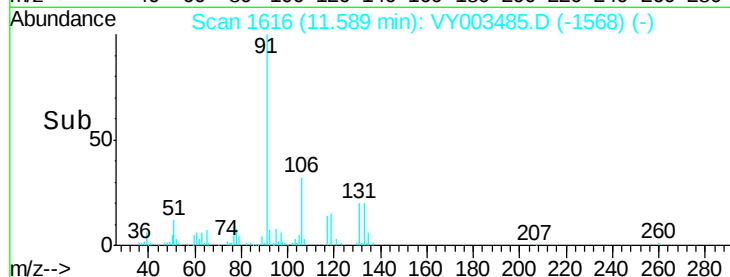
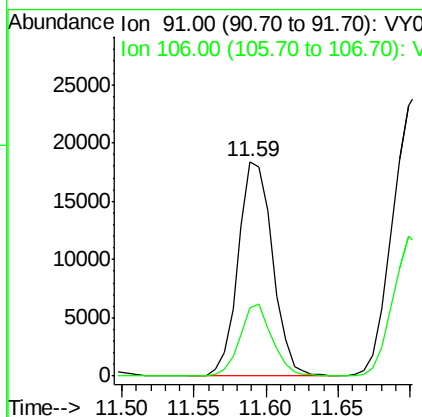
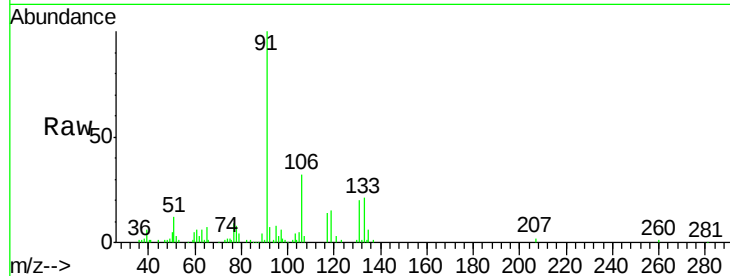
#67
Ethyl Benzene
Concen: 2.566 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 30582
Ion Ratio Lower Upper
91 100
106 32.0 25.4 38.0

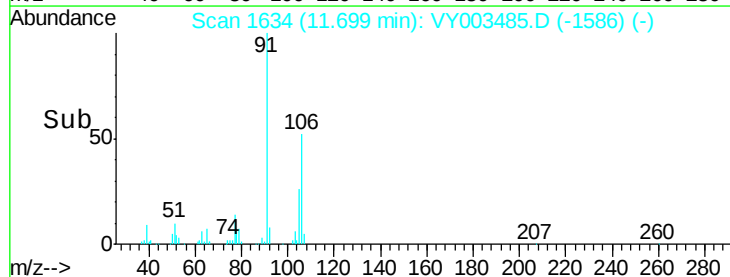
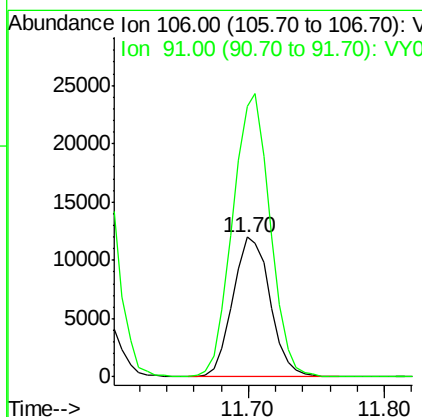
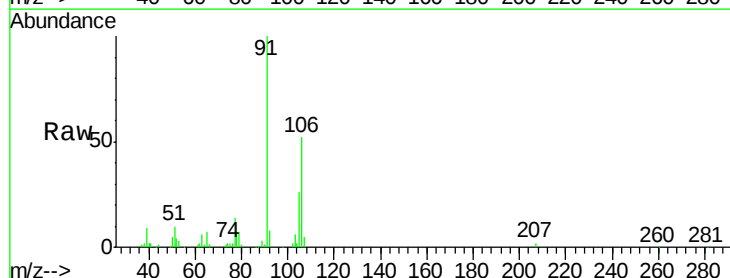
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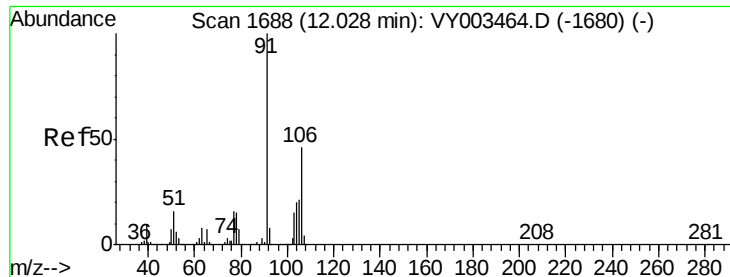
MMDadoda
11/4/2020 11:57:44 AM



#68
m/p-Xylenes
Concen: 5.080 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 106 Resp: 22947
Ion Ratio Lower Upper
106 100
91 203.4 161.0 241.6





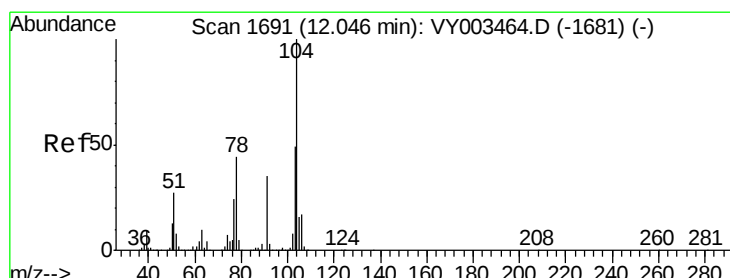
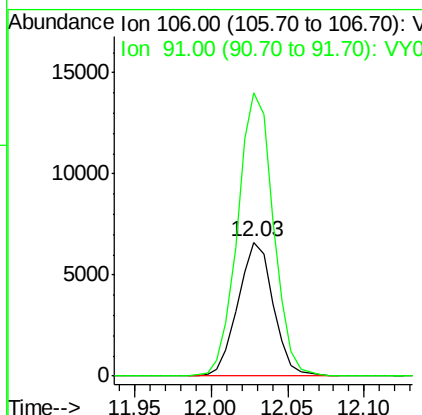
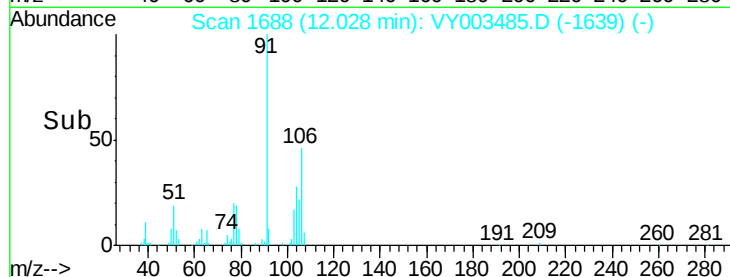
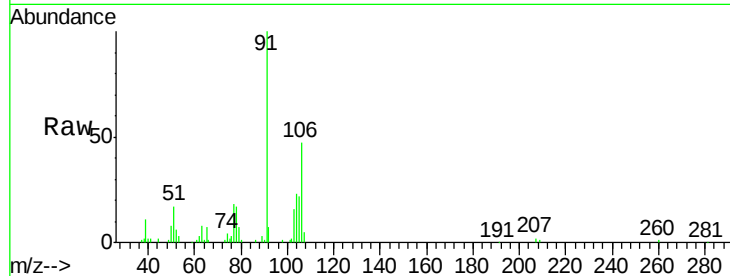
#69
o-Xylene
Concen: 2.559 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion:106 Resp: 10633
Ion Ratio Lower Upper
106 100
91 212.8 105.5 316.5

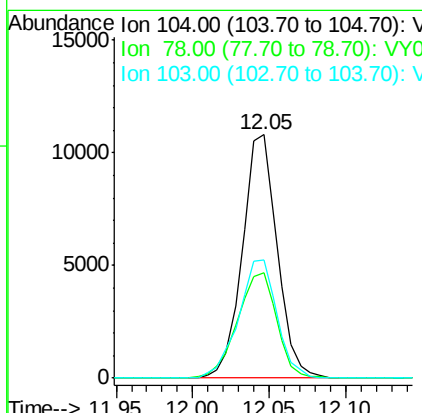
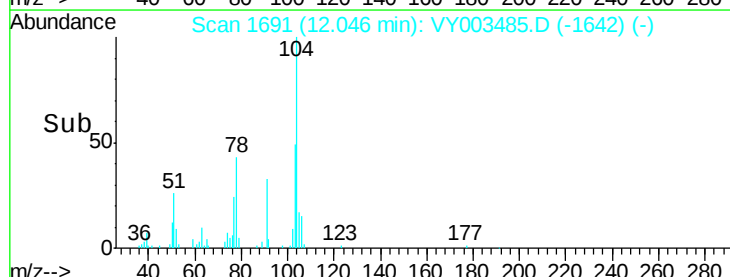
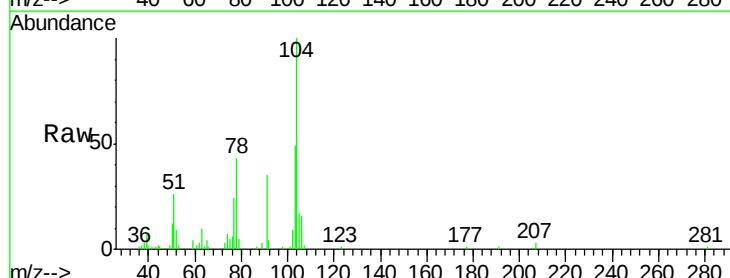
Manual Integrations
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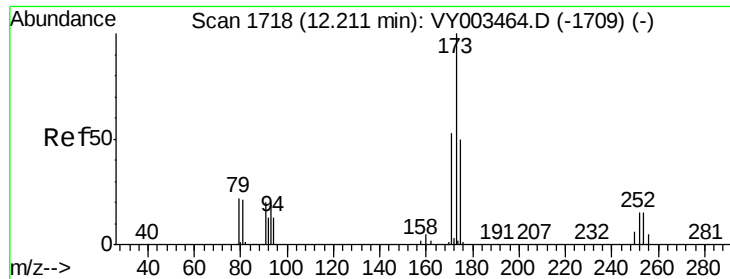
MMDadoda
11/4/2020 11:57:44 AM



#70
Styrene
Concen: 2.419 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion:104 Resp: 17069
Ion Ratio Lower Upper
104 100
78 49.0 39.5 59.3
103 53.5 44.2 66.2





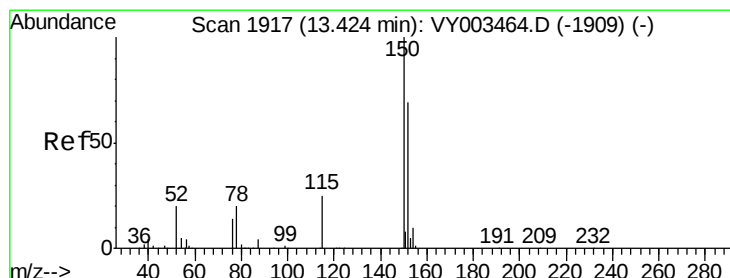
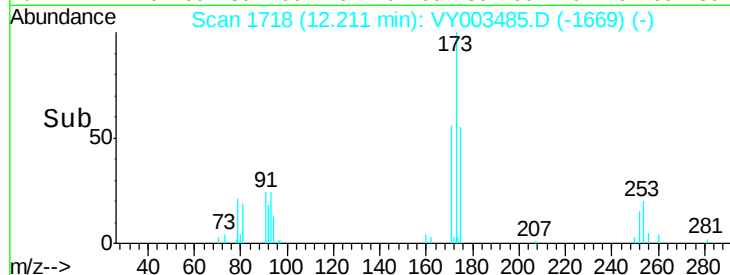
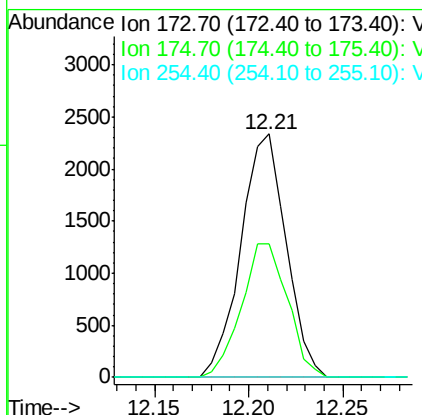
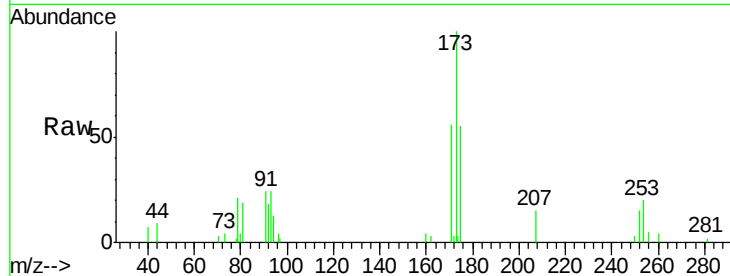
#71
Bromoform
Concen: 2.353 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	56.0	24.7	74.1
254	0.0	0.2	0.2

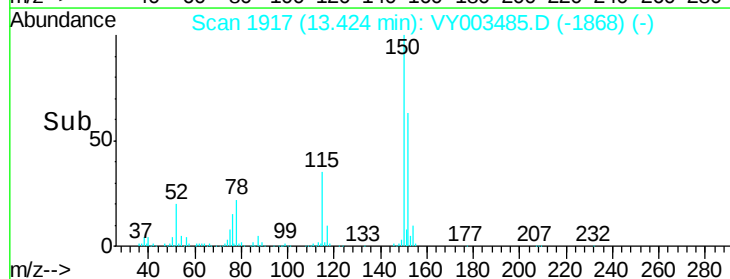
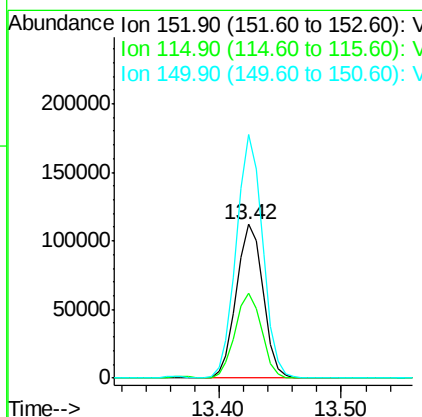
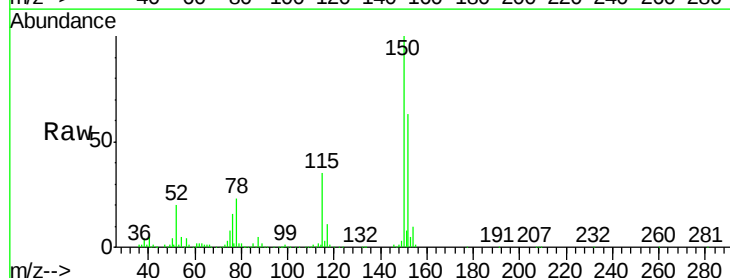
Manual Integrations
APPROVED

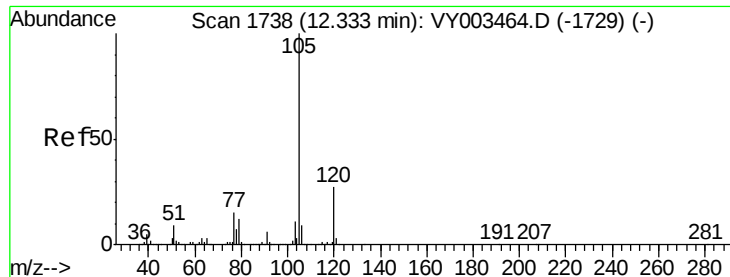
MMDadoda
11/4/2020 11:57:44 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.5	82.4
150	156.3	0.0	345.8





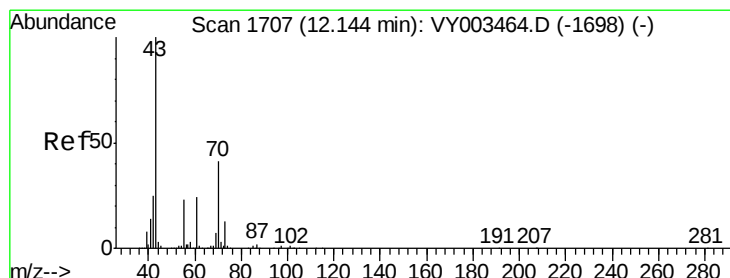
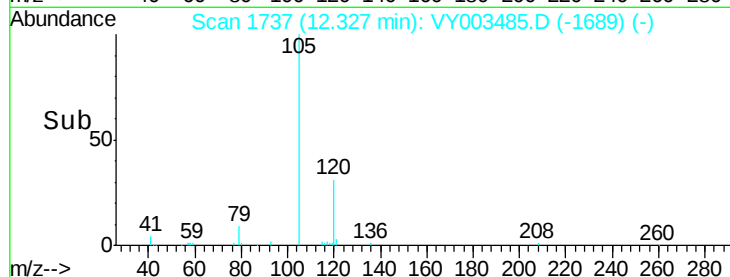
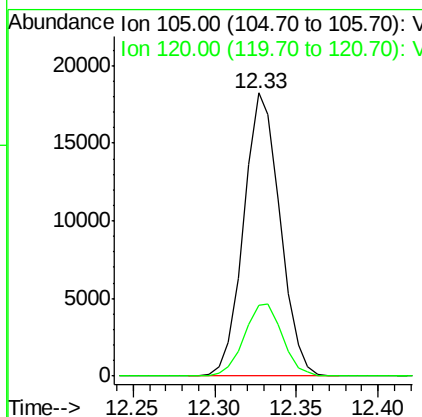
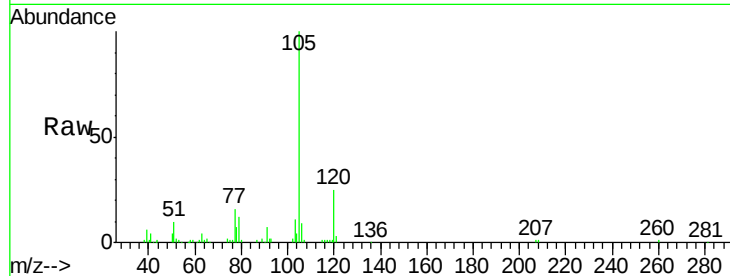
#73
Isopropylbenzene
Concen: 2.567 ug/l
RT: 12.33 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.5	40.5

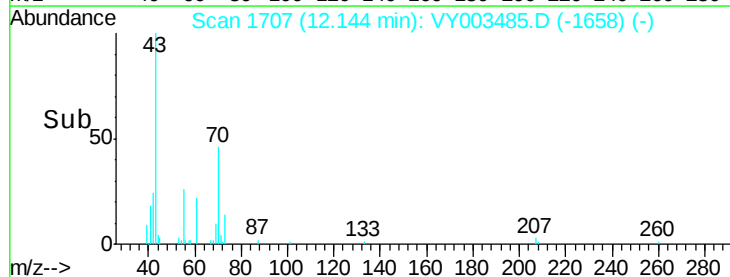
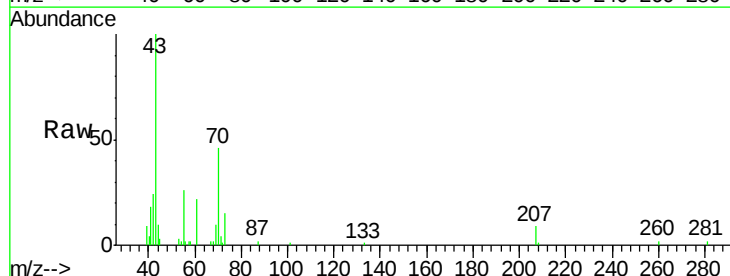
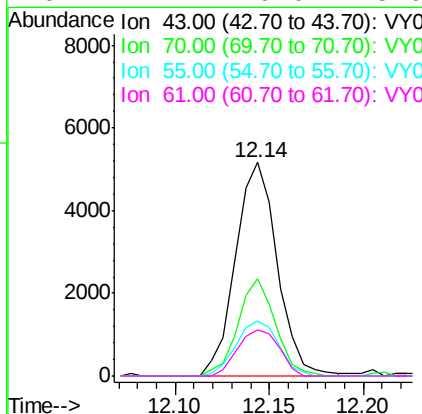
Manual Integrations
APPROVED

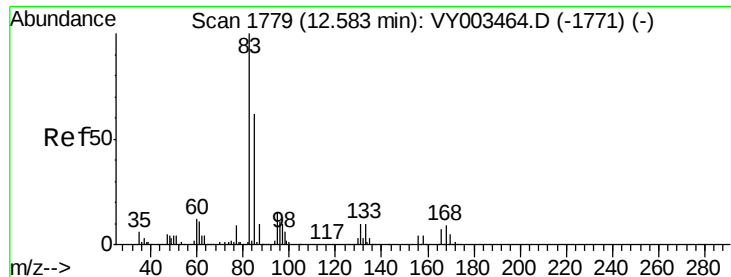
MMDadoda
11/4/2020 11:57:44 AM



#74
N-ethyl acetate
Concen: 2.536 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.1	49.7
55	26.4	19.2	28.8
61	21.7	19.0	28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 2.765 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

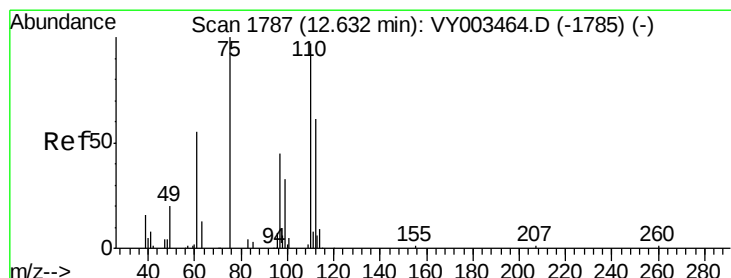
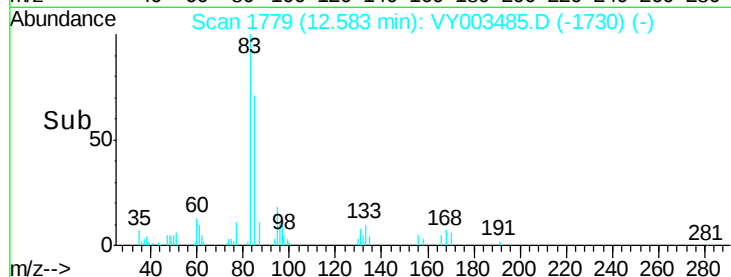
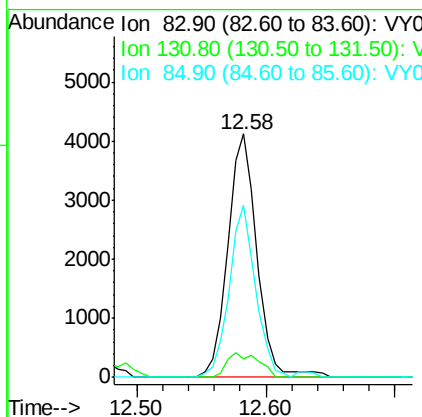
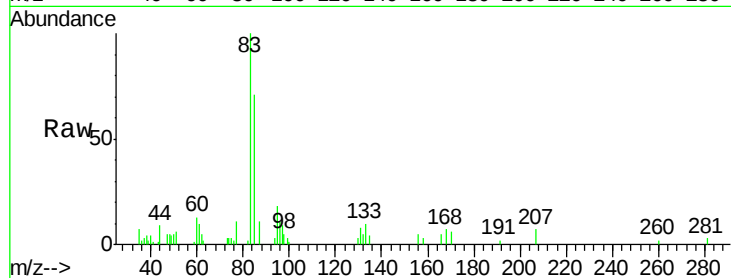
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	83	Resp:	6511
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.4	16.2
85	64.0	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.613 ug/l m

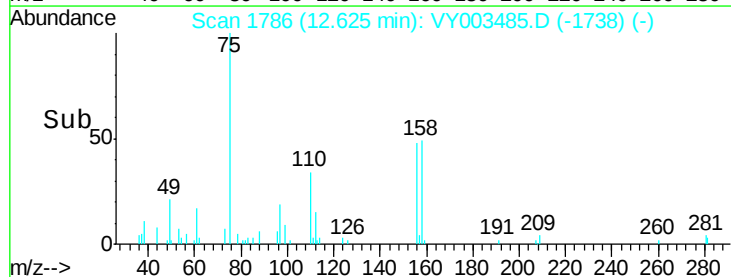
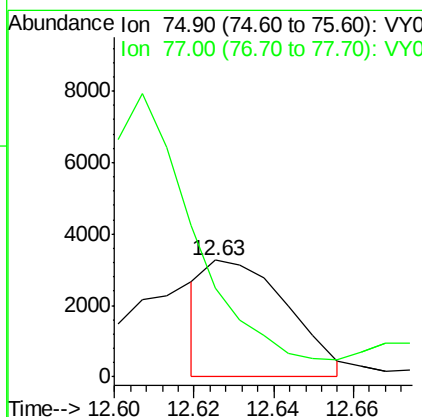
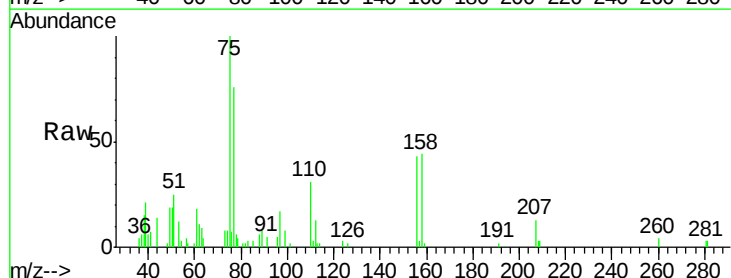
RT: 12.63 min Scan# 1786

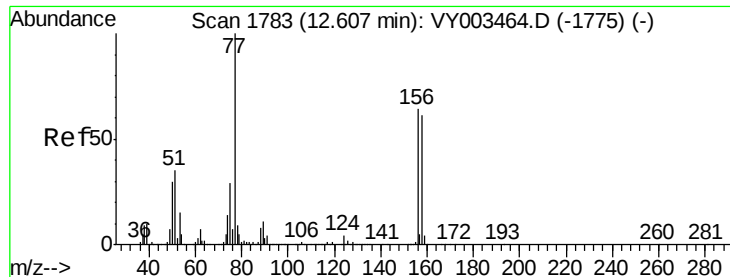
Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	75	Resp:	4667
Ion Ratio	Lower	Upper	
75	100		
77	299.7	0.0	0.0#





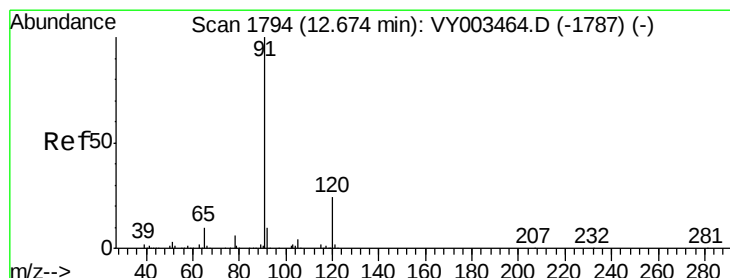
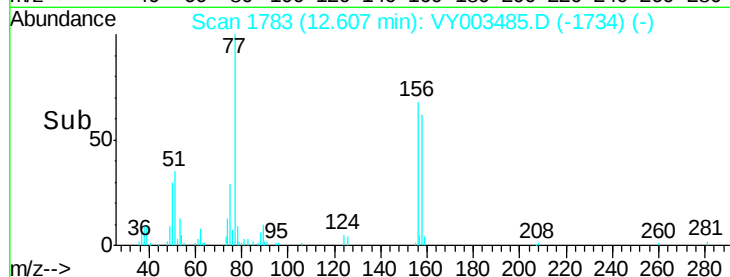
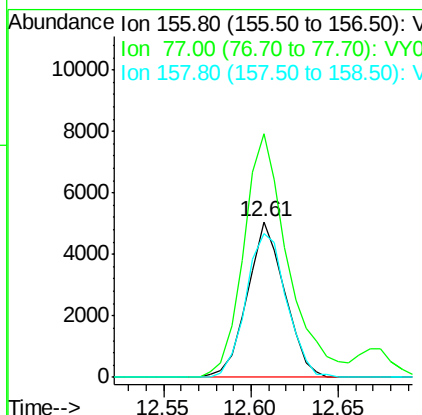
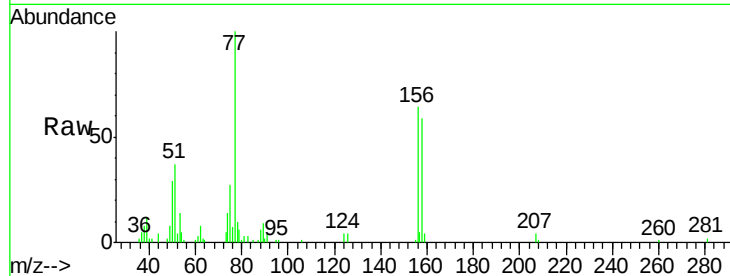
#77
Bromobenzene
Concen: 2.681 ug/l
RT: 12.61 min Scan# 1783
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
156	100		
77	186.3	87.0	260.9
158	100.2	48.7	146.1

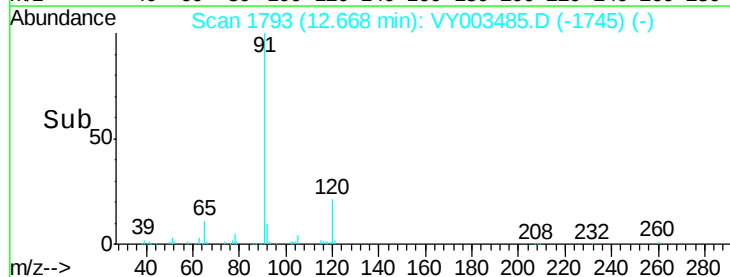
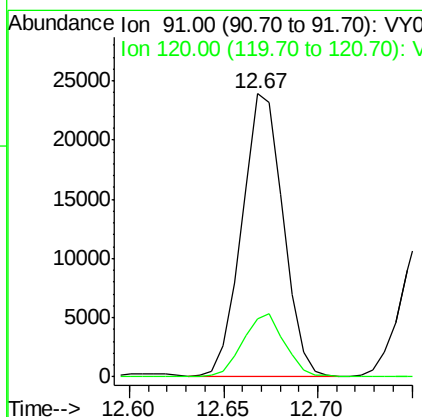
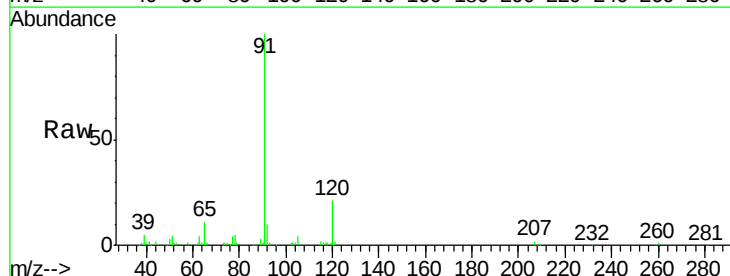
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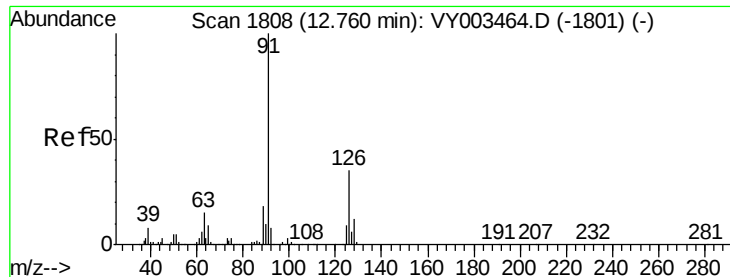
MMDadoda
11/4/2020 11:57:44 AM



#78
n-propylbenzene
Concen: 2.797 ug/l
RT: 12.67 min Scan# 1793
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.7	35.1





#79

2-Chlorotoluene

Concen: 2.708 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 19645

Ion Ratio Lower Upper

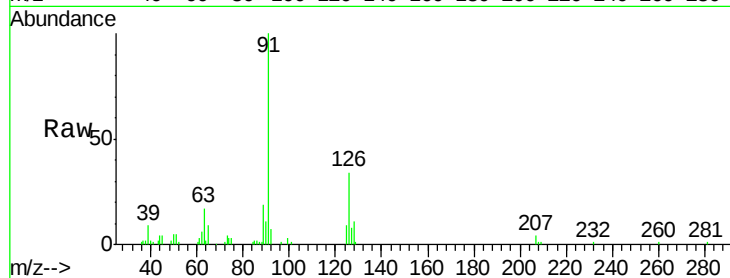
91 100

126 36.2 17.8 53.3

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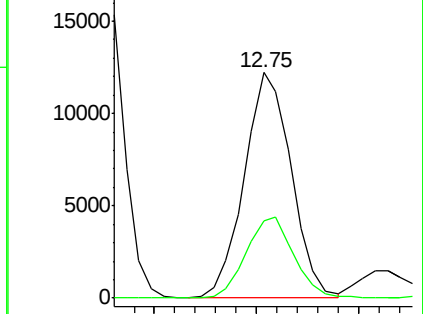
MMDadoda

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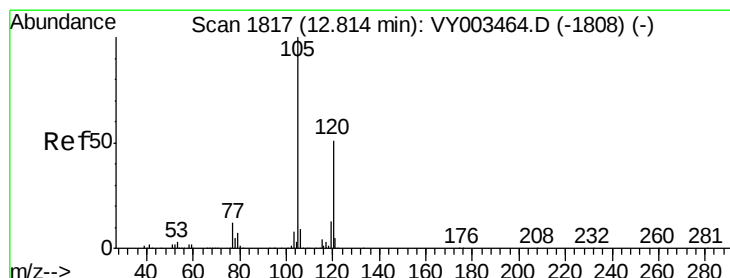
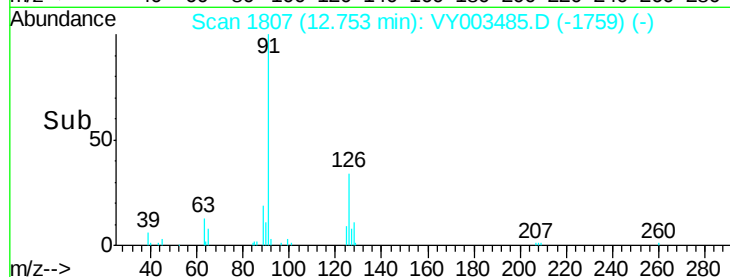


Abundance Ion 91.00 (90.70 to 91.70): VY003464.D (-1801) (-)

Ion 125.90 (125.60 to 126.60): VY003464.D (-1801) (-)



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.595 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.00 min

Lab File: VY003485.D

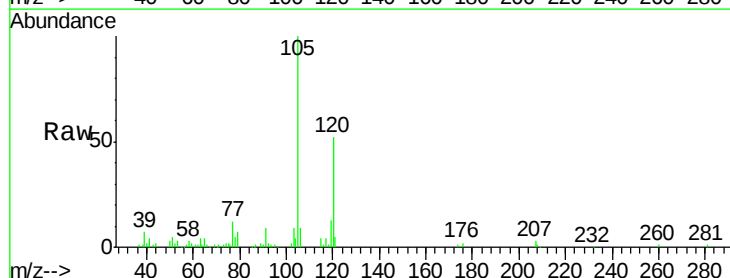
Acq: 03 Nov 2020 12:32

Tgt Ion: 105 Resp: 23704

Ion Ratio Lower Upper

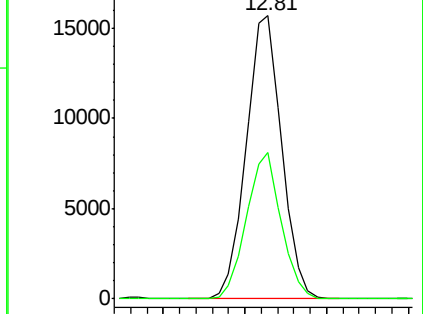
105 100

120 50.6 25.3 75.9

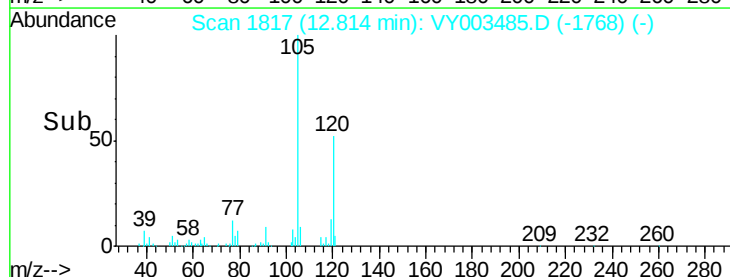


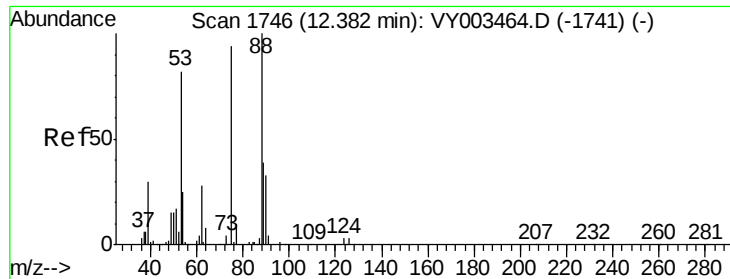
Abundance Ion 105.00 (104.70 to 105.70): VY003464.D (-1808) (-)

Ion 120.00 (119.70 to 120.70): VY003464.D (-1808) (-)



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 2.457 ug/l m

RT: 12.38 min Scan# 1746

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

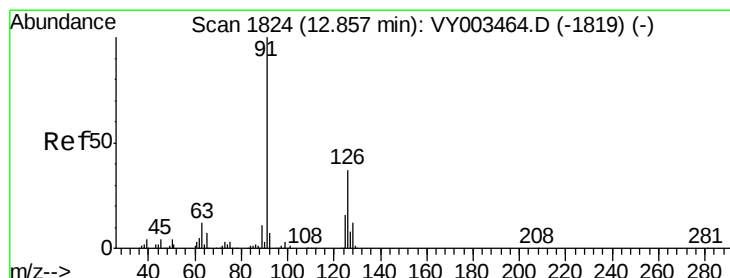
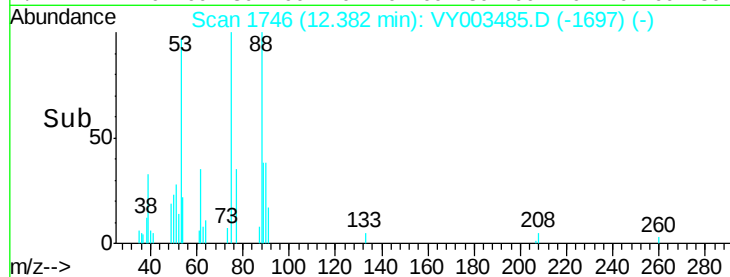
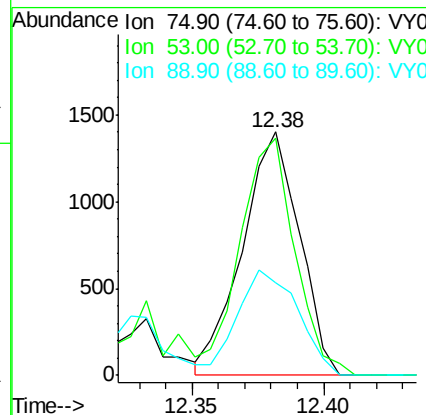
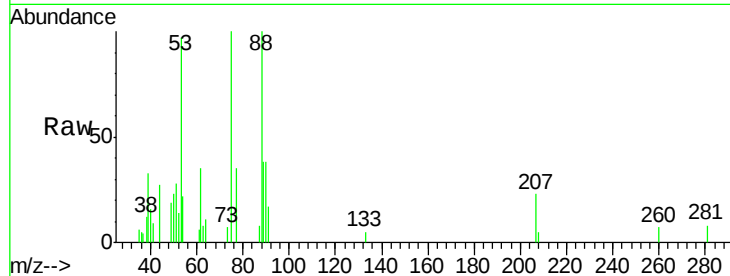
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	75	Resp:	2102
Ion	Ratio	Lower	Upper
75	100		
53	0.0	74.7	112.1#
89	2.9	35.8	53.8#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 2.770 ug/l

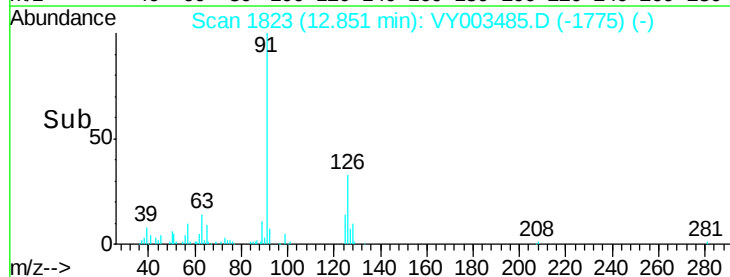
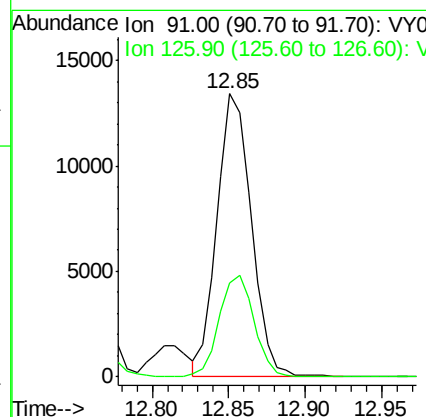
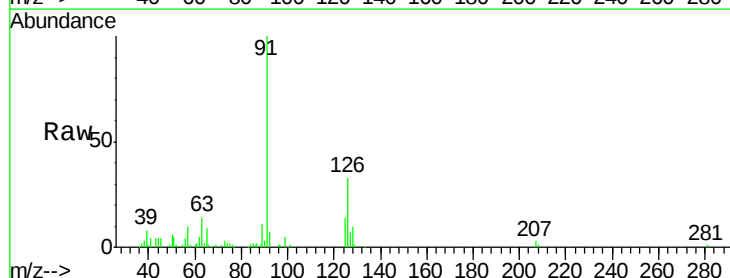
RT: 12.85 min Scan# 1823

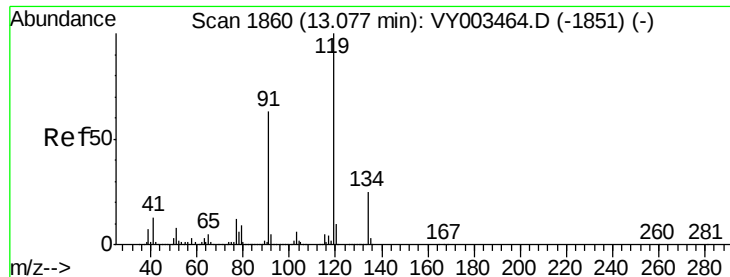
Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	91	Resp:	21003
Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.6	52.8





#83

tert-Butylbenzene

Concen: 2.612 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

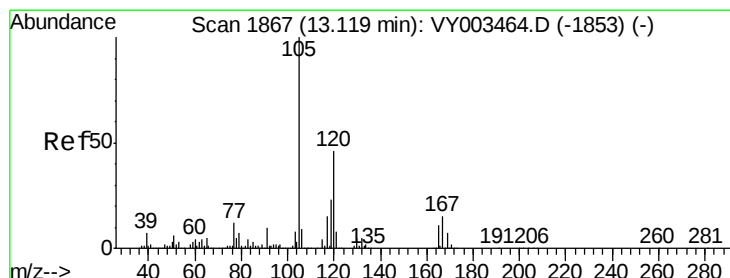
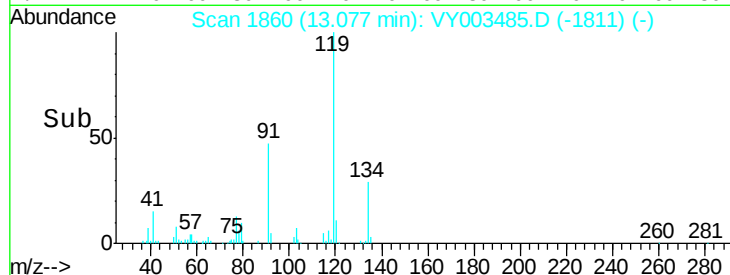
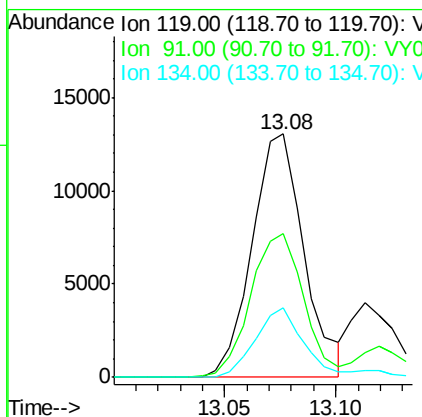
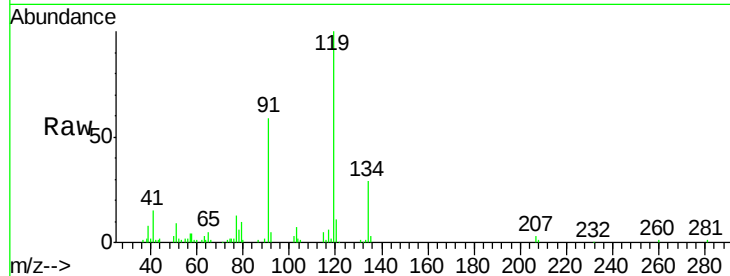
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	119	Resp:	21159
Ion Ratio	Lower	Upper	
119	100		
91	60.2	31.1	93.2
134	26.7	13.4	40.1

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 2.615 ug/l

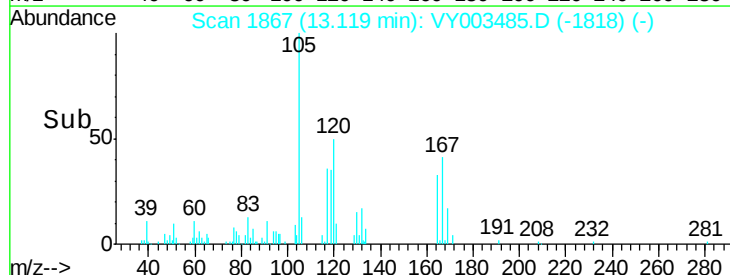
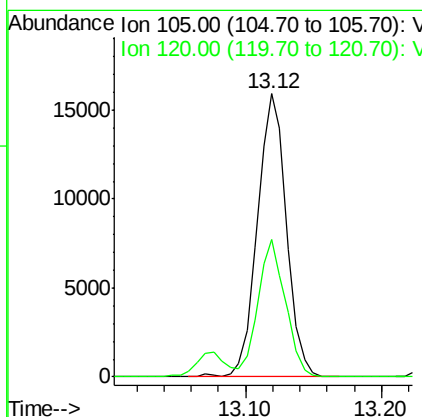
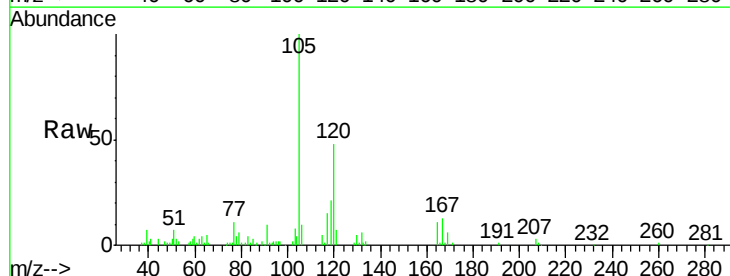
RT: 13.12 min Scan# 1867

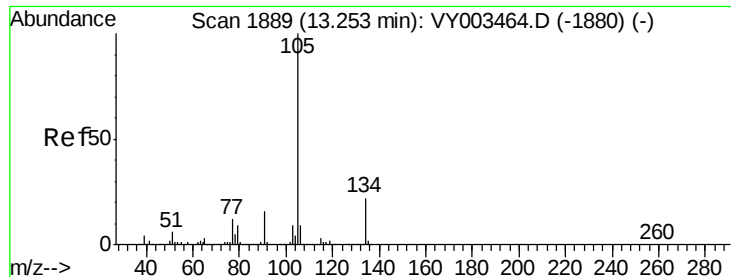
Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	105	Resp:	23872
Ion Ratio	Lower	Upper	
105	100		
120	45.8	22.9	68.8





#85

sec-Butylbenzene

Concen: 2.606 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 28584

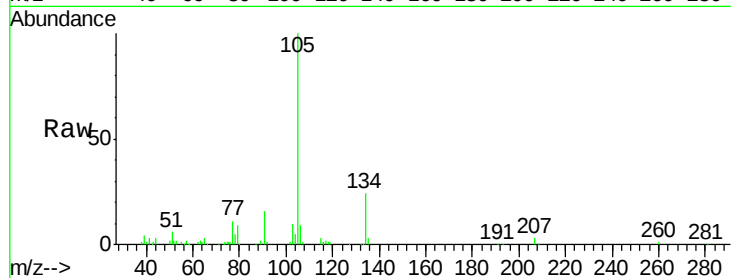
Ion Ratio Lower Upper

105 100

134 22.4 10.6 31.8

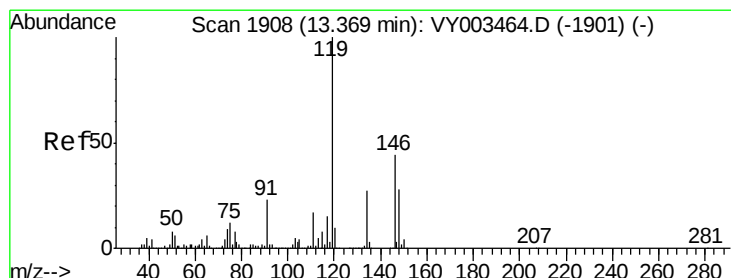
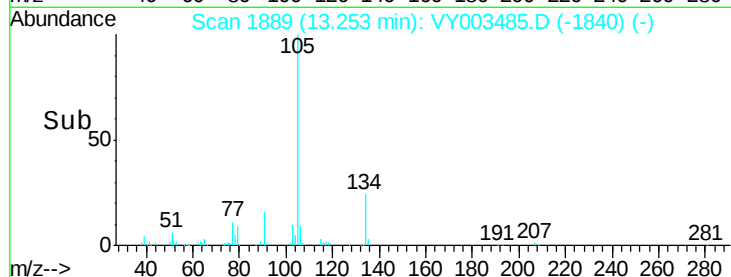
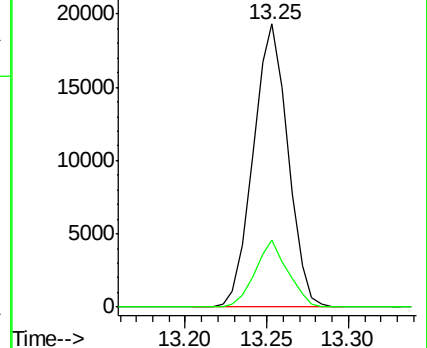
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.615 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

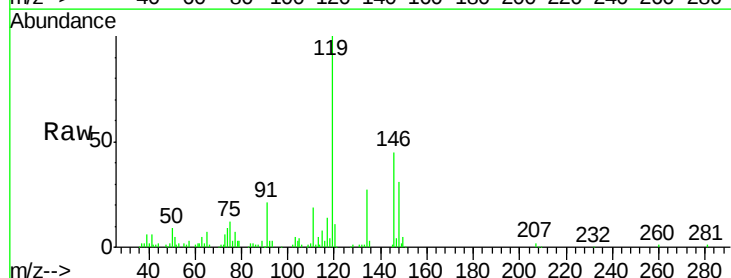
Tgt Ion:119 Resp: 26601

Ion Ratio Lower Upper

119 100

134 27.8 13.6 40.7

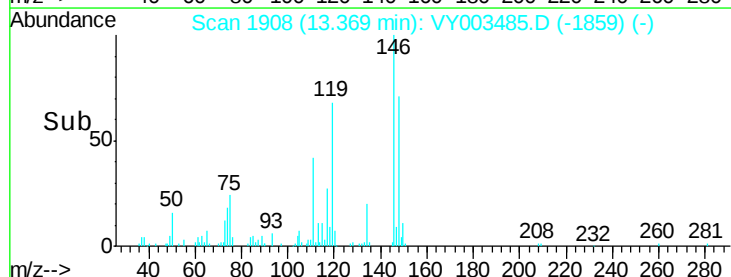
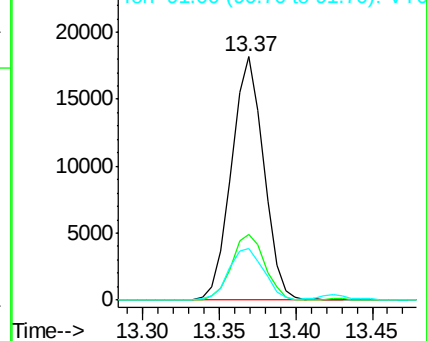
91 22.9 11.4 34.2

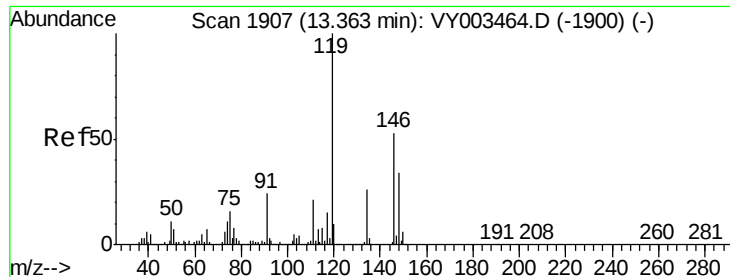


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





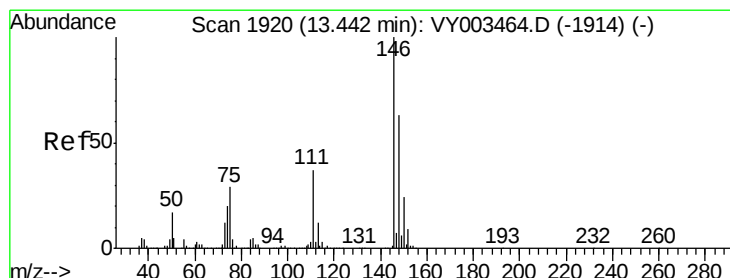
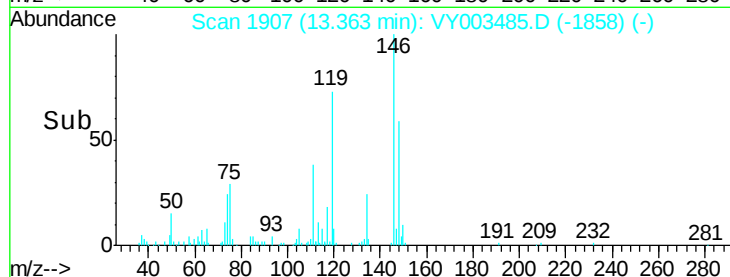
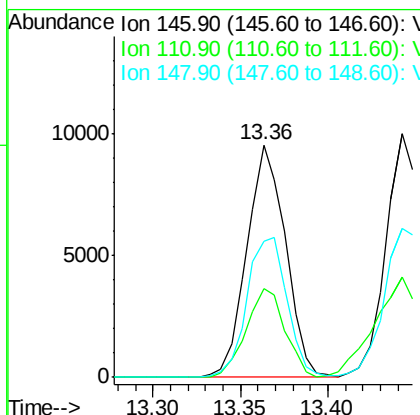
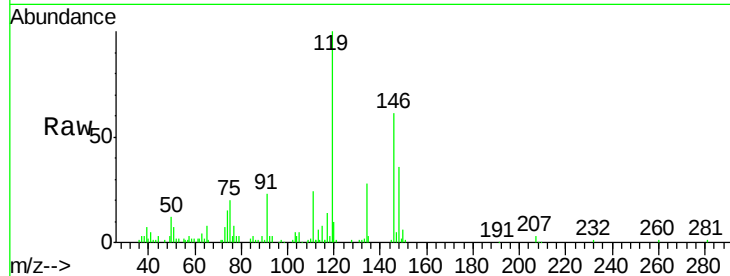
#87
 1,3-Dichlorobenzene
 Concen: 2.801 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.1
148	62.9	32.4	97.0

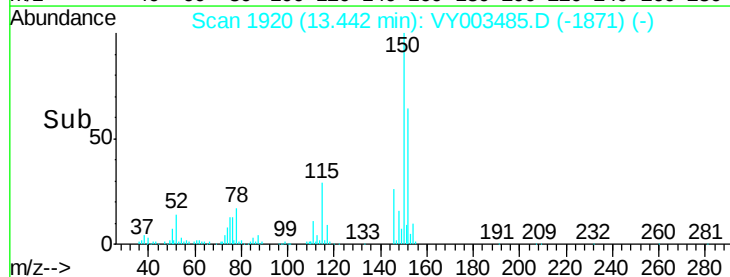
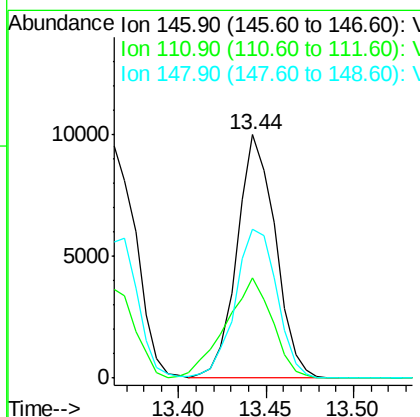
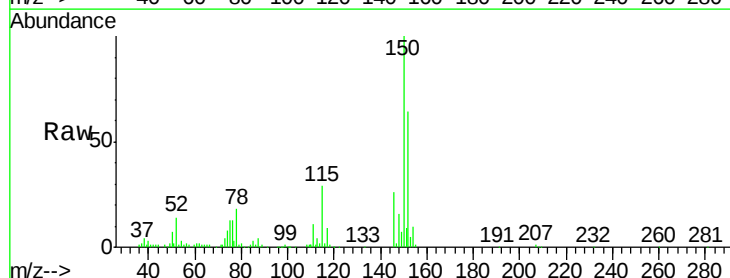
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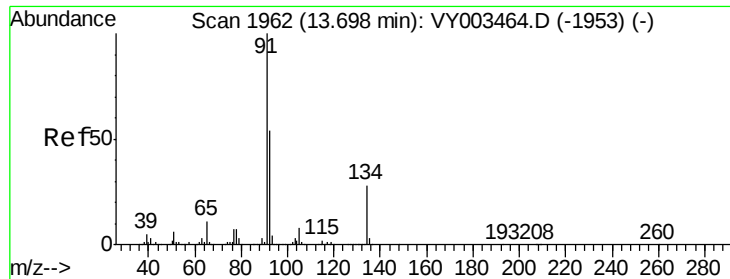
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 11/4/2020 11:57:44 AM



#88
 1,4-Dichlorobenzene
 Concen: 2.942 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.0	18.3	54.8
148	66.5	32.0	96.0





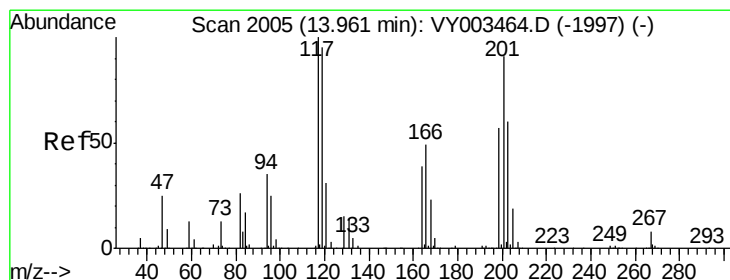
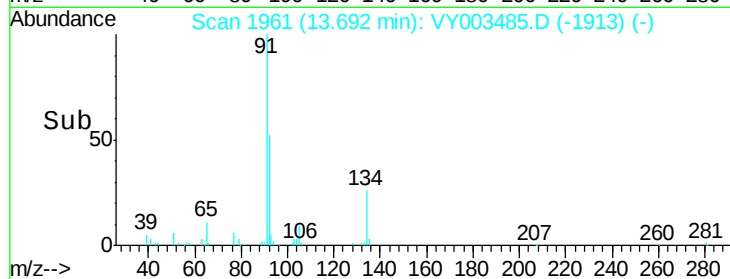
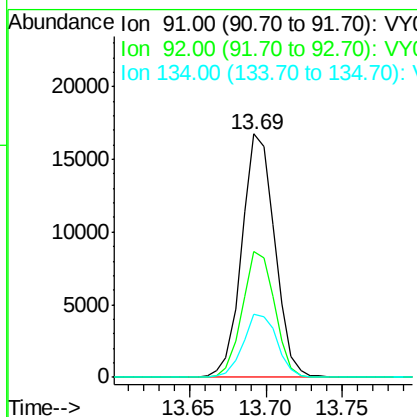
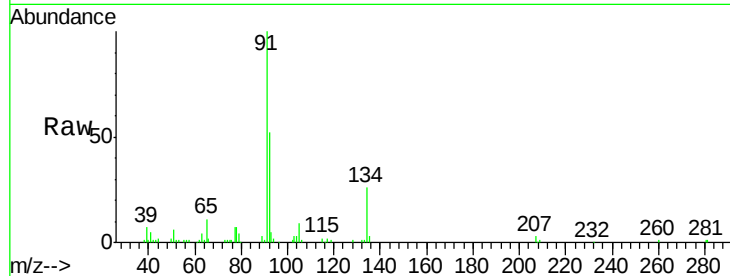
#89
n-Butylbenzene
Concen: 2.683 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.7	80.1
134	26.8	13.8	41.3

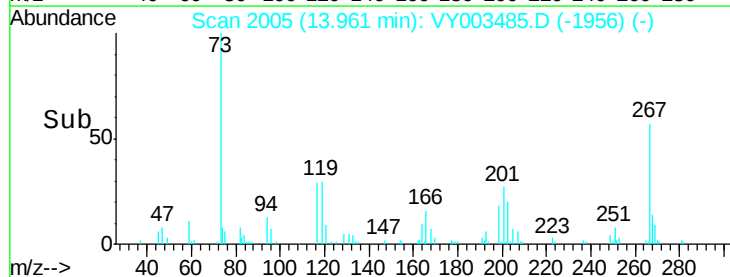
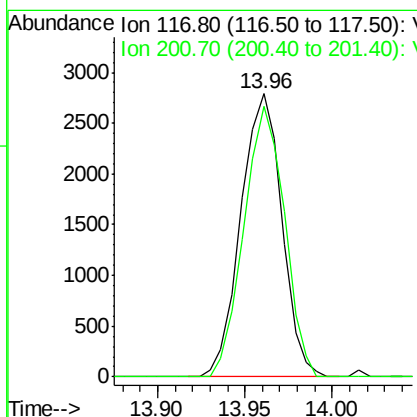
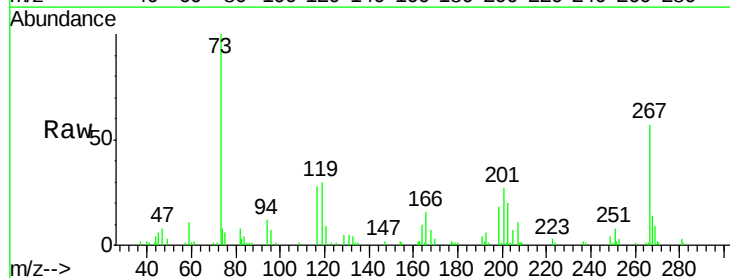
Manual Integrations
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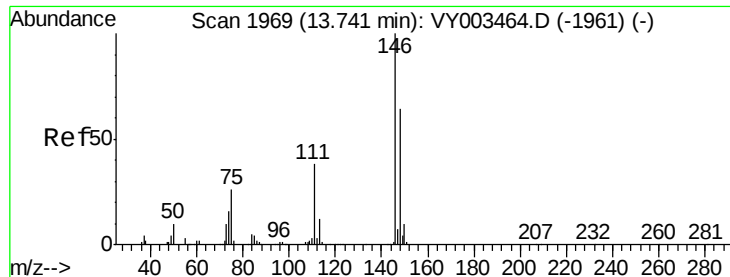
MMDadoda
11/4/2020 11:57:44 AM



#90
Hexachloroethane
Concen: 2.661 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.2	46.6	139.8





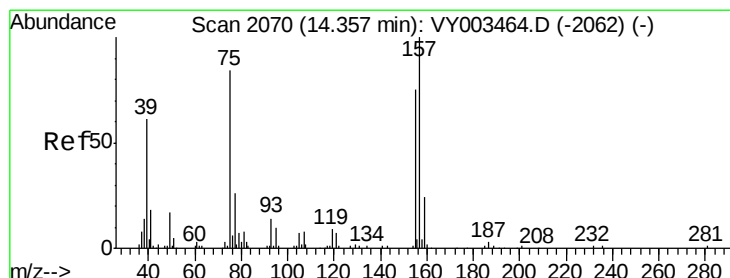
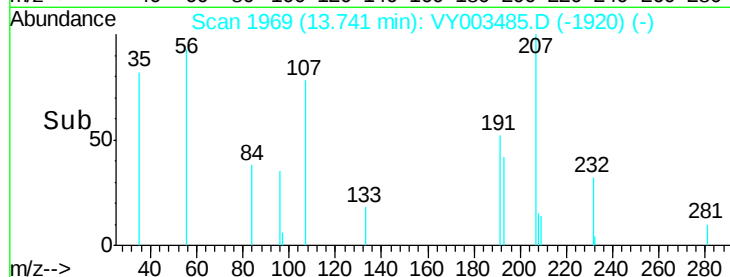
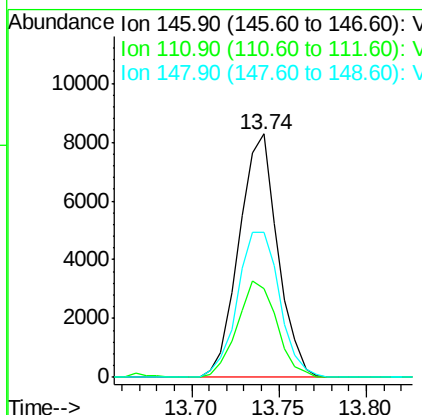
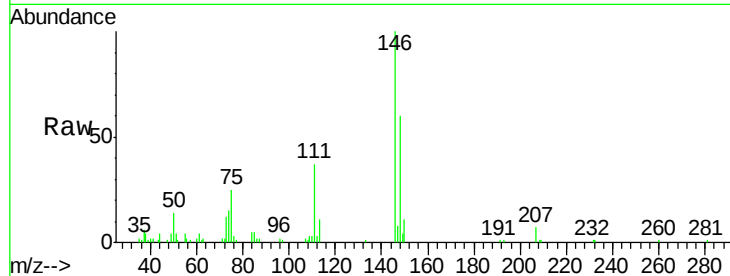
#91
 1,2-Dichlorobenzene
 Concen: 2.753 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	146	Resp:	12761
Ion Ratio	Lower	Upper	
146	100		
111	40.5	19.3	57.8
148	65.4	32.3	96.8

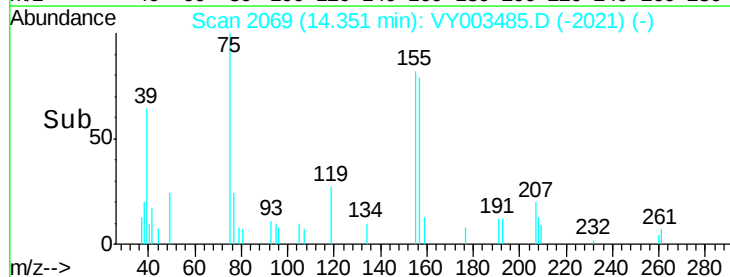
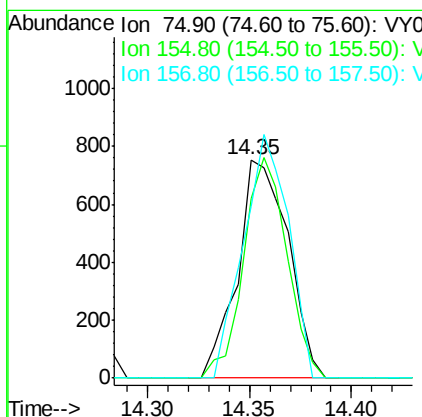
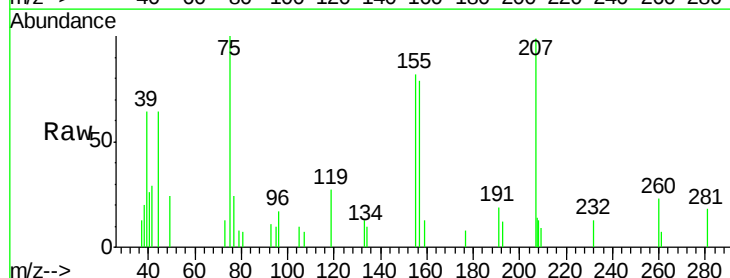
Manual Integrations
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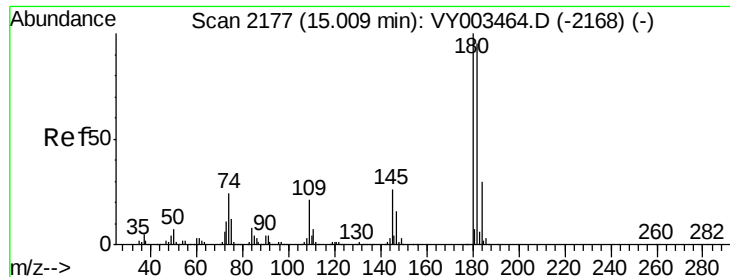
MMDadoda
 11/4/2020 11:57:44 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.049 ug/l
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion:	75	Resp:	1300
Ion Ratio	Lower	Upper	
75	100		
155	86.5	45.6	136.7
157	99.7	60.3	180.8





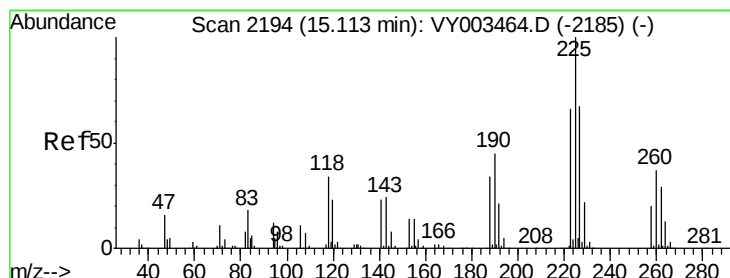
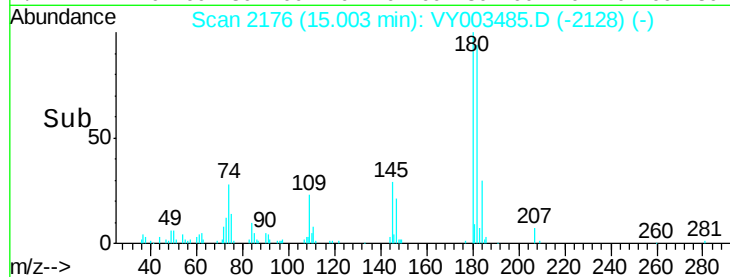
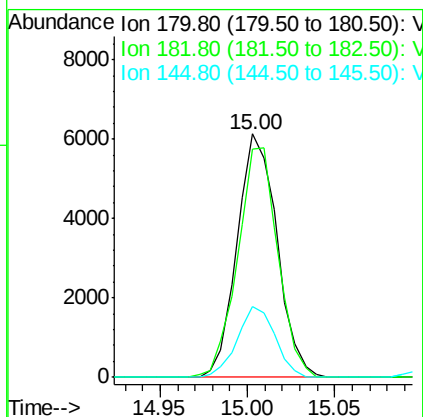
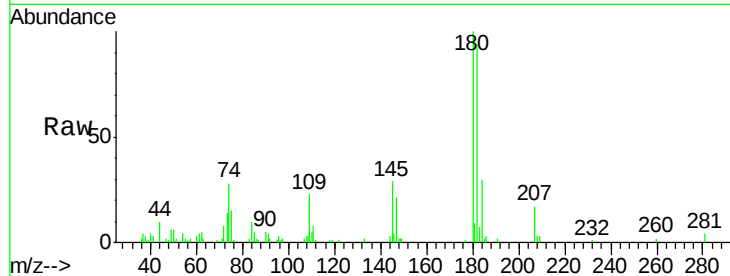
#93
 1,2,4-Trichlorobenzene
 Concen: 2.973 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	180	Resp:	9750
Ion Ratio	Lower	Upper	
180	100		
182	94.8	48.1	144.3
145	27.7	13.8	41.3

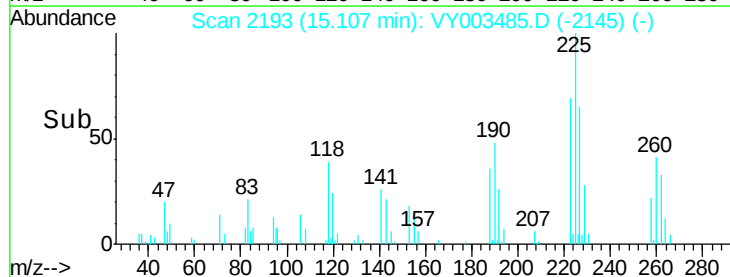
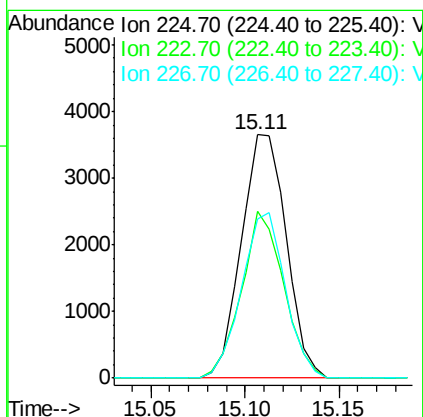
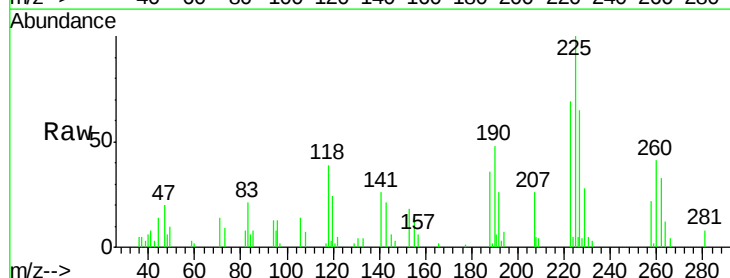
Manual Integrations
 APPROVED

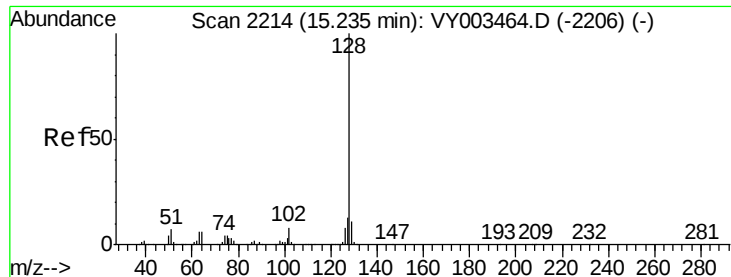
MMDadoda
 11/4/2020 11:57:44 AM



#94
 Hexachlorobutadiene
 Concen: 2.857 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion:	225	Resp:	6027
Ion Ratio	Lower	Upper	
225	100		
223	64.7	32.1	96.3
227	66.1	32.4	97.2





#95

Naphthalene

Concen: 2.789 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

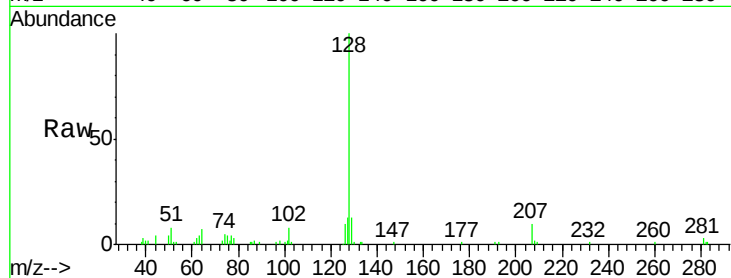
ClientSampleId :

MDL-SOIL-03-QT4-2020

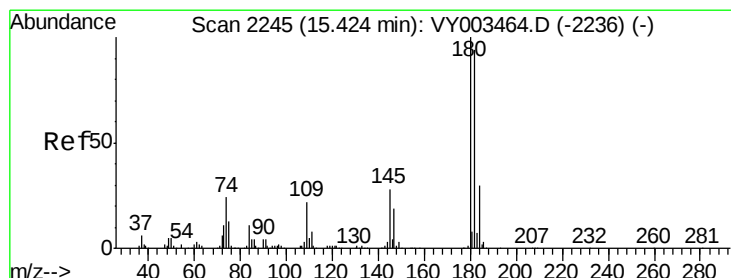
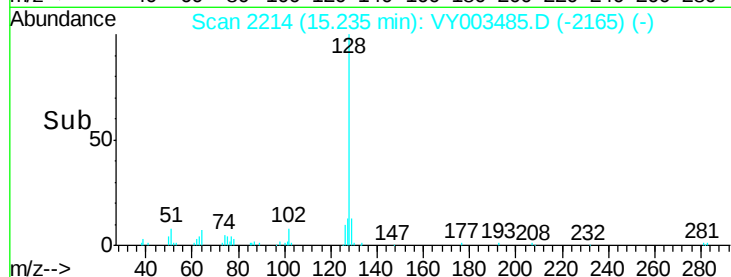
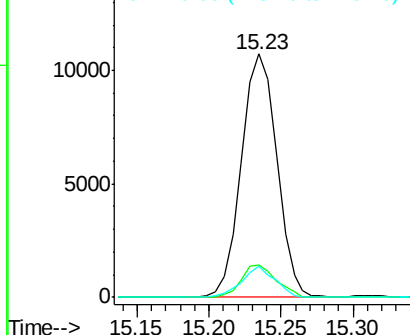
Tot Ion:	128	Resp:	18316
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.5	15.7
129	11.8	8.6	13.0

Manual Integrations
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11/4/2020 11:57:44 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 2.985 ug/l

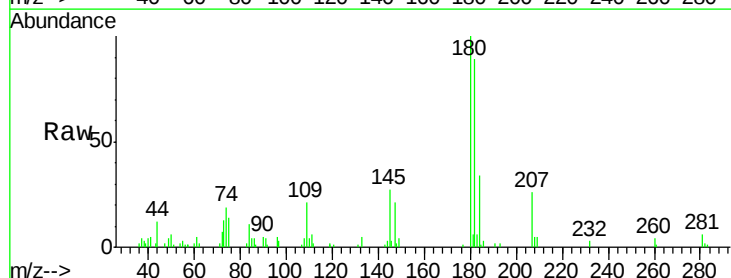
RT: 15.42 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion:	180	Resp:	8805
Ion Ratio	Lower	Upper	
180	100		
182	95.5	46.9	140.7
145	30.1	14.4	43.2



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

