

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050620\
 Data File : VY002606.D
 Acq On : 06 May 2020 11:42
 Operator : SY/MD
 Sample : L2182-01 2.5PPBLOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 10:35:26 AM

Quant Time: May 06 13:01:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	380155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	566247	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	509580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	266622	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	157526	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
35) Dibromofluoromethane	7.74	113	165023	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
50) Toluene-d8	10.19	98	657451	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
62) 4-Bromofluorobenzene	12.49	95	223058	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	7283	2.523	ug/l	98
3) Chloromethane	2.13	50	8978	2.915	ug/l	90
4) Vinyl Chloride	2.26	62	9524	2.678	ug/l	98
5) Bromomethane	2.66	94	7633	3.112	ug/l	89
6) Chloroethane	2.82	64	5825	2.743	ug/l	94
7) Trichlorofluoromethane	3.15	101	14723	2.671	ug/l	97
8) Diethyl Ether	3.55	74	5156	2.784	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.93	101	9340	2.773	ug/l	97
10) Methyl Iodide	4.13	142	10772	2.347	ug/l	98
11) Tert butyl alcohol	4.99	59	5315	16.162	ug/l #	90
12) 1,1-Dichloroethene	3.90	96	9689	2.961	ug/l	88
13) Acrolein	3.75	56	2487	10.936	ug/l	97
14) Allyl chloride	4.52	41	13138	2.755	ug/l	99
15) Acrylonitrile	5.21	53	11562	13.236	ug/l	98
16) Acetone	3.97	43	8777	13.305	ug/l	93
17) Carbon Disulfide	4.22	76	26119	2.653	ug/l	97
18) Methyl Acetate	4.50	43	6763	3.068	ug/l	97
19) Methyl tert-butyl Ether	5.25	73	22117	2.590	ug/l	96
20) Methylene Chloride	4.75	84	13219	3.583	ug/l	93
21) trans-1,2-Dichloroethene	5.26	96	9967	2.787	ug/l	86
22) Diisopropyl ether	6.16	45	26321	2.728	ug/l	94
23) Vinyl Acetate	6.10	43	73868	12.174	ug/l	96
24) 1,1-Dichloroethane	6.05	63	15913	2.788	ug/l #	95
25) 2-Butanone	7.02	43	14624	13.543	ug/l	96
26) 2,2-Dichloropropane	7.00	77	15650	2.885	ug/l	97
27) cis-1,2-Dichloroethene	7.02	96	10957	2.768	ug/l	94
28) Bromochloromethane	7.36	49	6053	2.588	ug/l	100
29) Tetrahydrofuran	7.38	42	10011	14.012	ug/l	96
30) Chloroform	7.53	83	16647	2.805	ug/l	98
31) Cyclohexane	7.80	56	20640	3.593	ug/l #	63
32) 1,1,1-Trichloroethane	7.72	97	14637	2.654	ug/l	98
36) 1,1-Dichloropropene	7.93	75	13331	2.808	ug/l	98
37) Ethyl Acetate	7.10	43	6627	2.717	ug/l	97
38) Carbon Tetrachloride	7.92	117	13907	2.683	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.20	83	17671	2.818	ug/l	95
40) Benzene	8.18	78	38220	2.788	ug/l	94
41) Methacrylonitrile	7.34	41	3128m	2.385	ug/l	
42) 1,2-Dichloroethane	8.26	62	10403	2.705	ug/l	98
43) Isopropyl Acetate	8.29	43	11444	2.502	ug/l #	84
44) Trichloroethene	8.96	130	12224	2.853	ug/l	97
45) 1,2-Dichloropropane	9.23	63	9216	2.785	ug/l	98
46) Dibromomethane	9.32	93	4992	2.622	ug/l	98
47) Bromodichloromethane	9.51	83	12322	2.662	ug/l	93
48) Methyl methacrylate	9.31	41	5295	2.558	ug/l	95
49) 1,4-Dioxane	9.31	88	1502	59.587	ug/l #	94
51) 4-Methyl-2-Pentanone	10.08	43	30628	12.994	ug/l	99
52) Toluene	10.25	92	24159	2.742	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	12215	2.518	ug/l	98
54) cis-1,3-Dichloropropene	9.94	75	14690	2.620	ug/l	98
55) 1,1,2-Trichloroethane	10.66	97	7434	2.678	ug/l	93
56) Ethyl methacrylate	10.52	69	9330	2.526	ug/l	99
57) 1,3-Dichloropropane	10.80	76	12712	2.700	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.80	63	24867	12.768	ug/l	98
59) 2-Hexanone	10.84	43	20894	12.879	ug/l	99
60) Dibromochloromethane	10.99	129	8848	2.506	ug/l	98
61) 1,2-Dibromoethane	11.10	107	6970	2.536	ug/l	100
64) Tetrachloroethene	10.72	164	13962	3.084	ug/l	92
65) Chlorobenzene	11.52	112	27173	2.805	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.60	131	9121	2.537	ug/l	94
67) Ethyl Benzene	11.60	91	46668	2.743	ug/l	96
68) m/p-Xylenes	11.71	106	35857	5.446	ug/l	100
69) o-Xylene	12.03	106	16905	2.742	ug/l	97
70) Styrene	12.05	104	27760	2.634	ug/l	99
71) Bromoform	12.22	173	5830	2.612	ug/l #	96
73) Isopropylbenzene	12.34	105	46449	2.688	ug/l	98
74) N-amyl acetate	12.15	43	10763	2.589	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.59	83	6778	2.466	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	6058m	2.557	ug/l	
77) Bromobenzene	12.61	156	12043	2.790	ug/l	98
78) n-propylbenzene	12.68	91	54493	2.717	ug/l	100
79) 2-Chlorotoluene	12.77	91	30384	2.735	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	38618	2.696	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.39	75	3074m	2.602	ug/l	
82) 4-Chlorotoluene	12.86	91	32008	2.743	ug/l	99
83) tert-Butylbenzene	13.08	119	33863	2.696	ug/l	98
84) 1,2,4-Trimethylbenzene	13.13	105	39266	2.751	ug/l	97
85) sec-Butylbenzene	13.26	105	47933	2.750	ug/l	98
86) p-Isopropyltoluene	13.38	119	44245	2.710	ug/l	98
87) 1,3-Dichlorobenzene	13.38	146	22639	2.771	ug/l	98
88) 1,4-Dichlorobenzene	13.45	146	23560	2.912	ug/l	89
89) n-Butylbenzene	13.70	91	41341	2.781	ug/l	99
90) Hexachloroethane	13.97	117	8166	2.746	ug/l	100
91) 1,2-Dichlorobenzene	13.75	146	20826	2.856	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.37	75	1591	3.106	ug/l	92

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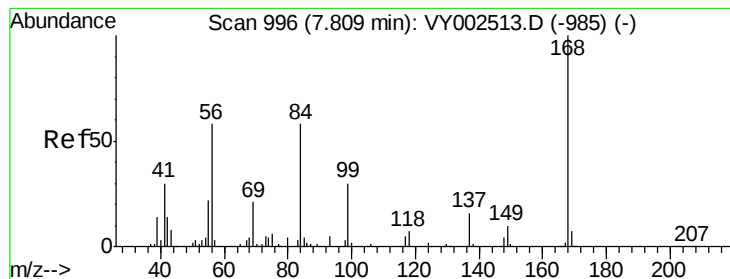
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.02	180	16936	3.199	ug/l	98
94) Hexachlorobutadiene	15.12	225	9381	2.952	ug/l	97
95) Naphthalene	15.25	128	31716	3.284	ug/l	99
96) 1,2,3-Trichlorobenzene	15.43	180	15537	3.458	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:168 Resp: 380155

Ion Ratio Lower Upper

168 100

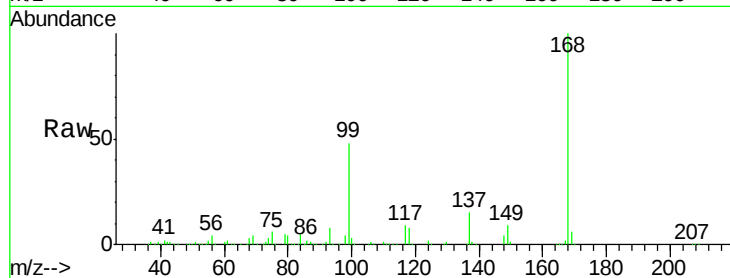
99 48.4 39.2 58.8

Manual Integrations

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5/7/2020 10:35:26 AM



Abundance Ion 167.90 (167.60 to 168.60): VY002606.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002606.D (-947) (-)

7.82

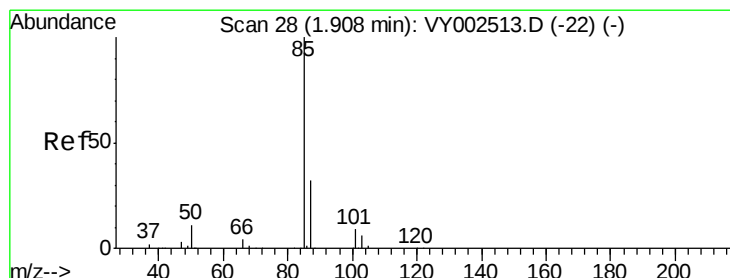
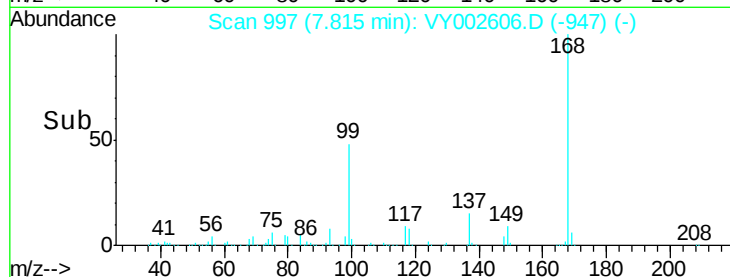
150000

100000

50000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 2.523 ug/l

RT: 1.91 min Scan# 29

Delta R.T. 0.01 min

Lab File: VY002606.D

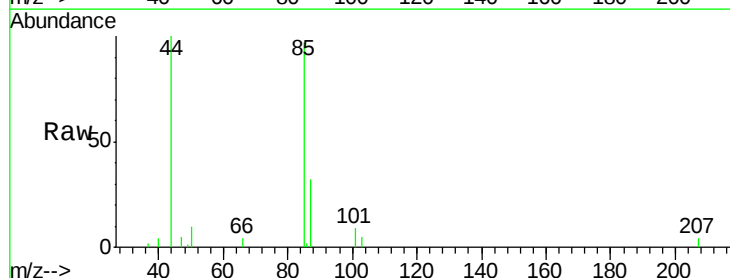
Acq: 06 May 2020 11:42

Tgt Ion: 85 Resp: 7283

Ion Ratio Lower Upper

85 100

87 32.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VY002606.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY002606.D (-1) (-)

1.91

6000

5000

4000

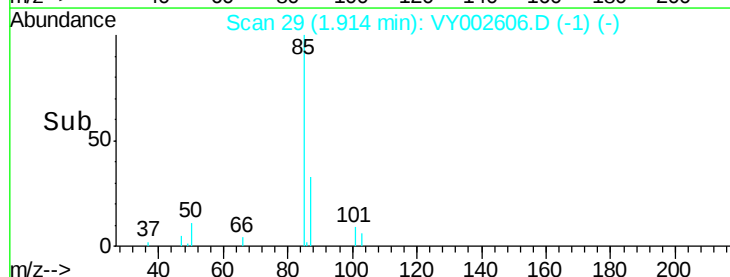
3000

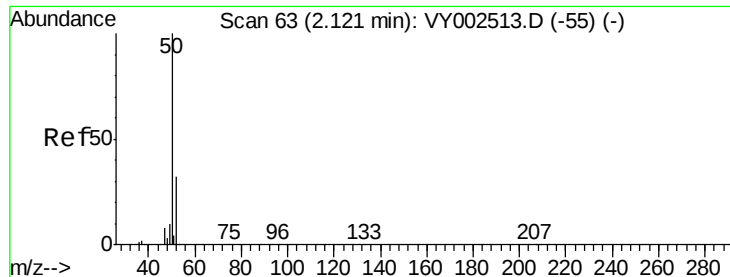
2000

1000

0

Time--> 1.85 1.90 1.95 2.00





#3

Chloromethane

Concen: 2.915 ug/l

RT: 2.13 min Scan# 64

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 50 Resp: 8978

Ion Ratio Lower Upper

50 100

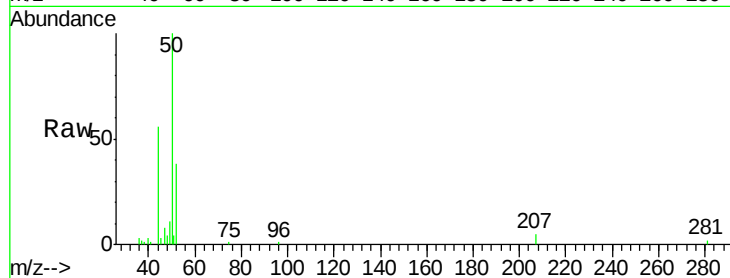
52 37.8 25.9 38.9

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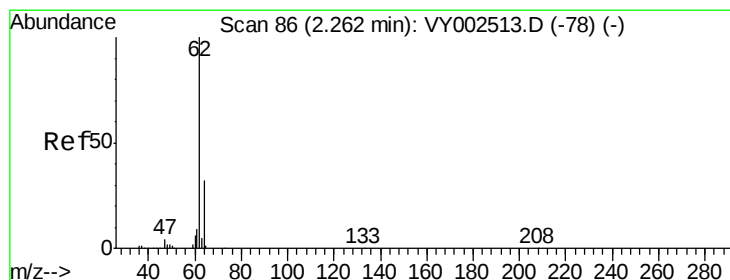
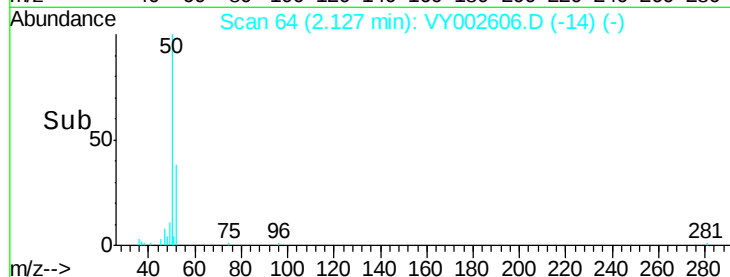
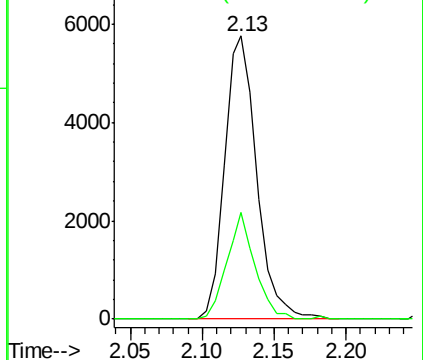
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Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 2.678 ug/l

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY002606.D

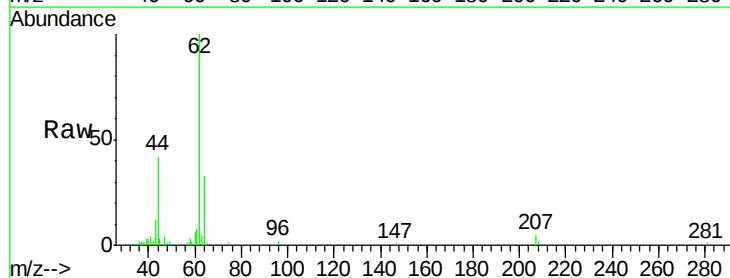
Acq: 06 May 2020 11:42

Tgt Ion: 62 Resp: 9524

Ion Ratio Lower Upper

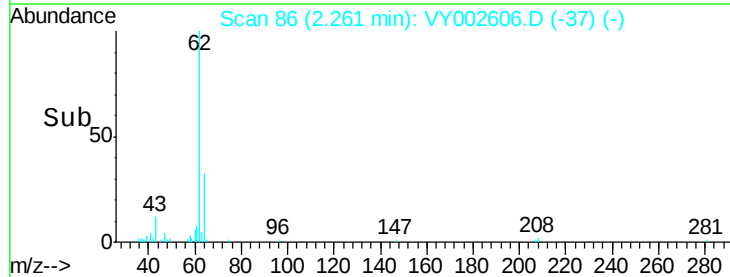
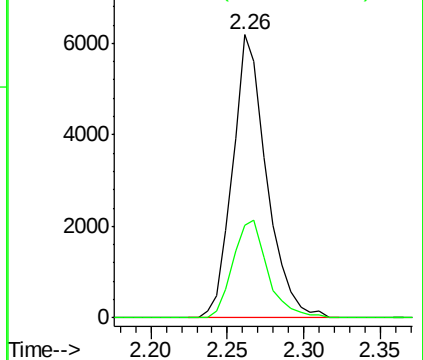
62 100

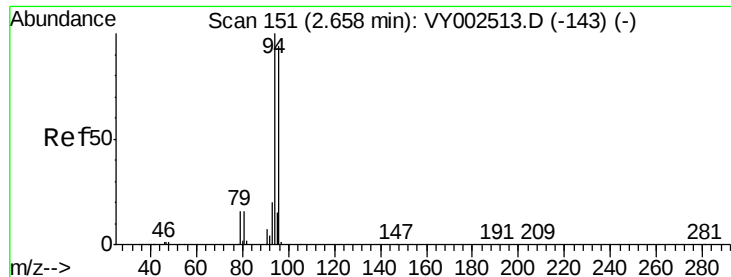
64 32.8 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 3.112 ug/l

RT: 2.66 min Scan# 152

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 94 Resp: 7633

Ion Ratio Lower Upper

94 100

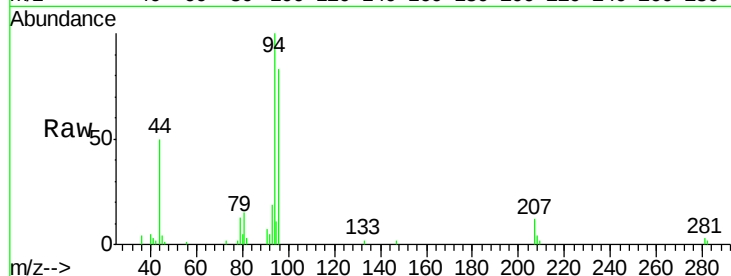
96 83.4 74.9 112.3

Manual Integrations

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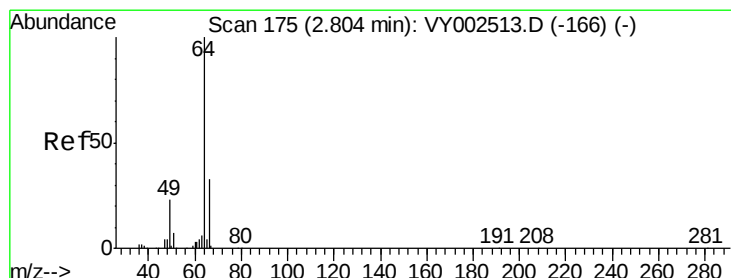
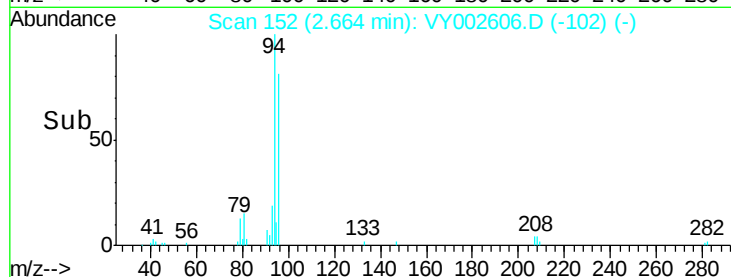
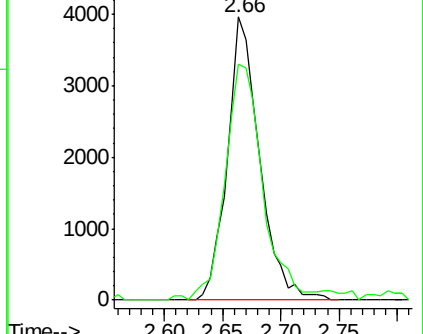
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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 2.743 ug/l

RT: 2.82 min Scan# 177

Delta R.T. 0.01 min

Lab File: VY002606.D

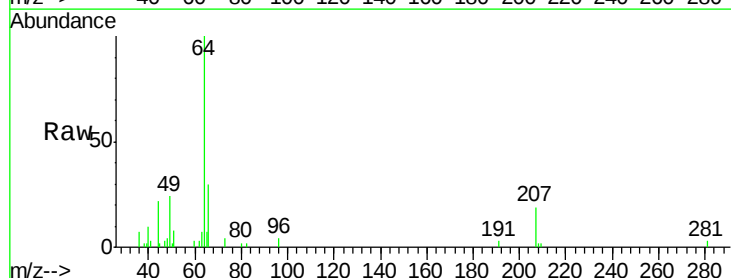
Acq: 06 May 2020 11:42

Tgt Ion: 64 Resp: 5825

Ion Ratio Lower Upper

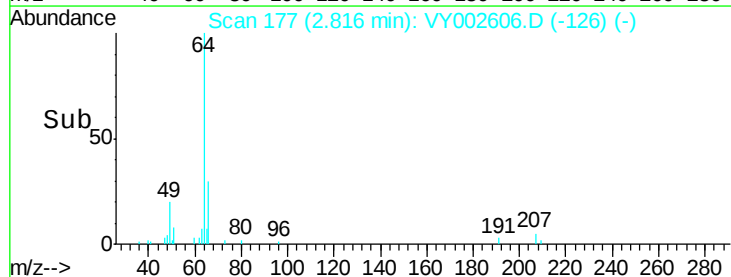
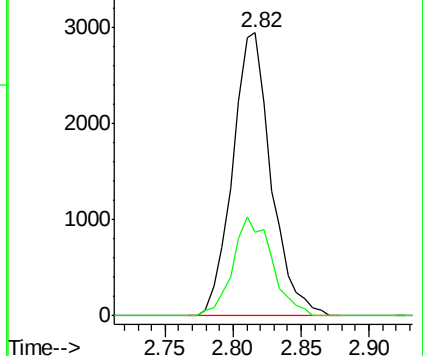
64 100

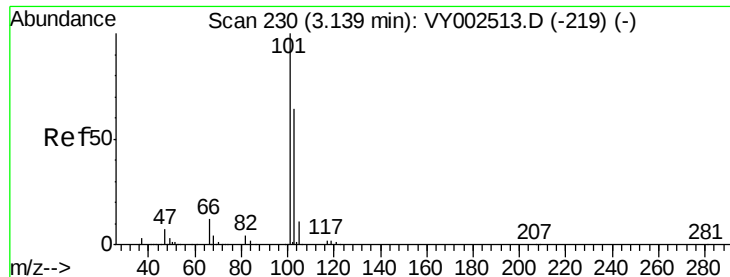
66 29.7 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

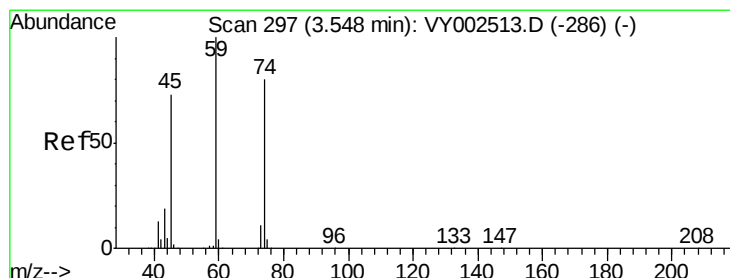
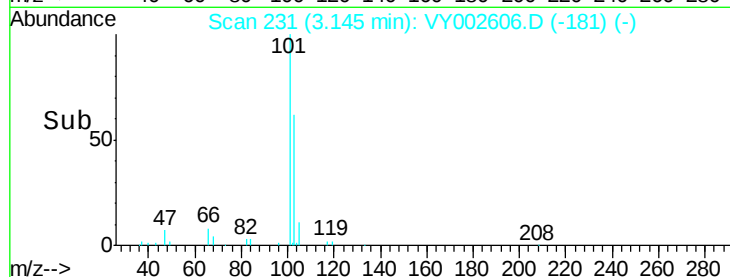
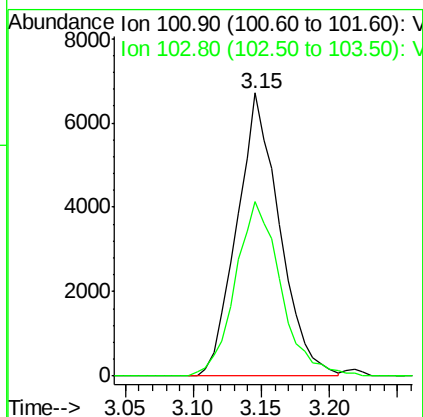
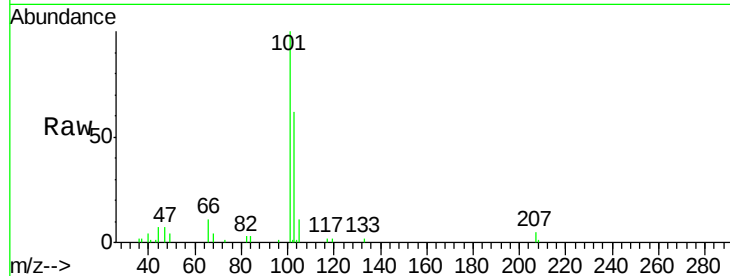
Trichlorofluoromethane
Concen: 2.671 ug/l
RT: 3.15 min Scan# 231
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.6	51.4	77.0

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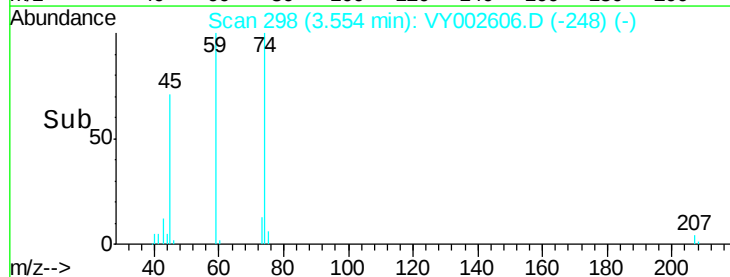
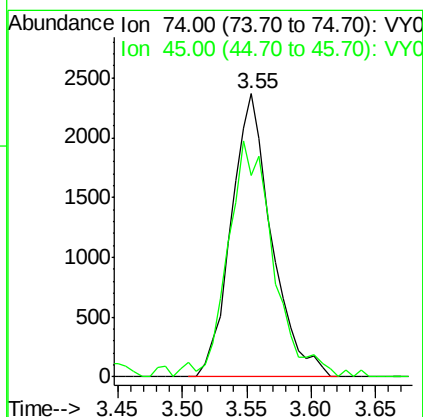
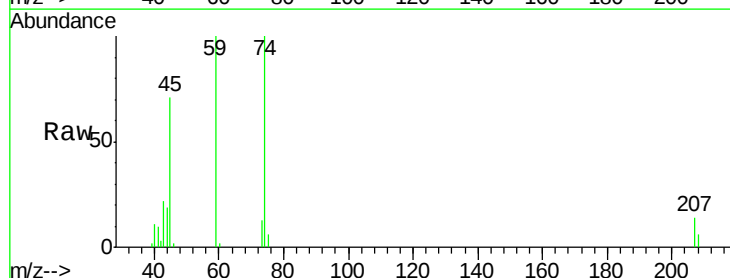
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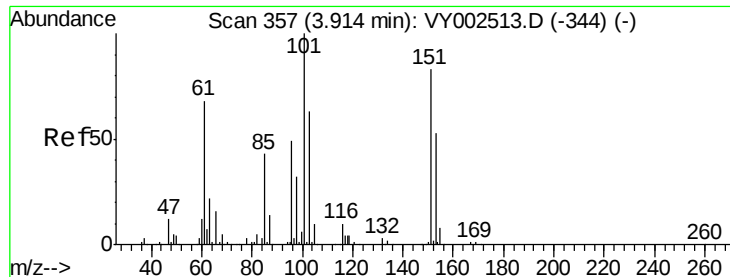


#8

Diethyl Ether
Concen: 2.784 ug/l
RT: 3.55 min Scan# 298
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.3	46.2	138.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.773 ug/l

RT: 3.93 min Scan# 359

Delta R.T. 0.01 min

Lab File: VY002606.D

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Instrument :

MSVOA_Y

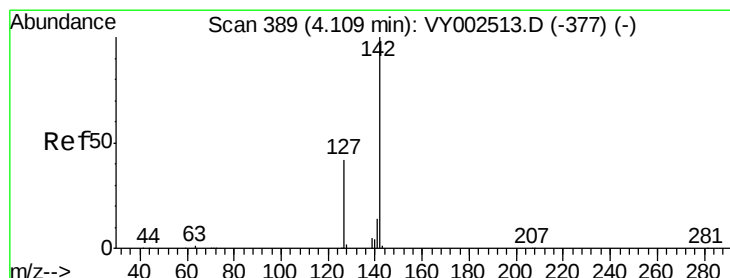
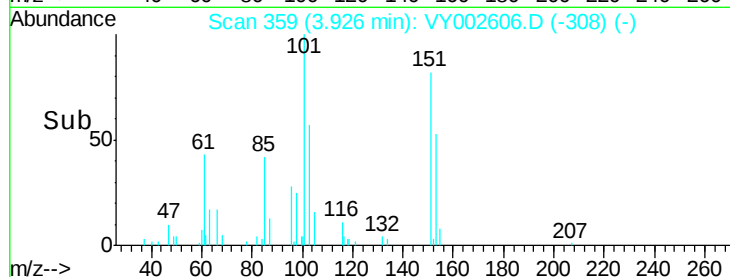
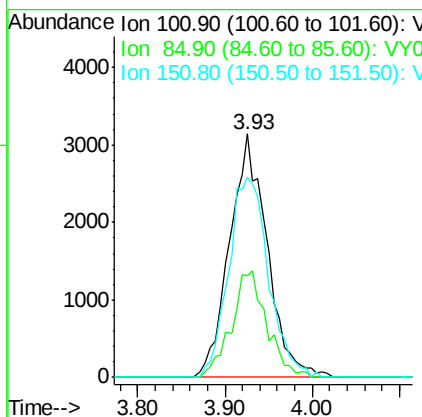
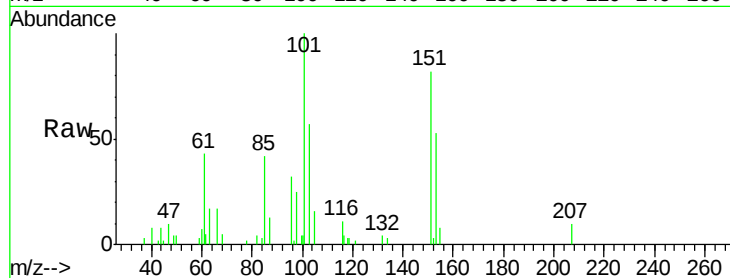
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	101	Resp:	9340
Ion Ratio	Lower	Upper	
101	100		
85	41.5	33.4	50.2
151	87.7	66.8	100.2

Manual Integrations
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#10

Methyl Iodide

Concen: 2.347 ug/l

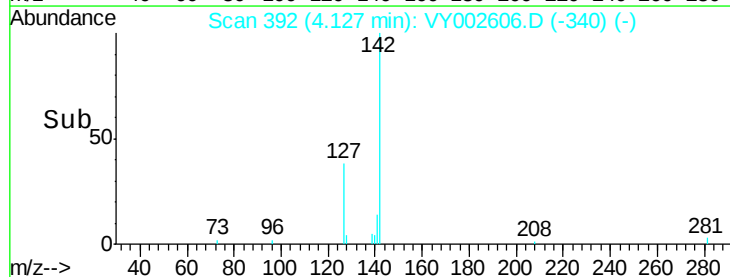
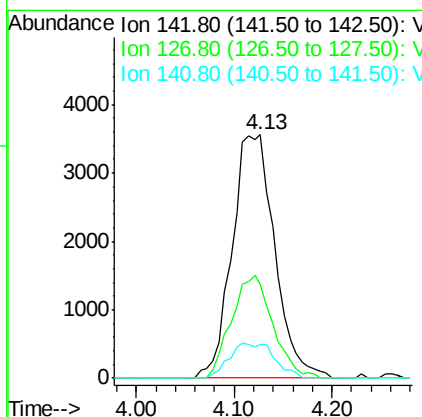
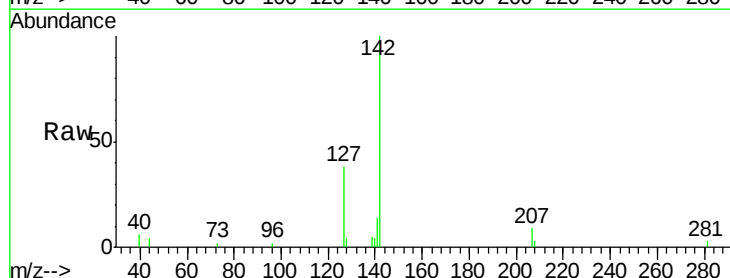
RT: 4.13 min Scan# 392

Delta R.T. 0.02 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	142	Resp:	10772
Ion Ratio	Lower	Upper	
142	100		
127	40.6	33.7	50.5
141	15.1	11.4	17.0





#11

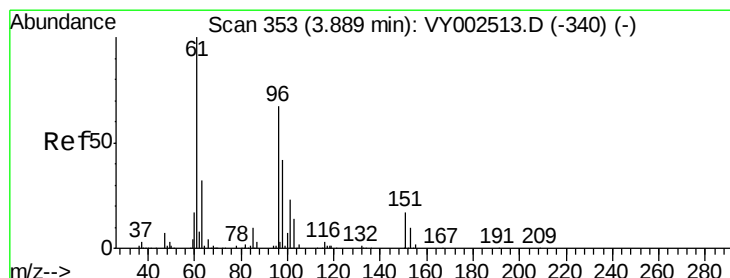
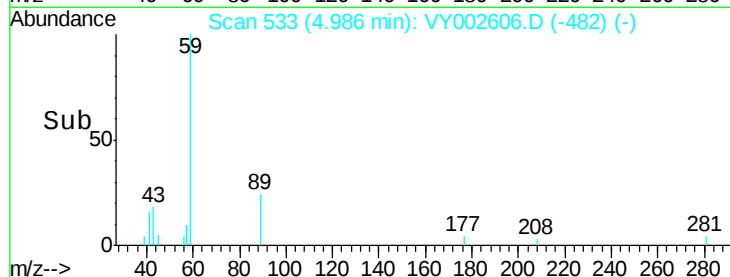
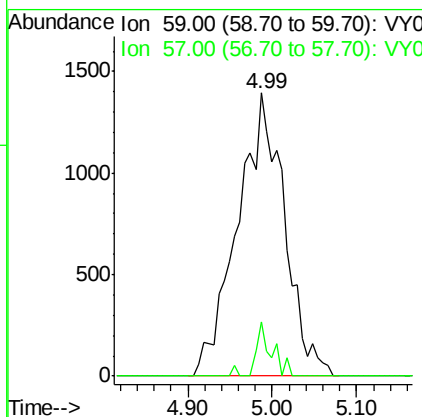
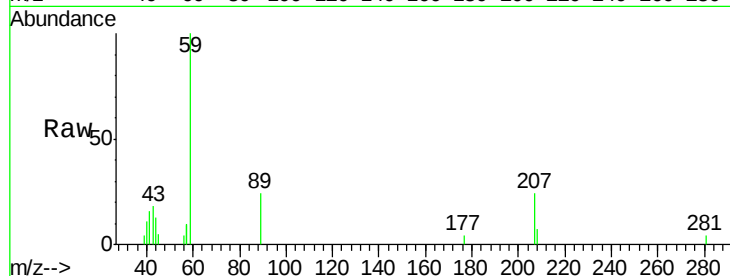
Tert butyl alcohol
Concen: 16.162 ug/l
RT: 4.99 min Scan# 533
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.0	7.8	11.6#

Manual Integrations
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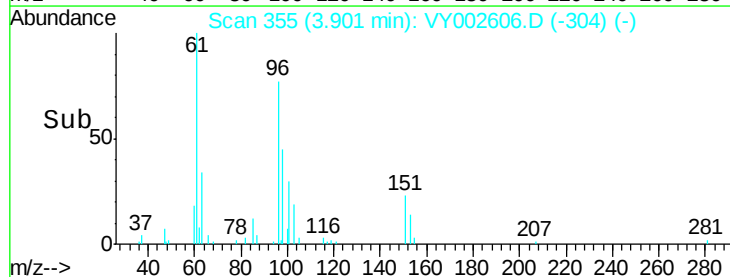
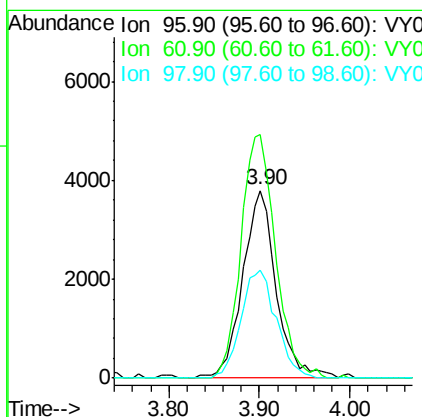
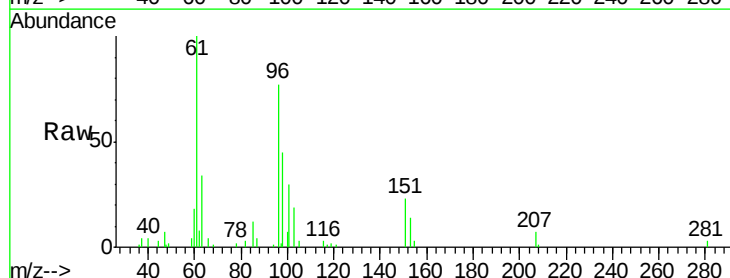
MMDadoda
5/7/2020 10:35:26 AM

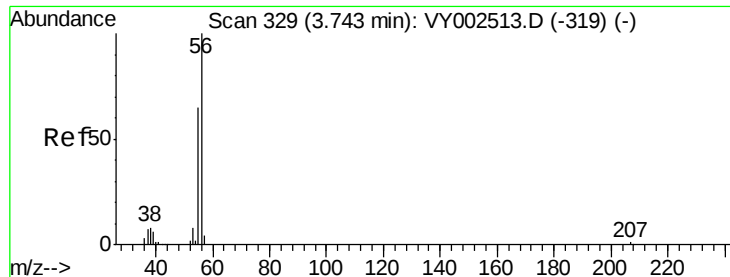


#12

1,1-Dichloroethene
Concen: 2.961 ug/l
RT: 3.90 min Scan# 355
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.7	118.8	178.2
98	57.7	49.6	74.4





#13

Acrolein

Concen: 10.936 ug/l

RT: 3.75 min Scan# 331

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 56 Resp: 2487

Ion Ratio Lower Upper

56 100

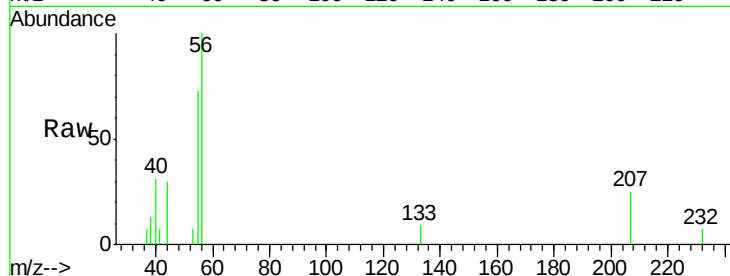
55 69.8 53.8 80.6

Manual Integrations

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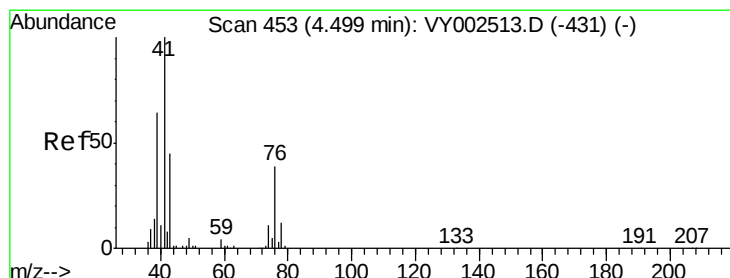
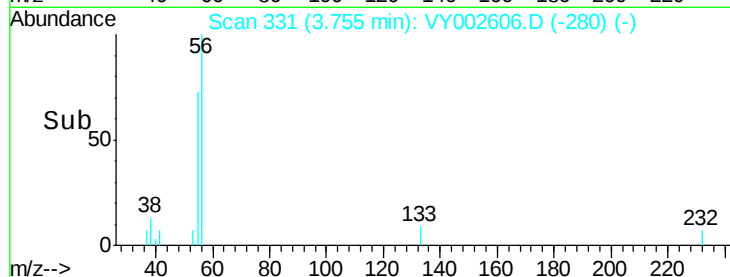
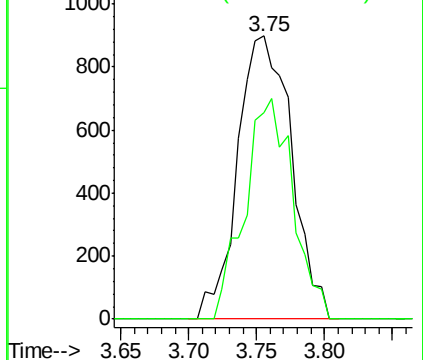
MMDadoda

5/7/2020 10:35:26 AM



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 2.755 ug/l

RT: 4.52 min Scan# 456

Delta R.T. 0.02 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

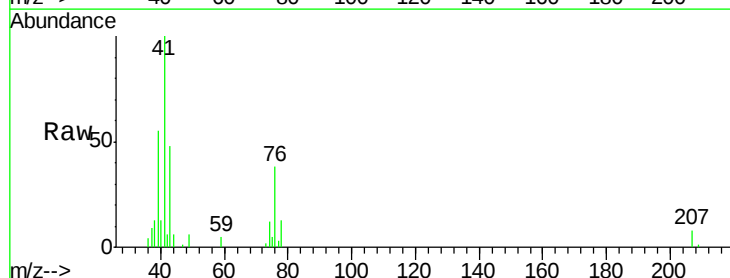
Tgt Ion: 41 Resp: 13138

Ion Ratio Lower Upper

41 100

39 64.4 51.8 77.6

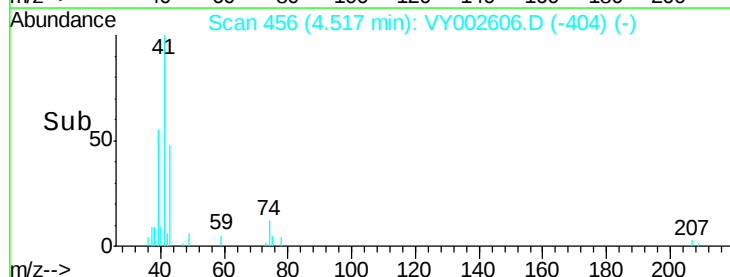
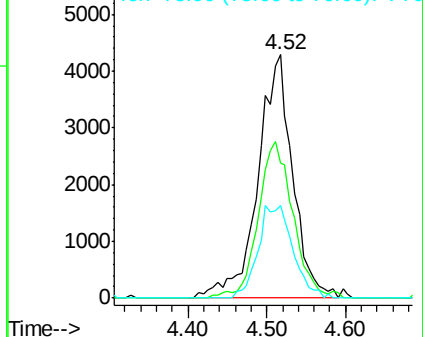
76 38.0 31.7 47.5

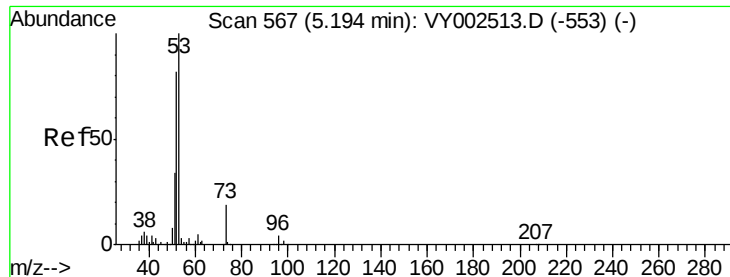


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 13.236 ug/l

RT: 5.21 min Scan# 569

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

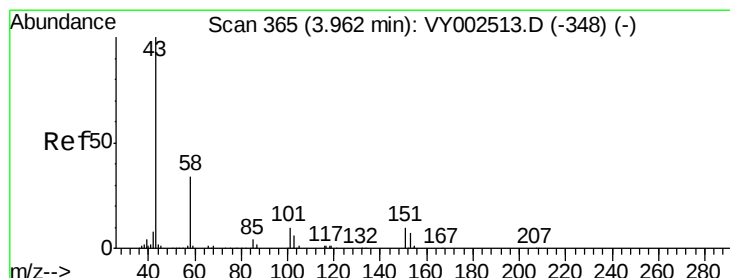
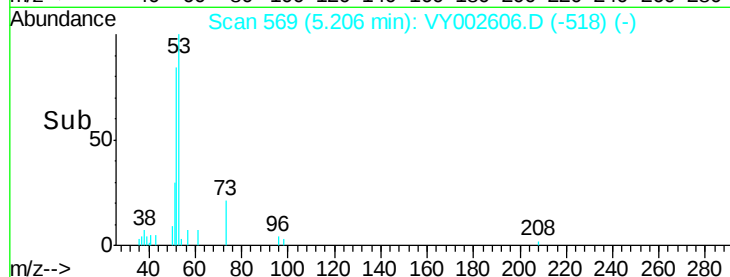
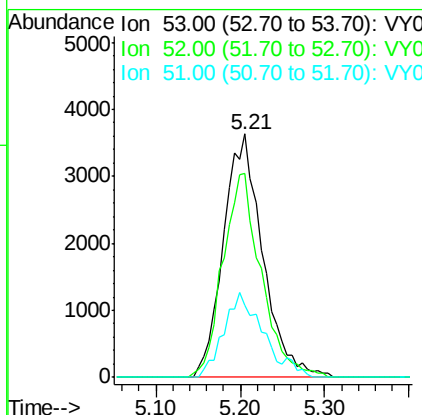
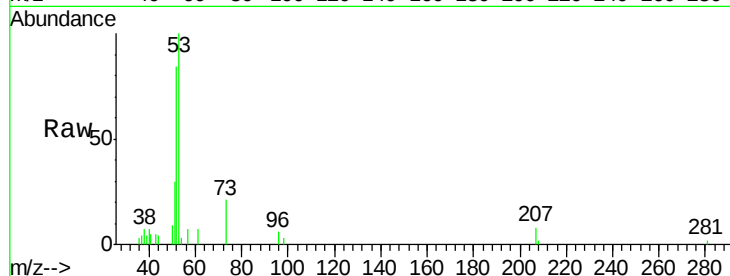
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	53	Resp:	11562
Ion Ratio	Lower	Upper	
53	100		
52	81.9	65.4	98.0
51	32.6	28.7	43.1

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 13.305 ug/l

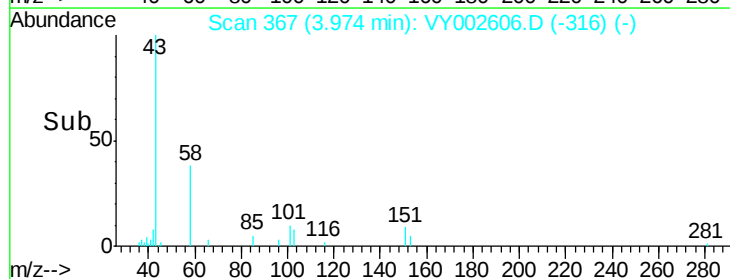
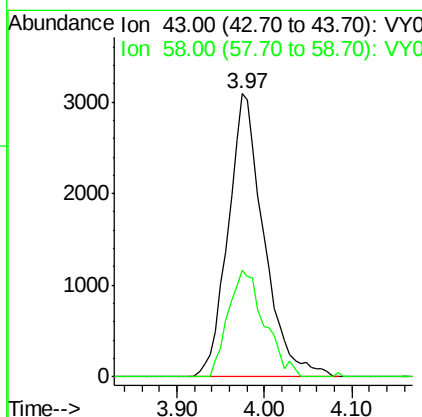
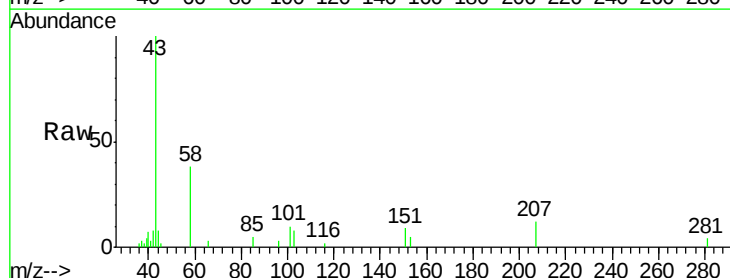
RT: 3.97 min Scan# 367

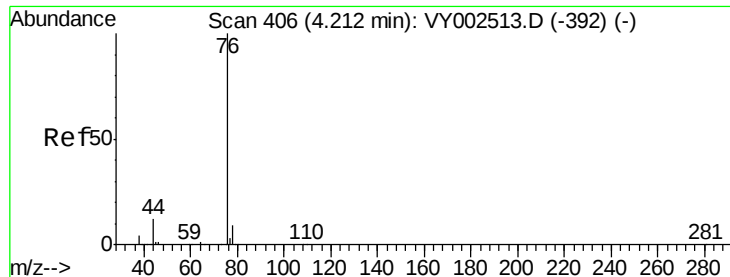
Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	43	Resp:	8777
Ion Ratio	Lower	Upper	
43	100		
58	37.6	26.9	40.3





#17

Carbon Disulfide

Concen: 2.653 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 76 Resp: 26119

Ion Ratio Lower Upper

76 100

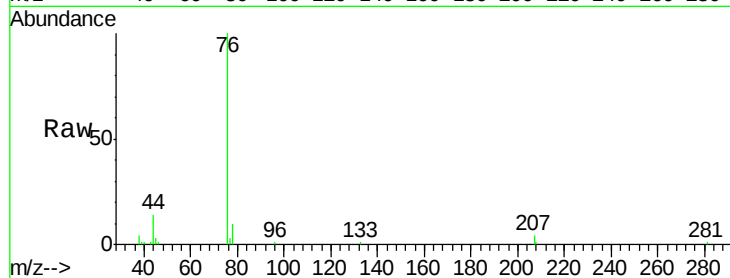
78 10.4 7.4 11.2

Manual Integrations

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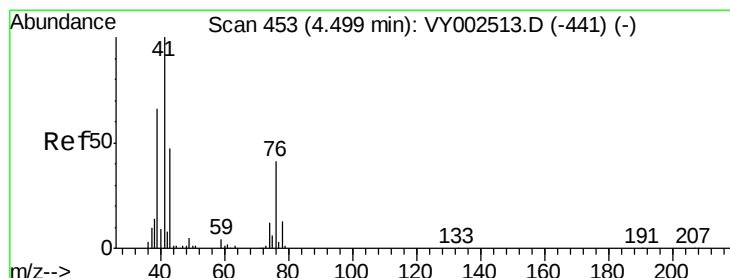
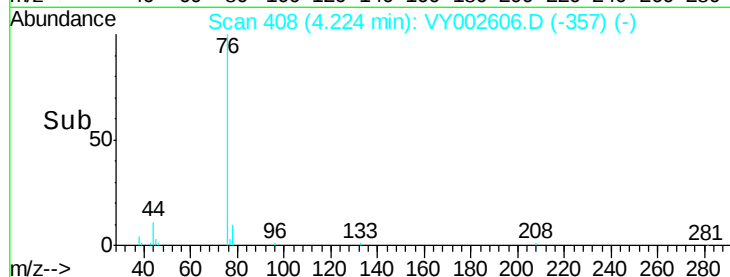
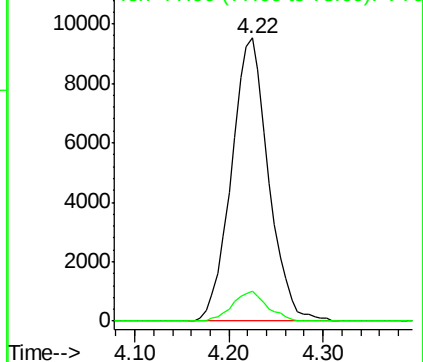
MMDadoda

5/7/2020 10:35:26 AM



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#18

Methyl Acetate

Concen: 3.068 ug/l

RT: 4.50 min Scan# 454

Delta R.T. 0.01 min

Lab File: VY002606.D

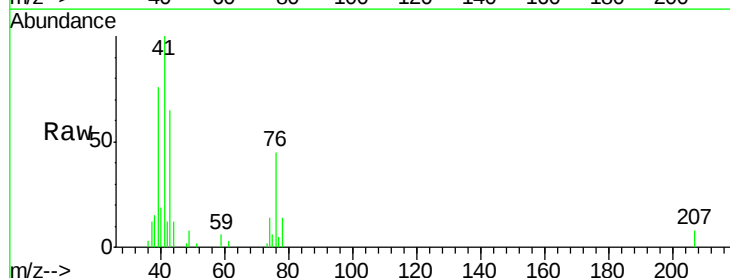
Acq: 06 May 2020 11:42

Tgt Ion: 43 Resp: 6763

Ion Ratio Lower Upper

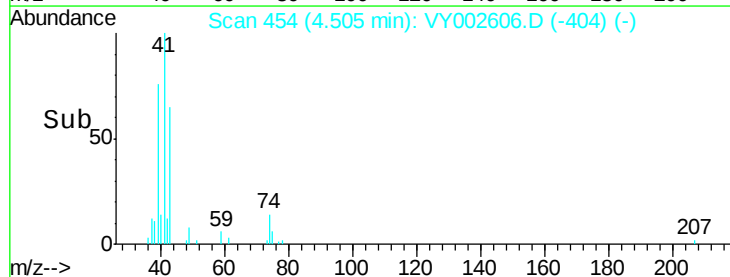
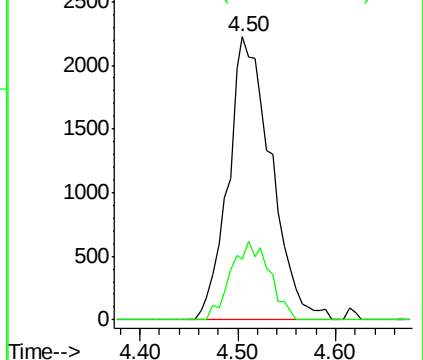
43 100

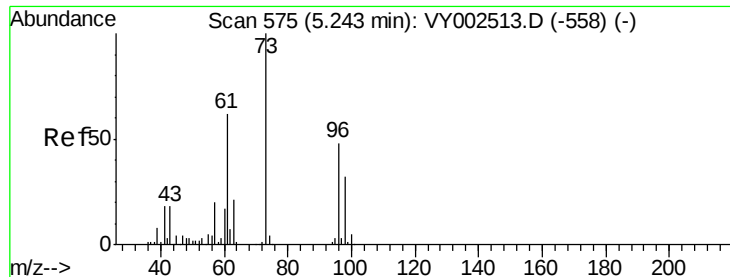
74 24.9 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0





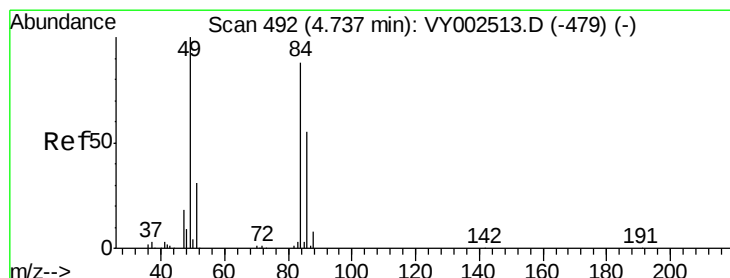
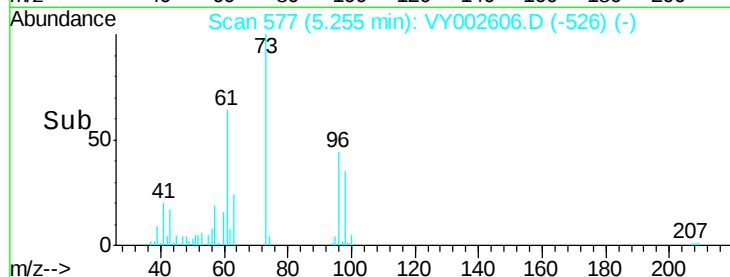
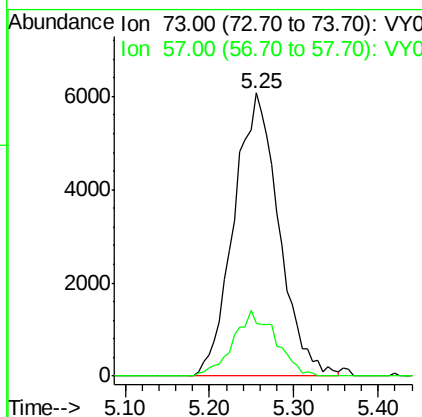
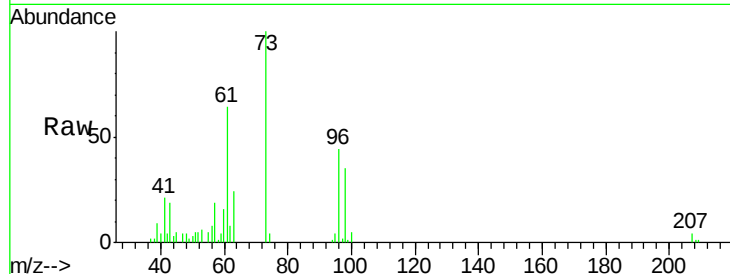
#19
Methvl tert-butvl Ether
Concen: 2.590 ug/l
RT: 5.25 min Scan# 577
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 73 Resp: 22117
Ion Ratio Lower Upper
73 100
57 18.5 16.3 24.5

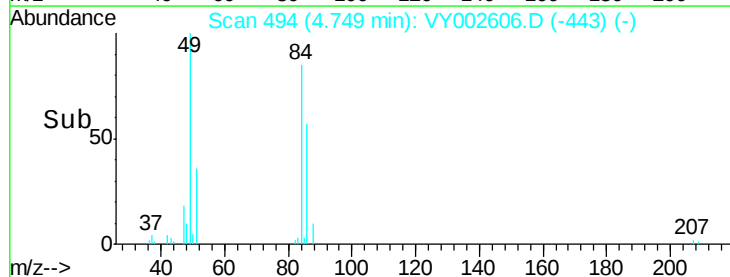
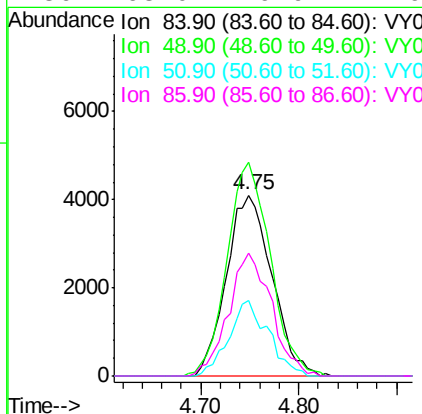
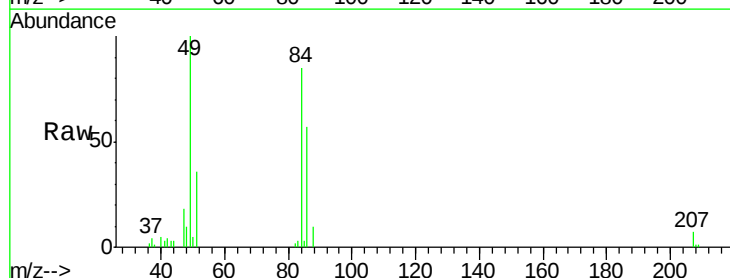
Manual Integrations
APPROVED

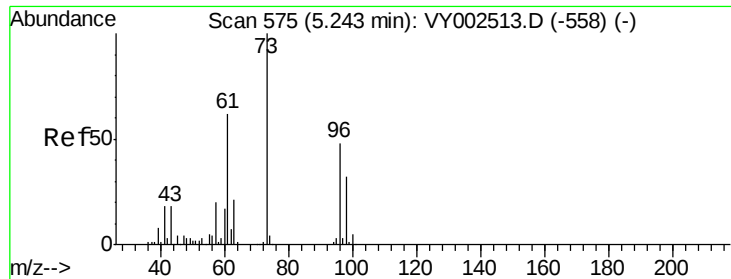
MMDadoda
5/7/2020 10:35:26 AM



#20
Methylene Chloride
Concen: 3.583 ug/l
RT: 4.75 min Scan# 494
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion: 84 Resp: 13219
Ion Ratio Lower Upper
84 100
49 118.3 90.5 135.7
51 42.1 28.3 42.5
86 68.0 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 2.787 ug/l

RT: 5.26 min Scan# 578

Delta R.T. 0.02 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

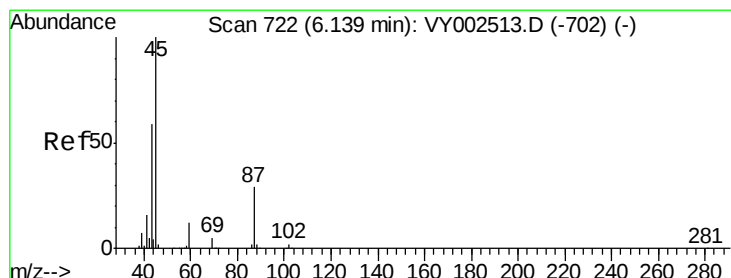
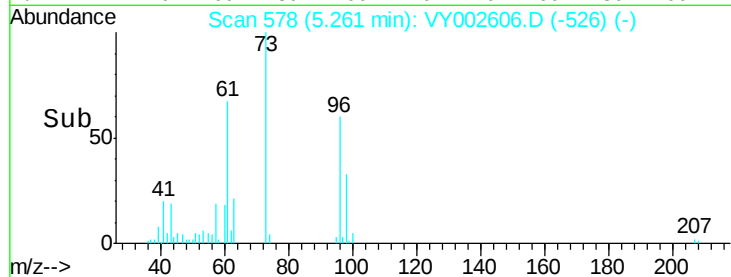
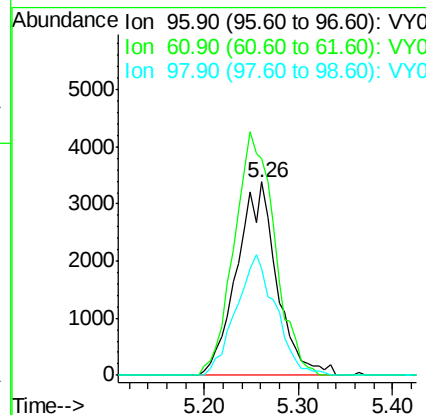
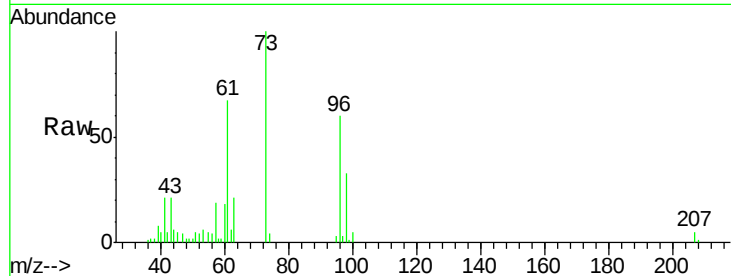
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	96	Resp:	9967
Ion	Ratio	Lower	Upper
96	100		
61	112.4	102.0	153.0
98	54.9	53.0	79.4

Manual Integrations
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MMDadoda
5/7/2020 10:35:26 AM



#22

Diisopropyl ether

Concen: 2.728 ug/l

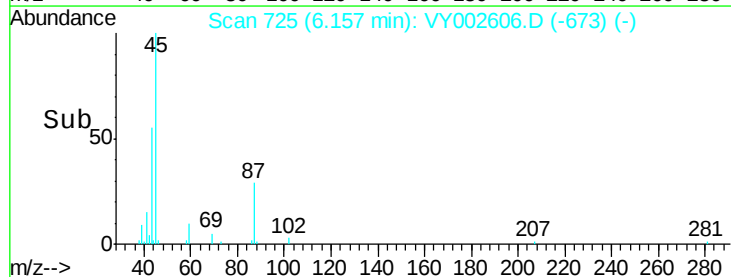
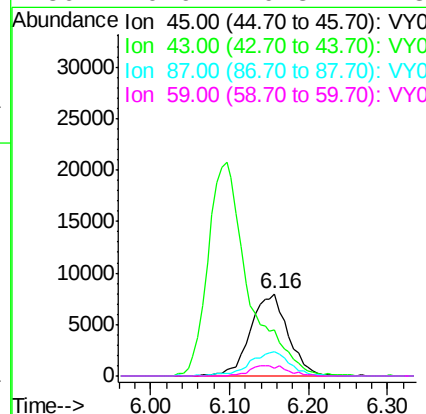
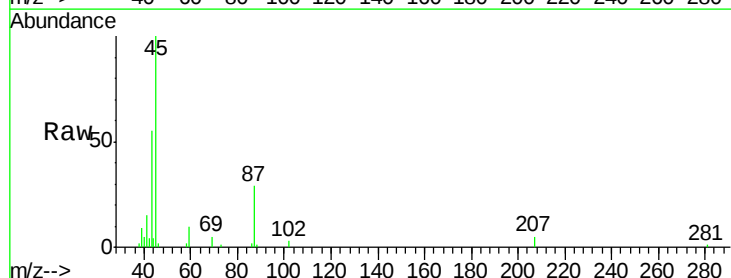
RT: 6.16 min Scan# 725

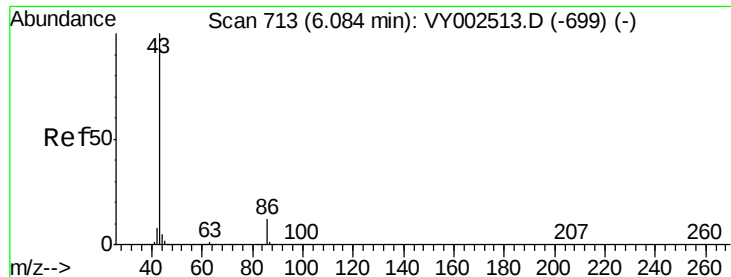
Delta R.T. 0.02 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	45	Resp:	26321
Ion	Ratio	Lower	Upper
45	100		
43	53.4	47.4	71.0
87	29.1	24.0	36.0
59	9.9	9.8	14.8





#23

Vinyl Acetate

Concen: 12.174 ug/l

RT: 6.10 min Scan# 715

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 73868

Ion Ratio Lower Upper

43 100

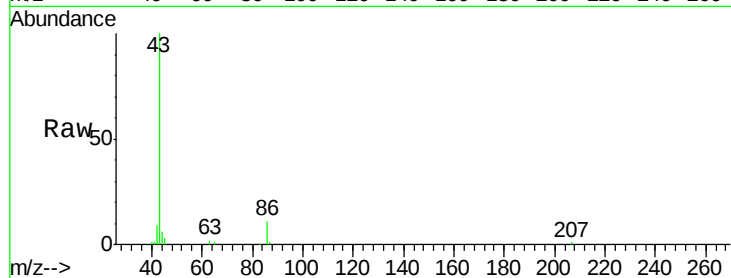
86 10.5 9.8 14.6

Manual Integrations

APPROVED

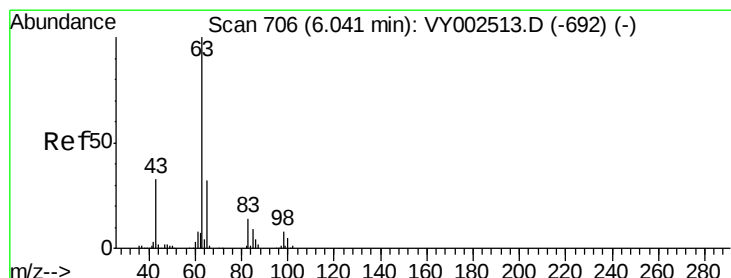
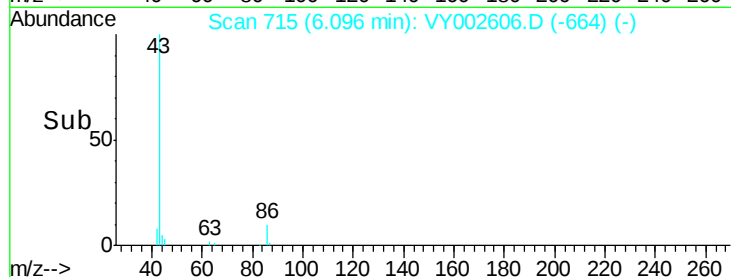
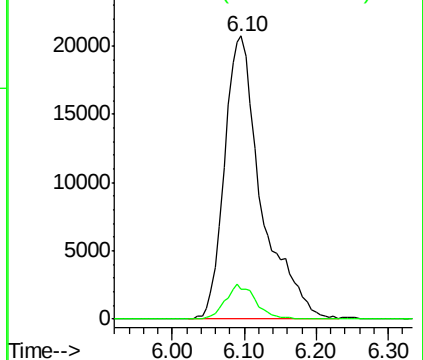
MMDadoda

5/7/2020 10:35:26 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 2.788 ug/l

RT: 6.05 min Scan# 708

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

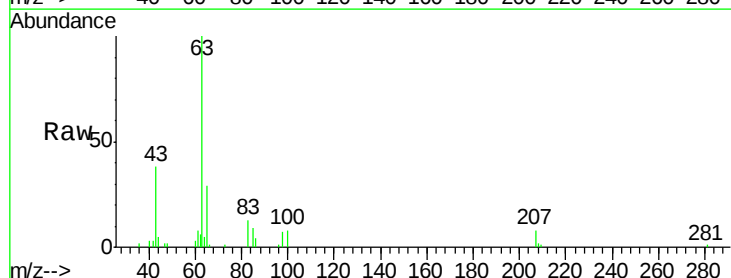
Tgt Ion: 63 Resp: 15913

Ion Ratio Lower Upper

63 100

98 7.2 3.9 11.7

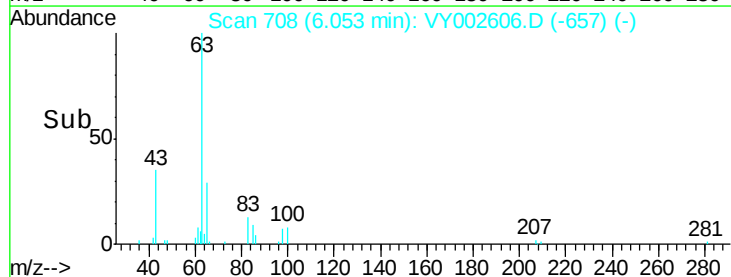
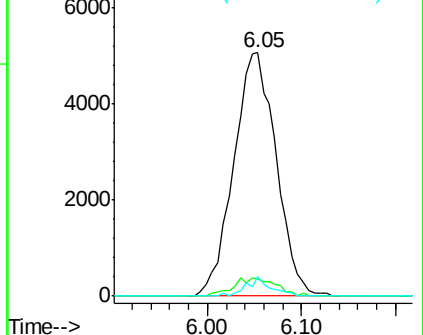
100 7.8 2.4 7.2#



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 13.543 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 14624

Ion Ratio Lower Upper

43 100

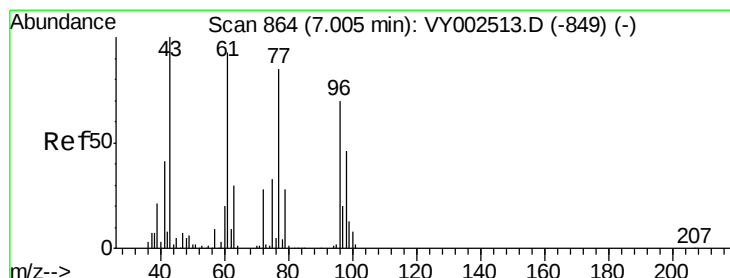
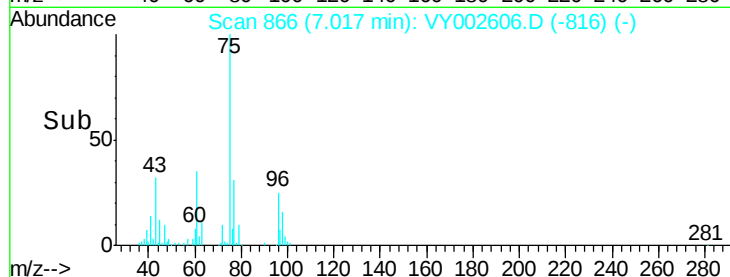
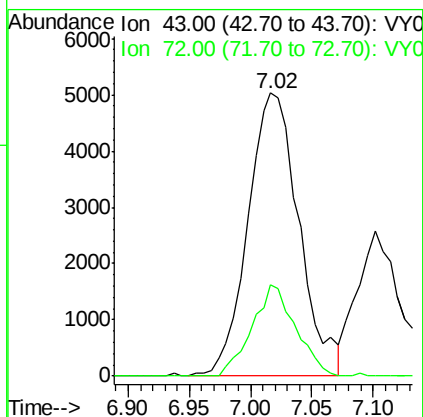
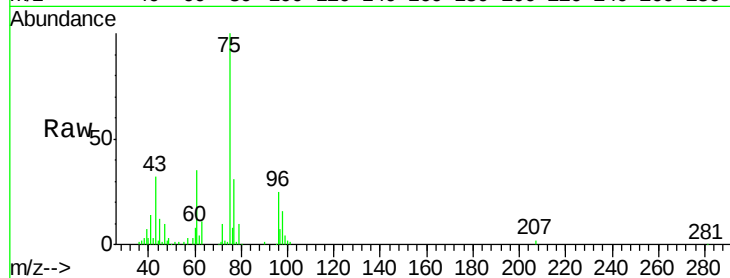
72 32.1 24.1 36.1

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#26

2,2-Dichloropropane

Concen: 2.885 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY002606.D

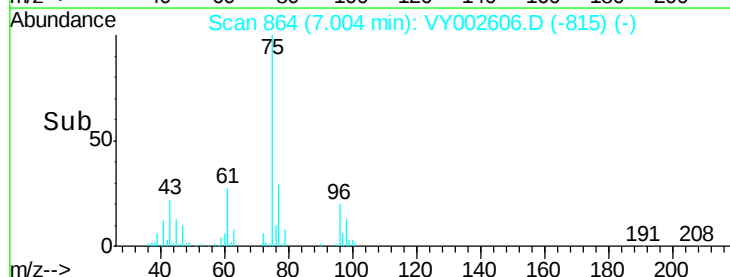
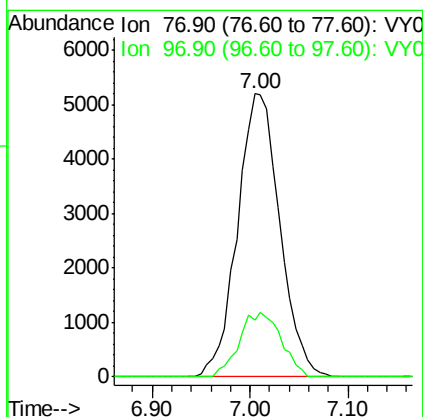
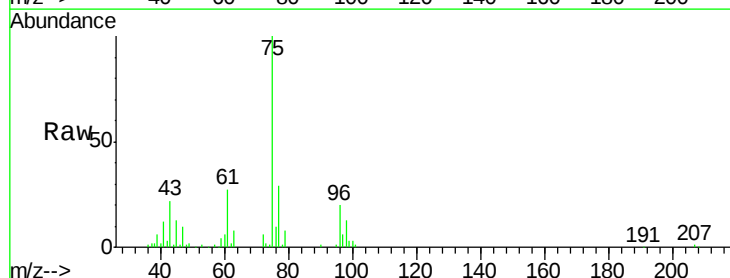
Acq: 06 May 2020 11:42

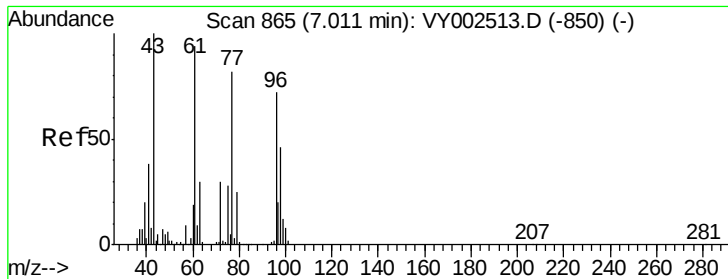
Tgt Ion: 77 Resp: 15650

Ion Ratio Lower Upper

77 100

97 22.4 11.9 35.5





#27

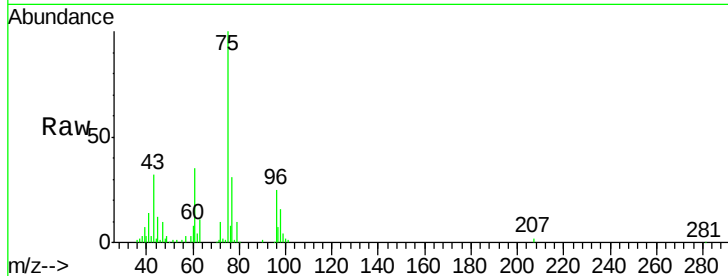
cis-1,2-Dichloroethene
Concen: 2.768 ug/l
RT: 7.02 min Scan# 866
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

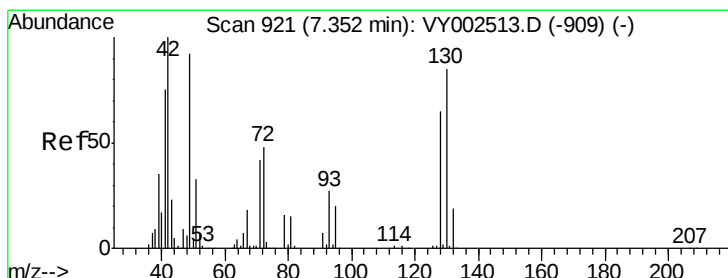
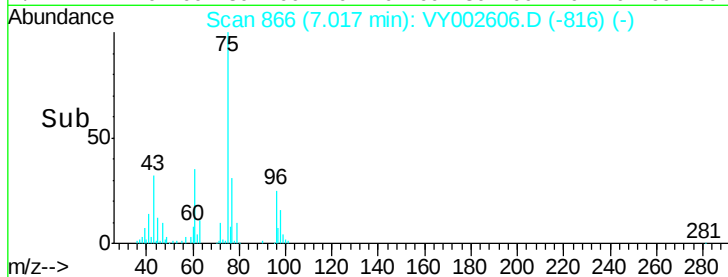
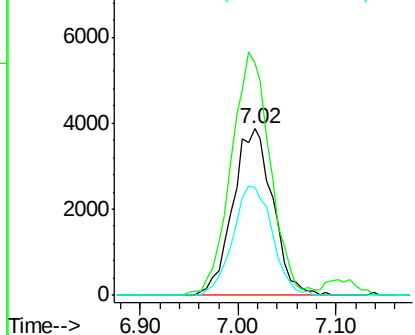
Tot Ion	Ratio	Lower	Upper
96	100		
61	143.2	0.0	266.6
98	64.6	0.0	129.2

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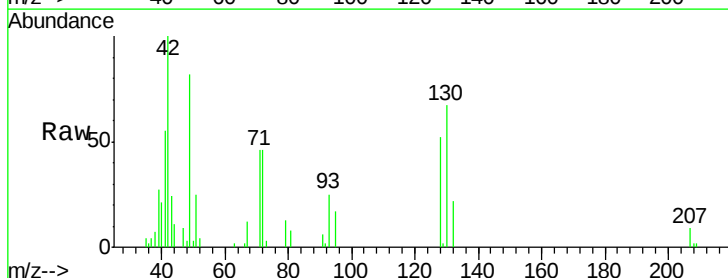
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



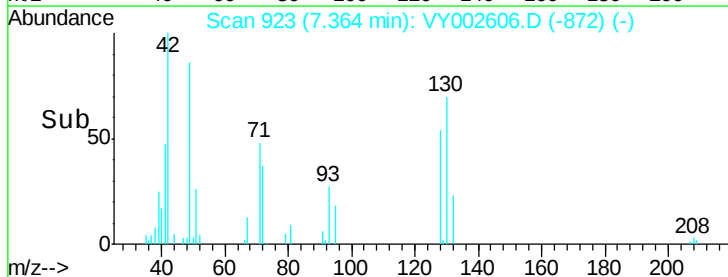
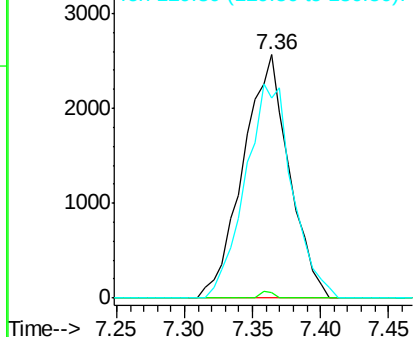
#28

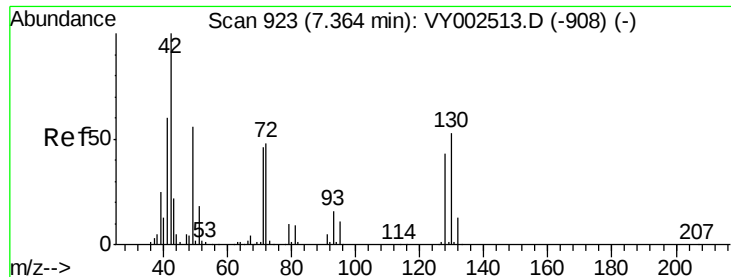
Bromochloromethane
Concen: 2.588 ug/l
RT: 7.36 min Scan# 923
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.8
130	90.3	72.5	108.7



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): VY0
Ion 129.80 (129.50 to 130.50): VY0





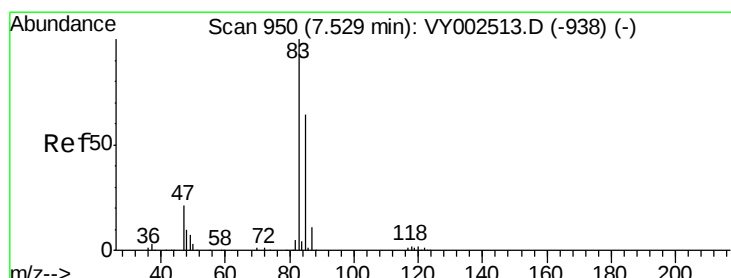
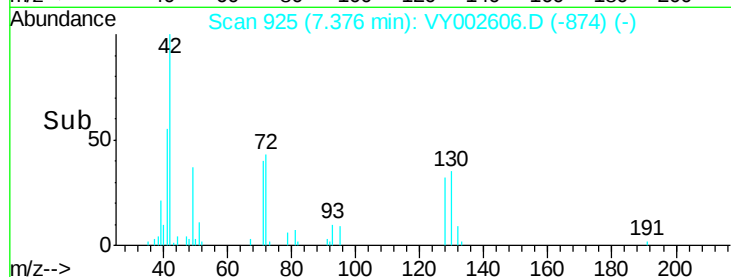
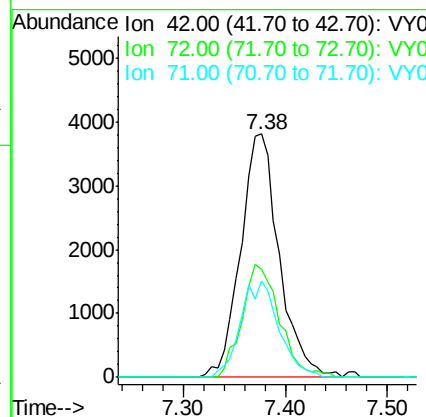
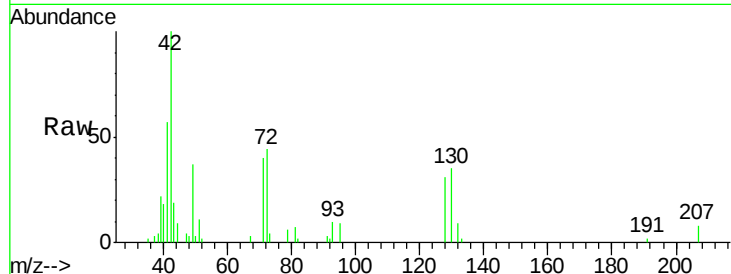
#29
Tetrahydrofuran
Concen: 14.012 ug/l
RT: 7.38 min Scan# 925
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.4	56.2
71	39.4	35.0	52.4

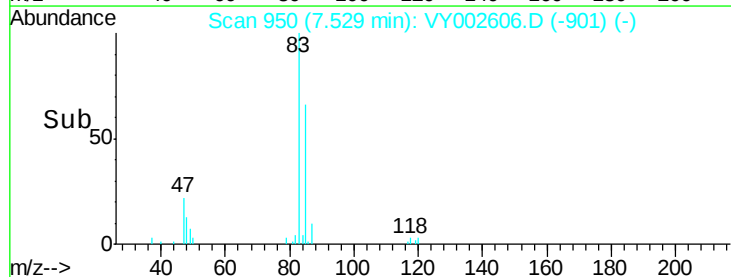
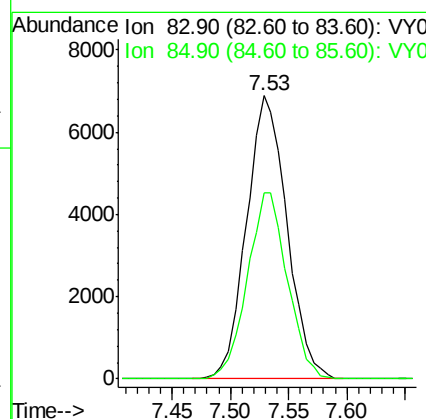
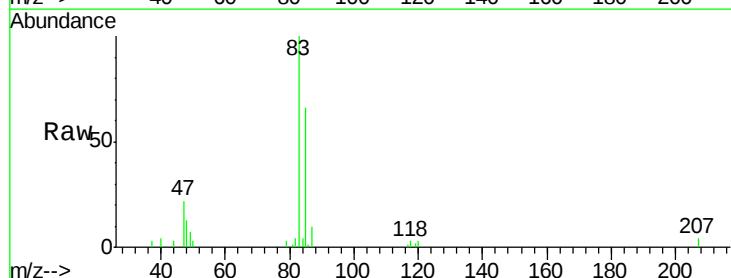
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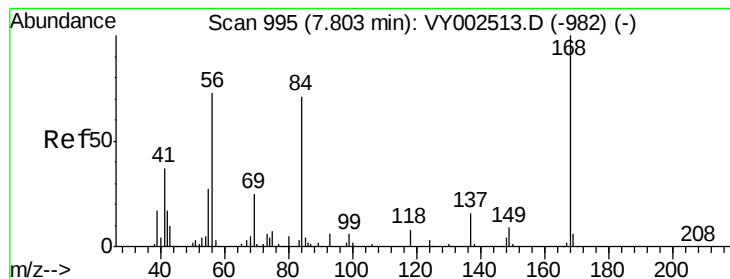
MMDadoda
5/7/2020 10:35:26 AM



#30
Chloroform
Concen: 2.805 ug/l
RT: 7.53 min Scan# 950
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.5	77.3





#31

Cyclohexane

Concen: 3.593 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 56 Resp: 20640

Ion Ratio Lower Upper

56 100

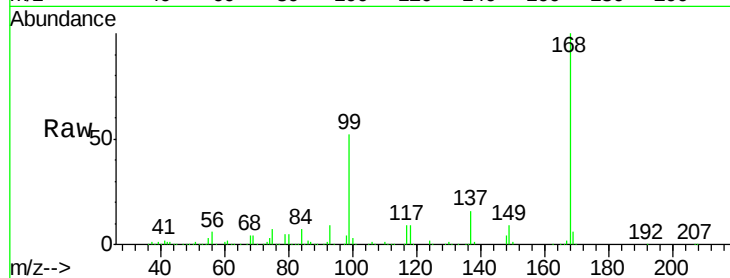
69 73.0 27.6 41.4#

84 123.4 77.7 116.5#

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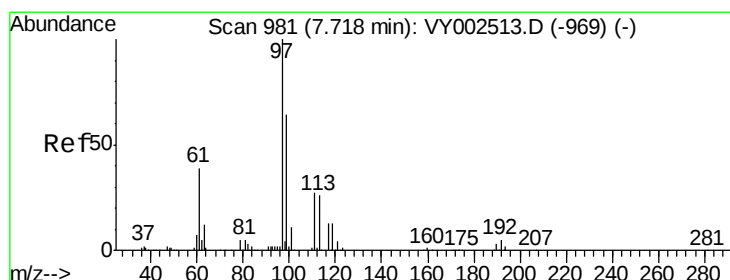
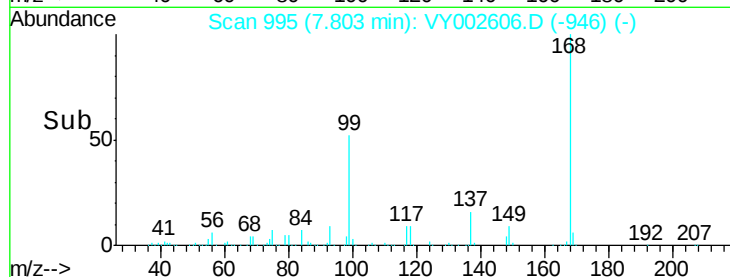
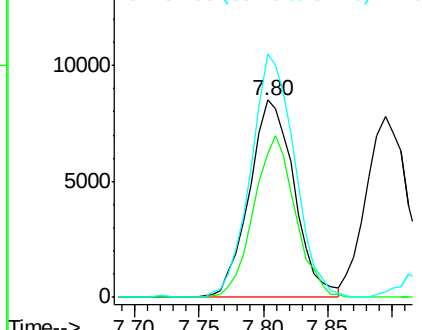
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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 2.654 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

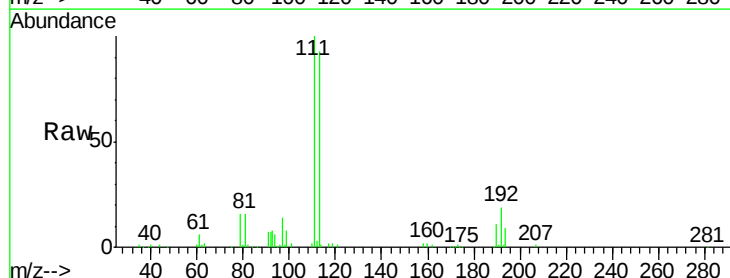
Tgt Ion: 97 Resp: 14637

Ion Ratio Lower Upper

97 100

99 62.1 51.9 77.9

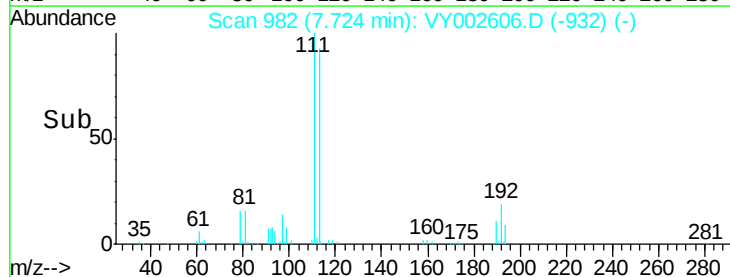
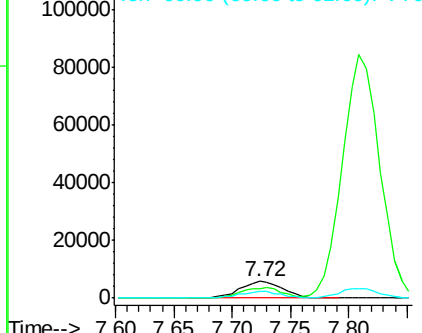
61 38.9 31.0 46.6

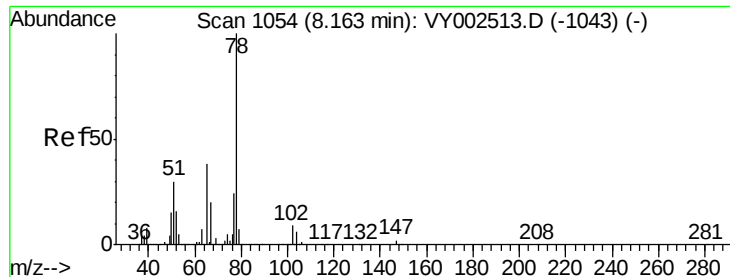


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0





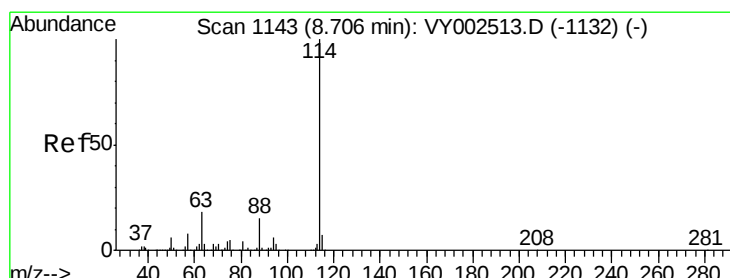
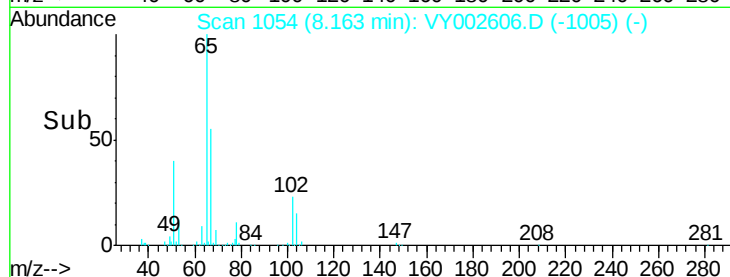
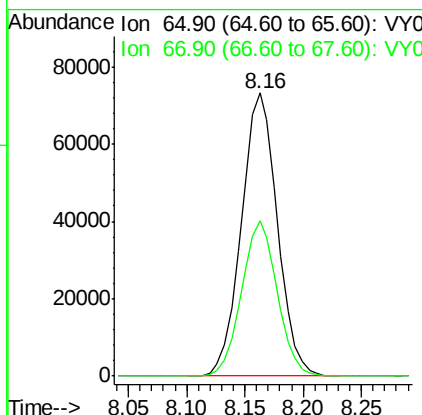
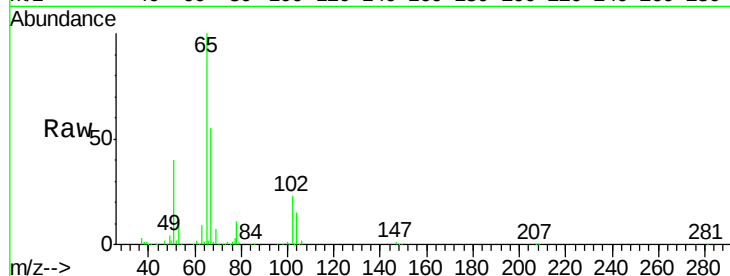
#33
 1,2-Dichloroethane-d4
 Concen: 49.282 ug/l
 RT: 8.16 min Scan# 1054
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.4	0.0	107.2	

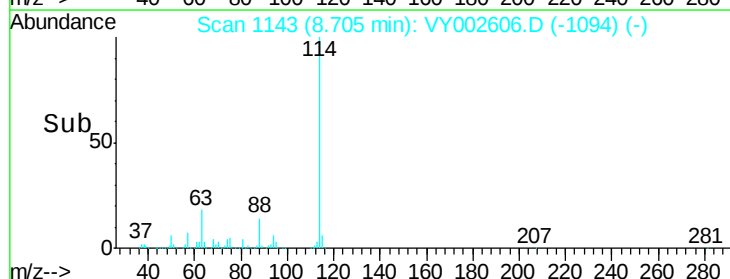
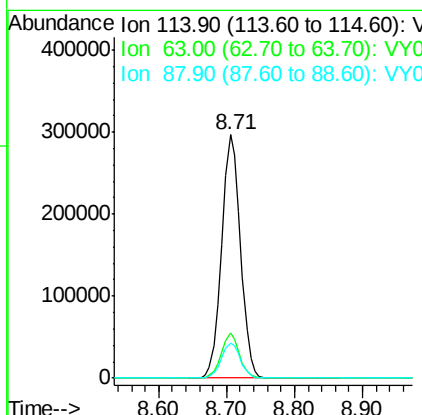
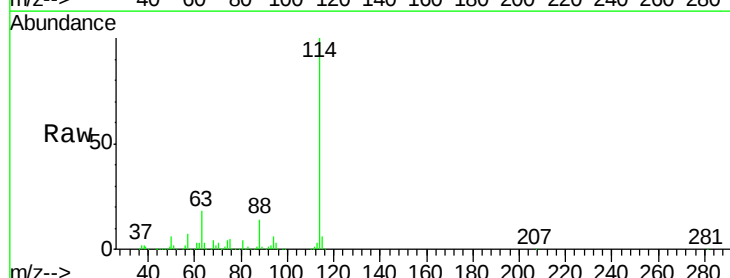
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.4	0.0	36.4	
88	14.3	0.0	29.6	





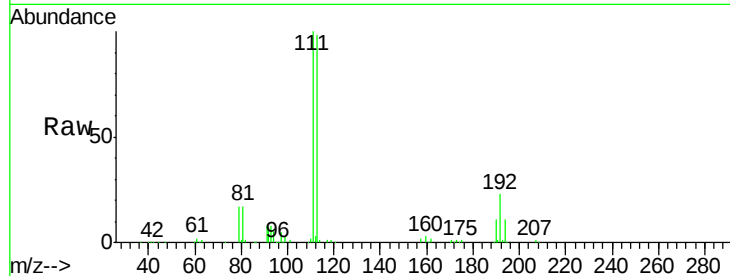
#35
Dibromofluoromethane
Concen: 50.958 ug/l
RT: 7.74 min Scan# 985
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

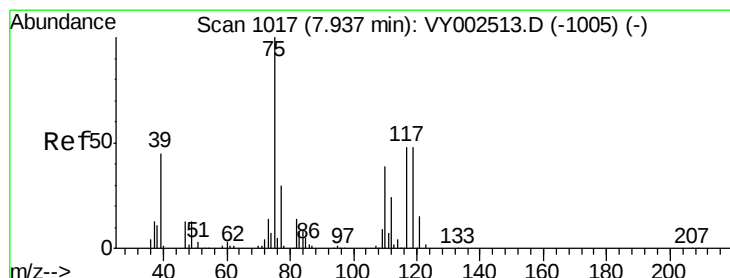
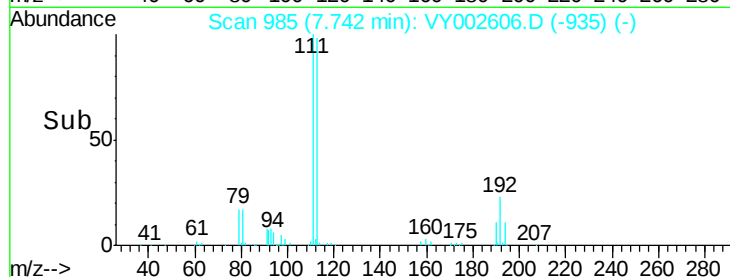
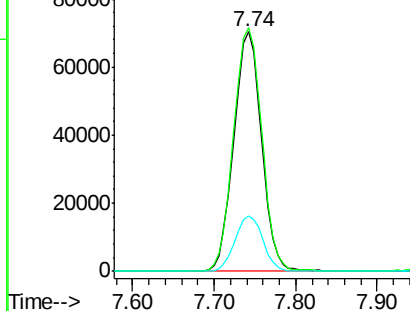
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	23.2	18.2	27.4

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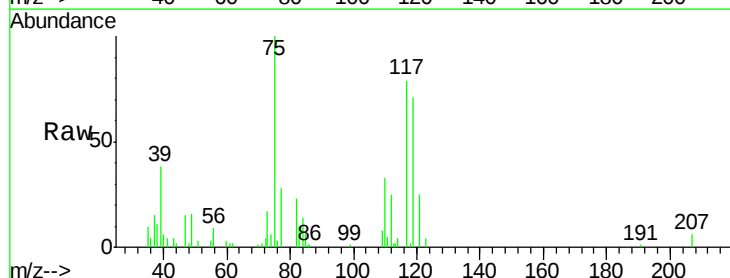


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

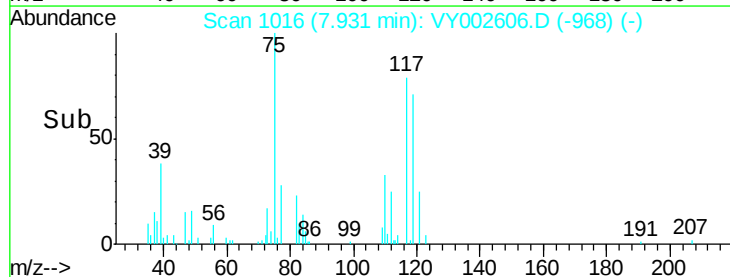
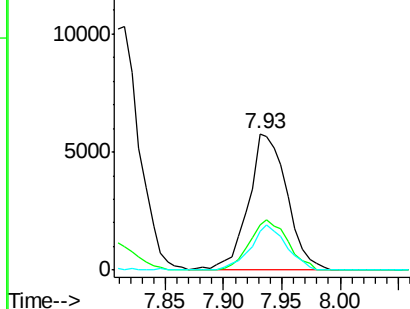


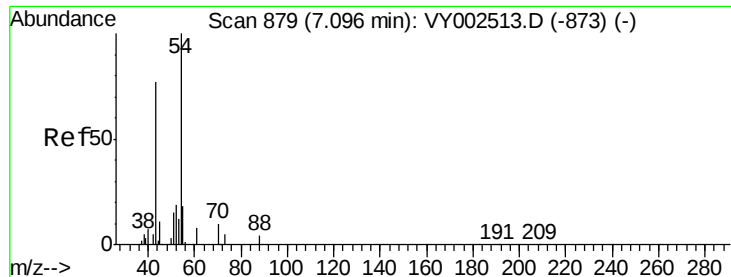
#36
1,1-Dichloropropene
Concen: 2.808 ug/l
RT: 7.93 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	19.1	57.3
77	30.5	24.6	37.0



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VY0





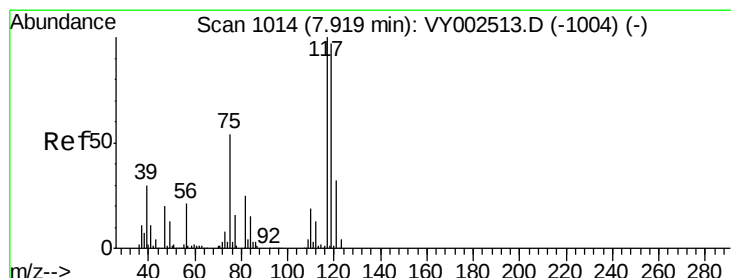
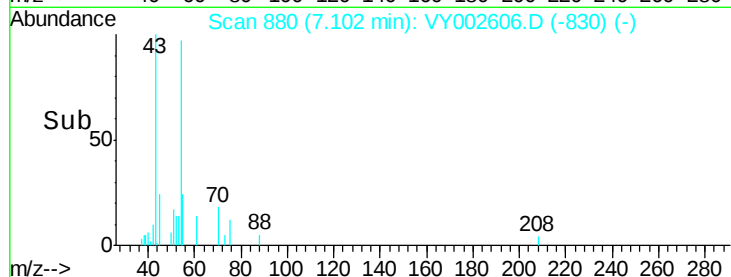
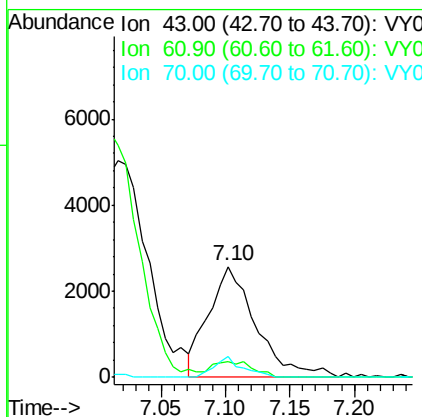
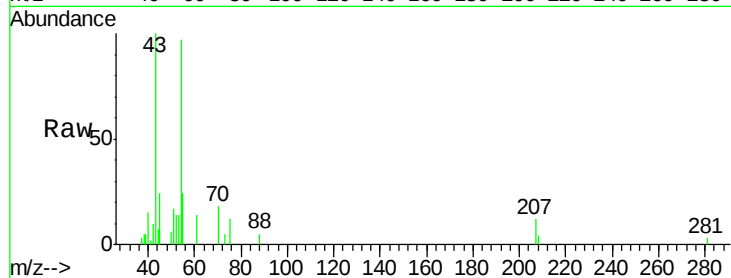
#37
Ethyl Acetate
Concen: 2.717 ug/l
RT: 7.10 min Scan# 880
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	11.6	17.4
70	11.0	9.0	13.6

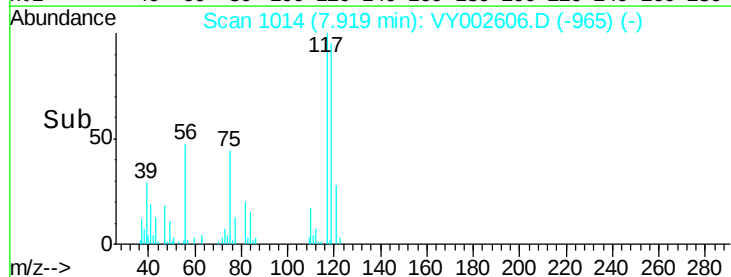
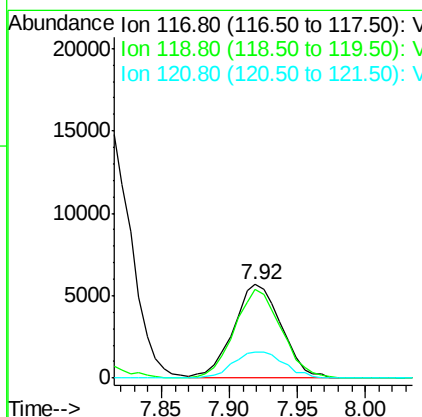
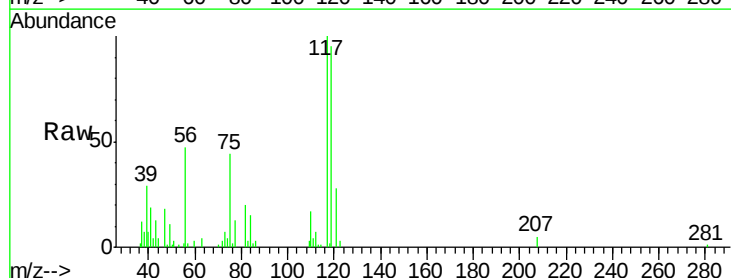
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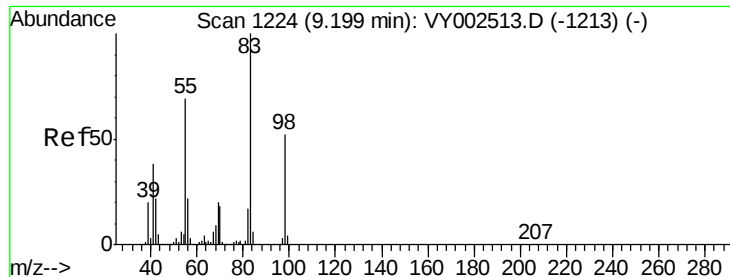
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#38
Carbon Tetrachloride
Concen: 2.683 ug/l
RT: 7.92 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.1	115.7
121	28.1	25.2	37.8





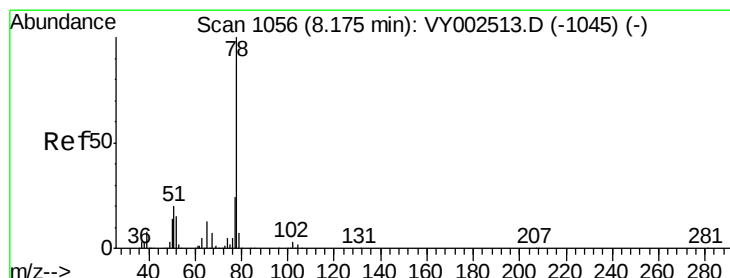
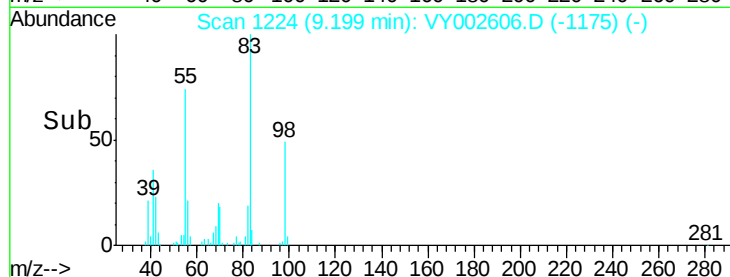
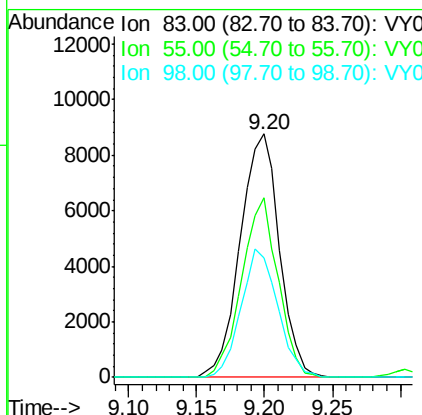
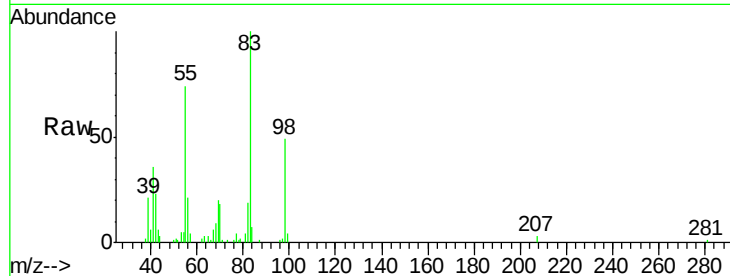
#39
Methvlcvclohexane
Concen: 2.818 ug/l
RT: 9.20 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.8	55.4	83.0
98	49.3	41.3	61.9

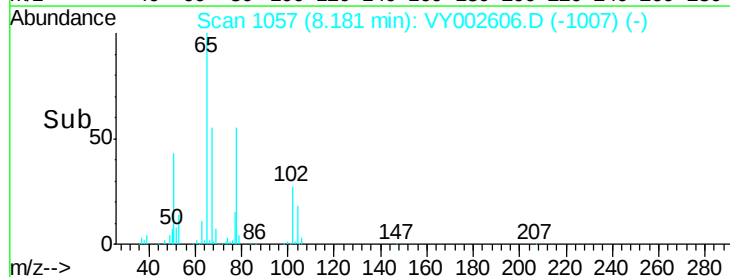
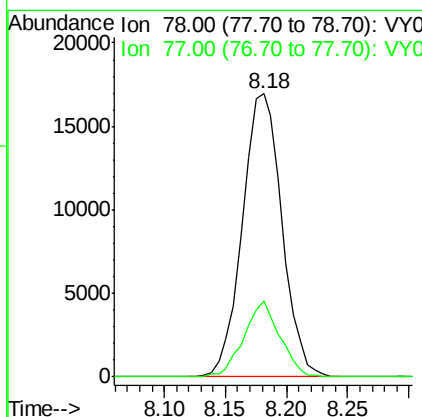
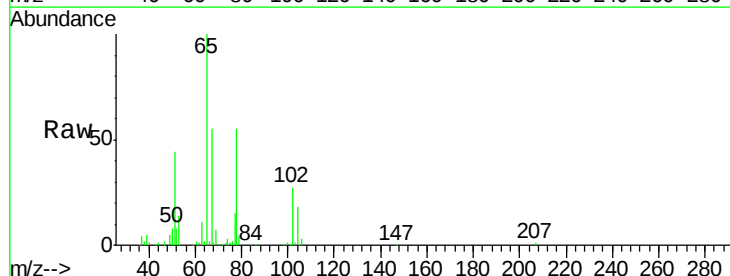
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#40
Benzene
Concen: 2.788 ug/l
RT: 8.18 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.0	19.2	28.8





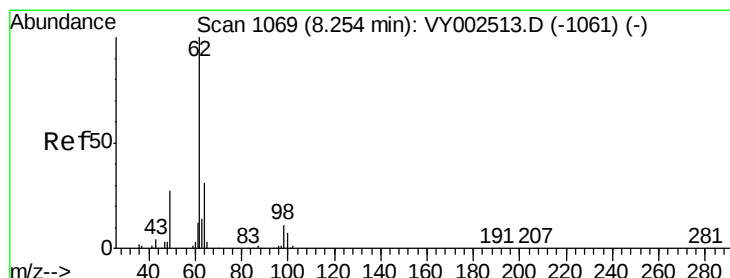
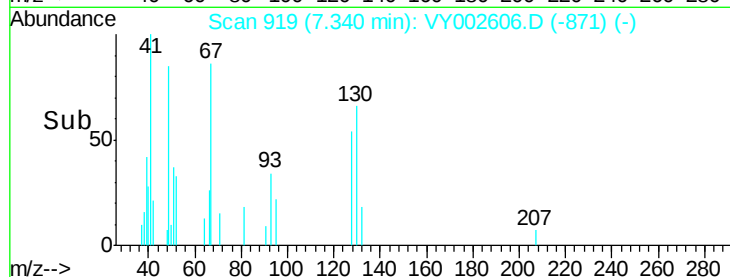
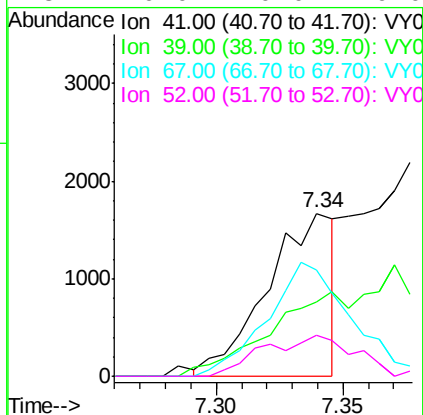
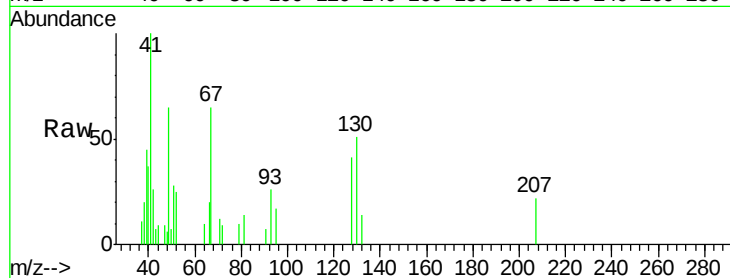
#41
Methacrylonitrile
Concen: 2.385 ug/l m
RT: 7.34 min Scan# 919
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	76.3	83.1	124.7#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

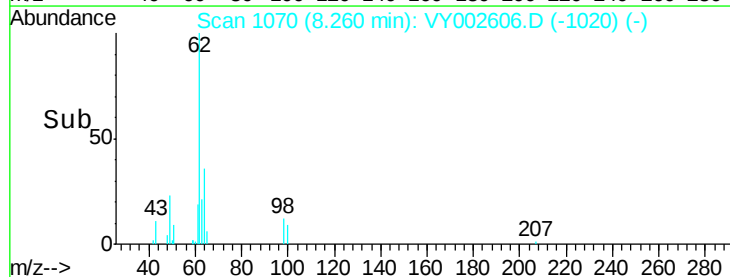
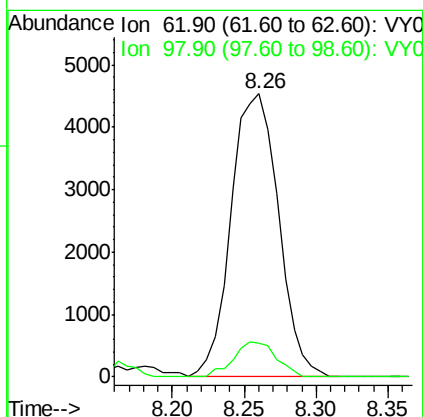
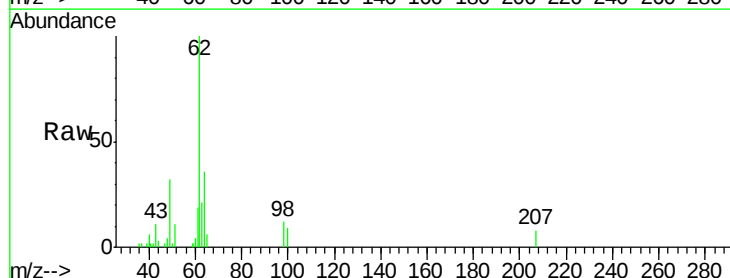
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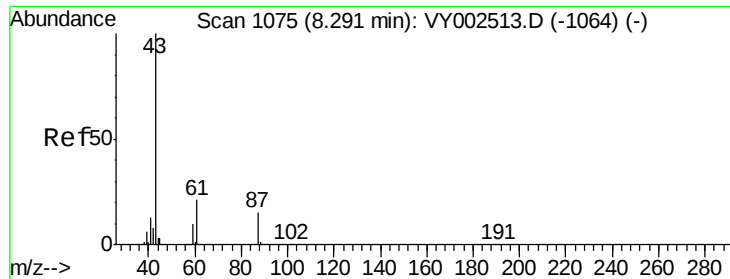
MMDadoda
5/7/2020 10:35:26 AM



#42
1,2-Dichloroethane
Concen: 2.705 ug/l
RT: 8.26 min Scan# 1070
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.0





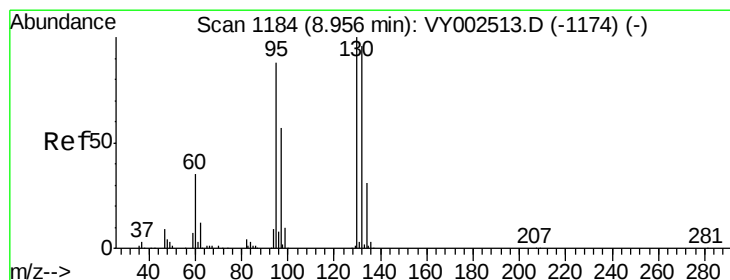
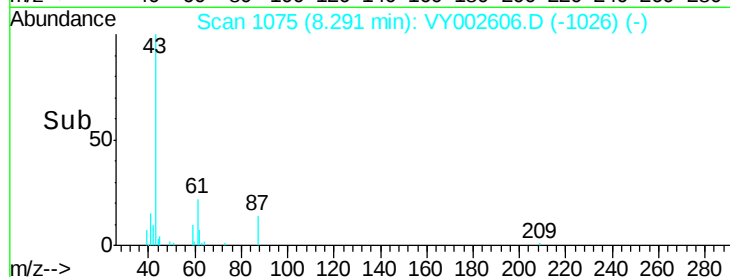
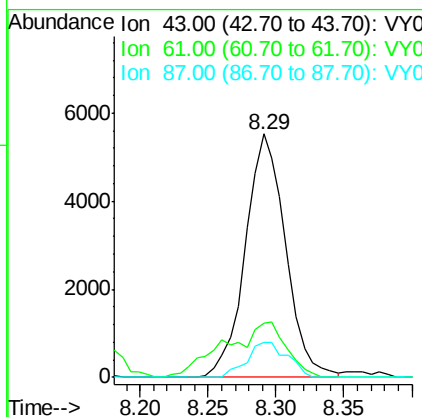
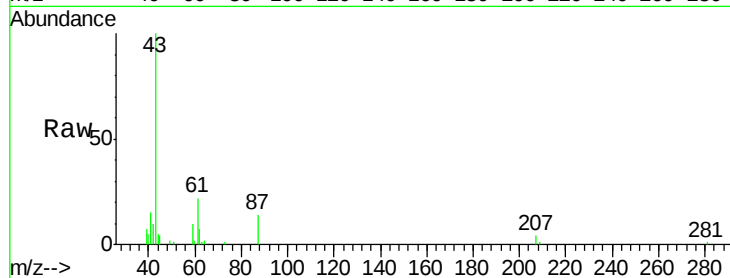
#43
Isopropyl Acetate
Concen: 2.502 ug/l
RT: 8.29 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.5	24.8	37.2#
87	14.4	12.2	18.2

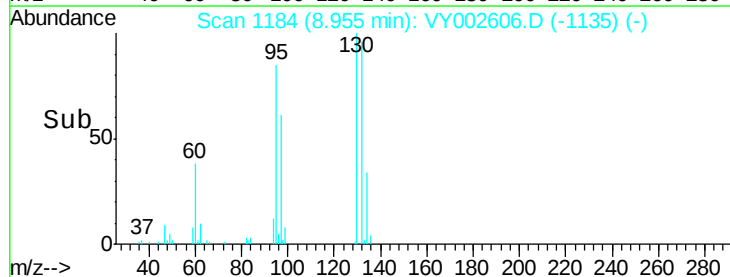
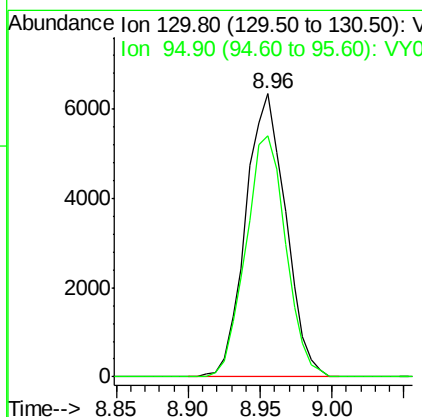
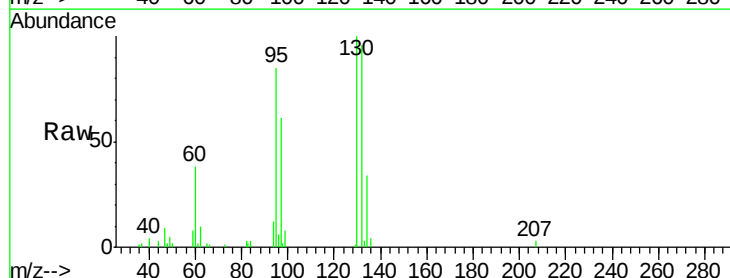
Manual Integrations
APPROVED

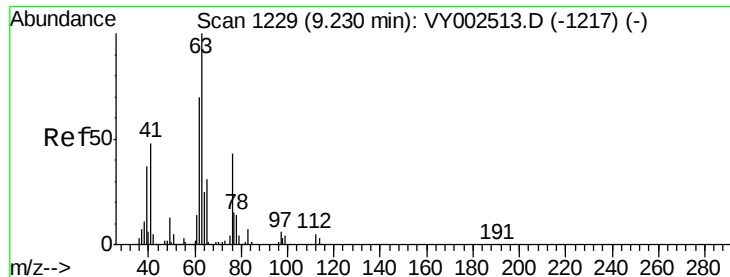
MMDadoda
5/7/2020 10:35:26 AM



#44
Trichloroethene
Concen: 2.853 ug/l
RT: 8.96 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.2	0.0	175.8





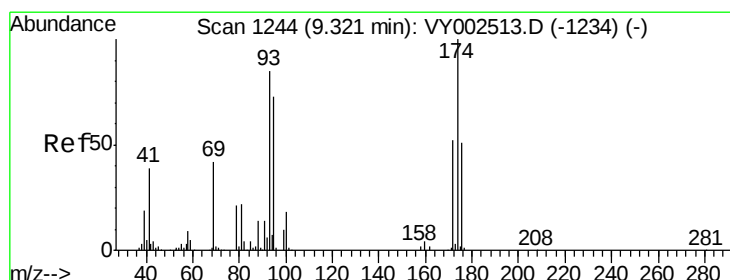
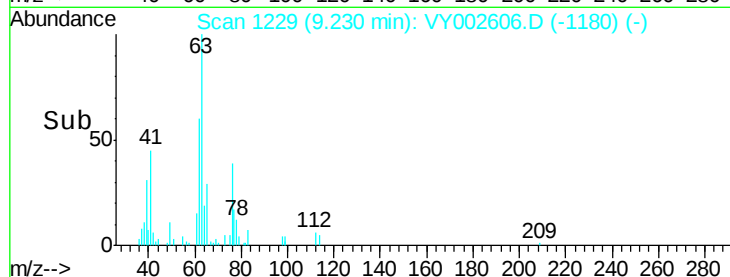
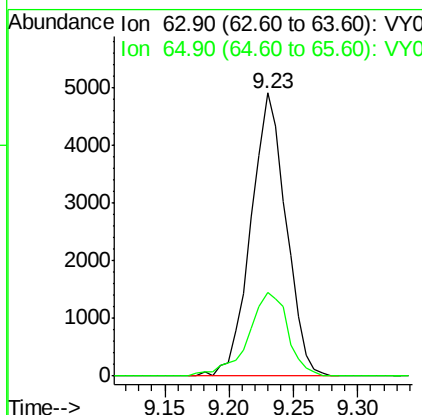
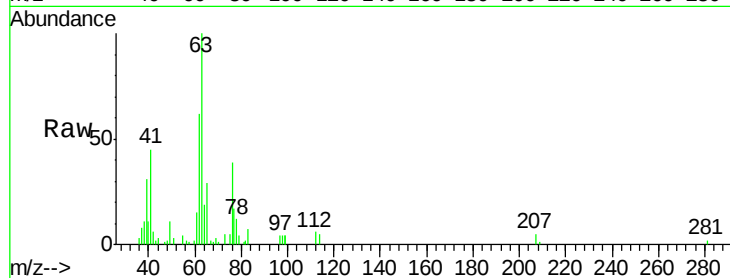
#45
 1,2-Dichloropropane
 Concen: 2.785 ug/l
 RT: 9.23 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.5	36.7

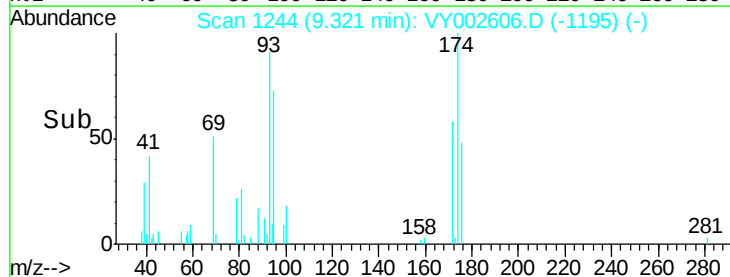
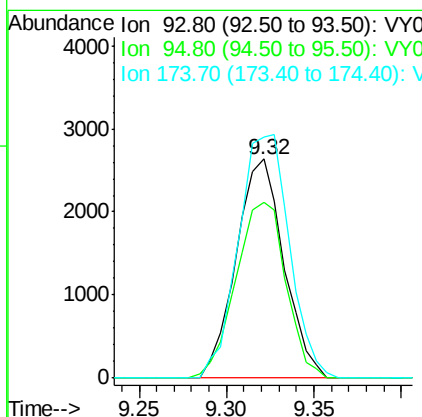
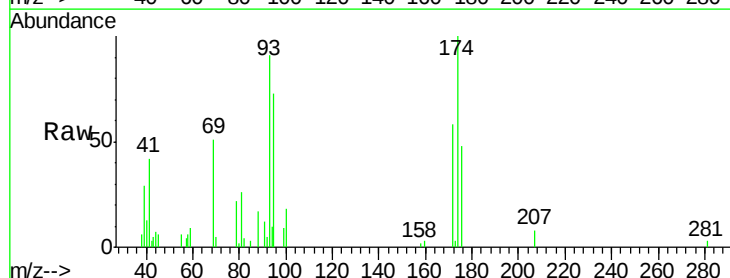
Manual Integrations
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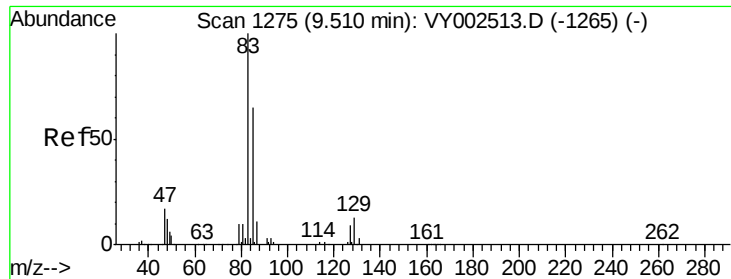
MMDadoda
 5/7/2020 10:35:26 AM



#46
 Dibromomethane
 Concen: 2.622 ug/l
 RT: 9.32 min Scan# 1244
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	67.0	100.4
174	119.3	92.7	139.1





#47

Bromodichloromethane

Concen: 2.662 ug/l

RT: 9.51 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

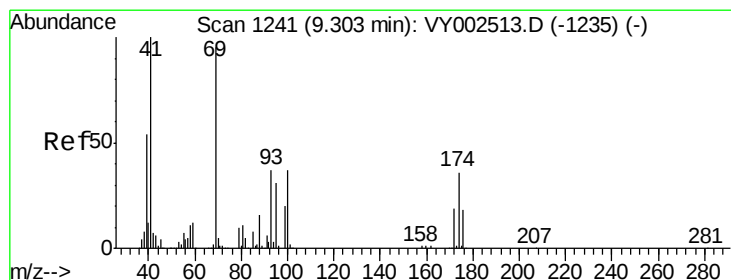
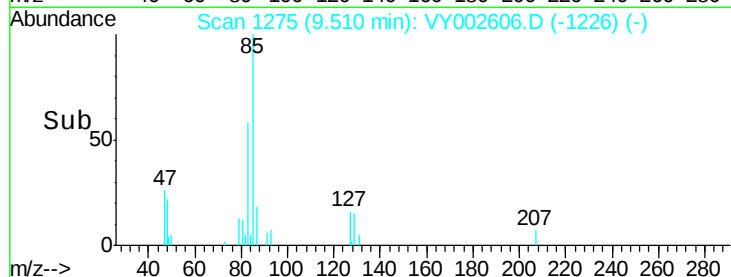
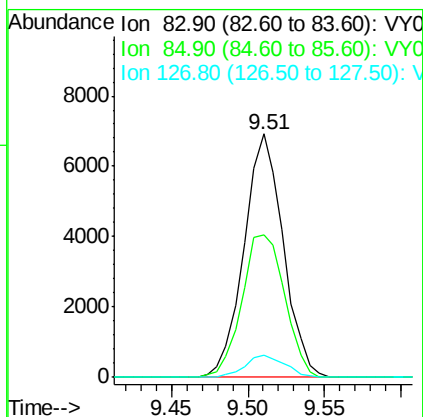
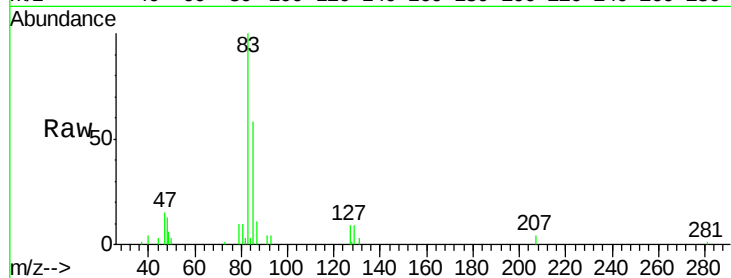
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	83	Resp:	12322
Ion	Ratio	Lower	Upper
83	100		
85	58.4	51.8	77.8
127	9.2	7.4	11.0

Manual Integrations
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MMDadoda
5/7/2020 10:35:26 AM



#48

Methyl methacrylate

Concen: 2.558 ug/l

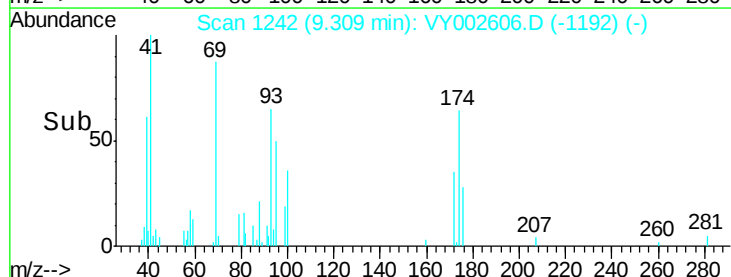
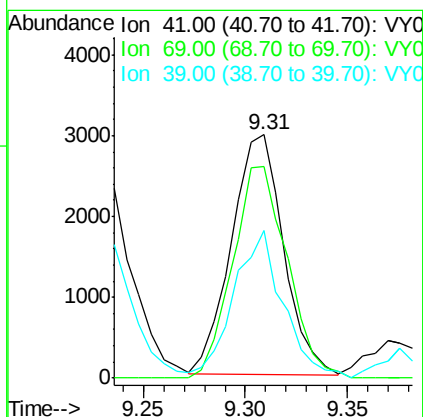
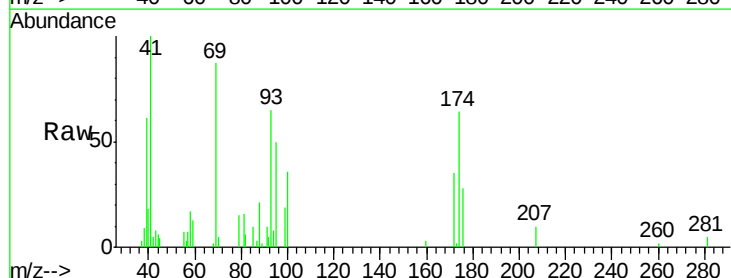
RT: 9.31 min Scan# 1242

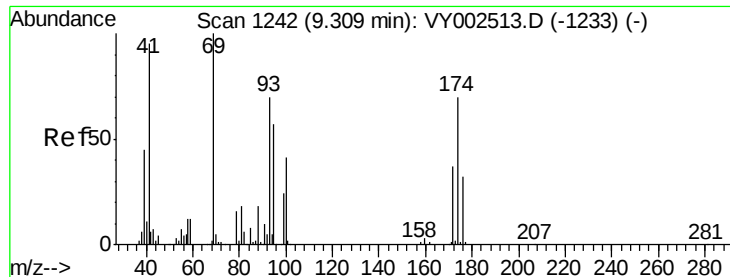
Delta R.T. 0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	41	Resp:	5295
Ion	Ratio	Lower	Upper
41	100		
69	91.7	76.2	114.4
39	58.0	42.7	64.1





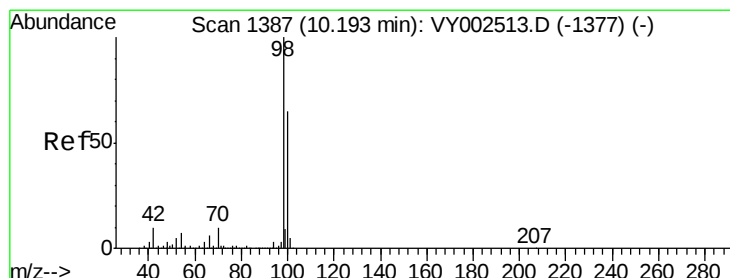
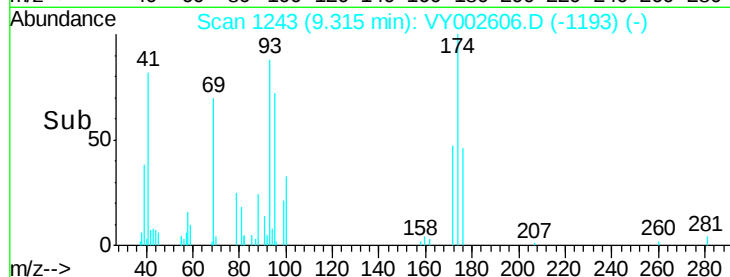
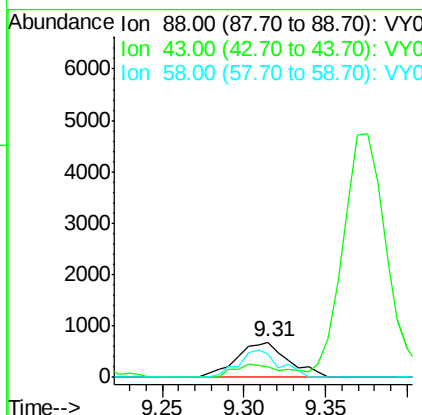
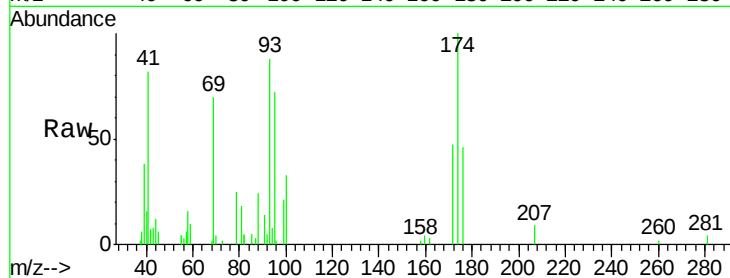
#49
1,4-Dioxane
Concen: 59.587 ug/l
RT: 9.31 min Scan# 1243
Delta R.T. 0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	88	Resp	1502
Ion	Ratio	Lower	Upper
88	100		
43	35.5	22.8	34.2#
58	61.6	51.4	77.2

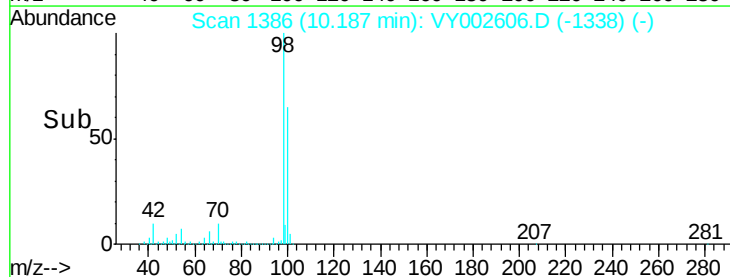
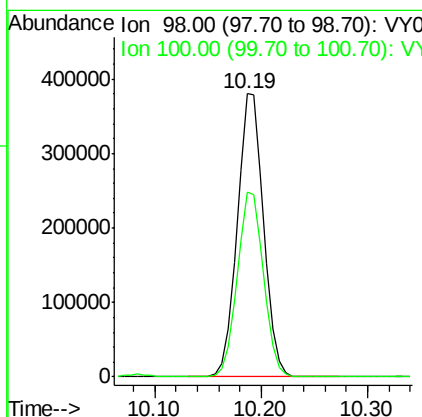
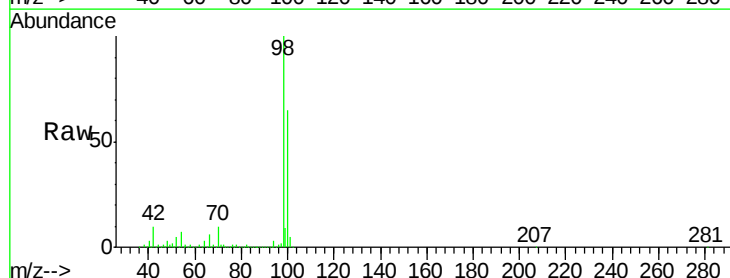
Manual Integrations
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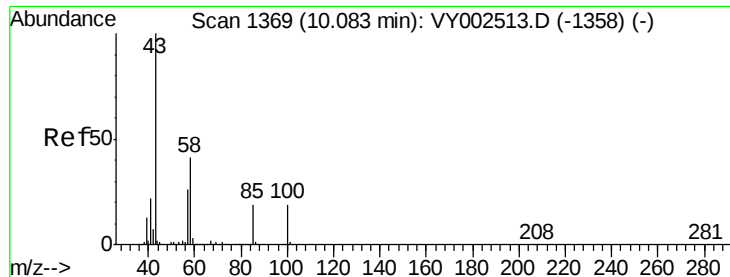
MMDadoda
5/7/2020 10:35:26 AM



#50
Toluene-d8
Concen: 51.987 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	98	Resp	657451
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 12.994 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 30628

Ion Ratio Lower Upper

43 100

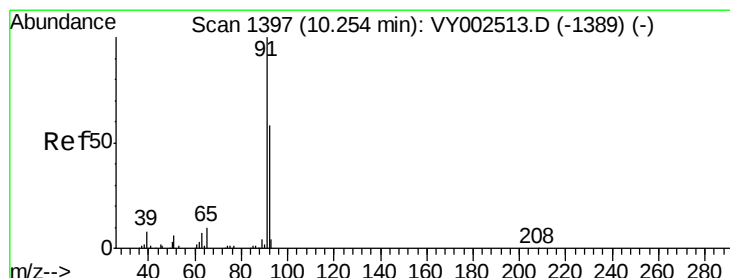
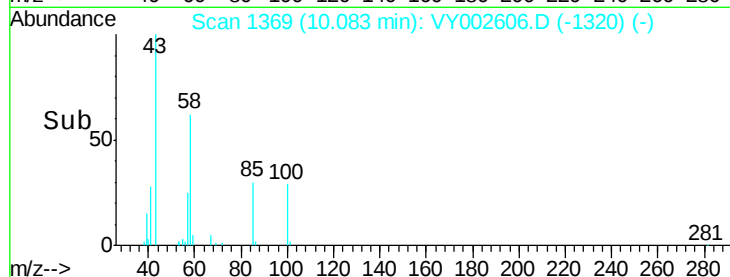
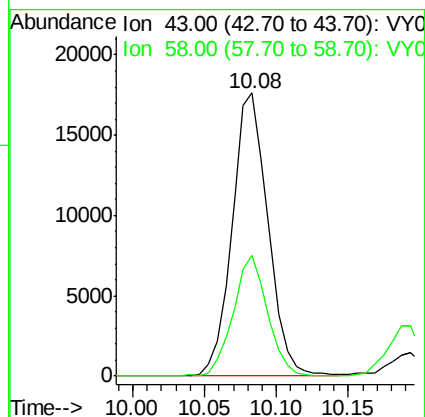
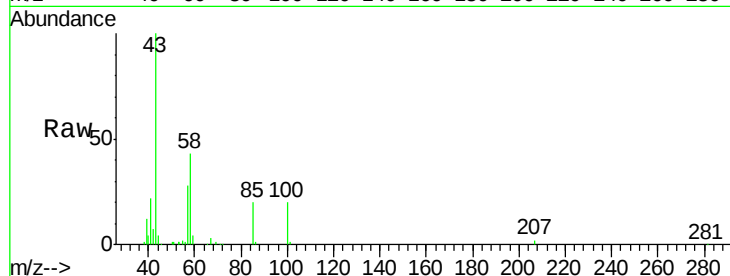
58 40.7 33.2 49.8

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#52

Toluene

Concen: 2.742 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VY002606.D

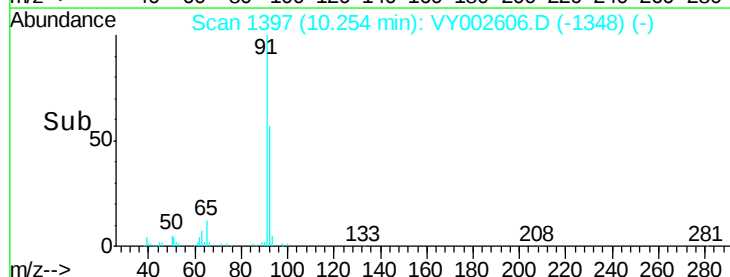
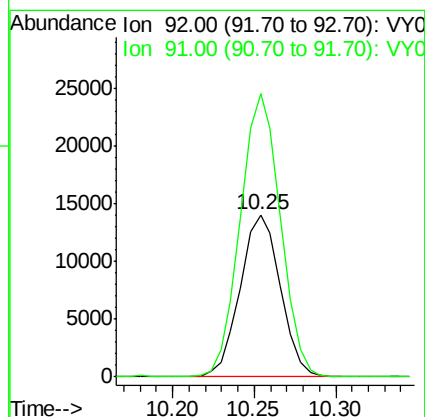
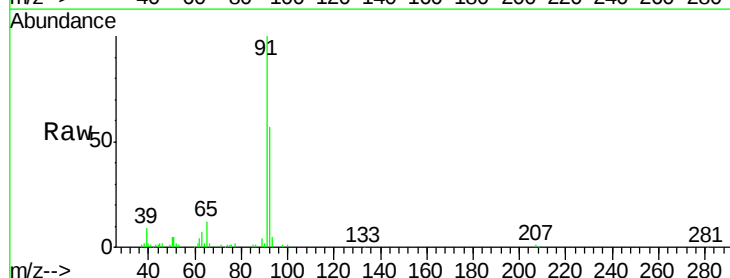
Acq: 06 May 2020 11:42

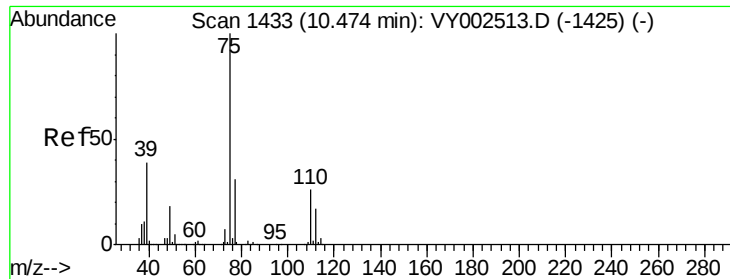
Tgt Ion: 92 Resp: 24159

Ion Ratio Lower Upper

92 100

91 174.0 139.3 208.9





#53

t-1,3-Dichloropropene

Concen: 2.518 ug/l

RT: 10.47 min Scan# 1433

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 75 Resp: 12215

Ion Ratio Lower Upper

75 100

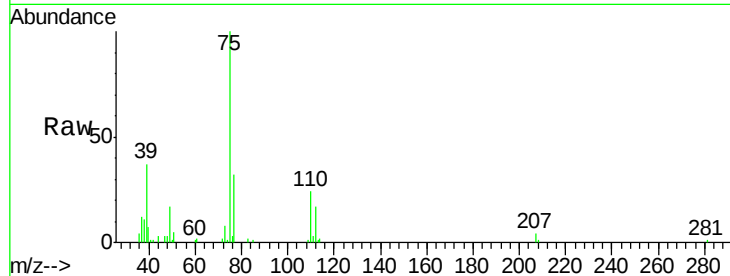
77 32.2 25.0 37.6

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Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

10.47

8000

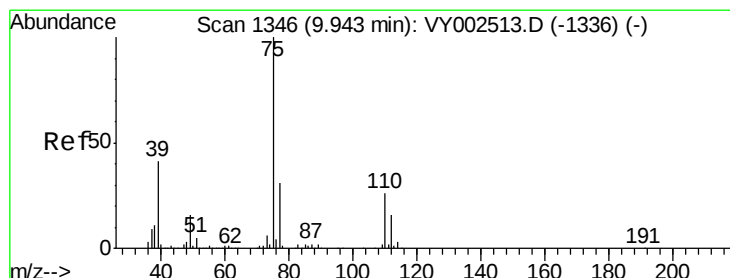
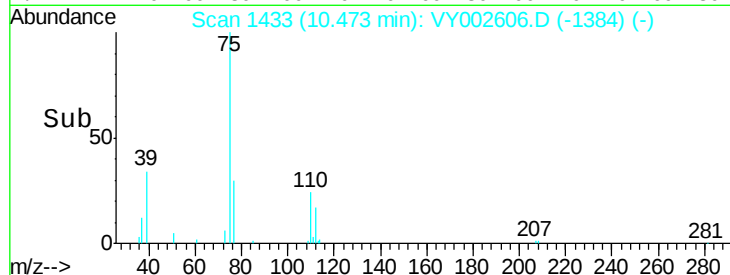
6000

4000

2000

0

Time--> 10.40 10.45 10.50 10.55



#54

cis-1,3-Dichloropropene

Concen: 2.620 ug/l

RT: 9.94 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

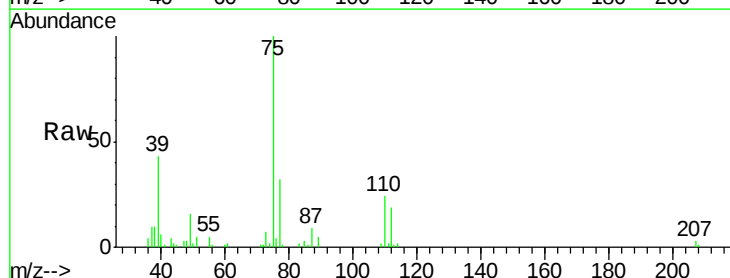
Tgt Ion: 75 Resp: 14690

Ion Ratio Lower Upper

75 100

77 32.3 25.1 37.7

39 42.8 32.7 49.1



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

Ion 39.00 (38.70 to 39.70): VY0

9.94

10000

8000

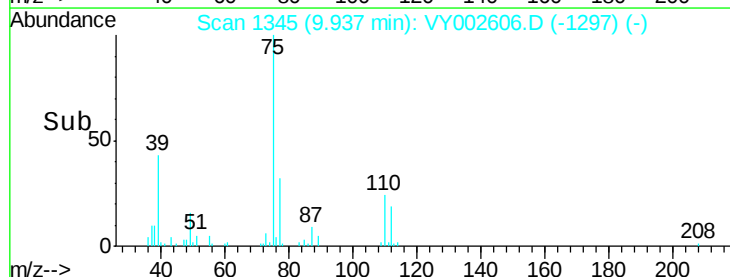
6000

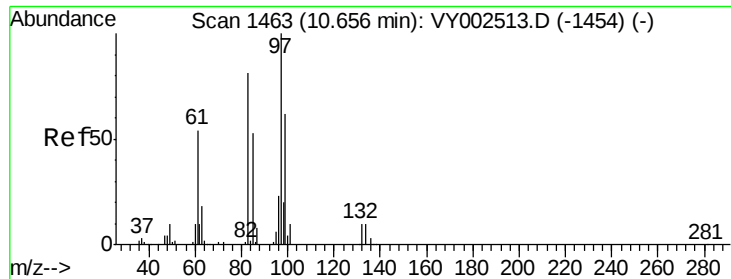
4000

2000

0

Time--> 9.85 9.90 9.95 10.00





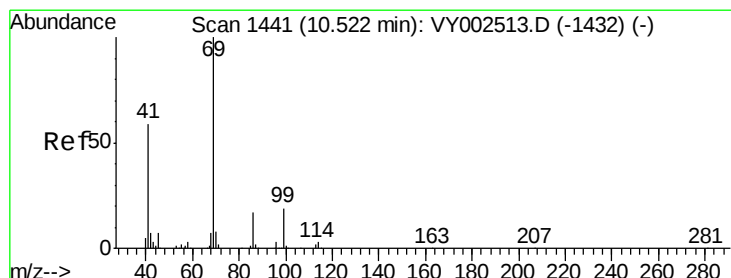
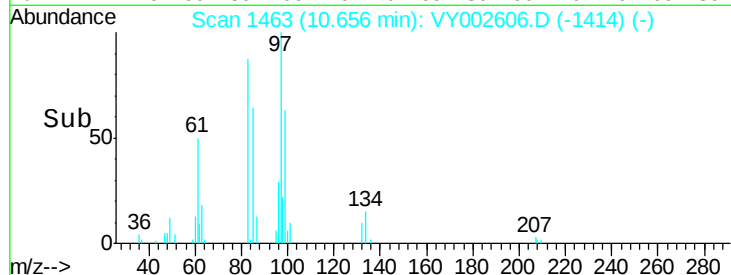
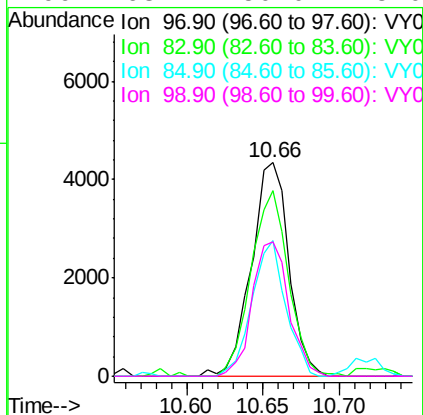
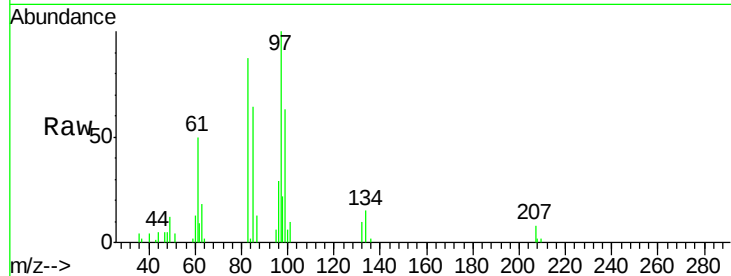
#55
 1,1,2-Trichloroethane
 Concen: 2.678 ug/l
 RT: 10.66 min Scan# 1463
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	97	Resp:	7434
Ion	Ratio	Lower	Upper
97	100		
83	87.1	65.1	97.7
85	63.7	42.7	64.1
99	63.1	50.0	75.0

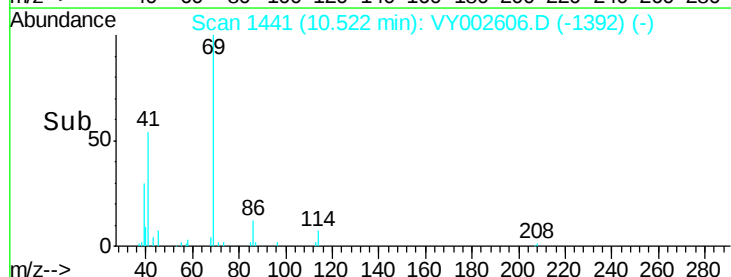
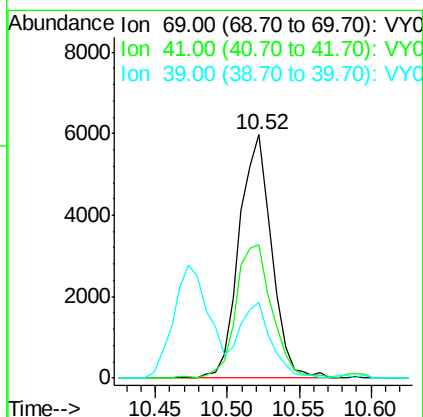
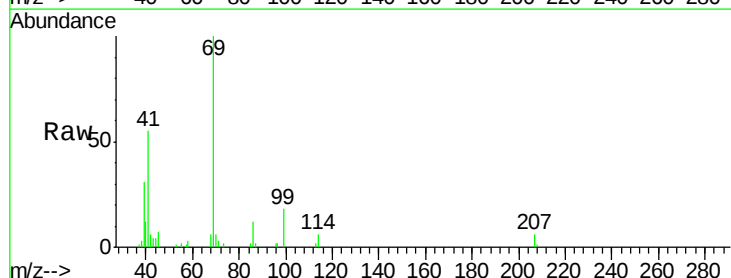
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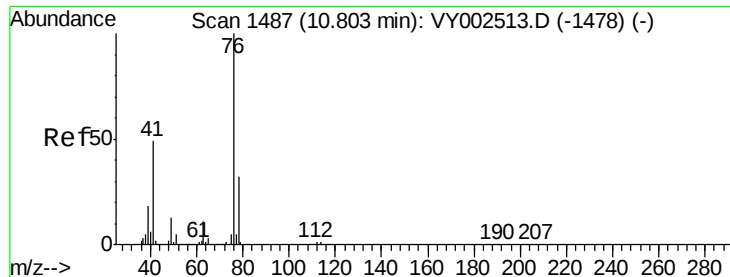
MMDadoda
 5/7/2020 10:35:26 AM



#56
 Ethyl methacrylate
 Concen: 2.526 ug/l
 RT: 10.52 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion:	69	Resp:	9330
Ion	Ratio	Lower	Upper
69	100		
41	61.4	48.6	73.0
39	30.9	25.0	37.4





#57

1,3-Dichloropropane

Concen: 2.700 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 76 Resp: 12712

Ion Ratio Lower Upper

76 100

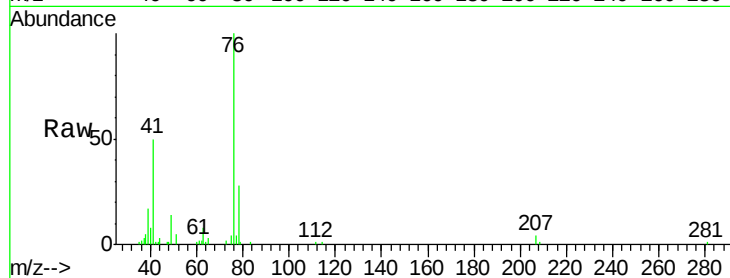
78 30.8 25.4 38.2

Manual Integrations

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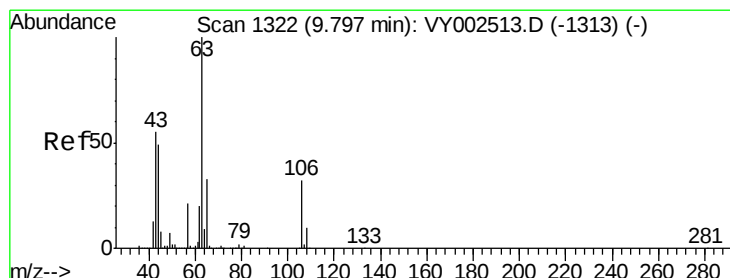
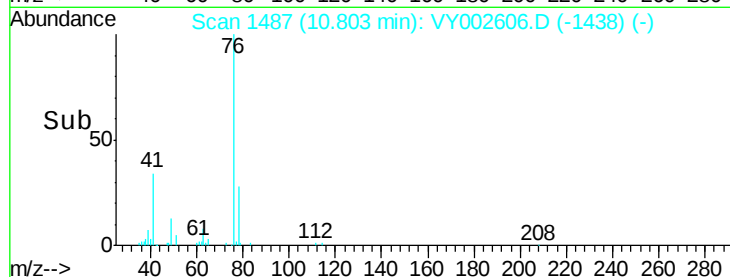
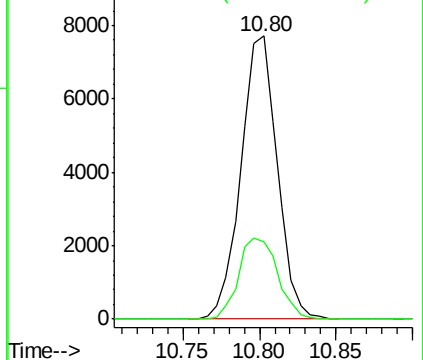
MMDadoda

5/7/2020 10:35:26 AM



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: 12.768 ug/l

RT: 9.80 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VY002606.D

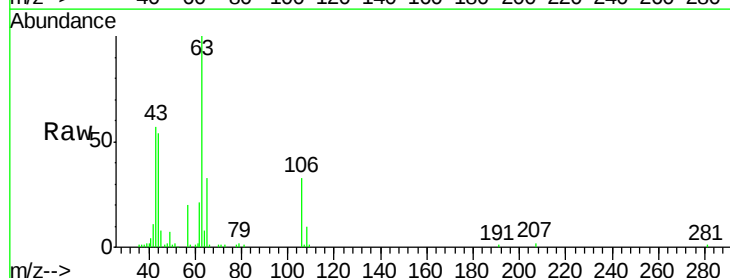
Acq: 06 May 2020 11:42

Tgt Ion: 63 Resp: 24867

Ion Ratio Lower Upper

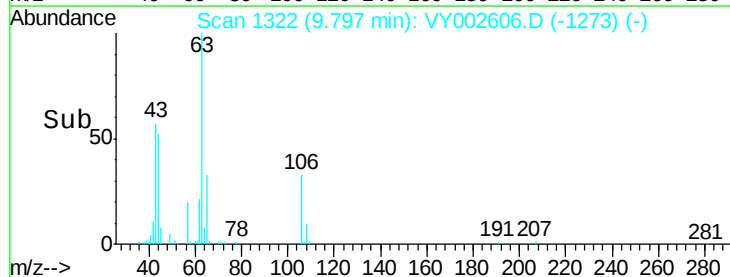
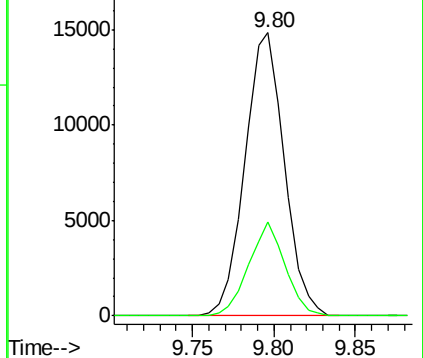
63 100

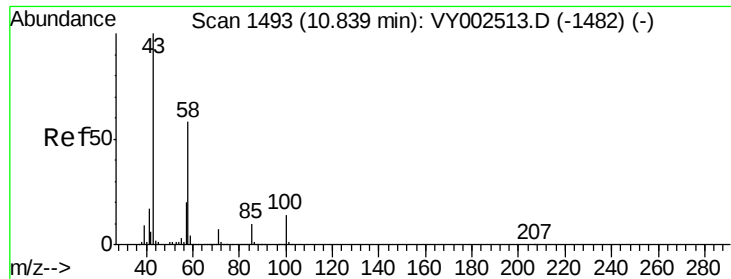
106 30.6 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V





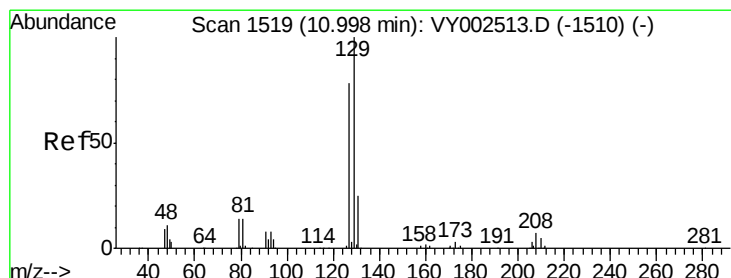
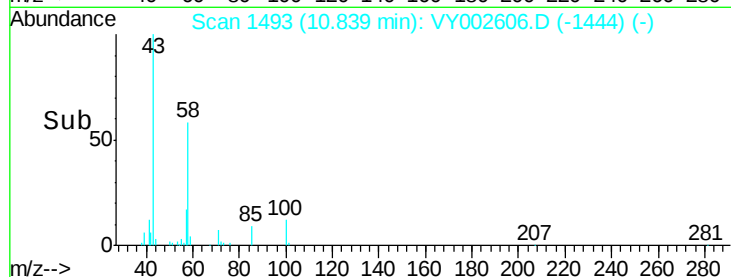
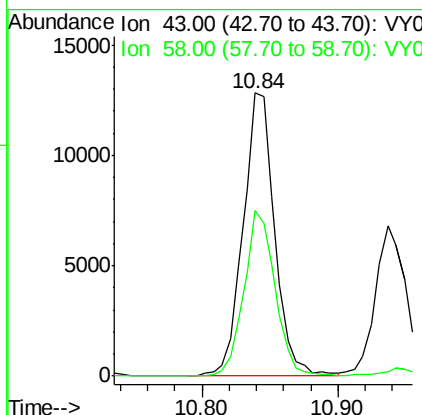
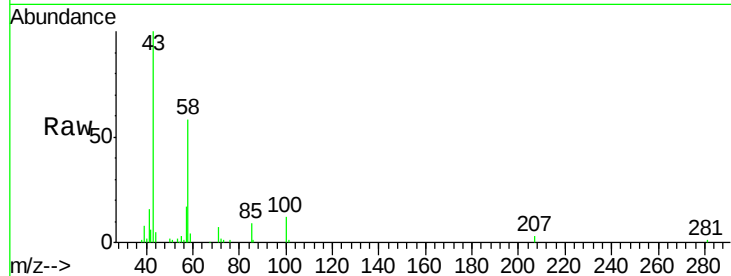
#59
2-Hexanone
Concen: 12.879 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.2	29.1	87.3

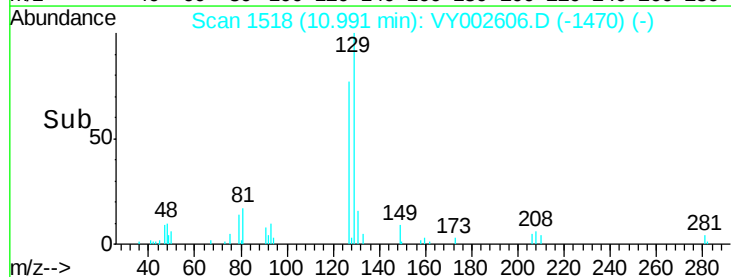
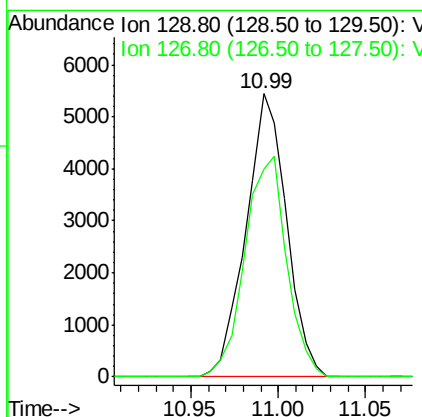
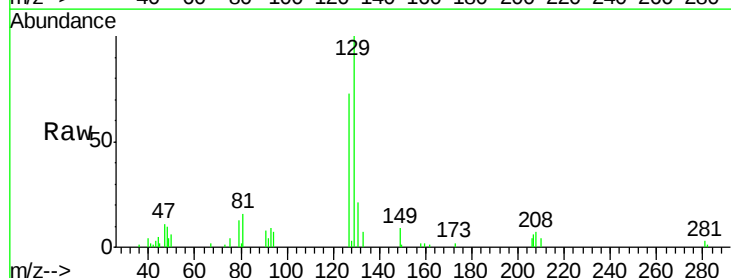
Manual Integrations
APPROVED

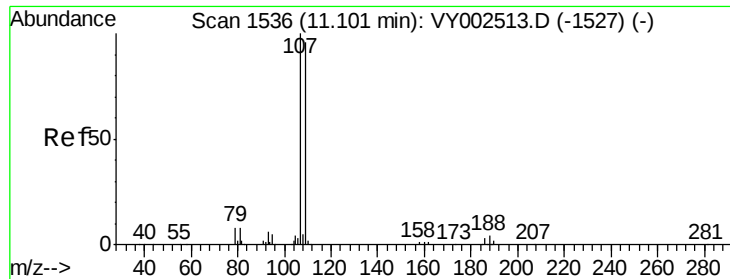
MMDadoda
5/7/2020 10:35:26 AM



#60
Dibromochloromethane
Concen: 2.506 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.1	39.0	117.0





#61

1,2-Dibromoethane

Concen: 2.536 ug/l

RT: 11.10 min Scan# 1535

Delta R.T. -0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 107 Resp: 6970

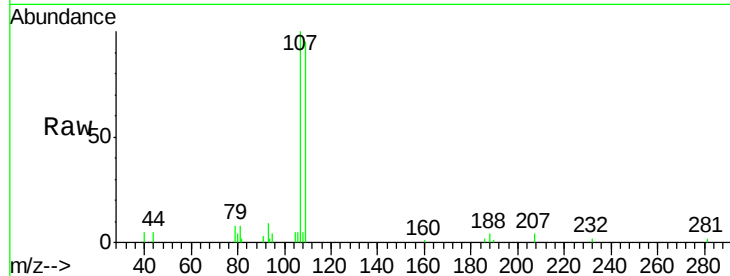
Ion Ratio Lower Upper

107 100

109 95.1 75.8 113.8

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MMDadoda
5/7/2020 10:35:26 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.10

4000

3000

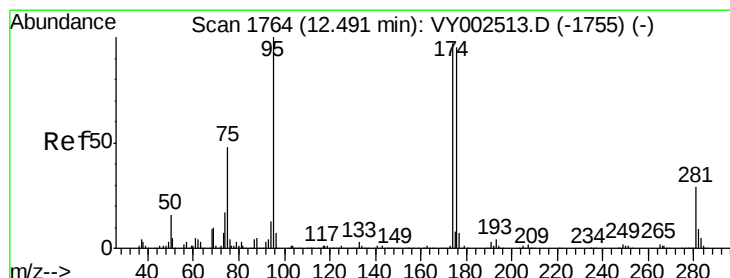
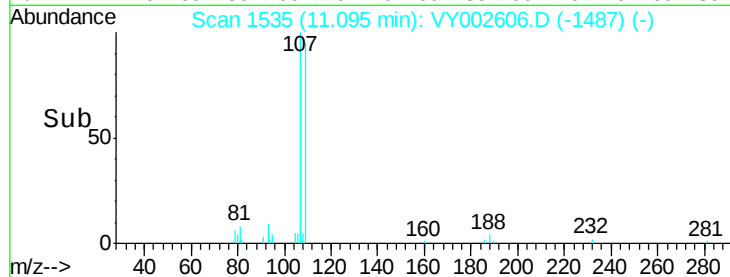
2000

1000

0

Time-->

11.05 11.10 11.15



#62

4-Bromofluorobenzene

Concen: 51.980 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

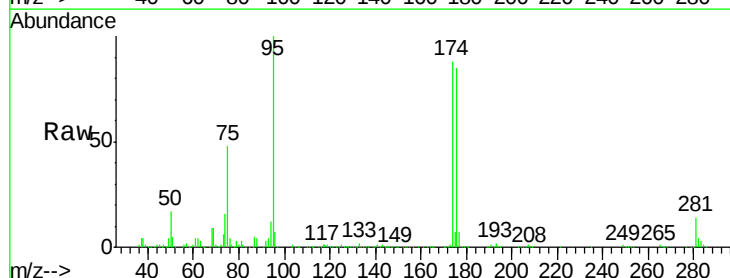
Tgt Ion: 95 Resp: 223058

Ion Ratio Lower Upper

95 100

174 93.7 0.0 188.8

176 89.7 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

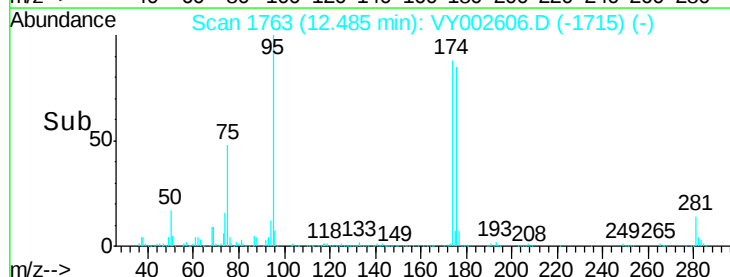
100000

50000

0

Time-->

12.40 12.50





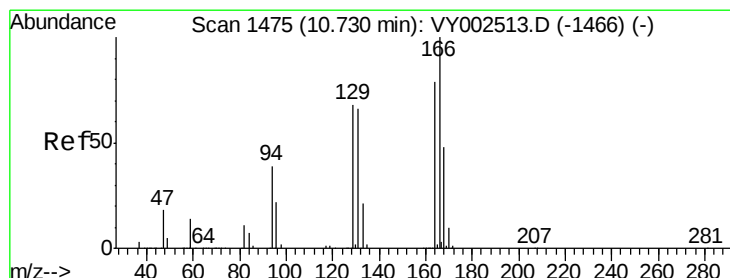
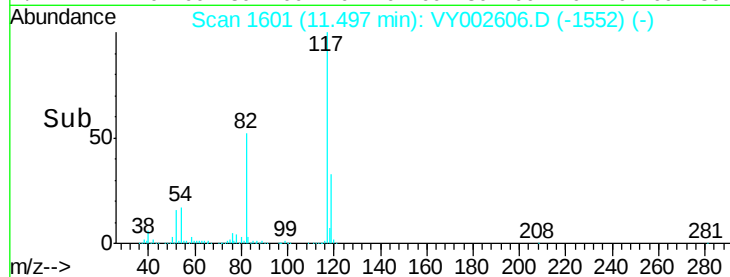
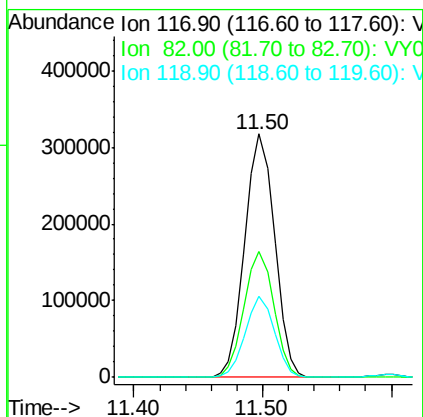
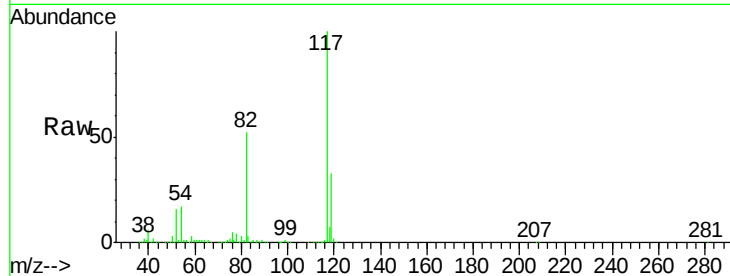
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	509580		
82	51.5		41.3	61.9
119	33.1		26.0	39.0

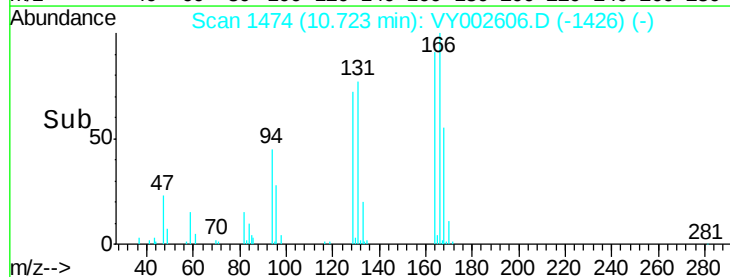
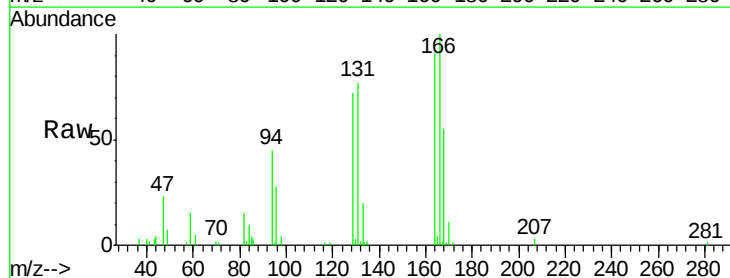
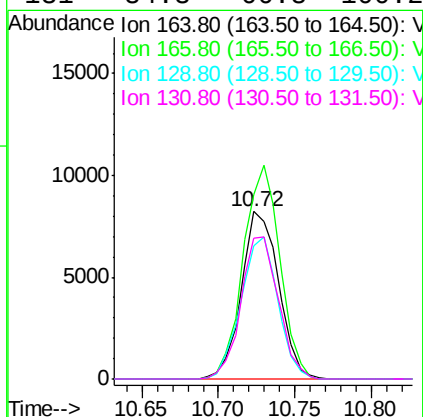
Manual Integrations
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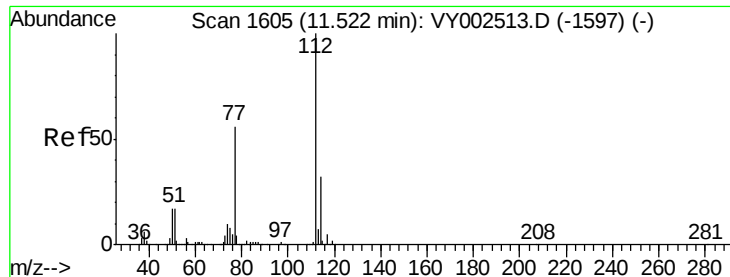
MMDadoda
5/7/2020 10:35:26 AM



#64
Tetrachloroethene
Concen: 3.084 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	13962		
166	110.2		100.7	151.1
129	79.2		68.3	102.5
131	84.3		66.8	100.2





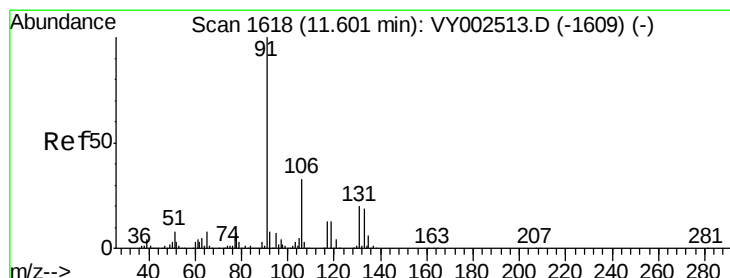
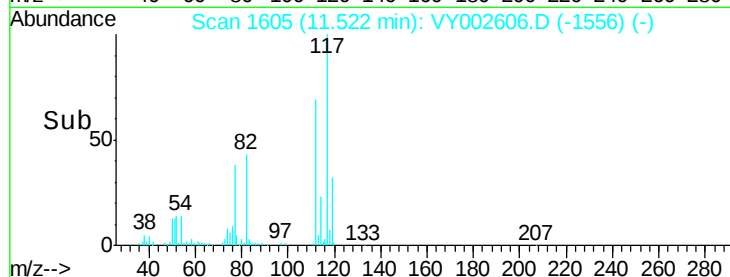
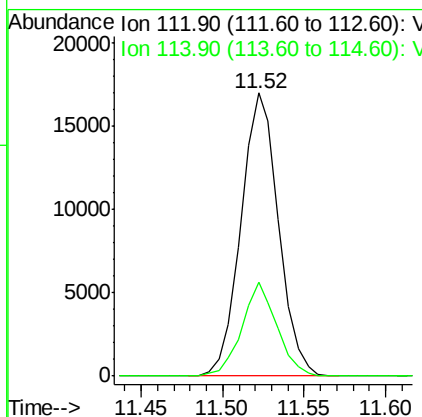
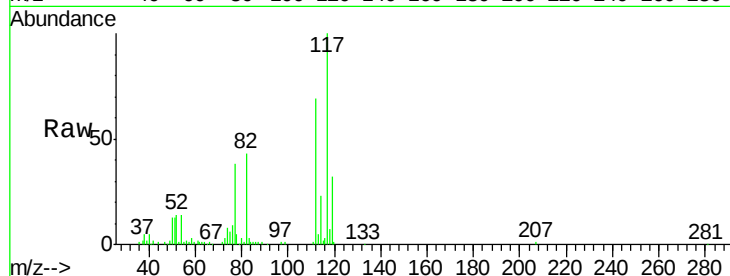
#65
Chlorobenzene
Concen: 2.805 ug/l
RT: 11.52 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.8	38.6

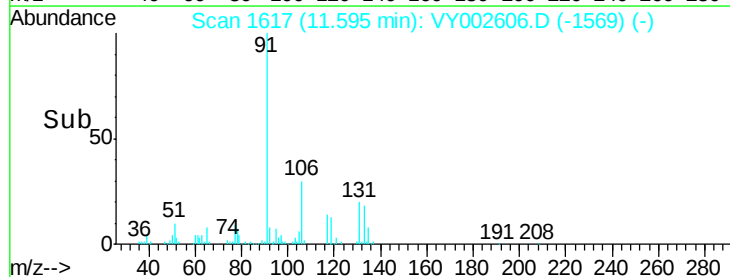
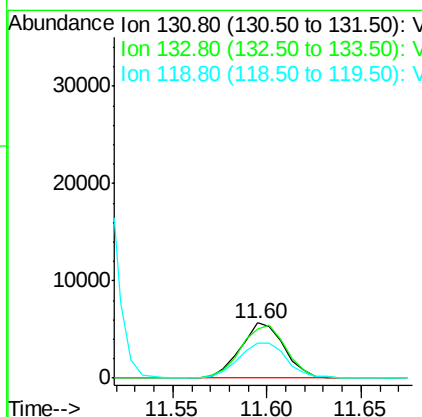
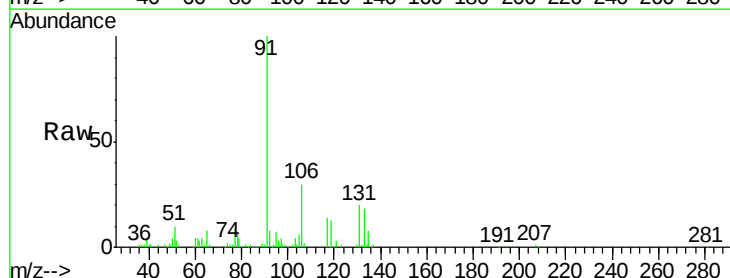
Manual Integrations
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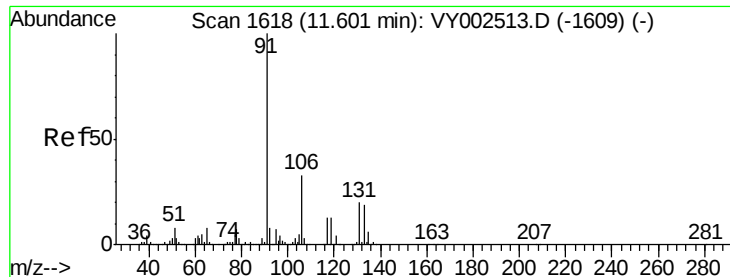
MMDadoda
5/7/2020 10:35:26 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.537 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.7	48.1	144.4
119	70.3	31.6	95.0





#67

Ethyl Benzene

Concen: 2.743 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 91 Resp: 46668

Ion Ratio Lower Upper

91 100

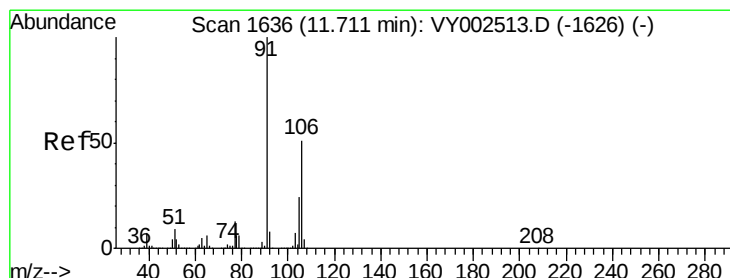
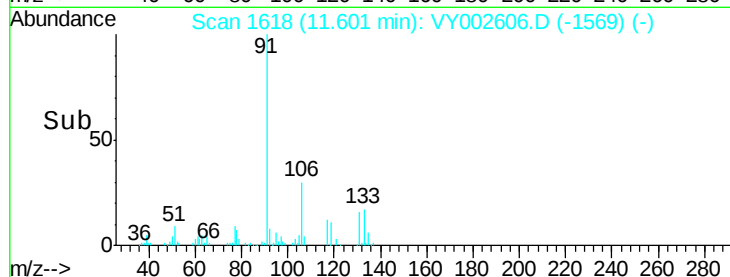
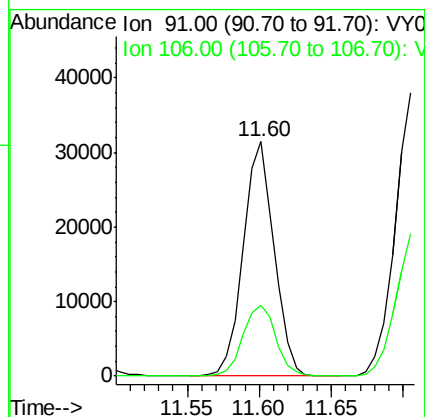
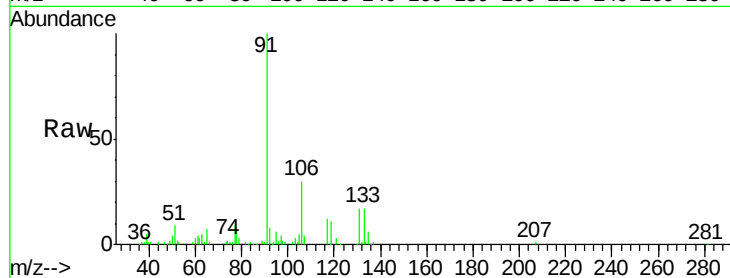
106 30.2 26.1 39.1

Manual Integrations

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MMDadoda

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#68

m/p-Xylenes

Concen: 5.446 ug/l

RT: 11.71 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VY002606.D

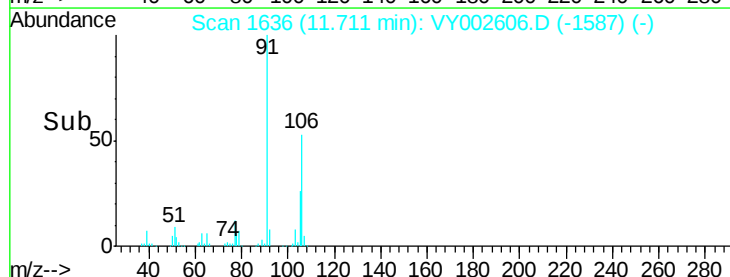
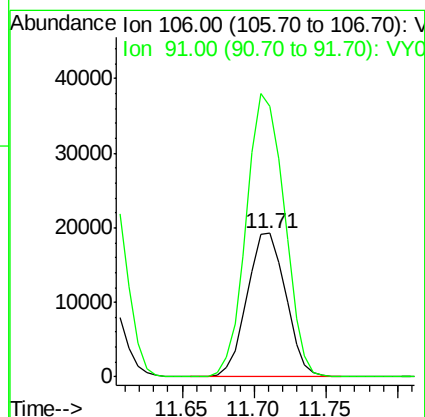
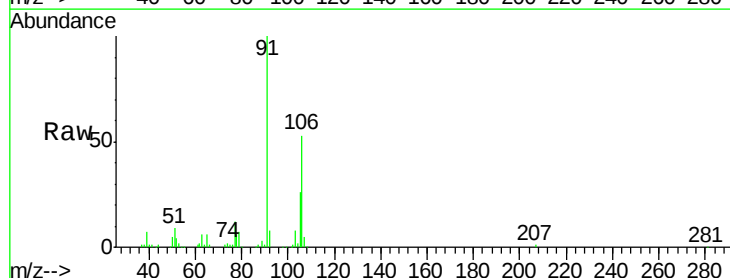
Acq: 06 May 2020 11:42

Tgt Ion: 106 Resp: 35857

Ion Ratio Lower Upper

106 100

91 194.3 155.2 232.8





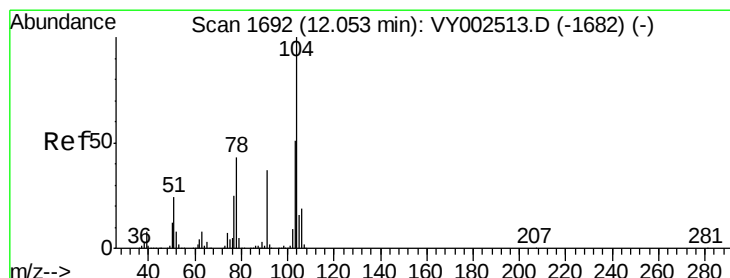
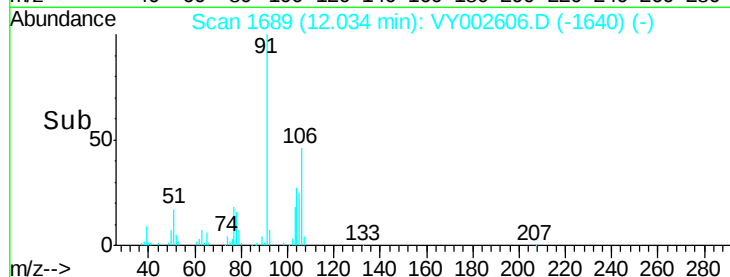
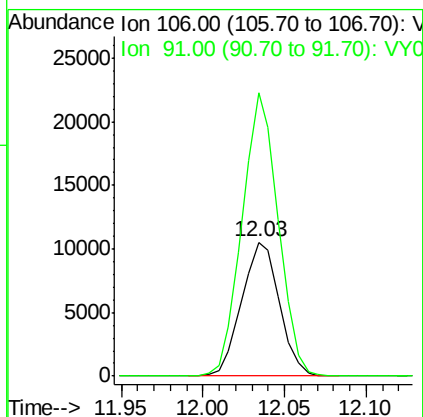
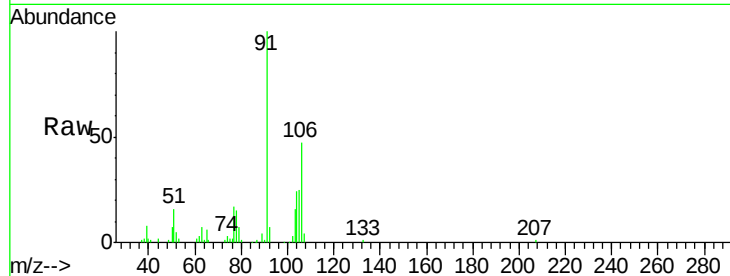
#69
o-Xylene
Concen: 2.742 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	203.3	103.8	311.3	

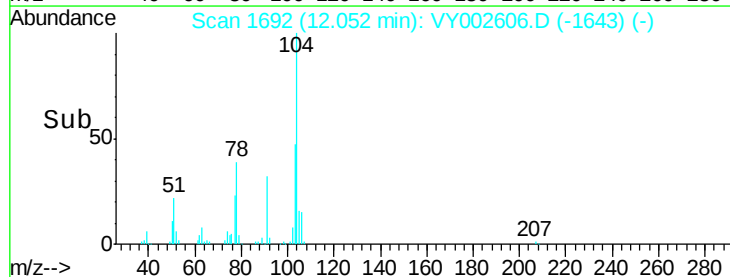
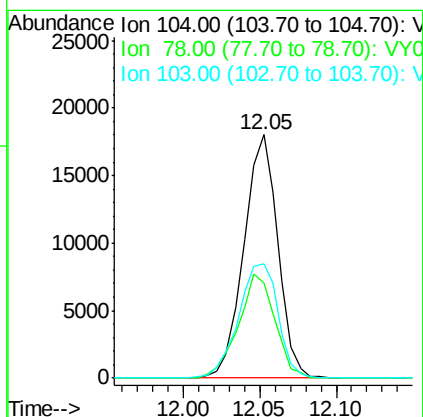
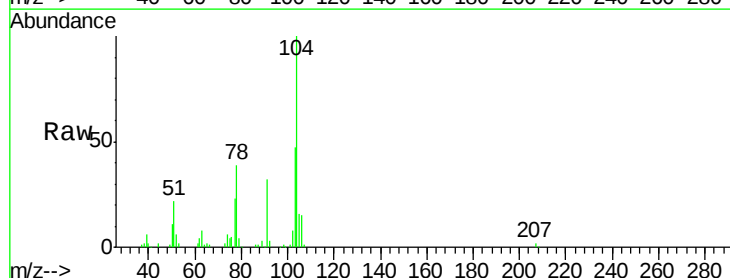
Manual Integrations
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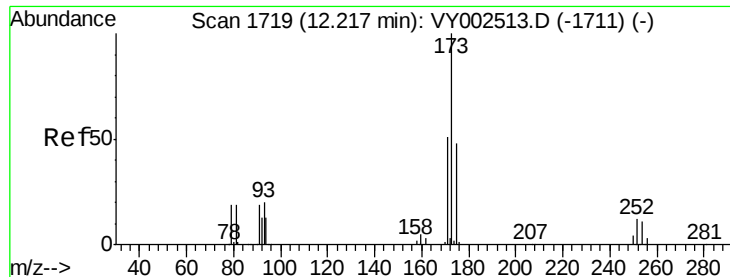
MMDadoda
5/7/2020 10:35:26 AM



#70
Styrene
Concen: 2.634 ug/l
RT: 12.05 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	45.8	37.4	56.0	
103	54.9	43.9	65.9	





#71

Bromoform

Concen: 2.612 ug/l

RT: 12.22 min Scan# 1719

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

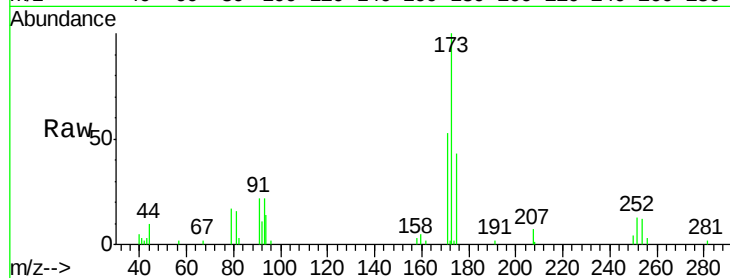
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

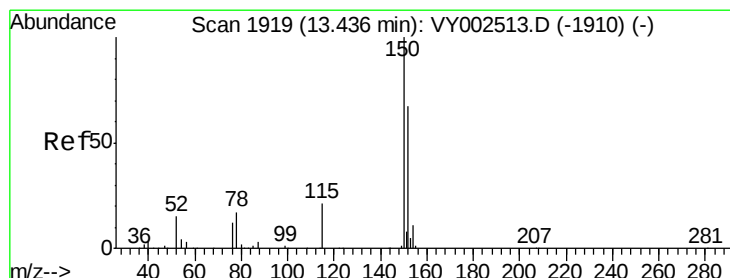
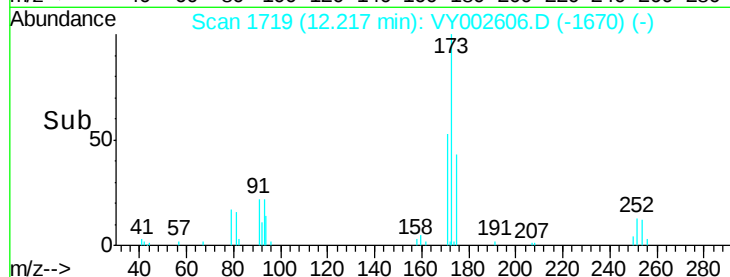
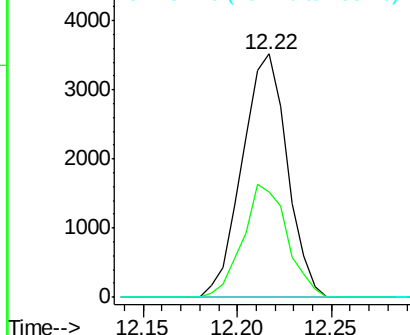
Tot Ion:	173	Resp:	5830
Ion Ratio	Lower	Upper	
173	100		
175	45.7	24.3	72.8
254	0.0	0.2	0.2#

Manual Integrations
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5/7/2020 10:35:26 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

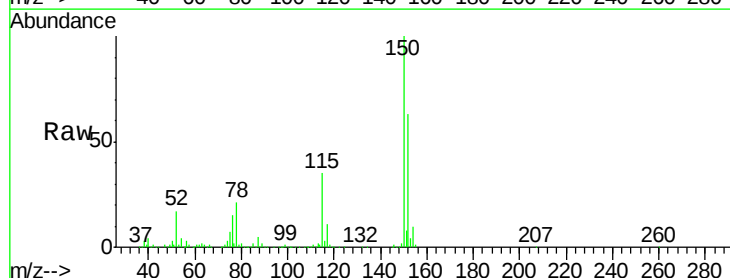
RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

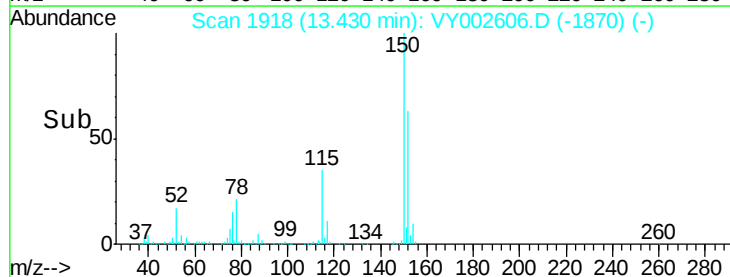
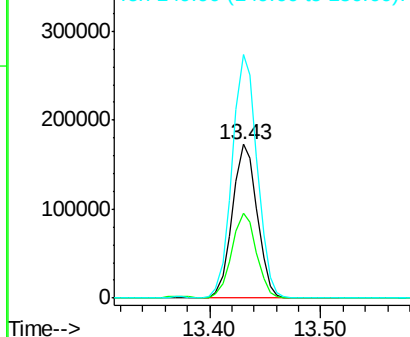
Lab File: VY002606.D

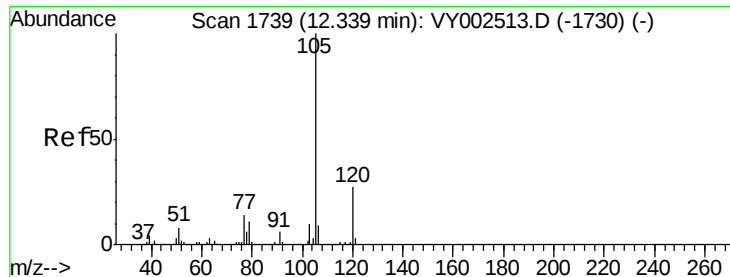
Acq: 06 May 2020 11:42

Tgt Ion:	152	Resp:	266622
Ion Ratio	Lower	Upper	
152	100		
115	54.8	27.5	82.4
150	159.2	0.0	346.4



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





#73

Isopropylbenzene

Concen: 2.688 ug/l

RT: 12.34 min Scan# 1739

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:105 Resp: 46449

Ion Ratio Lower Upper

105 100

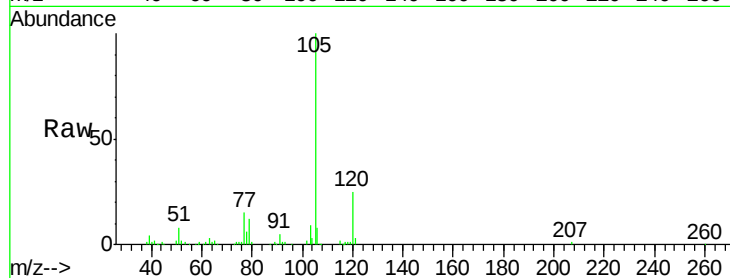
120 26.7 13.8 41.3

Manual Integrations

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MMDadoda

5/7/2020 10:35:26 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.34

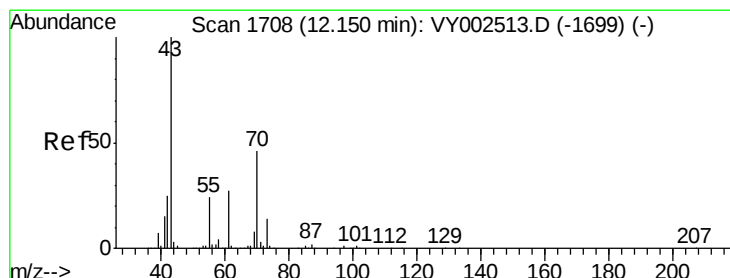
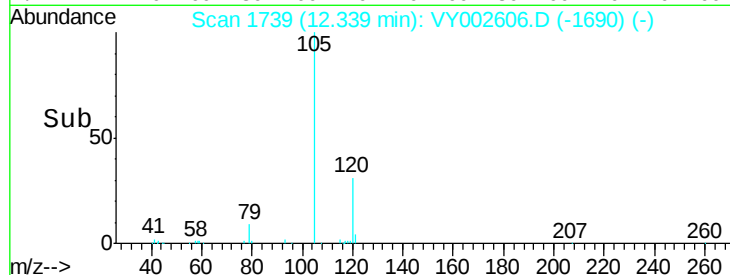
30000

20000

10000

0

Time--> 12.25 12.30 12.35 12.40



#74

N-ethyl acetate

Concen: 2.589 ug/l

RT: 12.15 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion: 43 Resp: 10763

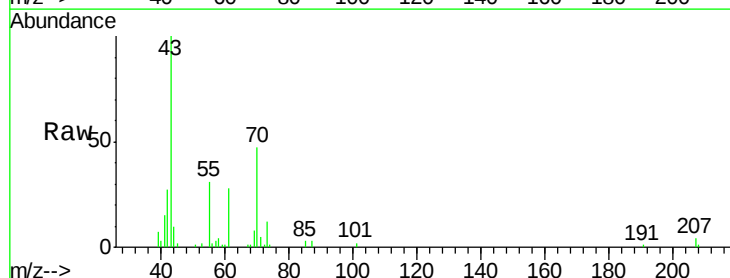
Ion Ratio Lower Upper

43 100

70 46.7 36.7 55.1

55 27.1 19.2 28.8

61 27.0 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

12000

10000

8000

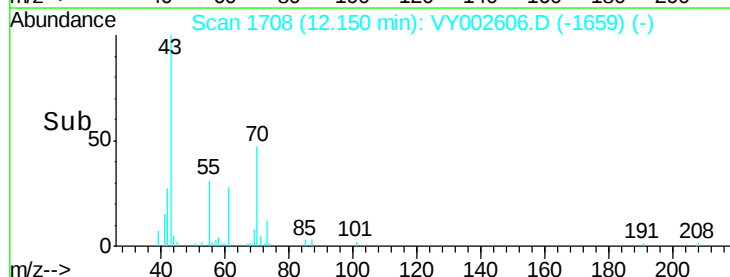
6000

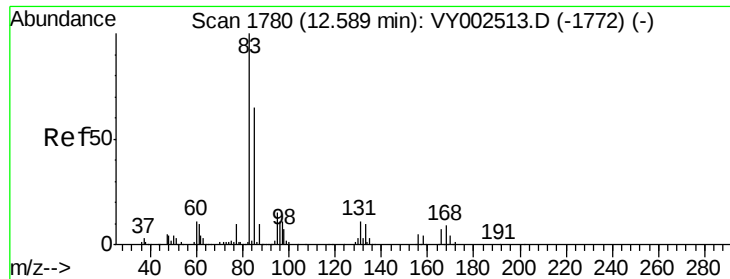
4000

2000

0

Time--> 12.05 12.10 12.15 12.20





#75

1,1,2,2-Tetrachloroethane

Concen: 2.466 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

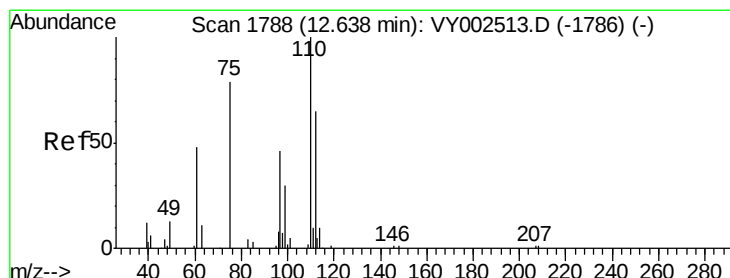
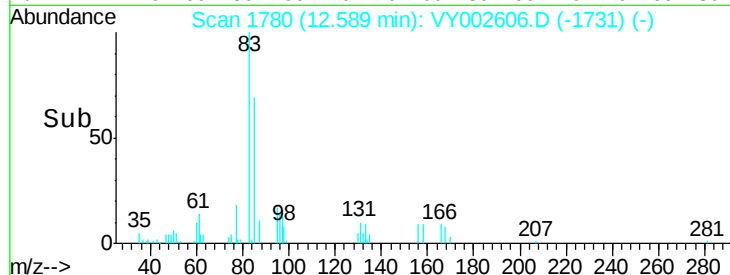
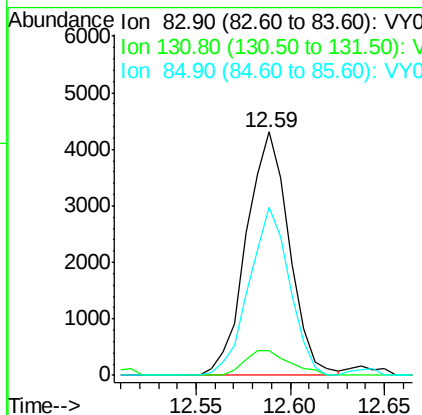
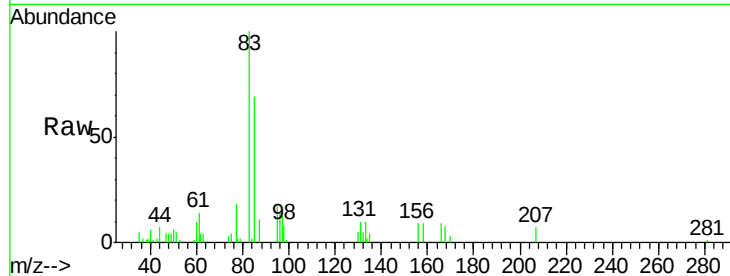
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	83	Resp:	6778
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.9	17.8
85	65.0	31.9	95.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.557 ug/l m

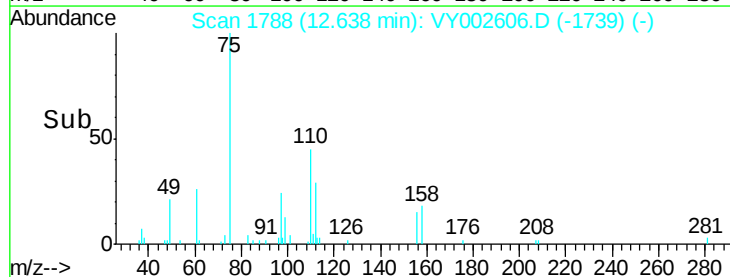
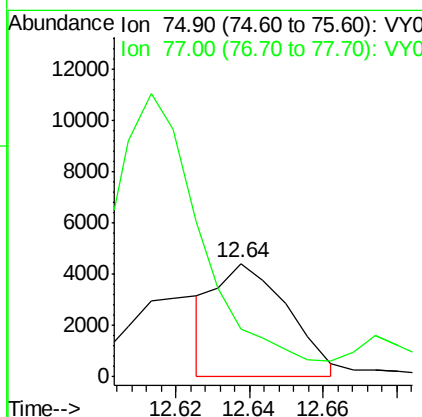
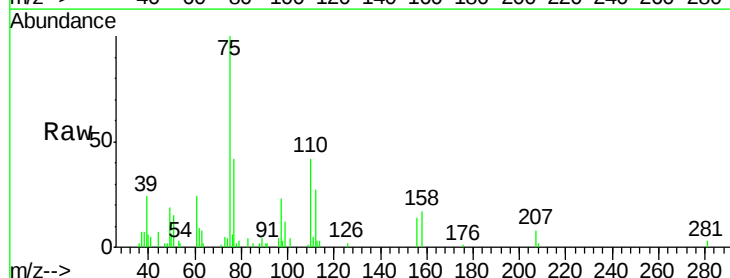
RT: 12.64 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	75	Resp:	6058
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.790 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

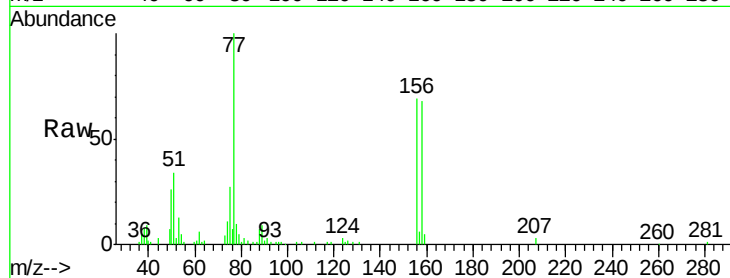
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

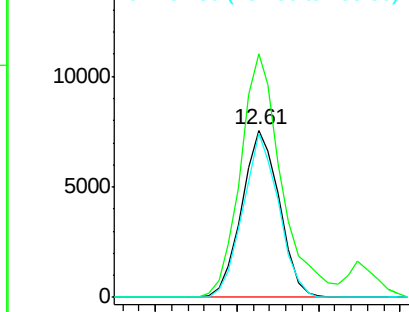
Tot Ion:	156	Resp:	12043
Ion Ratio	Lower	Upper	
156	100		
77	162.2	82.0	245.8
158	93.7	48.5	145.6

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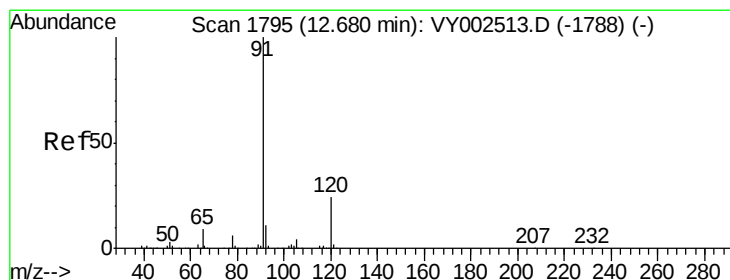
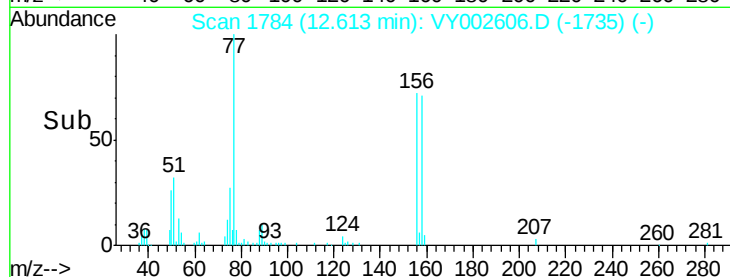
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VY0
Ion 157.80 (157.50 to 158.50): V



Time-->



#78

n-propylbenzene

Concen: 2.717 ug/l

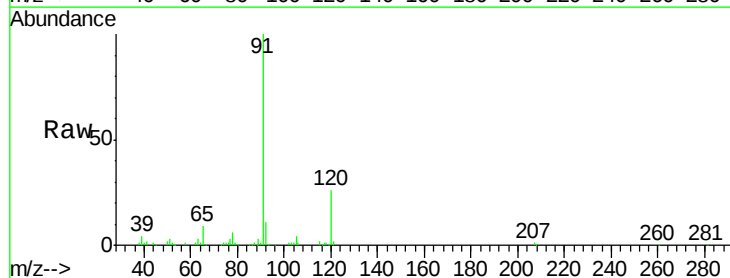
RT: 12.68 min Scan# 1795

Delta R.T. -0.00 min

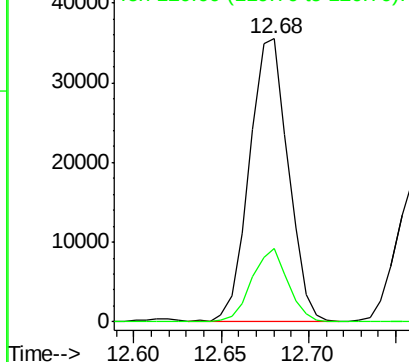
Lab File: VY002606.D

Acq: 06 May 2020 11:42

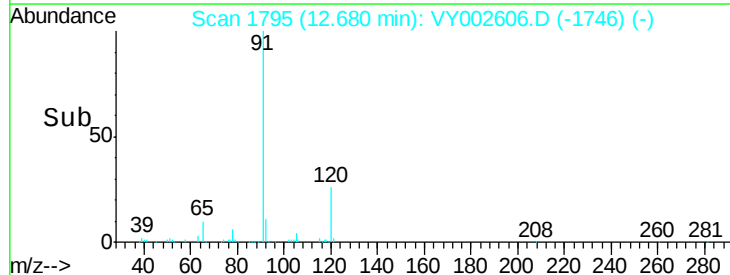
Tgt Ion:	91	Resp:	54493
Ion Ratio	Lower	Upper	
91	100		
120	24.2	12.2	36.4

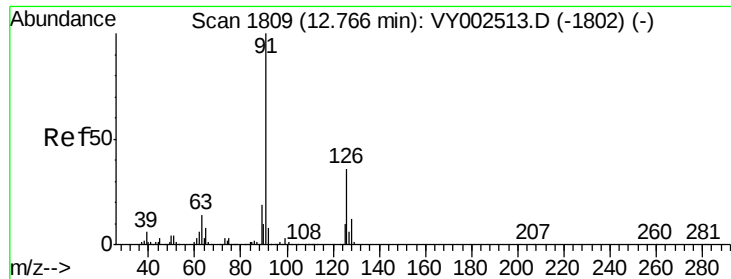


Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 120.00 (119.70 to 120.70): V



Time-->





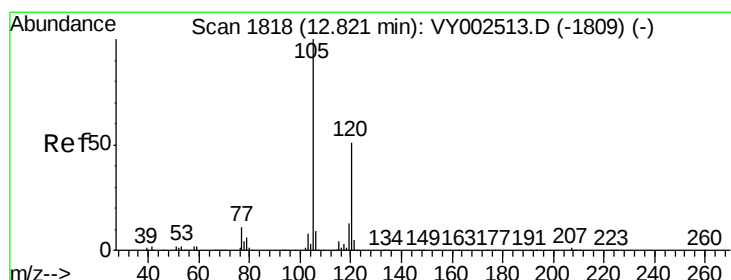
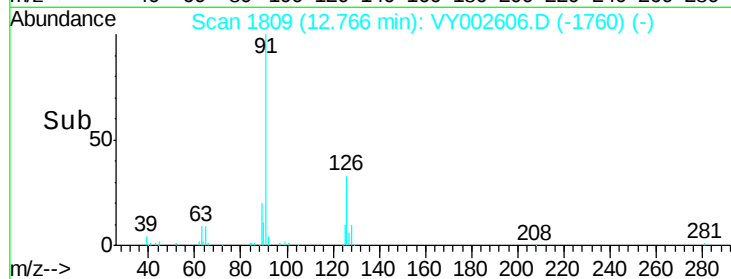
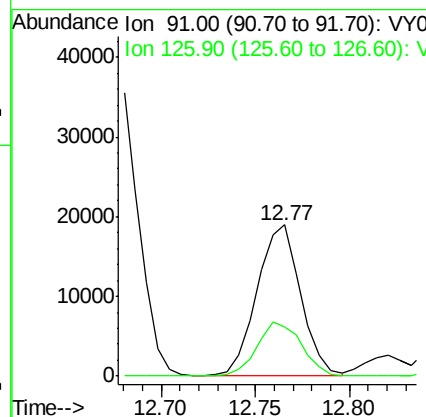
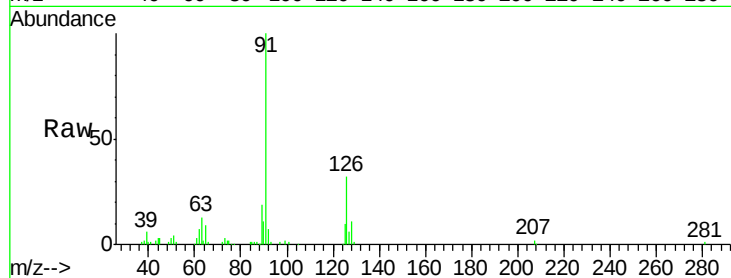
#79
 2-Chlorotoluene
 Concen: 2.735 ug/l
 RT: 12.77 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 91 Resp: 30384
 Ion Ratio Lower Upper
 91 100
 126 36.3 18.4 55.2

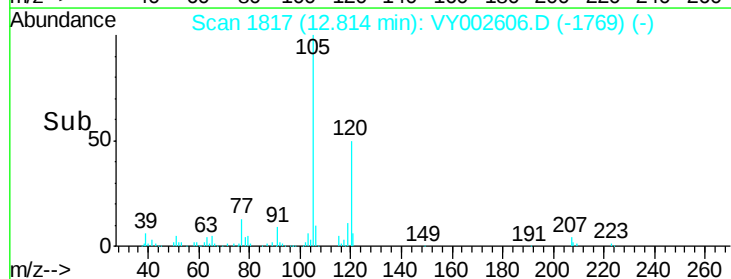
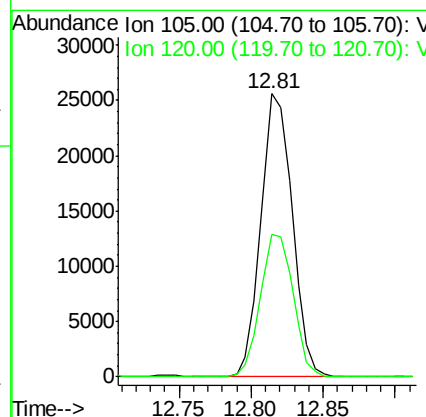
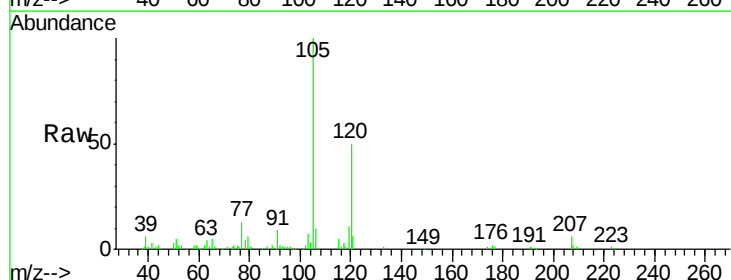
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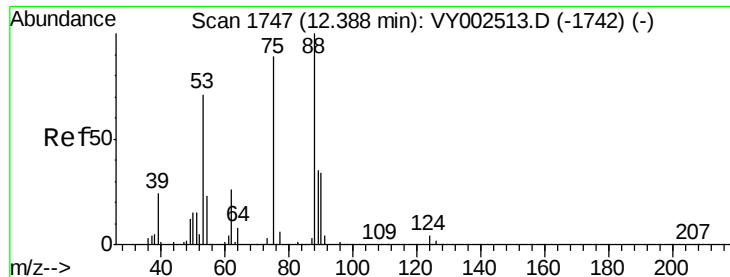
MMDadoda
 5/7/2020 10:35:26 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 2.696 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion: 105 Resp: 38618
 Ion Ratio Lower Upper
 105 100
 120 52.4 25.3 75.9





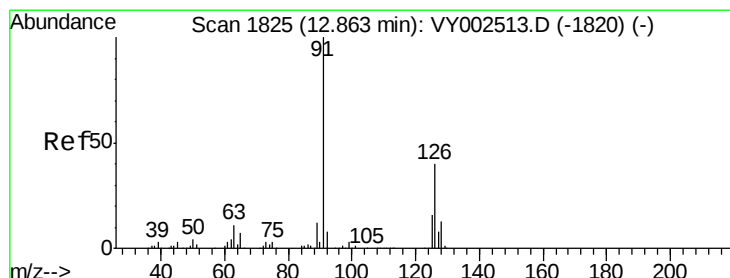
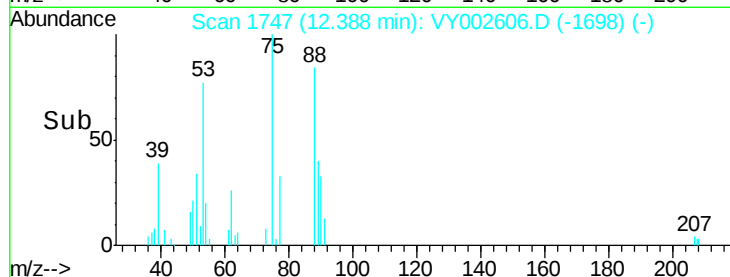
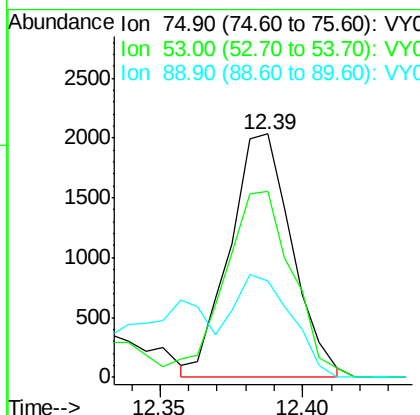
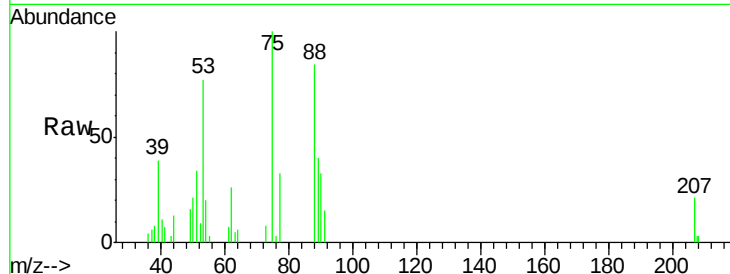
#81
trans-1,4-Dichloro-2-butene
Concen: 2.602 ug/l m
RT: 12.39 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.4	101.0#
89	8.3	37.4	56.0#

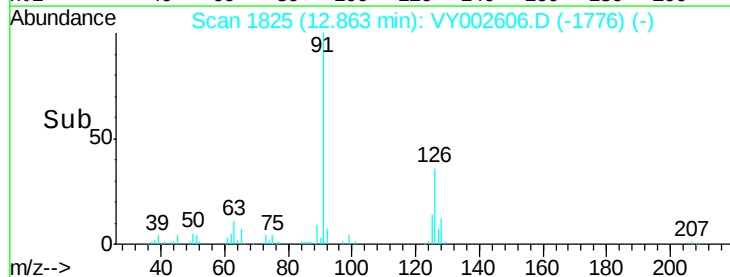
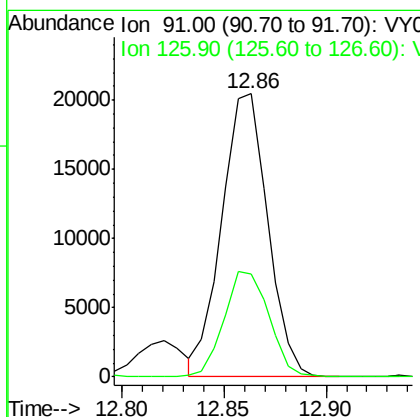
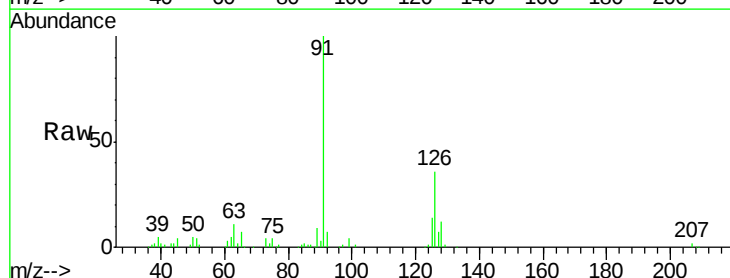
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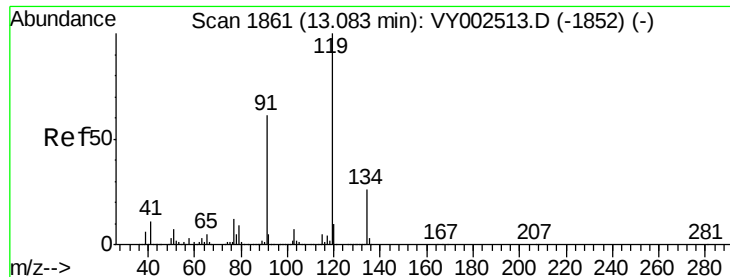
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#82
4-Chlorotoluene
Concen: 2.743 ug/l
RT: 12.86 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.4	18.5	55.5





#83

tert-Butylbenzene

Concen: 2.696 ug/l

RT: 13.08 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

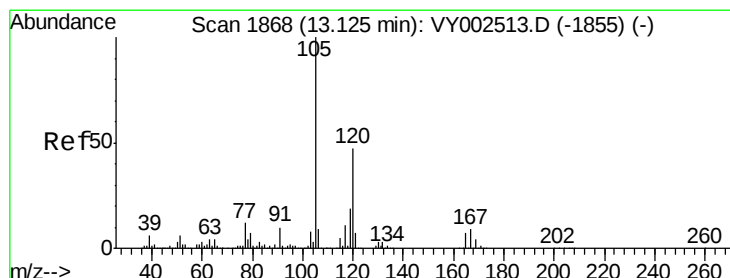
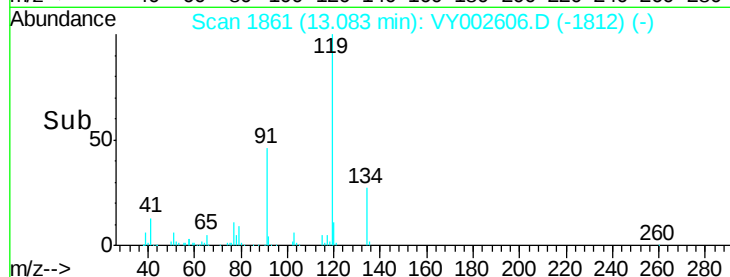
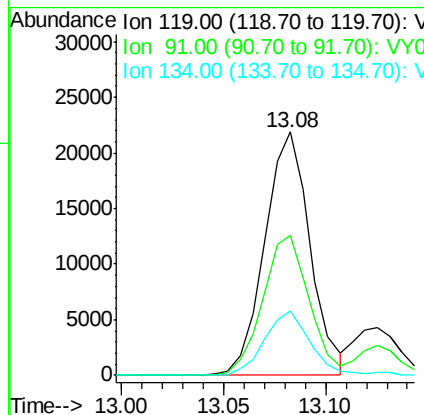
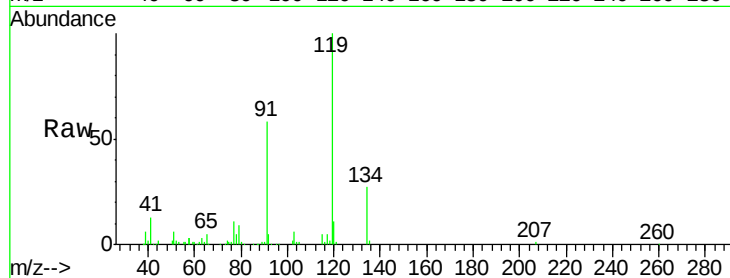
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	119	Resp:	33863
Ion Ratio	Lower	Upper	
119	100		
91	58.7	30.6	91.6
134	27.1	13.5	40.4

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#84

1,2,4-Trimethylbenzene

Concen: 2.751 ug/l

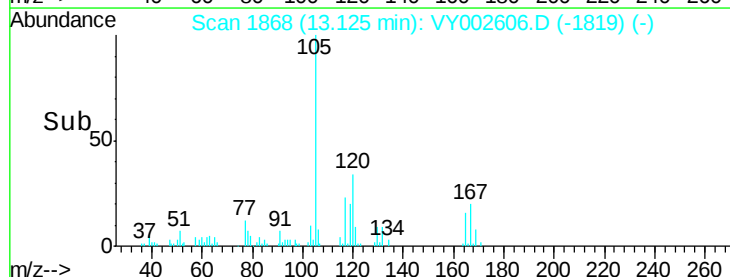
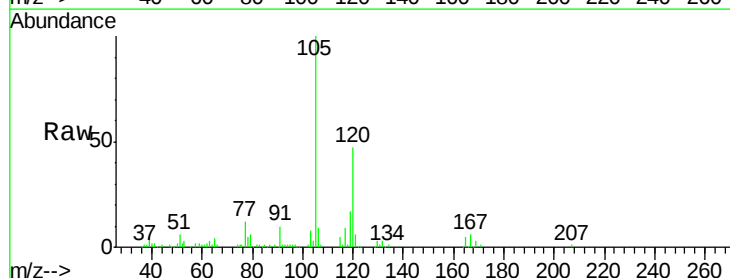
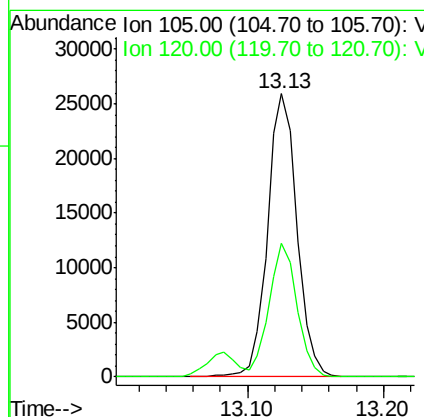
RT: 13.13 min Scan# 1868

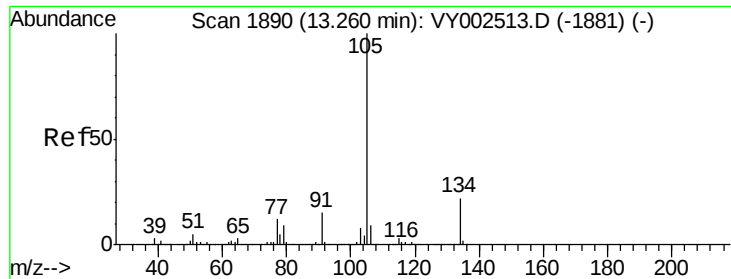
Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion:	105	Resp:	39266
Ion Ratio	Lower	Upper	
105	100		
120	44.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 2.750 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:105 Resp: 47933

Ion Ratio Lower Upper

105 100

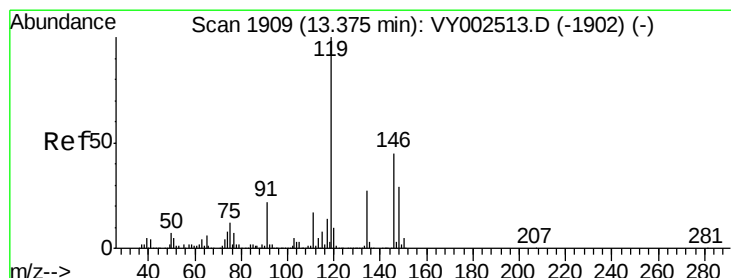
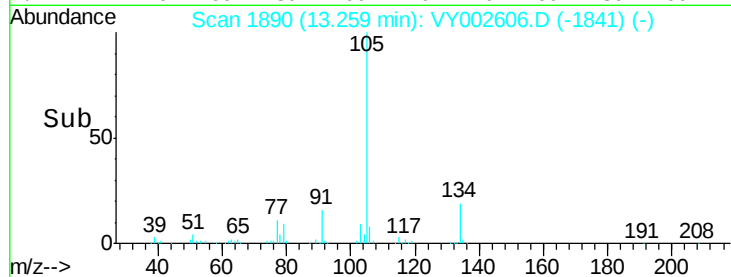
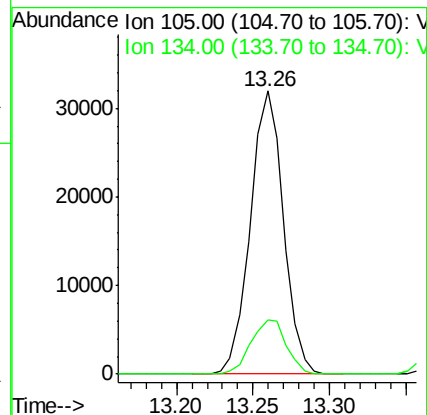
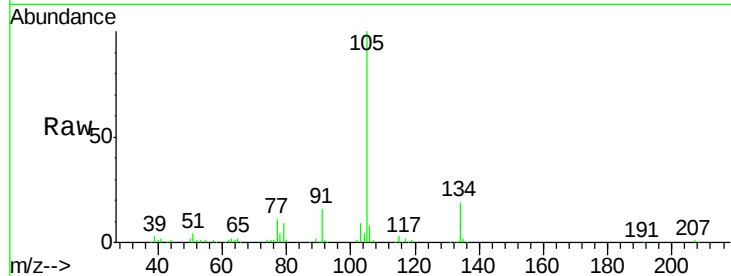
134 20.4 10.8 32.3

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#86

p-Isopropyltoluene

Concen: 2.710 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

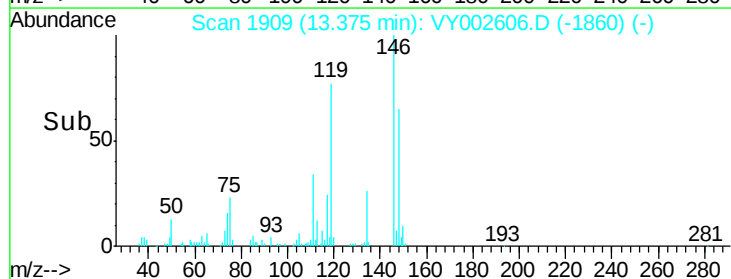
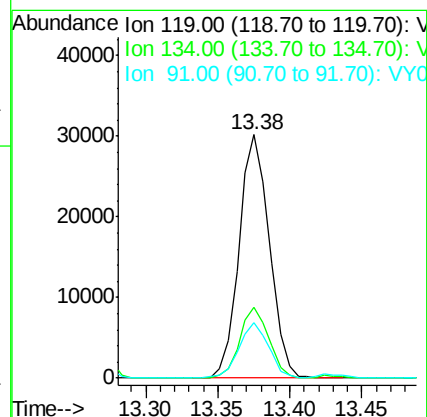
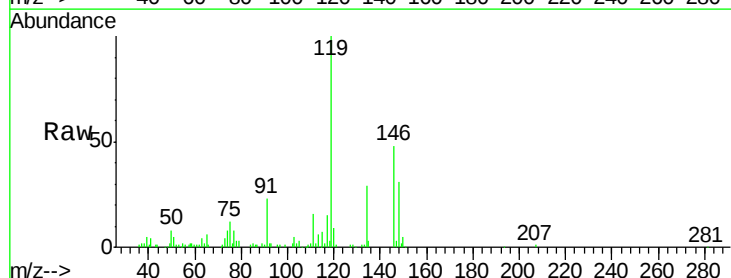
Tgt Ion:119 Resp: 44245

Ion Ratio Lower Upper

119 100

134 28.0 13.5 40.5

91 22.4 10.9 32.9





#87

1,3-Dichlorobenzene

Concen: 2.771 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

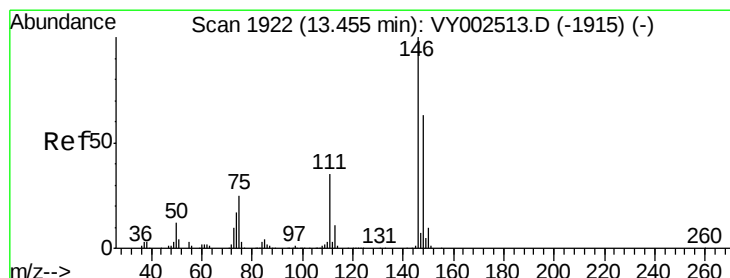
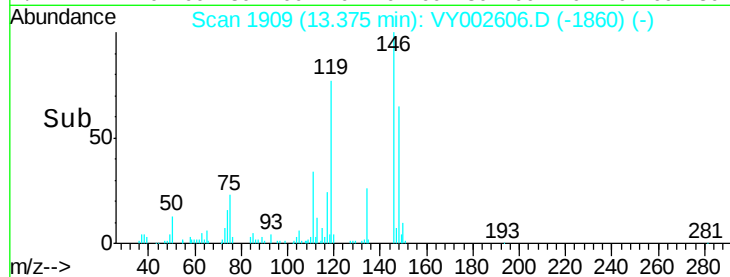
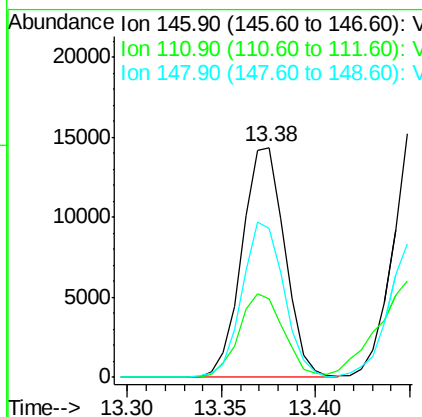
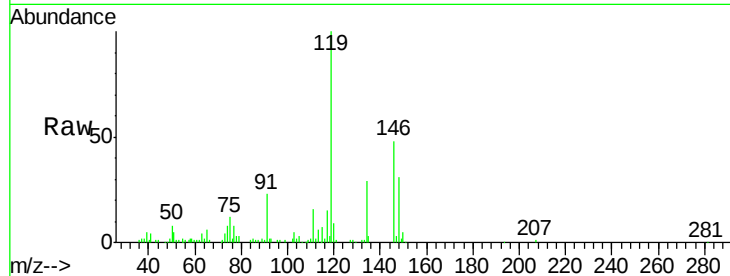
Instrument :
MSVOA_Y

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.8	56.3
148	66.0	32.1	96.3

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#88

1,4-Dichlorobenzene

Concen: 2.912 ug/l

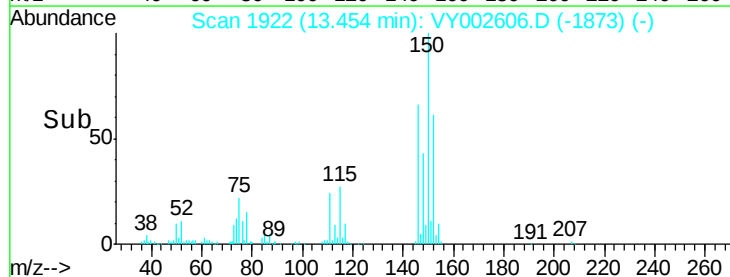
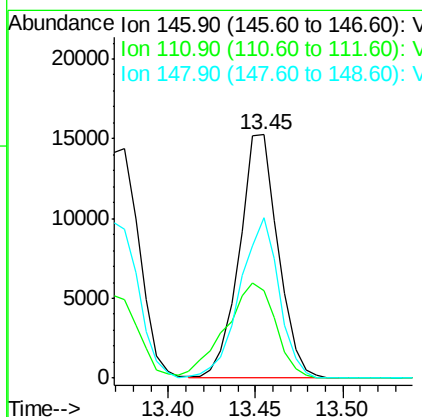
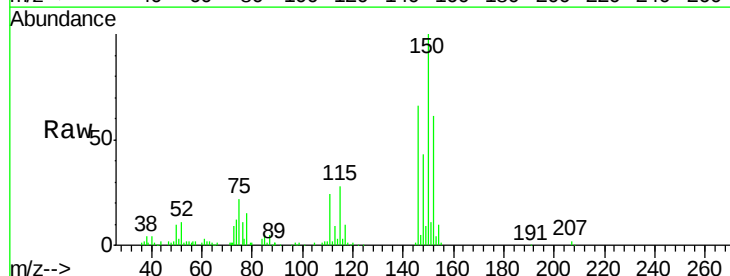
RT: 13.45 min Scan# 1922

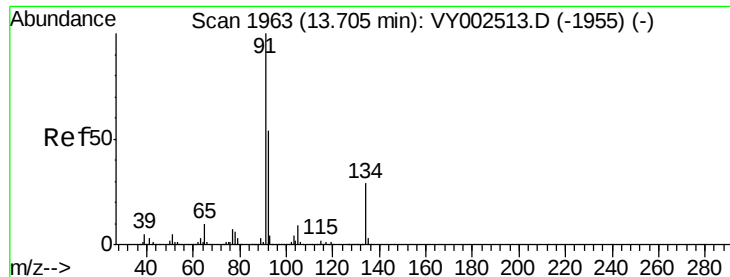
Delta R.T. -0.00 min

Lab File: VY002606.D

Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.4	18.1	54.1
148	66.6	31.9	95.5





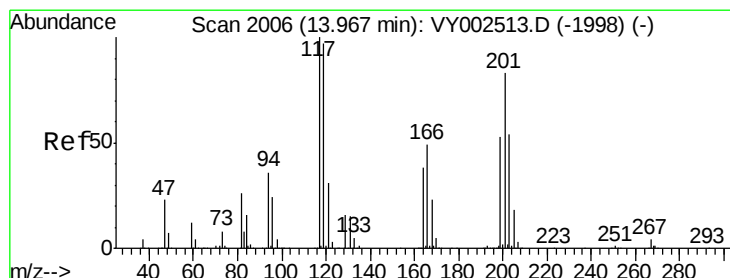
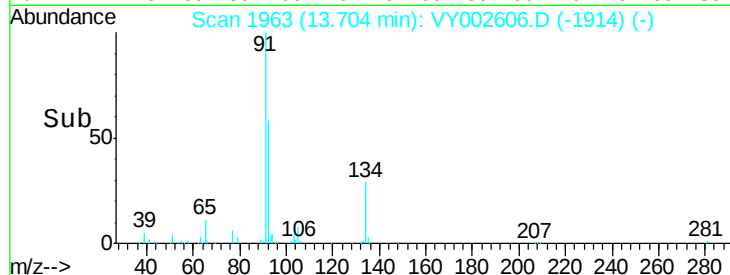
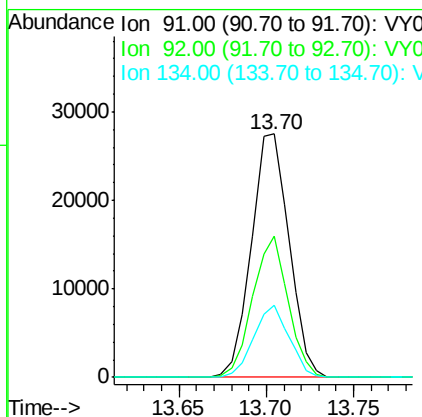
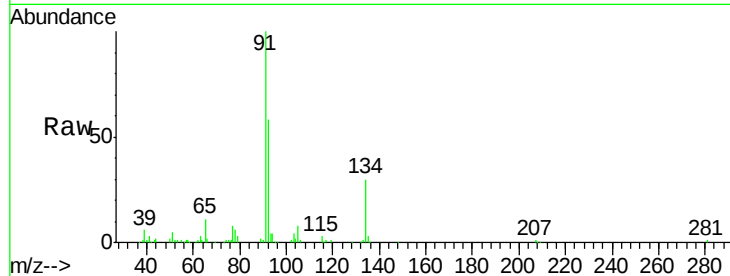
#89
n-Butylbenzene
Concen: 2.781 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.1	81.3
134	27.7	14.4	43.0

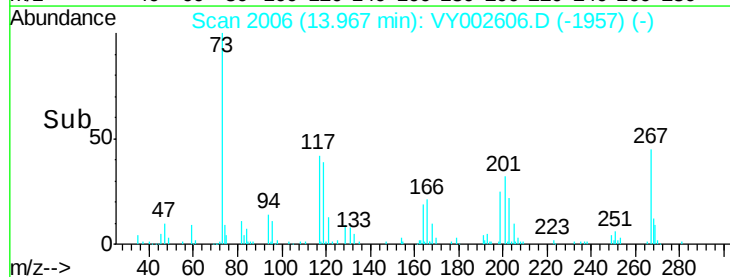
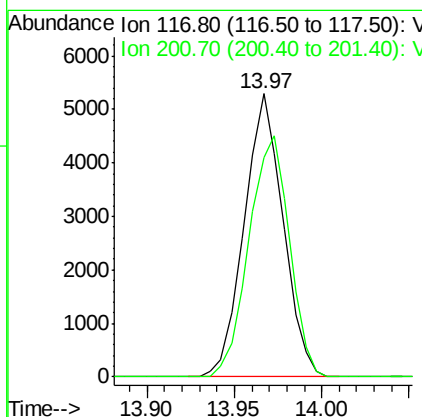
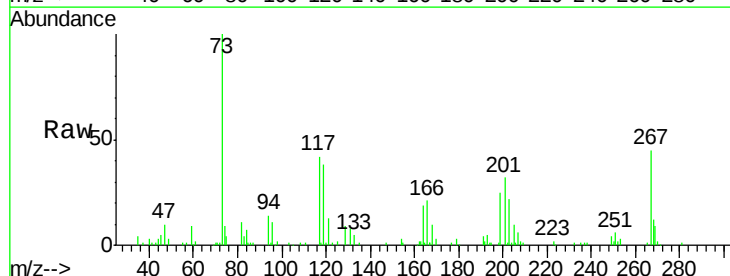
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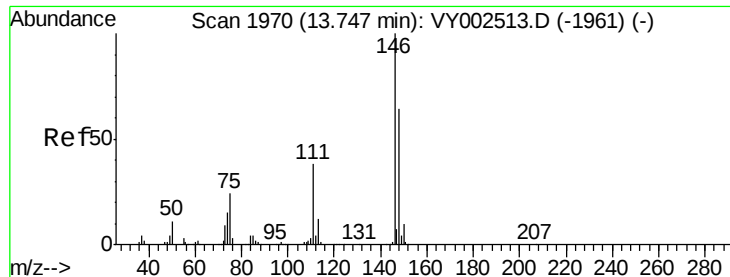
MMDadoda
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#90
Hexachloroethane
Concen: 2.746 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.7	44.4	133.2





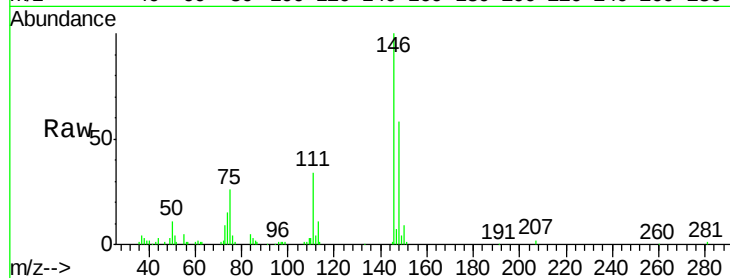
#91
 1,2-Dichlorobenzene
 Concen: 2.856 ug/l
 RT: 13.75 min Scan# 1970
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

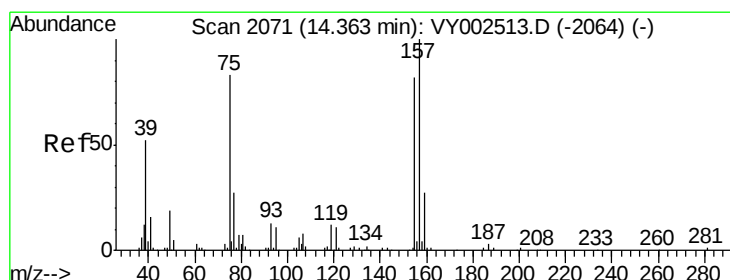
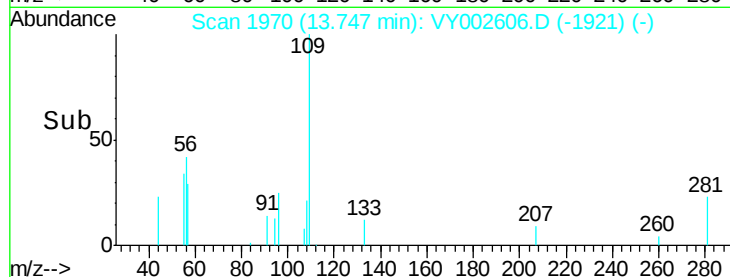
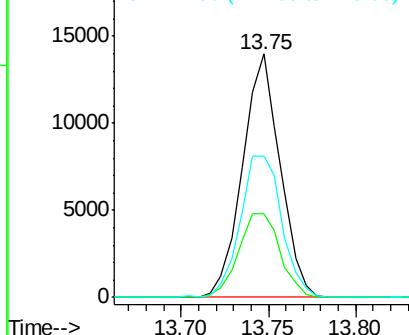
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.5
148	64.4	31.9	95.7

Manual Integrations
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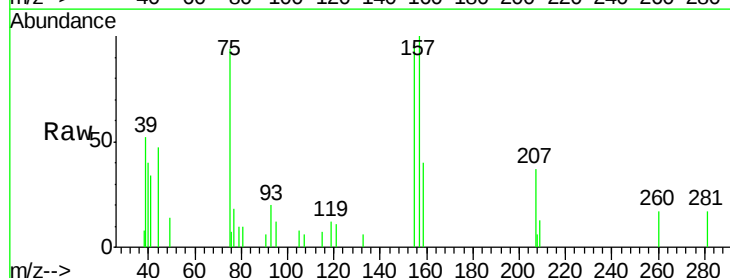


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

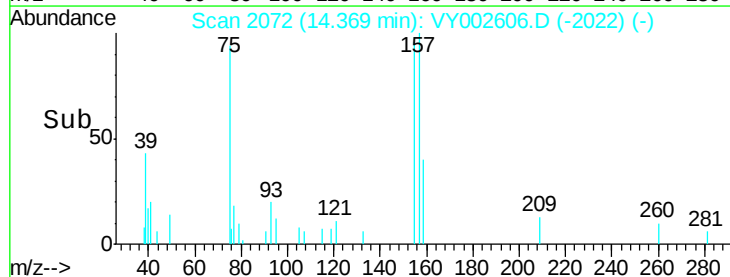
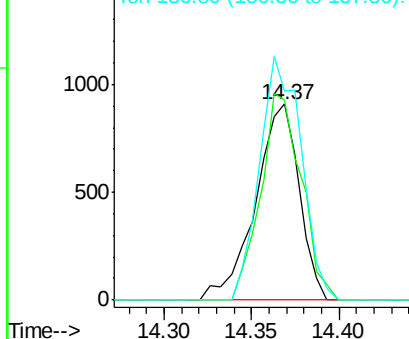


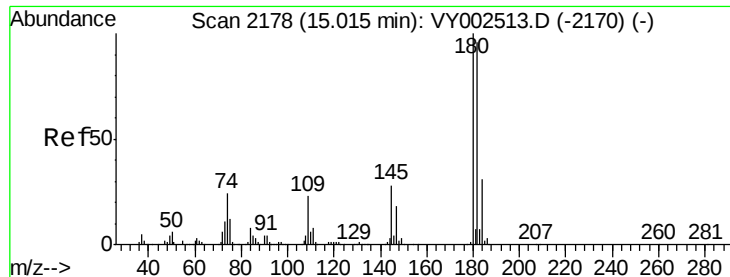
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.106 ug/l
 RT: 14.37 min Scan# 2072
 Delta R.T. 0.01 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.1	51.3	153.9
157	118.1	65.0	195.0



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





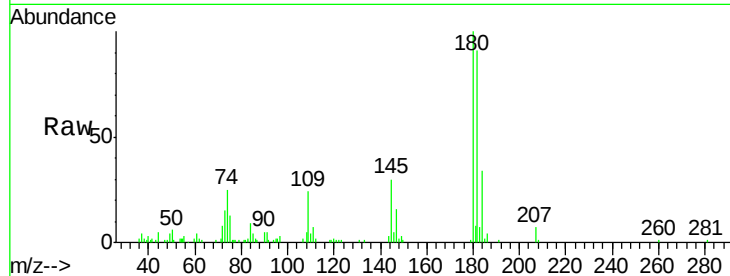
#93
 1,2,4-Trichlorobenzene
 Concen: 3.199 ug/l
 RT: 15.02 min Scan# 2178
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

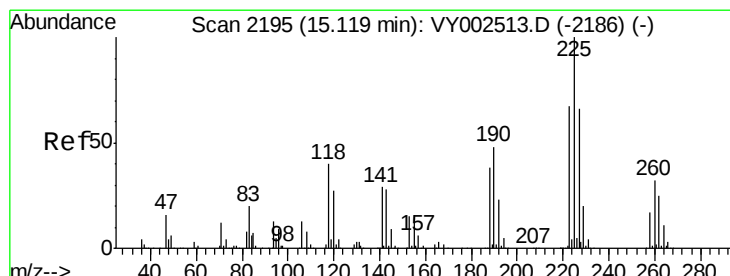
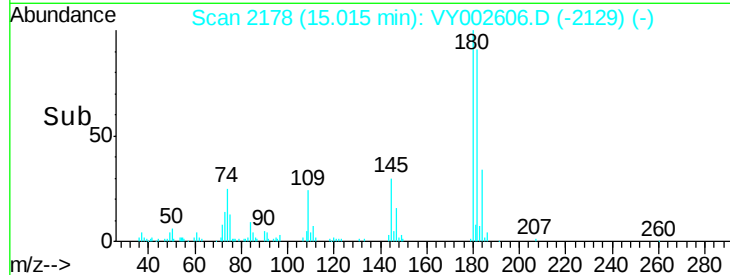
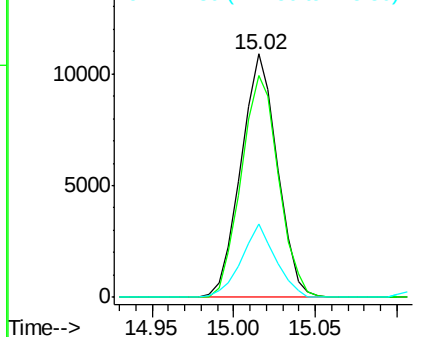
Tot Ion:	180	Resp:	16936
Ion Ratio	Lower	Upper	
180	100		
182	93.3	47.9	143.6
145	28.6	14.4	43.0

Manual Integrations
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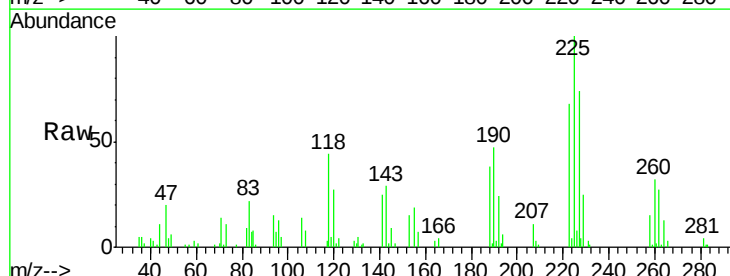


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

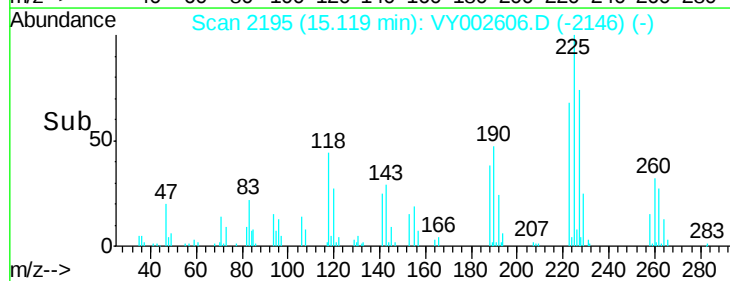
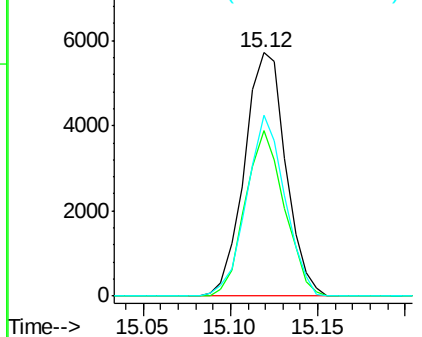


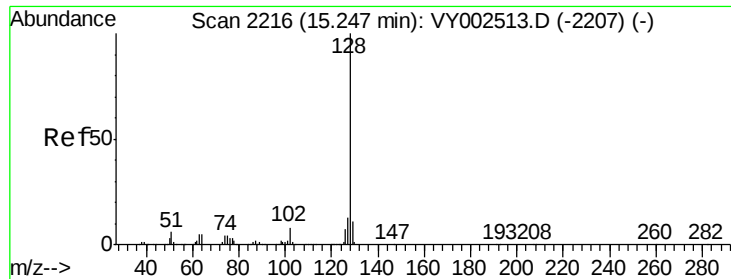
#94
 Hexachlorobutadiene
 Concen: 2.952 ug/l
 RT: 15.12 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VY002606.D
 Acq: 06 May 2020 11:42

Tgt Ion:	225	Resp:	9381
Ion Ratio	Lower	Upper	
225	100		
223	64.1	32.1	96.5
227	69.0	32.0	96.2



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





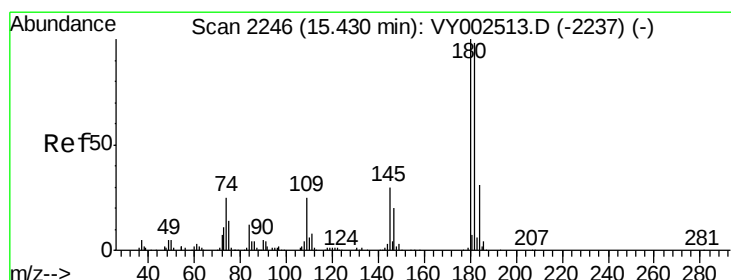
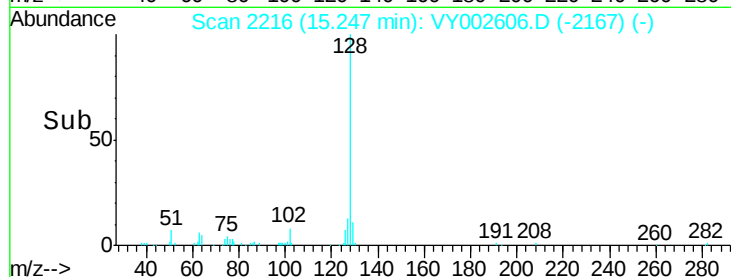
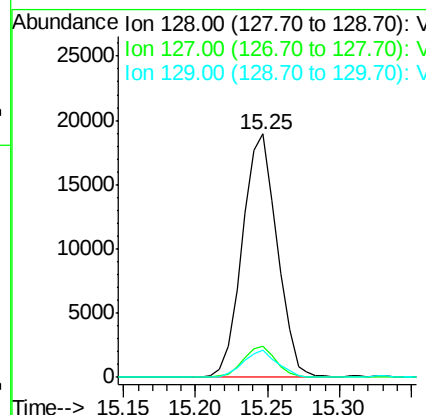
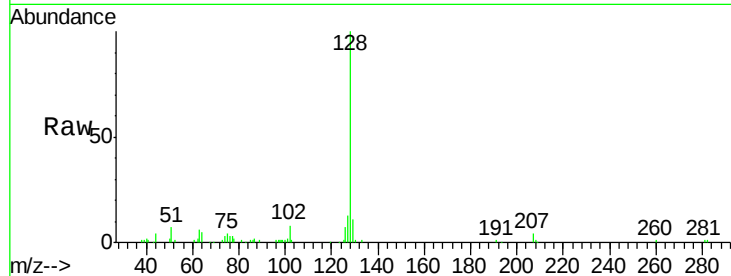
#95
Naphthalene
Concen: 3.284 ug/l
RT: 15.25 min Scan# 2216
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.5	15.7
129	11.0	8.8	13.2

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5/7/2020 10:35:26 AM



#96
1,2,3-Trichlorobenzene
Concen: 3.458 ug/l
RT: 15.43 min Scan# 2246
Delta R.T. -0.00 min
Lab File: VY002606.D
Acq: 06 May 2020 11:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.9	143.8
145	33.0	15.0	45.1

