

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019236.D
 Acq On : 03 Nov 2020 15:12
 Operator : SY/MD
 Sample : L4485-19
 Misc : 5.0µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-05

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 7:00:31 PM

Quant Time: Nov 04 07:36:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	243642	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	236225	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	121957	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83679	44.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.00%
7) Chloroethane-d5	1.58	69	73135	49.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.28%
11) 1,1-Dichloroethene-d2	2.12	63	133539	38.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.72%
21) 2-Butanone-d5	3.90	46	112673	108.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.68%
24) Chloroform-d	4.37	84	166494	47.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.62%
26) 1,2-Dichloroethane-d4	5.05	65	119482	48.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.46%
32) Benzene-d6	5.07	84	311864	47.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.62%
36) 1,2-Dichloropropane-d6	6.09	67	98514	50.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.16%
41) Toluene-d8	7.34	98	284840	46.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.76%
43) trans-1,3-Dichloropropene-	7.64	79	52486	47.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.20%
47) 2-Hexanone-d5	8.11	63	72901	96.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.42%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120305	46.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.72%
66) 1,2-Dichlorobenzene-d4	11.65	152	121832	49.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3408	2.283	ug/L	99
3) Chloromethane	1.25	50	3670	2.361	ug/L	96
5) Vinyl chloride	1.32	62	4432	2.739	ug/L #	65
6) Bromomethane	1.53	94	2911	2.677	ug/L	99
8) Chloroethane	1.60	64	2705	2.556	ug/L	89
9) Trichlorofluoromethane	1.77	101	6458	2.411	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4649	3.653	ug/L #	76
12) 1,1-Dichloroethene	2.13	96	4231	3.217	ug/L #	1
13) Acetone	2.19	43	4510	5.720	ug/L	99
14) Carbon disulfide	2.31	76	9378	2.483	ug/L	98
15) Methyl Acetate	2.45	43	3598	2.355	ug/L	94
16) Methylene chloride	2.52	84	4287	2.742	ug/L	90
17) trans-1,2-Dichloroethene	2.78	96	3455	2.421	ug/L	88
18) Methyl tert-butyl Ether	2.78	73	11183	2.230	ug/L	99
19) 1,1-Dichloroethane	3.22	63	6594	2.359	ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	3794	2.406	ug/L	82
22) 2-Butanone	4.02	43	3325m	3.322	ug/L	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	1996	2.299	ug/L	91
25) Chloroform	4.40	83	8455	2.821	ug/L	98
27) 1,2-Dichloroethane	5.16	62	6457	2.534	ug/L	99
29) Cyclohexane	4.70	56	4401	2.177	ug/L	86
30) 1,1,1-Trichloroethane	4.63	97	6203	2.264	ug/L	99
31) Carbon tetrachloride	4.86	117	5560	2.350	ug/L	97
33) Benzene	5.13	78	13348m	2.274	ug/L	
34) Trichloroethene	5.94	95	3897	2.443	ug/L	94
35) Methylcyclohexane	6.15	83	5055	2.618	ug/L	94
37) 1,2-Dichloropropane	6.20	63	3895	2.486	ug/L #	88
38) Bromodichloromethane	6.53	83	5085	2.255	ug/L	95
39) cis-1,3-Dichloropropene	7.05	75	5546	2.212	ug/L	97
40) 4-Methyl-2-pentanone	7.25	43	8655	4.112	ug/L	97
42) Toluene	7.42	91	16873	2.659	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	5692	2.216	ug/L	93
45) 1,1,2-Trichloroethane	7.87	97	3430	2.215	ug/L	94
46) Tetrachloroethene	8.00	164	3008	2.311	ug/L	91
48) 2-Hexanone	8.16	43	10045	6.313	ug/L #	91
49) Dibromochloromethane	8.27	129	4237	2.294	ug/L	92
50) 1,2-Dibromoethane	8.38	107	3802	2.369	ug/L #	92
51) Chlorobenzene	8.90	112	10211	2.406	ug/L	97
52) Ethylbenzene	9.04	91	15546	2.221	ug/L	98
53) m,p-Xylene	9.16	106	5827	2.223	ug/L	91
54) o-Xylene	9.57	106	5441	2.106	ug/L	98
55) Styrene	9.59	104	9047	1.967	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.26	83	5476	2.337	ug/L	89
59) Bromoform	9.76	173	2911	2.151	ug/L #	94
60) Isopropylbenzene	9.95	105	14019	2.193	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	4525	2.388	ug/L	97
62) 1,3,5-Trimethylbenzene	10.56	105	11126	2.090	ug/L	91
63) 1,2,4-Trimethylbenzene	10.94	105	10844	2.082	ug/L	99
64) 1,3-Dichlorobenzene	11.21	146	8046	2.407	ug/L	95
65) 1,4-Dichlorobenzene	11.29	146	8747	2.529	ug/L	97
67) 1,2-Dichlorobenzene	11.67	146	8657	2.531	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.46	75	1121	2.028	ug/L #	82
69) 1,3,5-Trichlorobenzene	12.67	180	5548	2.312	ug/L	98
70) 1,2,4-trichlorobenzene	13.29	180	4608	2.041	ug/L	98
71) Naphthalene	13.53	128	9769	1.534	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4750	2.122	ug/L	96

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

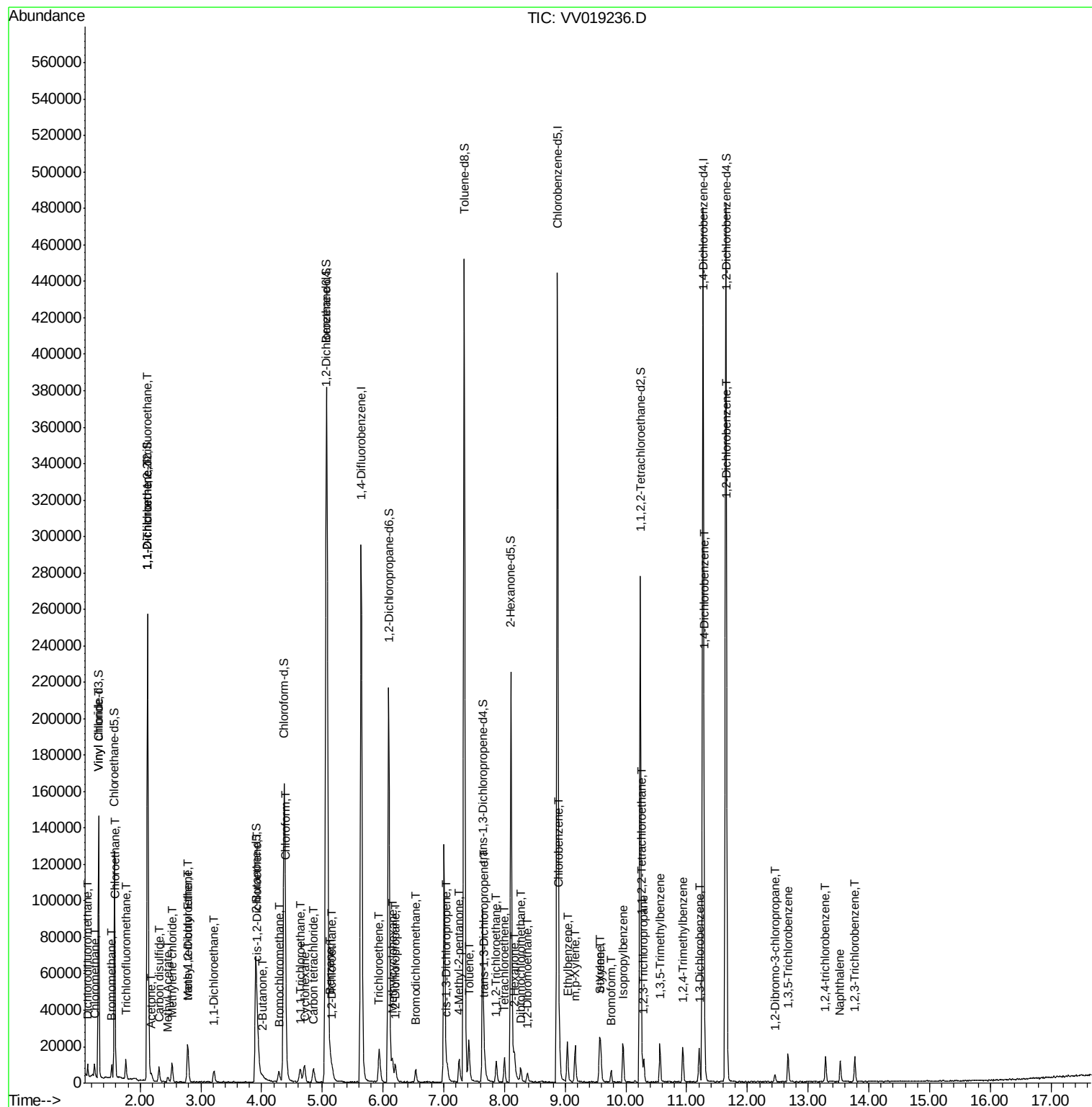
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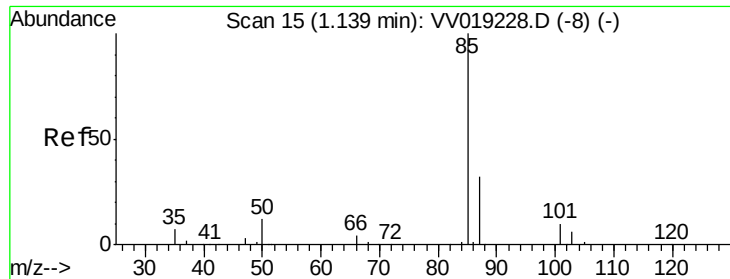
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

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QLast Update : Wed Nov 04 07:03:57 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.283 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 85 Resp: 3408

Ion Ratio Lower Upper

85 100

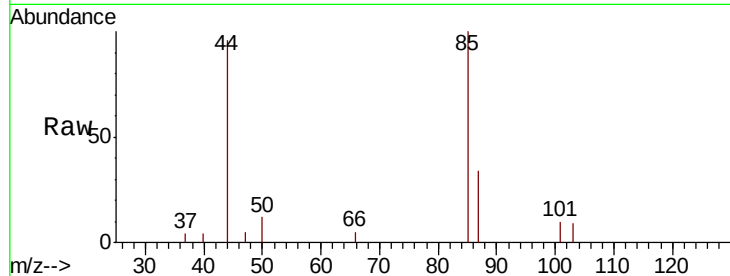
87 33.0 25.9 38.9

Manual Integrations

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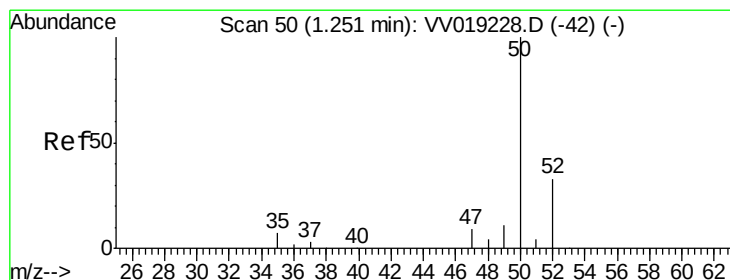
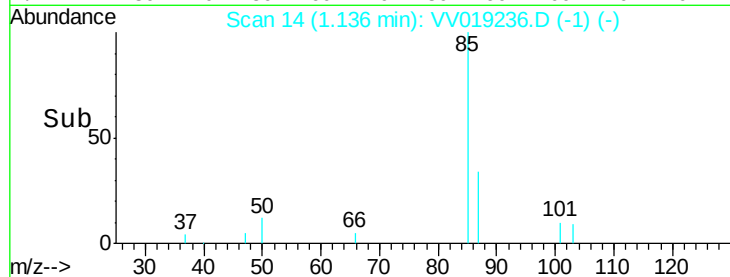
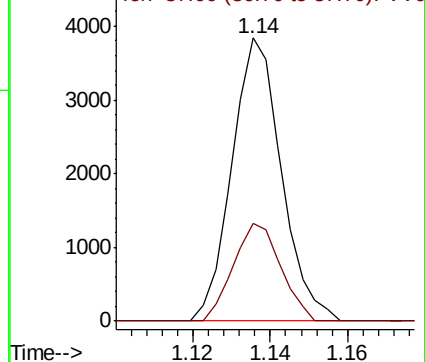
MMDadoda

11/5/2020 7:00:31 PM



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.361 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019236.D

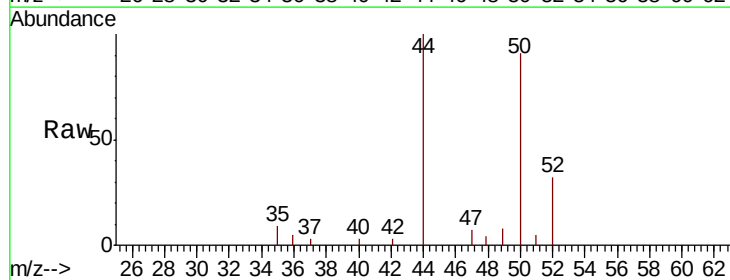
Acq: 03 Nov 2020 15:12

Tgt Ion: 50 Resp: 3670

Ion Ratio Lower Upper

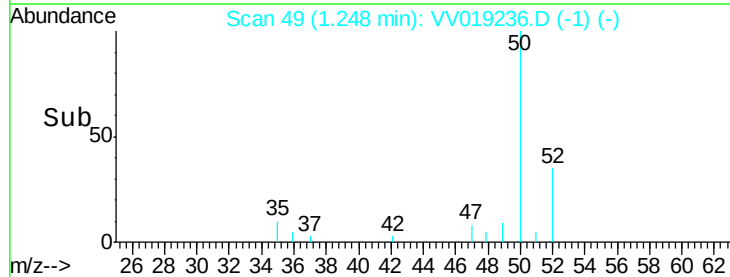
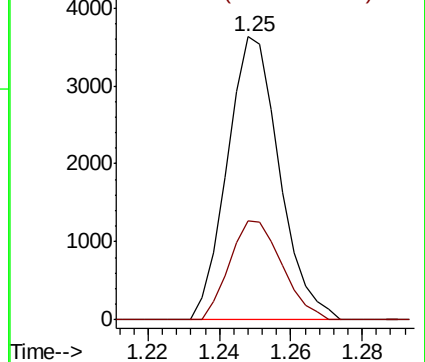
50 100

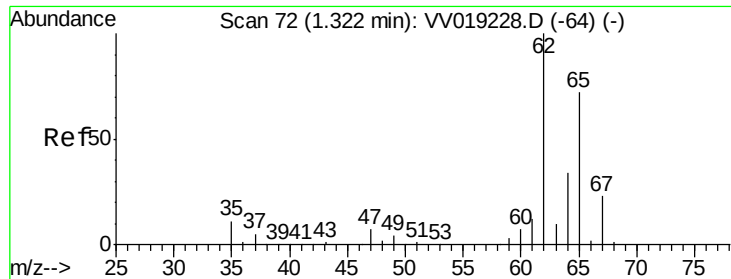
52 35.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.739 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 62 Resp: 4432

Ion Ratio Lower Upper

62 100

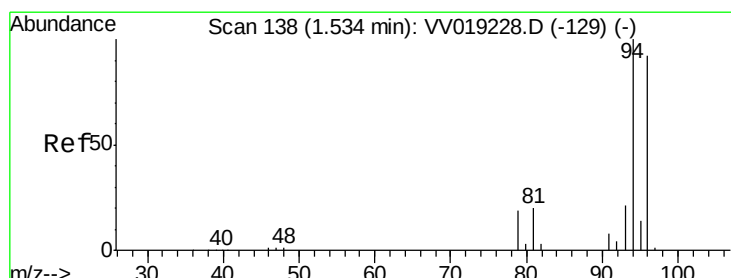
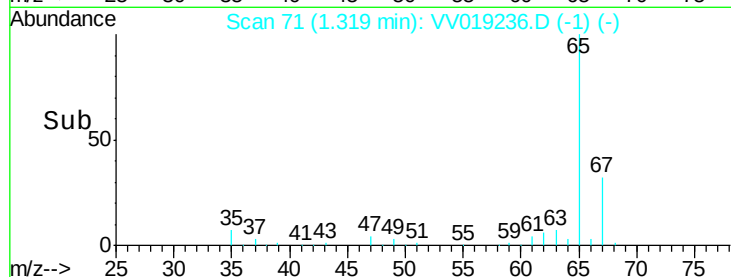
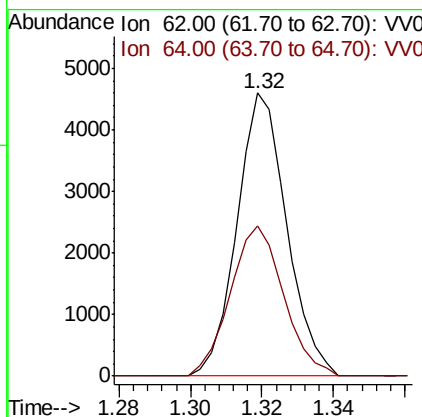
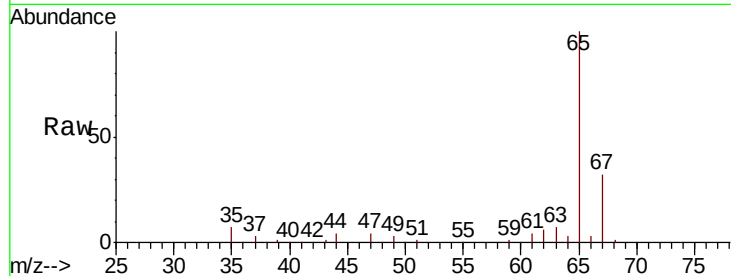
64 53.0 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.677 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019236.D

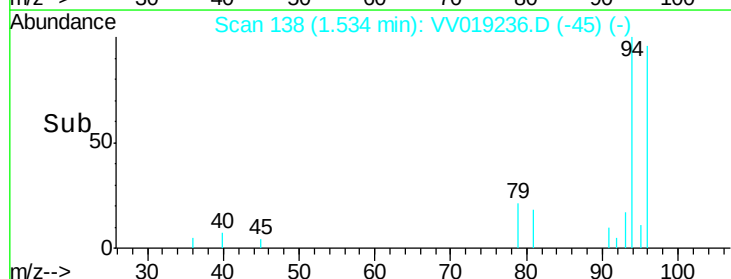
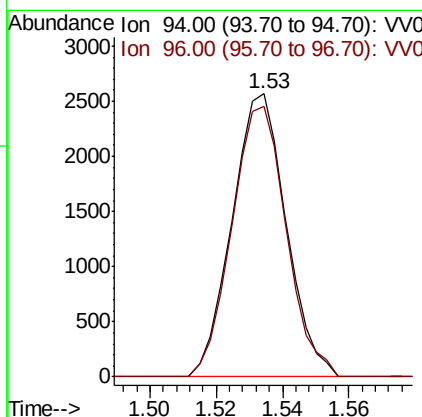
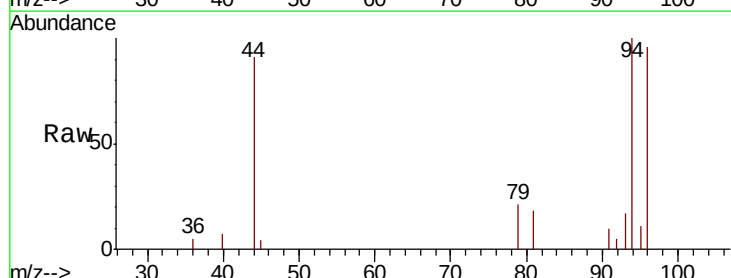
Acq: 03 Nov 2020 15:12

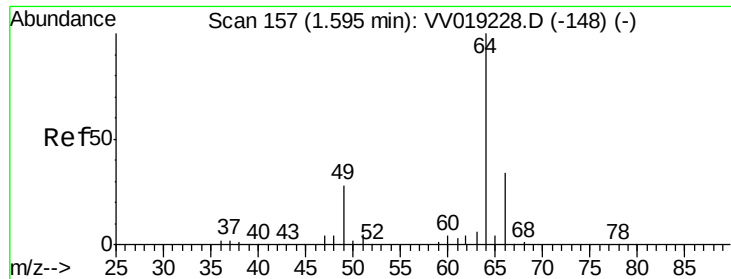
Tgt Ion: 94 Resp: 2911

Ion Ratio Lower Upper

94 100

96 95.6 66.4 123.2





#8

Chloroethane

Concen: 2.556 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 64 Resp: 2705

Ion Ratio Lower Upper

64 100

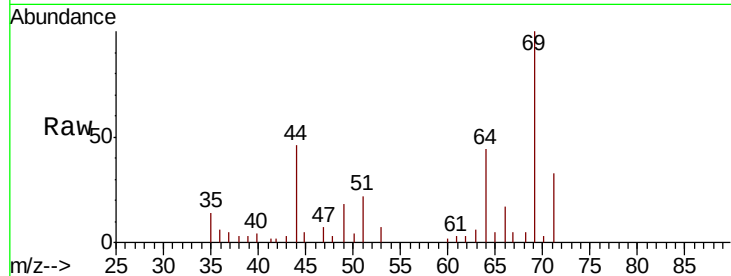
66 38.5 22.5 41.9

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VV019228.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV019228.D (-148) (-)

1.60

2500

2000

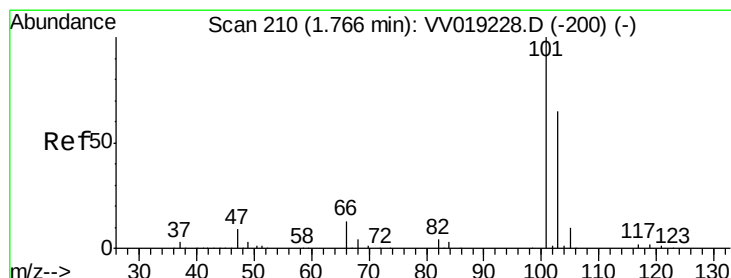
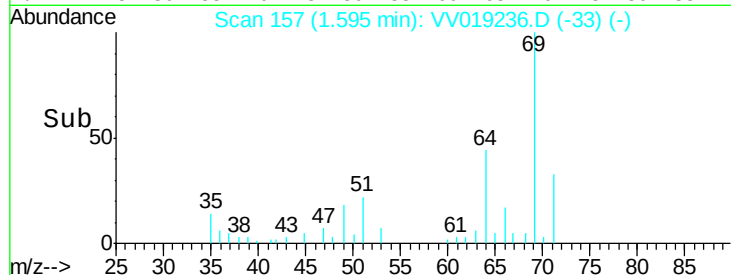
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.411 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019236.D

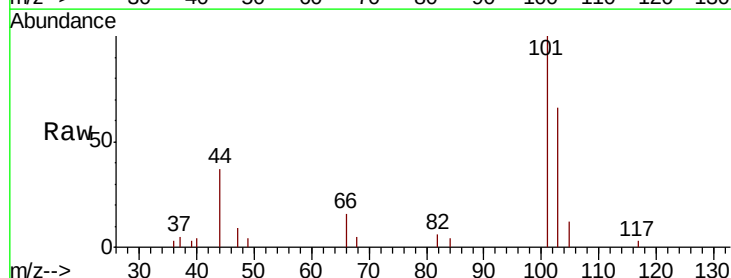
Acq: 03 Nov 2020 15:12

Tgt Ion: 101 Resp: 6458

Ion Ratio Lower Upper

101 100

103 63.7 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019228.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019228.D (-200) (-)

1.77

5000

4000

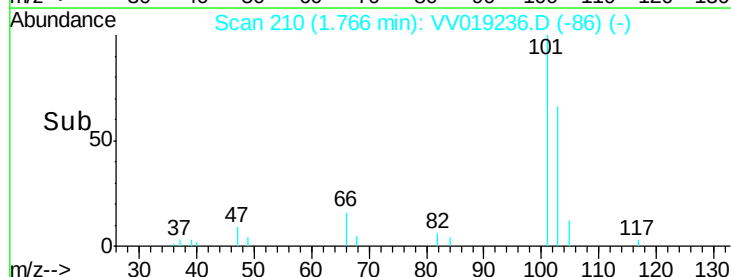
3000

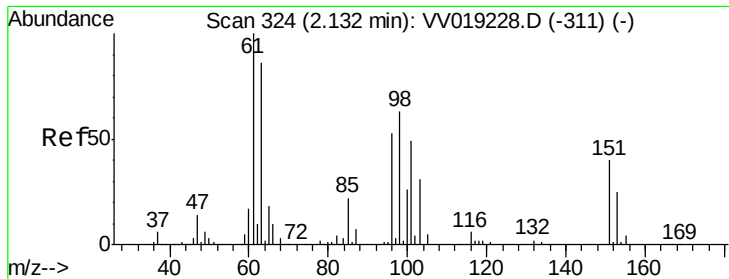
2000

1000

0

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.653 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

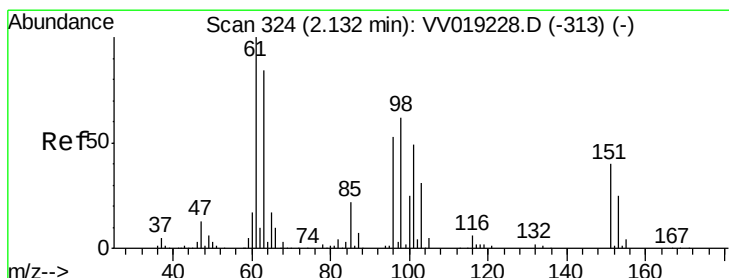
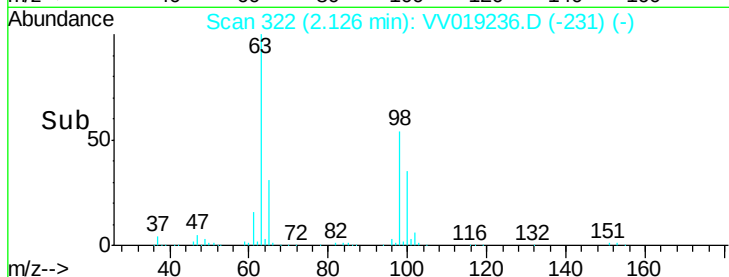
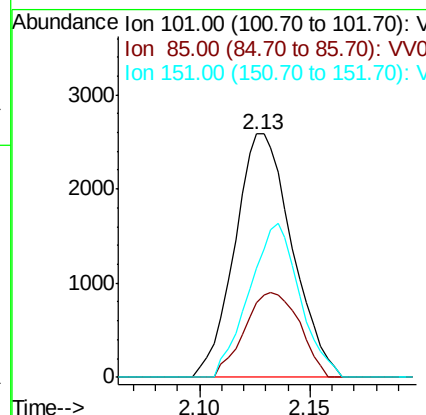
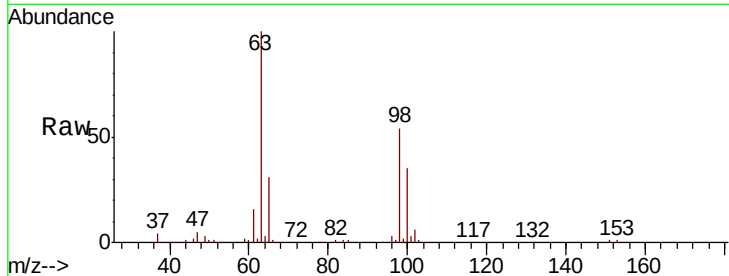
ClientSampleId :

MDL-ME-SOIL-05

Tot Ion:	101	Resp:	4649
Ion Ratio	Lower	Upper	
101	100		
85	33.4	35.6	53.4#
151	55.8	64.1	96.1#

Manual Integrations
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11/5/2020 7:00:31 PM



#12

1,1-Dichloroethene

Concen: 3.217 ug/L

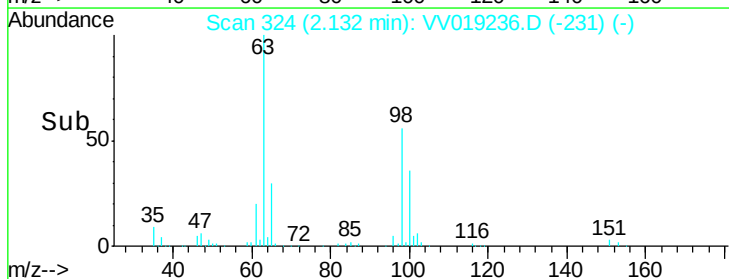
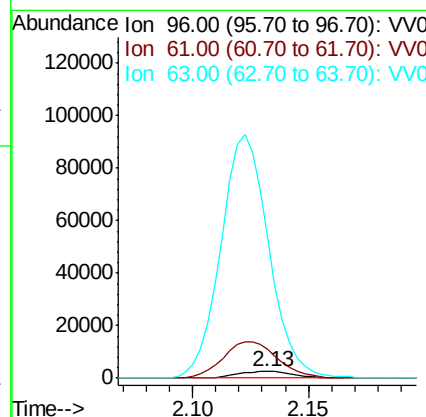
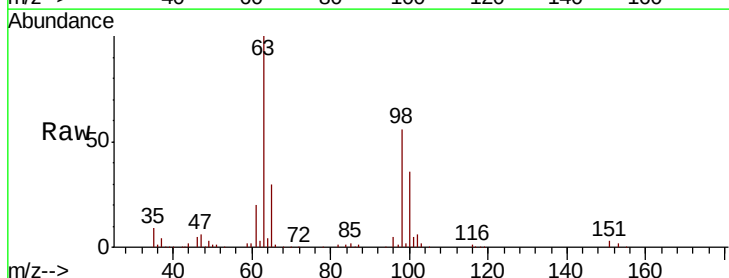
RT: 2.13 min Scan# 324

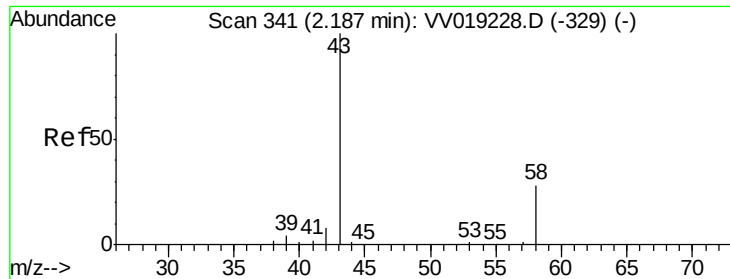
Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion:	96	Resp:	4231
Ion Ratio	Lower	Upper	
96	100		
61	418.3	133.6	248.0#
63	2044.5	103.0	191.2#





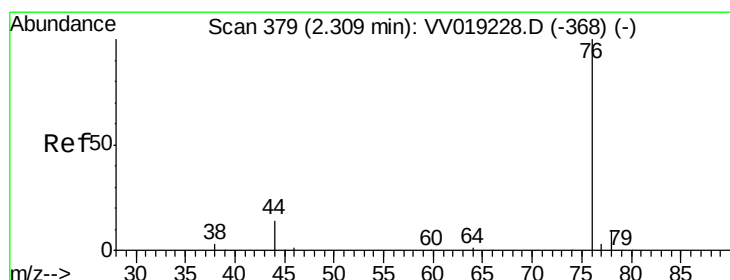
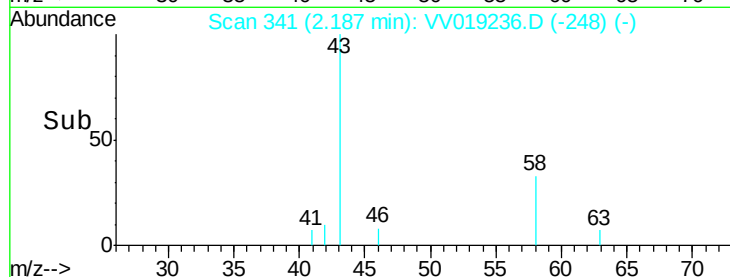
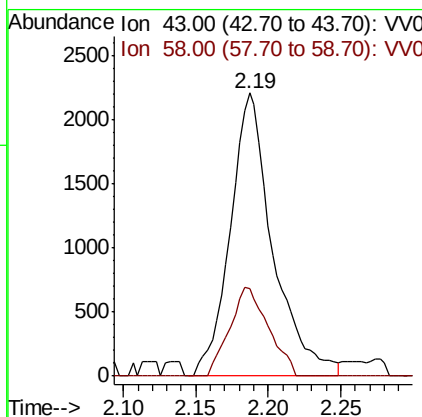
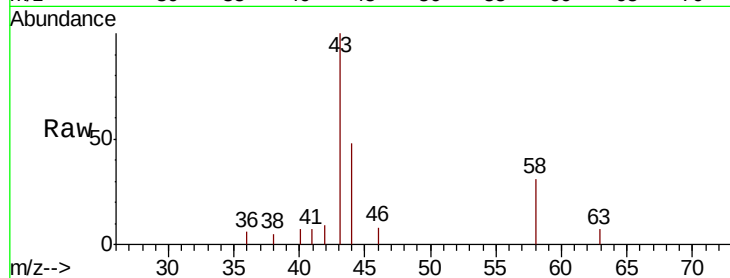
#13
Acetone
Concen: 5.720 ug/L
RT: 2.19 min Scan# 341
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 4510
Ion Ratio Lower Upper
43 100
58 28.5 0.0 57.8

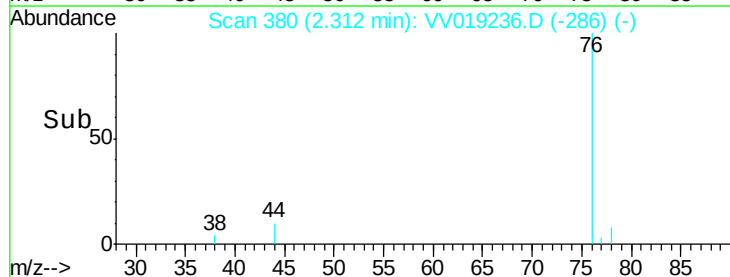
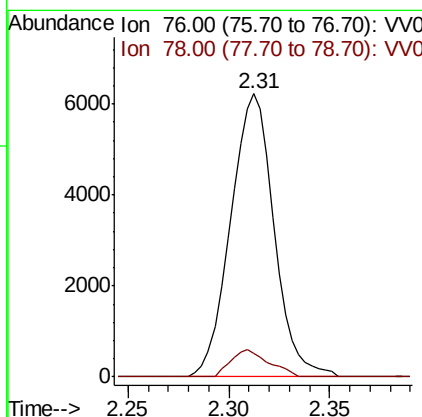
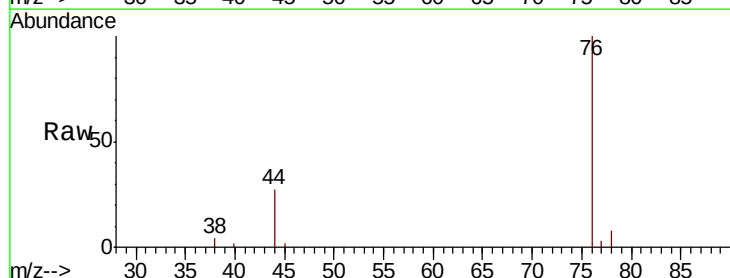
Manual Integrations
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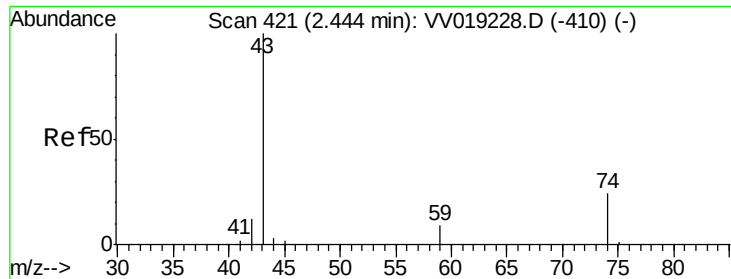
MMDadoda
11/5/2020 7:00:31 PM



#14
Carbon disulfide
Concen: 2.483 ug/L
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 76 Resp: 9378
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.0





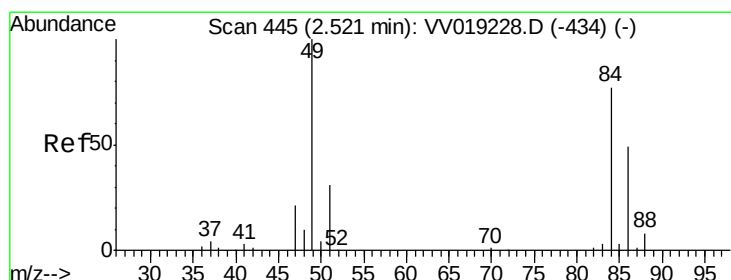
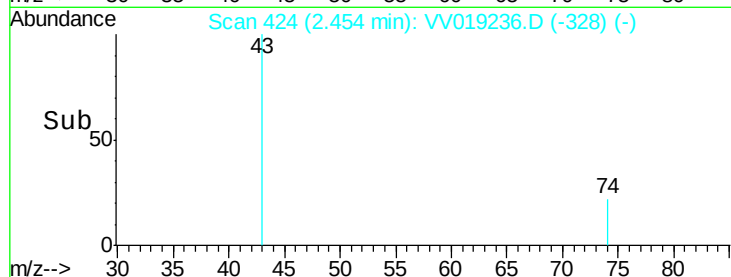
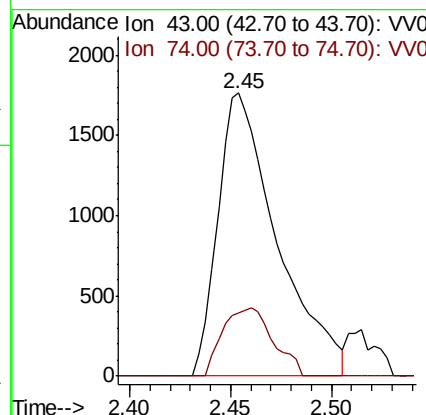
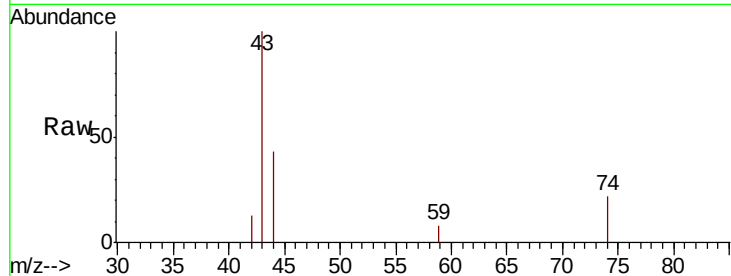
#15
Methvl Acetate
Concen: 2.355 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 3598
Ion Ratio Lower Upper
43 100
74 20.5 18.8 28.2

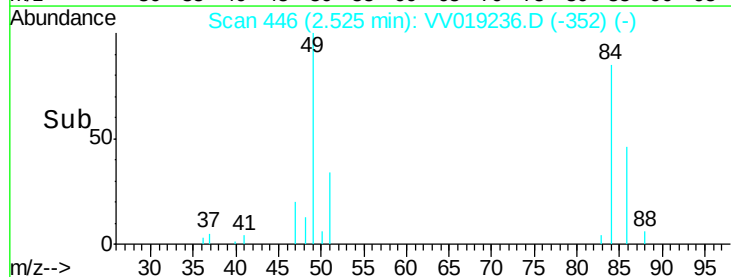
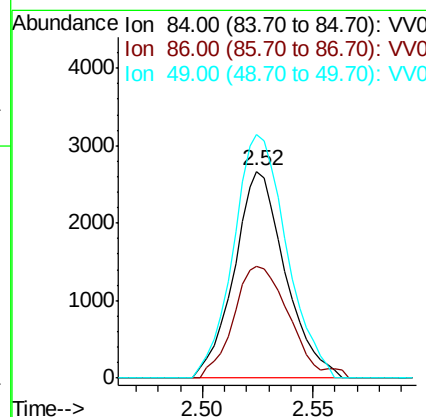
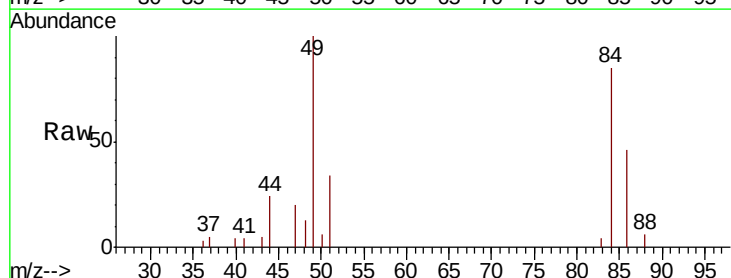
Manual Integrations
APPROVED

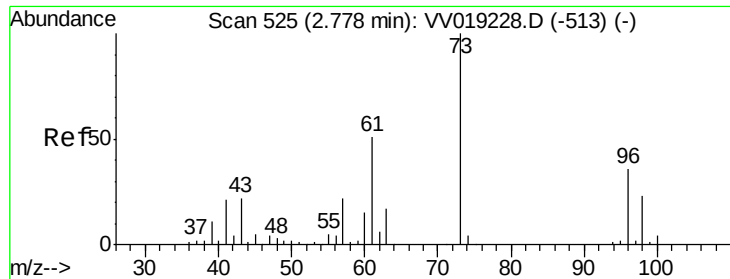
MMDadoda
11/5/2020 7:00:31 PM



#16
Methylene chloride
Concen: 2.742 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 84 Resp: 4287
Ion Ratio Lower Upper
84 100
86 54.2 45.6 84.8
49 117.9 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.421 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

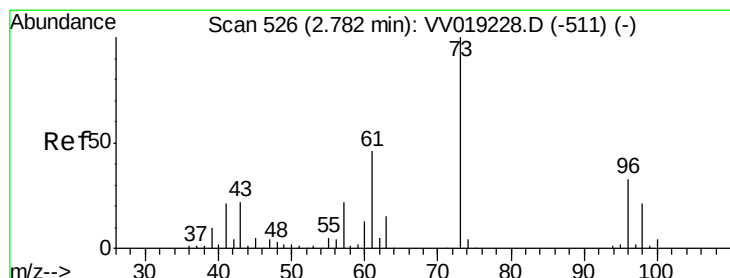
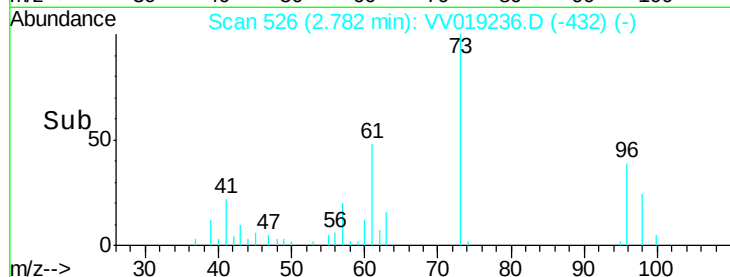
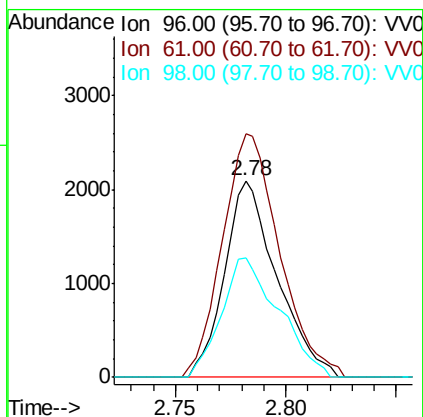
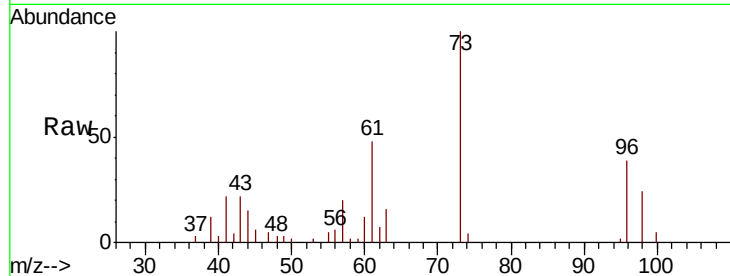
ClientSampleId :

MDL-ME-SOIL-05

Tot Ion:	96	Resp:	3455
Ion	Ratio	Lower	Upper
96	100		
61	123.8	100.7	187.1
98	61.0	42.9	79.7

Manual Integrations
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#18

Methyl tert-butyl Ether

Concen: 2.230 ug/L

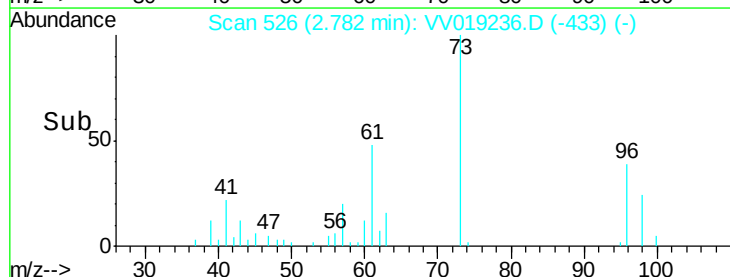
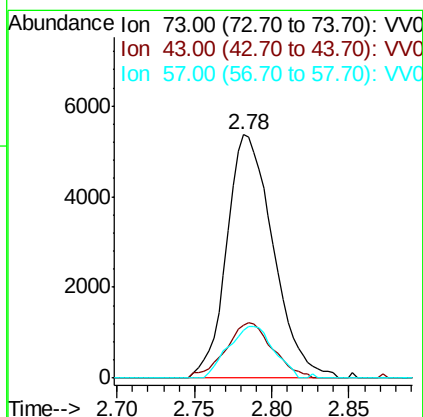
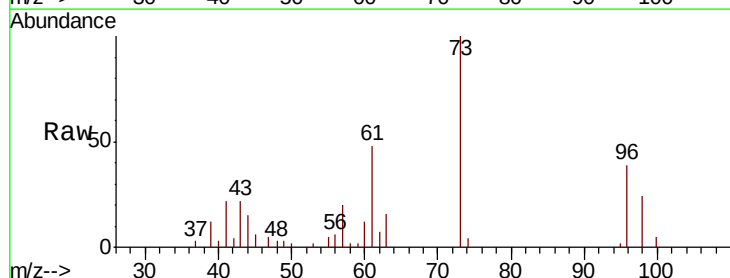
RT: 2.78 min Scan# 526

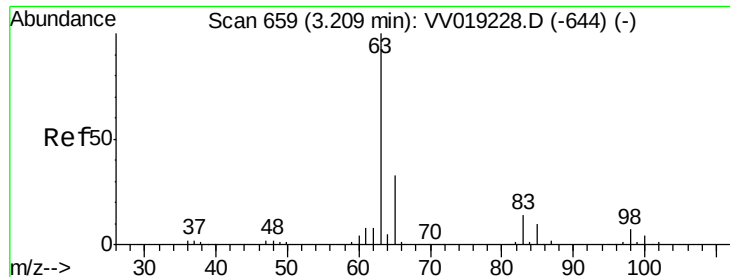
Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion:	73	Resp:	11183
Ion	Ratio	Lower	Upper
73	100		
43	22.9	17.9	26.9
57	20.8	17.1	25.7





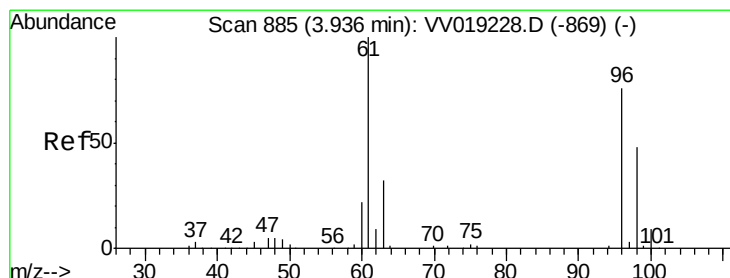
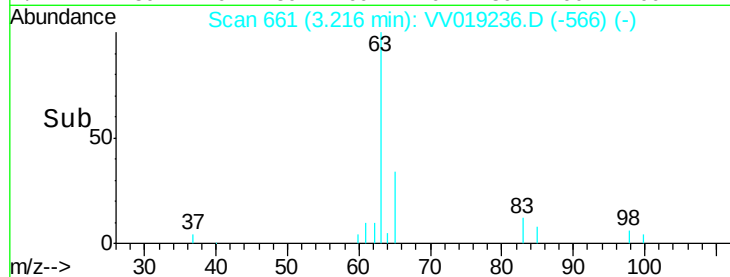
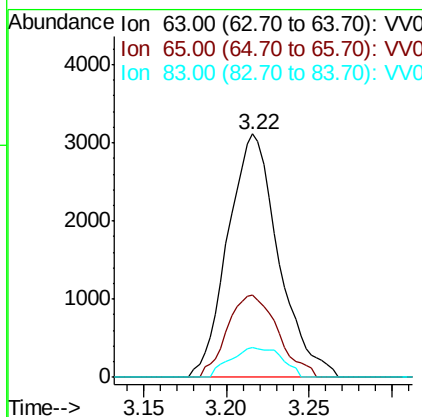
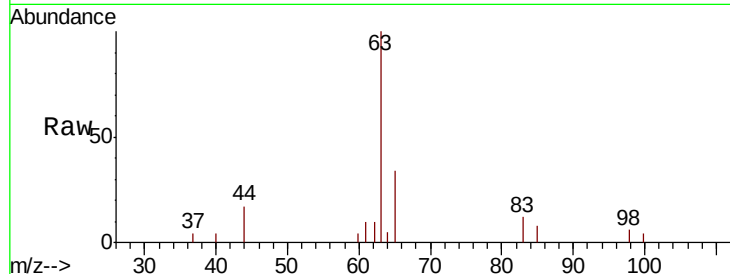
#19
 1,1-Dichloroethane
 Concen: 2.359 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion:	63	Resp:	6594
Ion	Ratio	Lower	Upper
63	100		
65	34.0	21.8	40.6
83	12.5	9.5	17.7

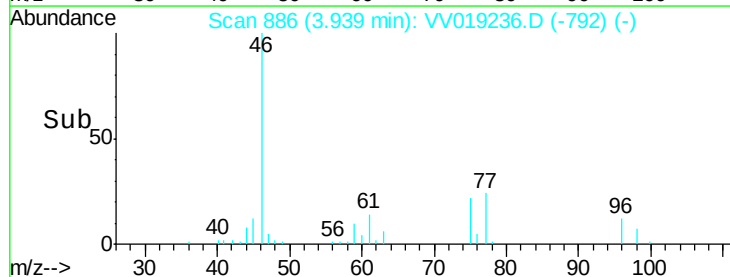
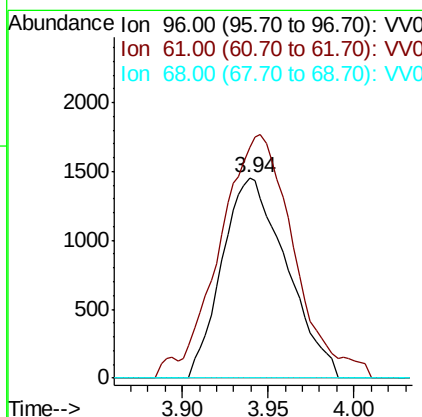
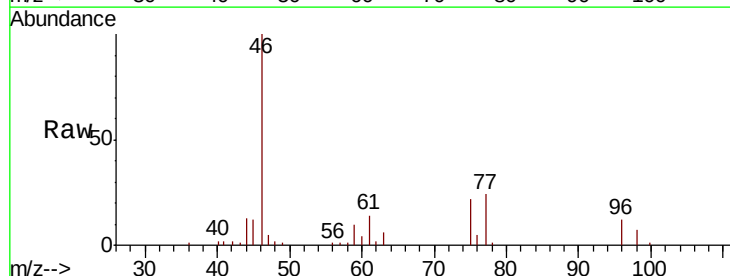
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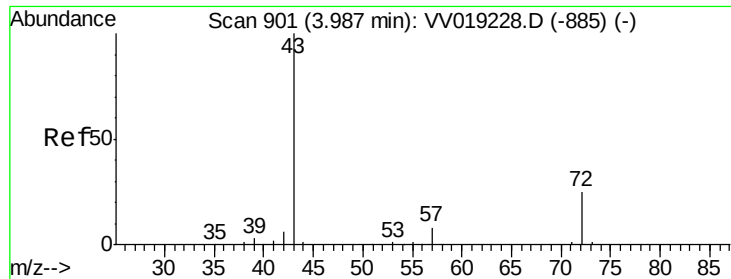
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.406 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion:	96	Resp:	3794
Ion	Ratio	Lower	Upper
96	100		
61	115.0	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.322 ug/L m

RT: 4.02 min Scan# 911

Delta R.T. 0.03 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 43 Resp: 3325

Ion Ratio Lower Upper

43 100

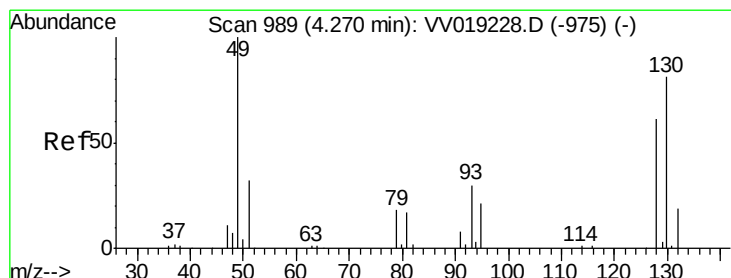
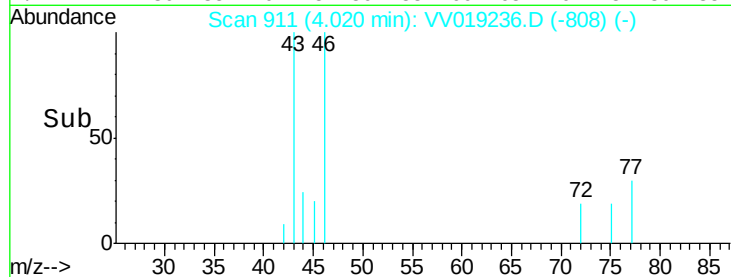
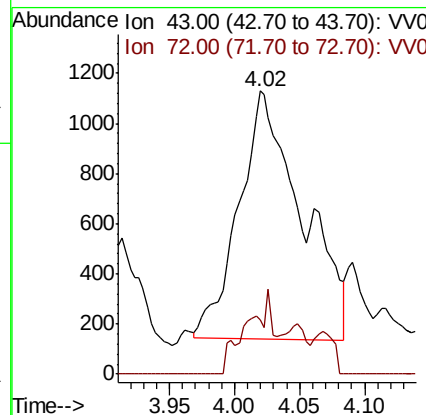
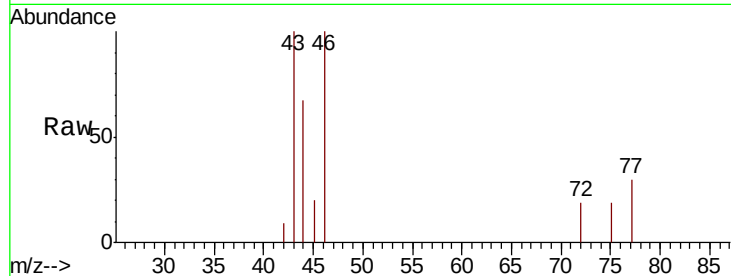
72 8.0 12.7 38.0#

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#23

Bromochloromethane

Concen: 2.299 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.02 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion: 128 Resp: 1996

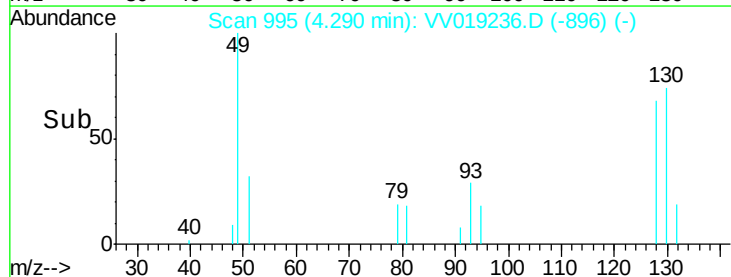
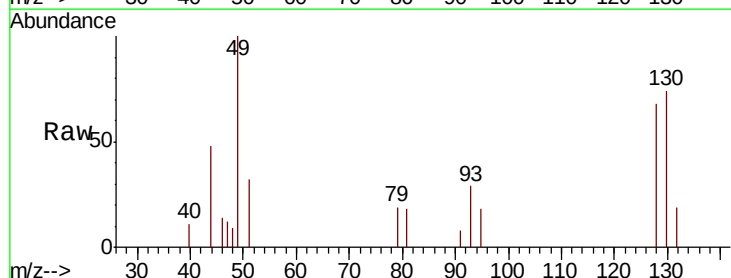
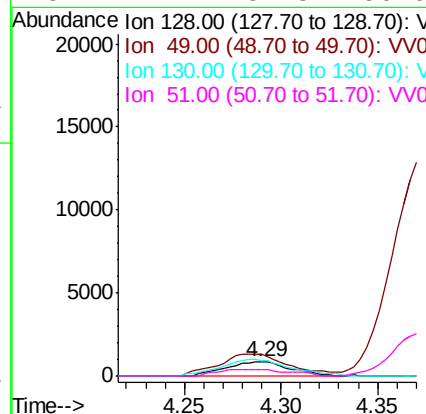
Ion Ratio Lower Upper

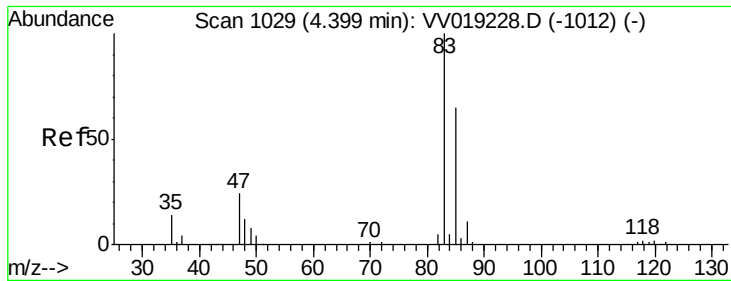
128 100

49 146.8 108.8 202.2

130 108.1 88.5 164.3

51 47.1 37.8 56.6





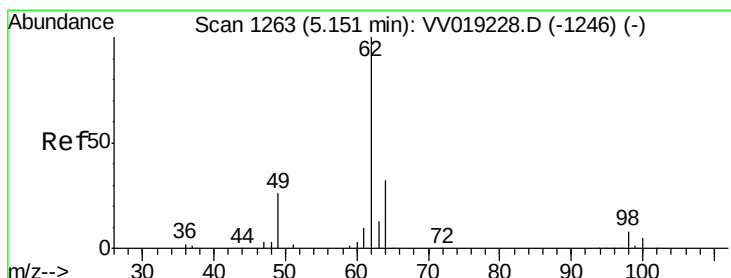
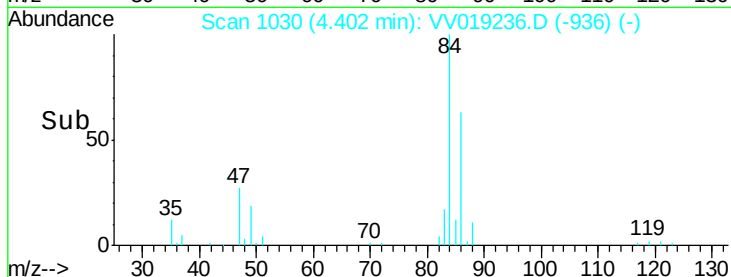
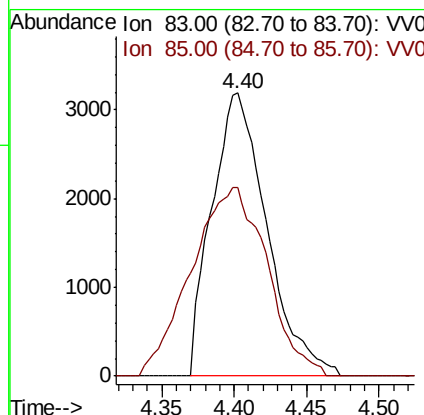
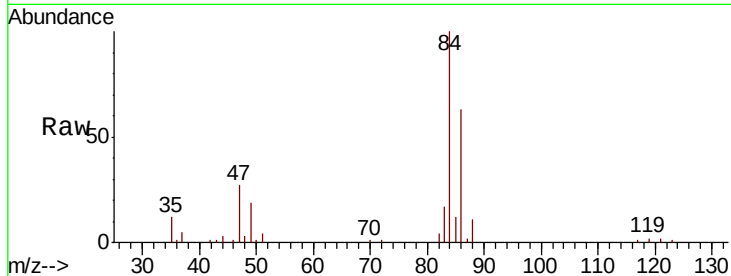
#25
Chloroform
Concen: 2.821 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 83 Resp: 8455
Ion Ratio Lower Upper
83 100
85 66.8 45.4 84.4

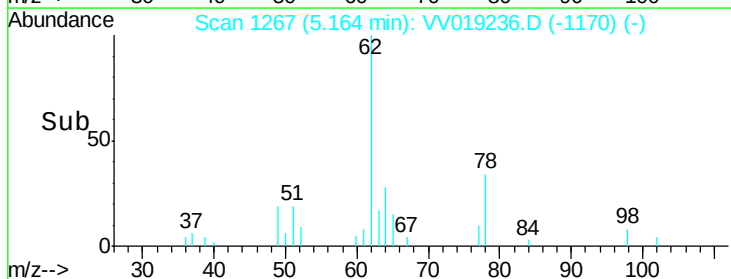
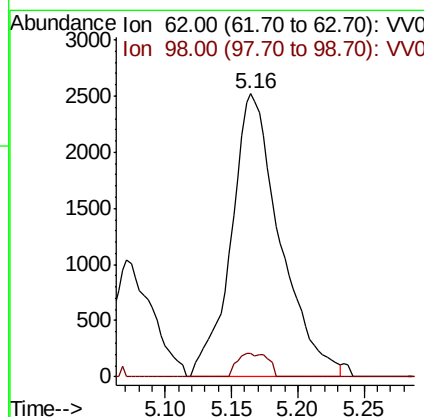
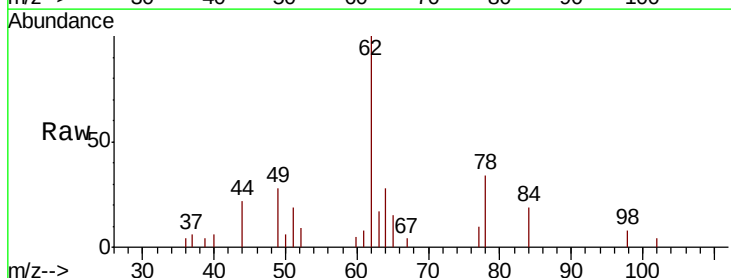
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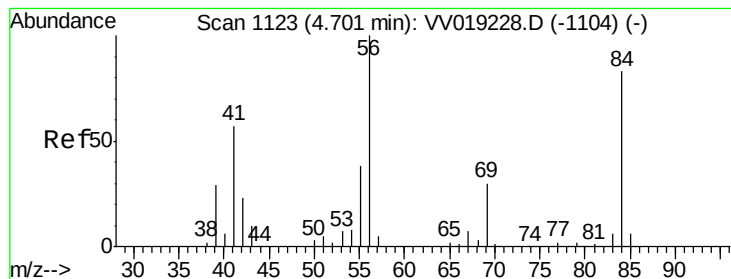
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.534 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 62 Resp: 6457
Ion Ratio Lower Upper
62 100
98 8.3 6.8 10.2





#29

Cyclohexane

Concen: 2.177 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

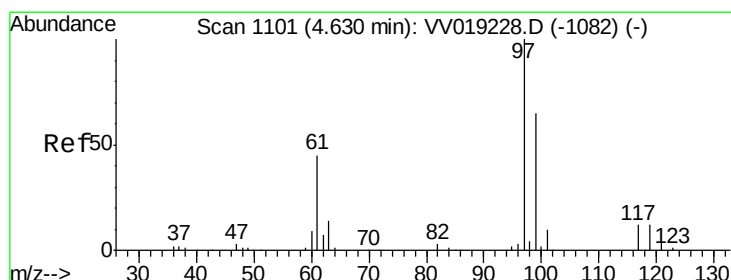
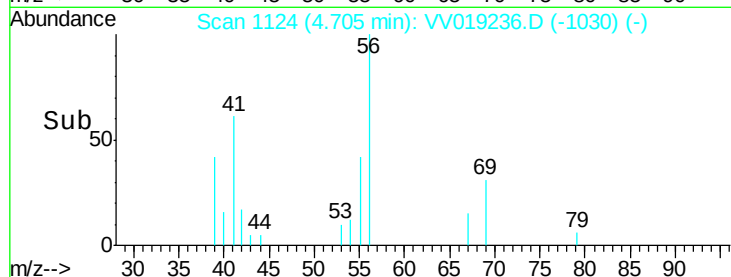
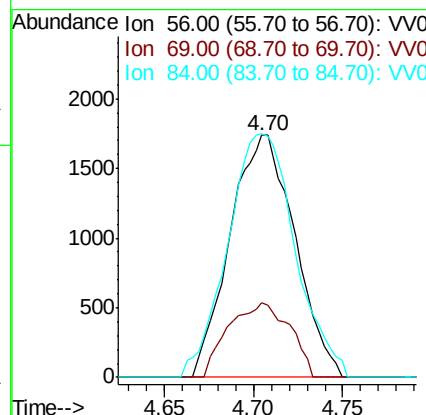
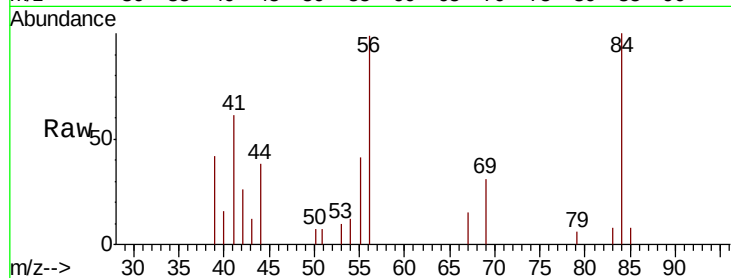
ClientSampleId :

MDL-ME-SOIL-05

Tot Ion:	56	Resp:	4401
Ion	Ratio	Lower	Upper
56	100		
69	29.1	24.6	36.8
84	104.7	70.5	105.7

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#30

1,1,1-Trichloroethane

Concen: 2.264 ug/L

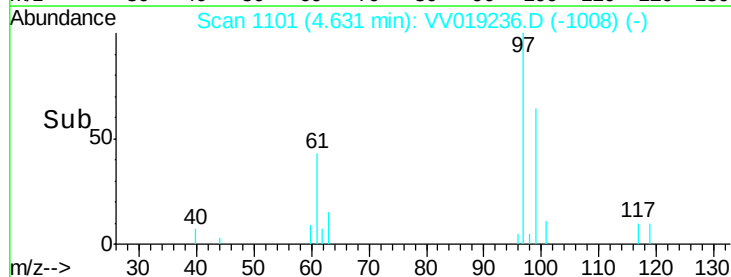
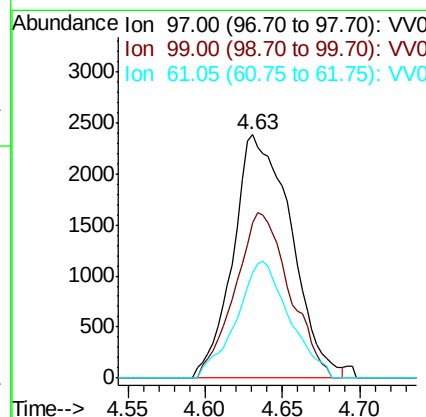
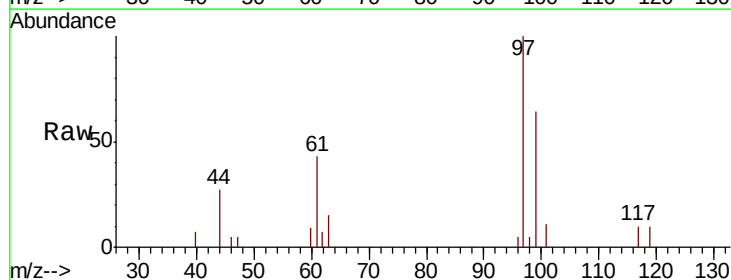
RT: 4.63 min Scan# 1101

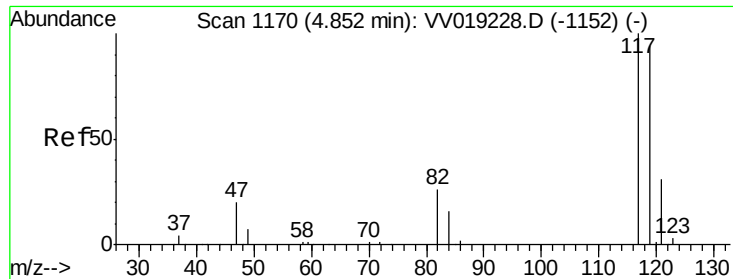
Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion:	97	Resp:	6203
Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.0	78.0
61	43.7	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.350 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion:117 Resp: 5560

Ion Ratio Lower Upper

117 100

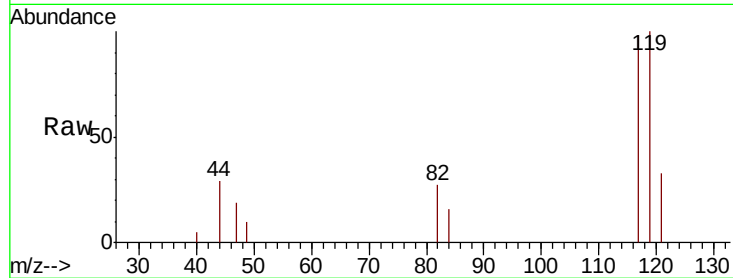
119 94.0 77.8 116.6

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

2500

2000

1500

1000

500

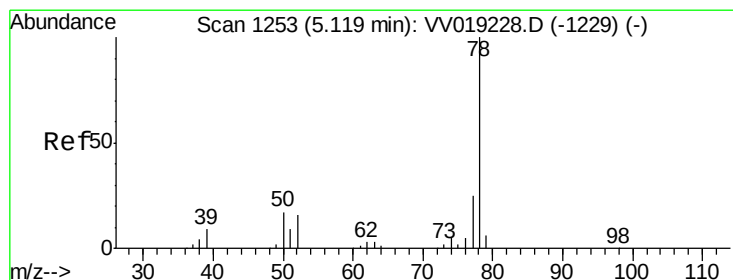
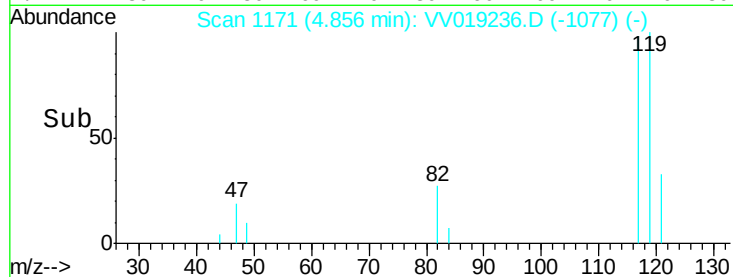
0

4.86

4.85

4.90

Time-->



#33

Benzene

Concen: 2.274 ug/L m

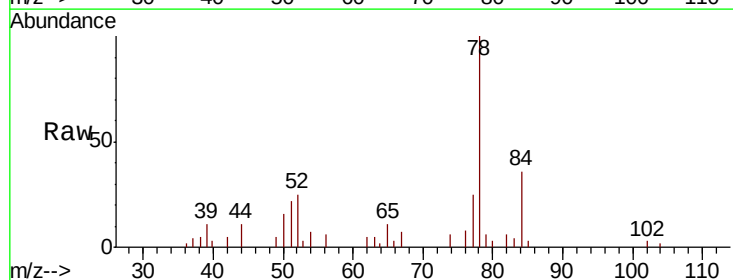
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion: 78 Resp: 13348



Abundance Ion 78.00 (77.70 to 78.70): VV0

6000

5000

4000

3000

2000

1000

0

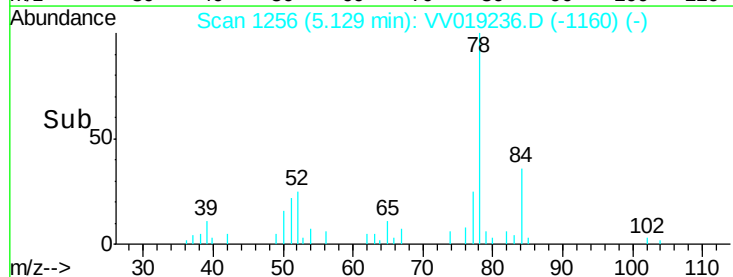
5.13

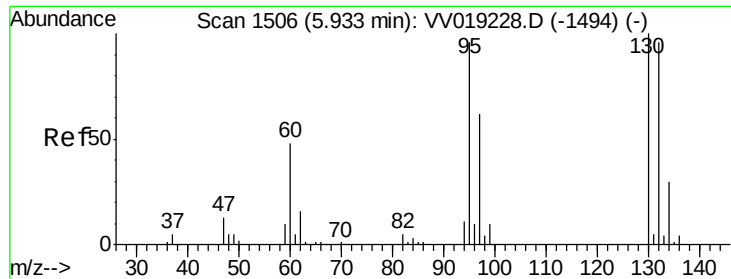
5.10

5.15

5.20

Time-->





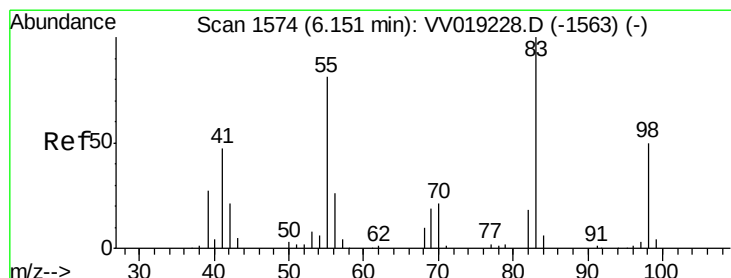
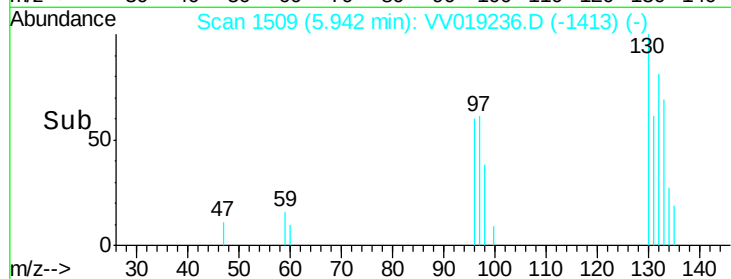
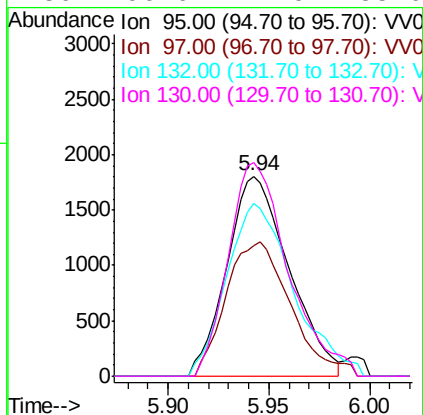
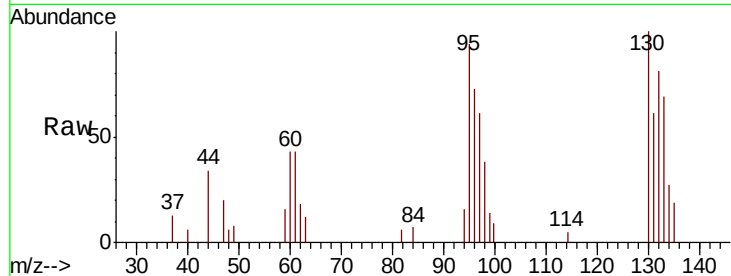
#34
 Trichloroethene
 Concen: 2.443 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion	95	Resp	3897
Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.4	84.4
132	86.5	68.5	127.3
130	106.6	72.0	133.6

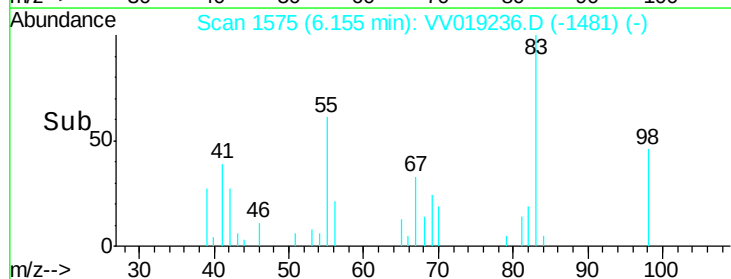
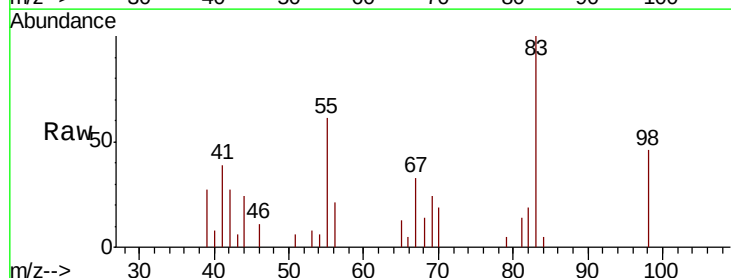
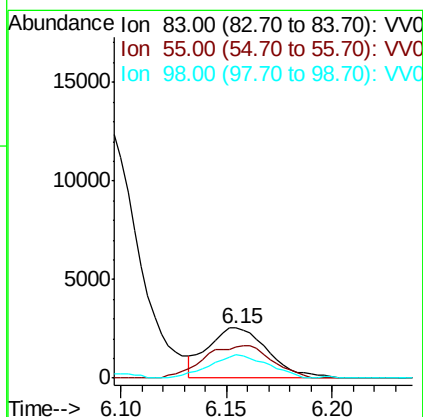
Manual Integrations
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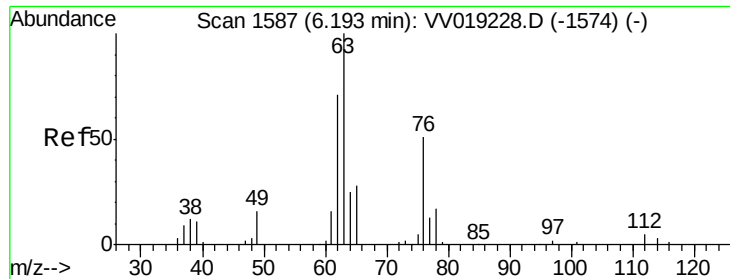
MMDadoda
 11/5/2020 7:00:31 PM



#35
 Methylcyclohexane
 Concen: 2.618 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion	83	Resp	5055
Ion	Ratio	Lower	Upper
83	100		
55	72.5	62.8	94.2
98	45.3	38.6	58.0





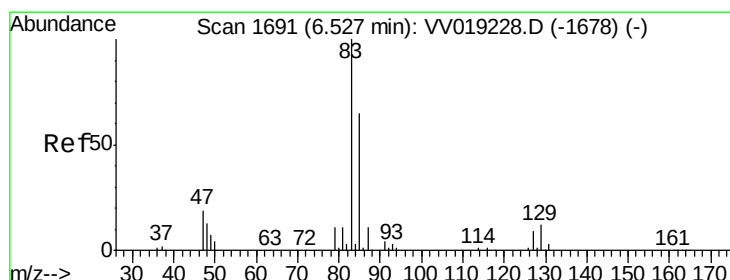
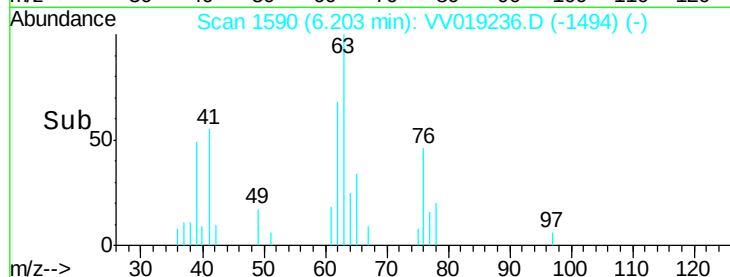
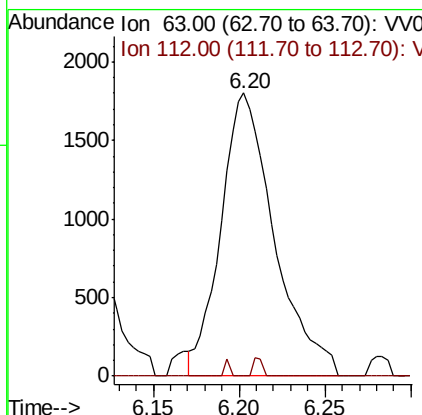
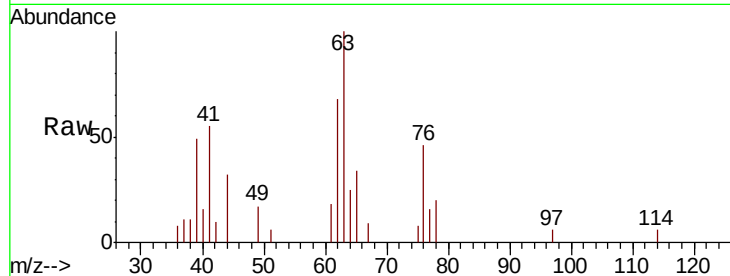
#37
 1,2-Dichloropropane
 Concen: 2.486 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion: 63 Resp: 3895
 Ion Ratio Lower Upper
 63 100
 112 1.1 4.2 6.2#

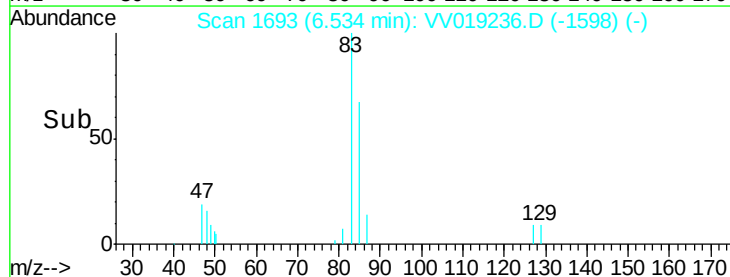
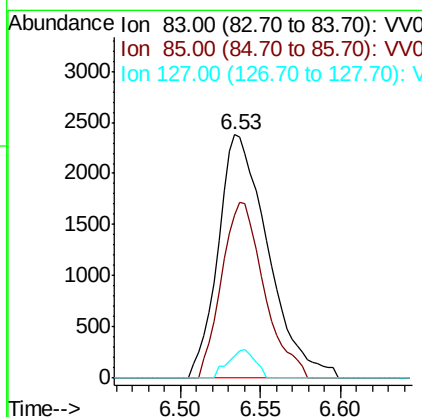
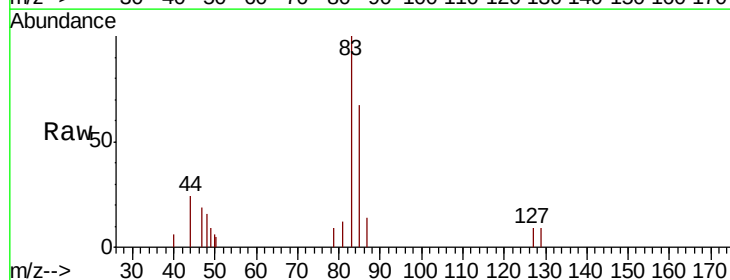
Manual Integrations
 APPROVED

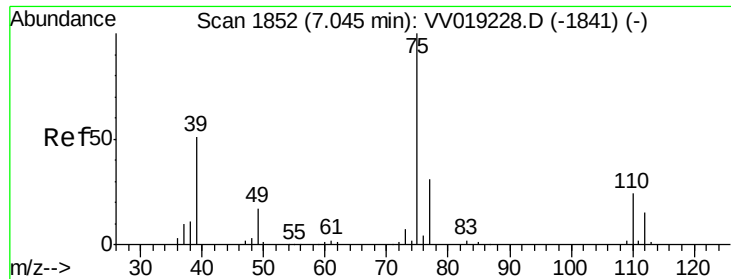
MMDadoda
 11/5/2020 7:00:31 PM



#38
 Bromodichloromethane
 Concen: 2.255 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 83 Resp: 5085
 Ion Ratio Lower Upper
 83 100
 85 67.0 44.0 81.8
 127 9.4 7.3 10.9





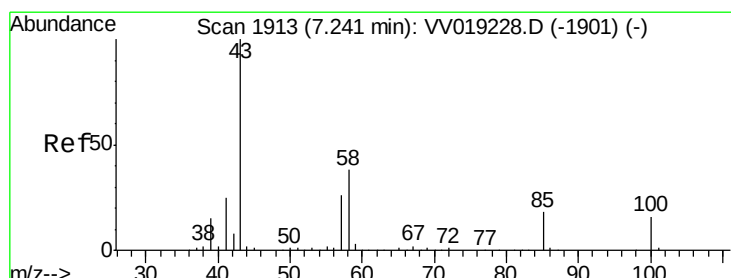
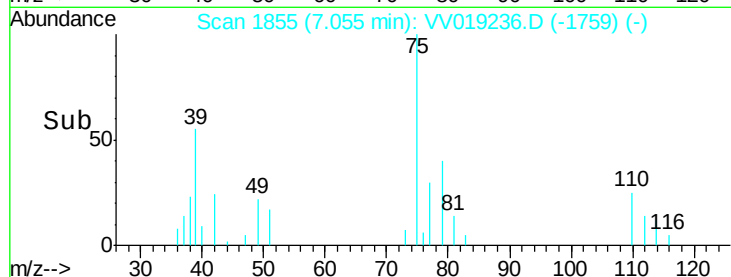
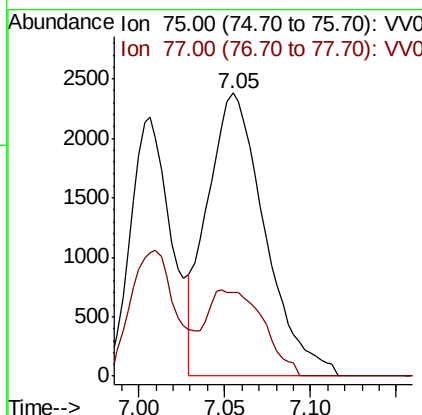
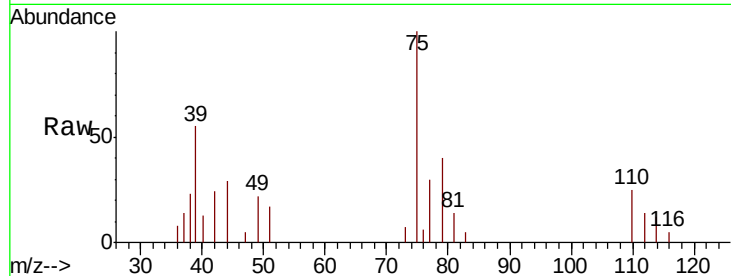
#39
 cis-1,3-Dichloropropene
 Concen: 2.212 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion: 75 Resp: 5546
 Ion Ratio Lower Upper
 75 100
 77 29.8 22.2 41.2

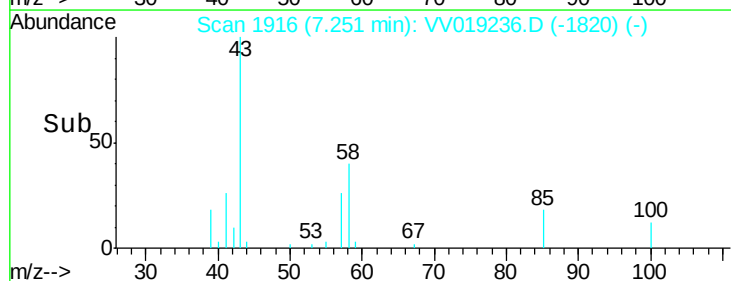
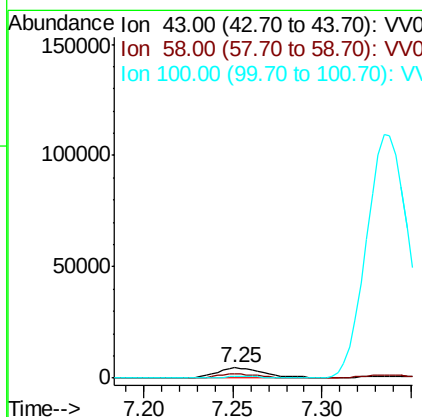
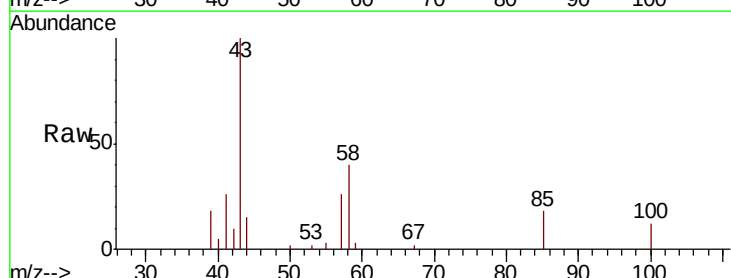
Manual Integrations
 APPROVED

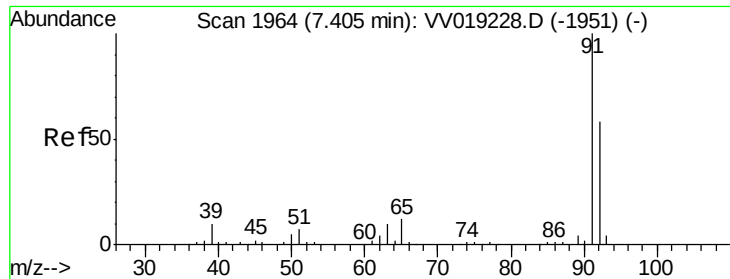
MMDadoda
 11/5/2020 7:00:31 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.112 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 43 Resp: 8655
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.5 45.7
 100 13.7 12.7 19.1





#42

Toluene

Concen: 2.659 ug/L

RT: 7.42 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 91 Resp: 16873

Ion Ratio Lower Upper

91 100

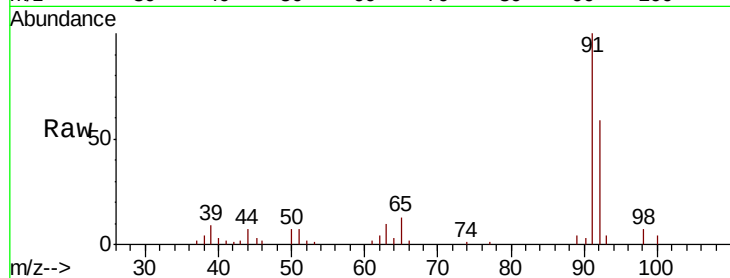
92 59.5 40.6 75.4

Manual Integrations

APPROVED

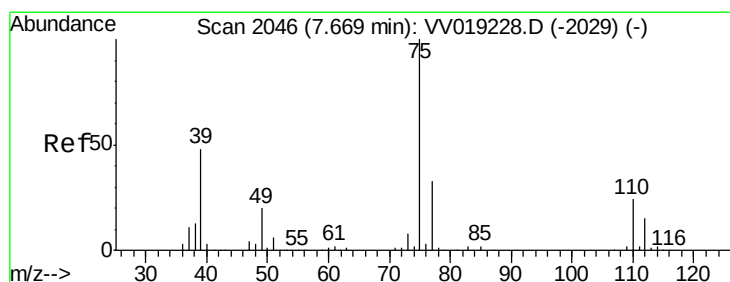
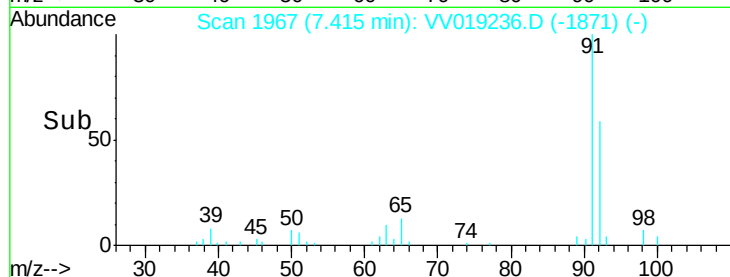
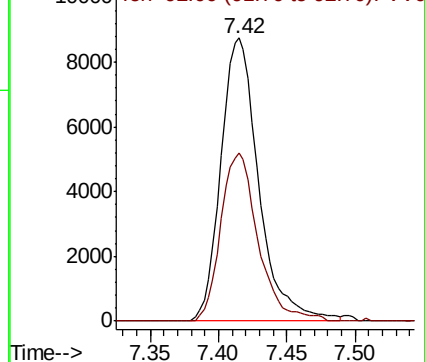
MMDadoda

11/5/2020 7:00:31 PM



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.216 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019236.D

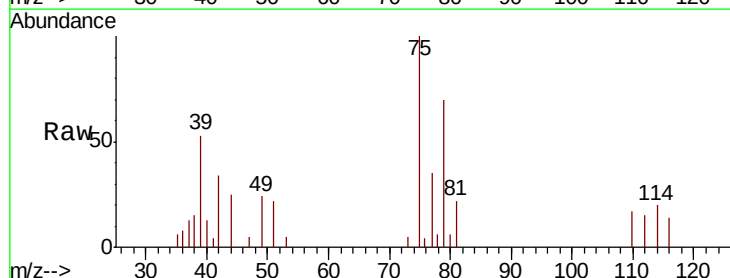
Acq: 03 Nov 2020 15:12

Tgt Ion: 75 Resp: 5692

Ion Ratio Lower Upper

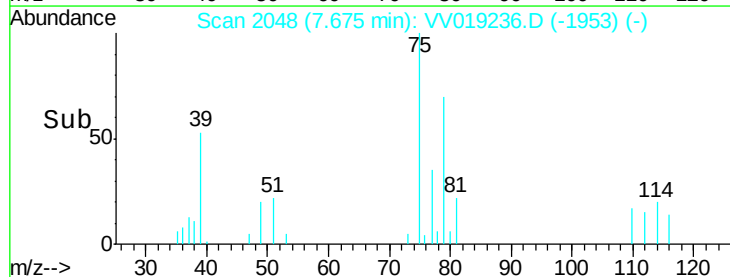
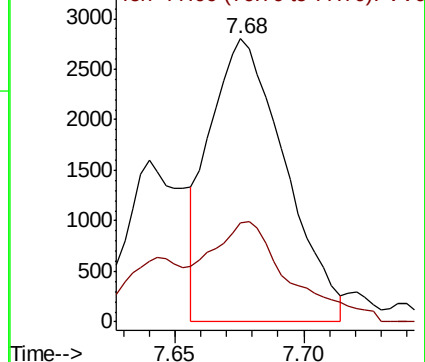
75 100

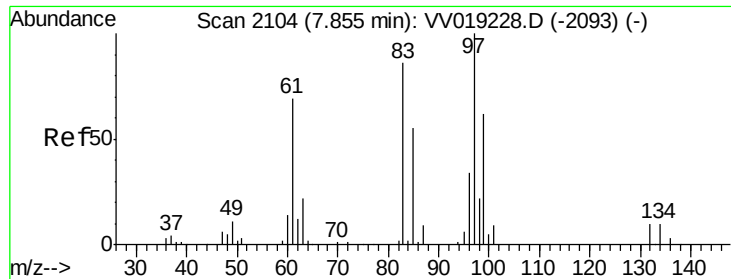
77 34.9 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





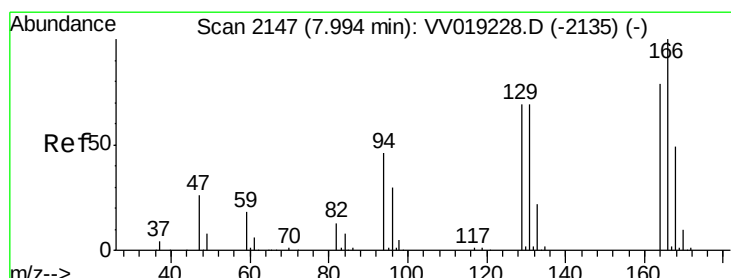
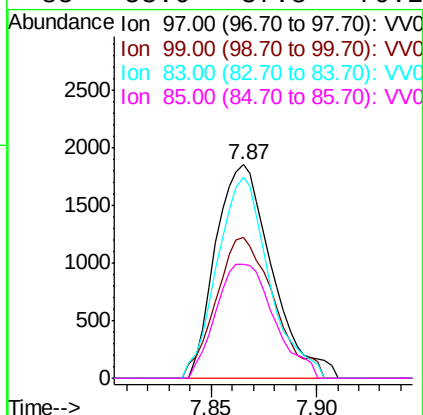
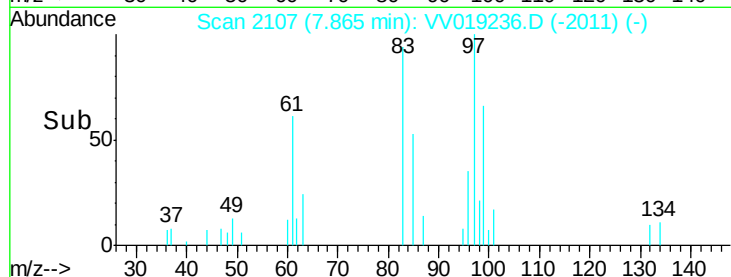
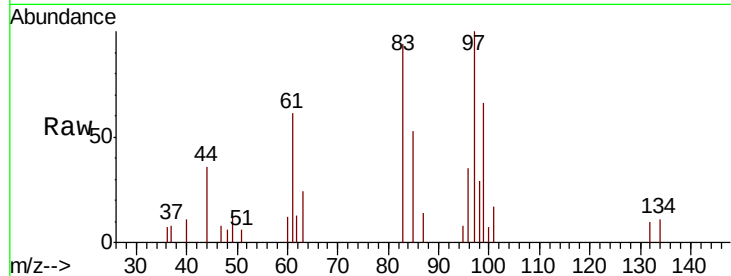
#45
1,1,2-Trichloroethane
Concen: 2.215 ug/L
RT: 7.87 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion:	97	Resp:	3430
Ion	Ratio	Lower	Upper
97	100		
99	65.9	45.1	83.9
83	94.4	57.6	107.0
85	53.0	37.8	70.2

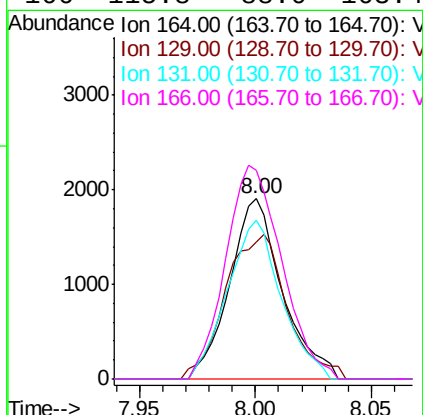
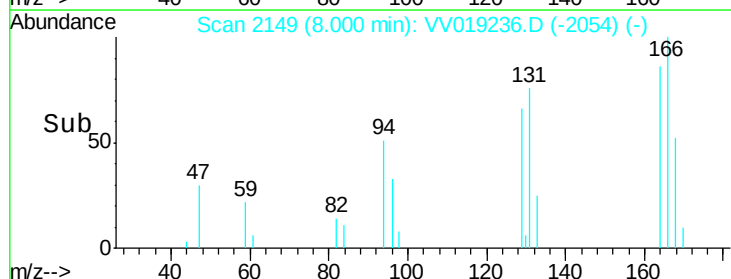
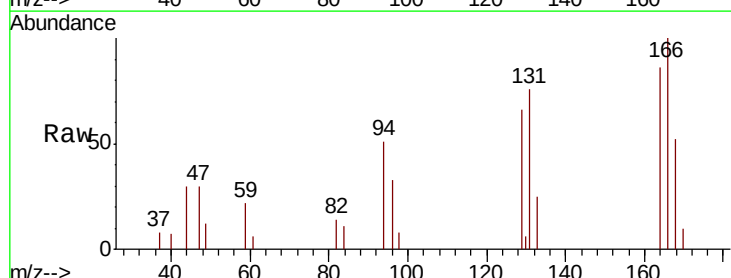
Manual Integrations
APPROVED

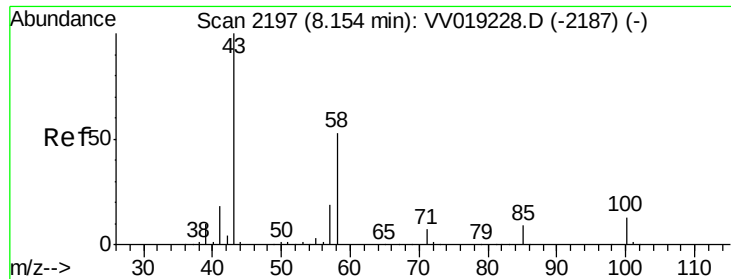
MMDadoda
11/5/2020 7:00:31 PM



#46
Tetrachloroethene
Concen: 2.311 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion:	164	Resp:	3008
Ion	Ratio	Lower	Upper
164	100		
129	76.1	62.6	116.3
131	88.2	59.0	109.6
166	115.8	88.0	163.4





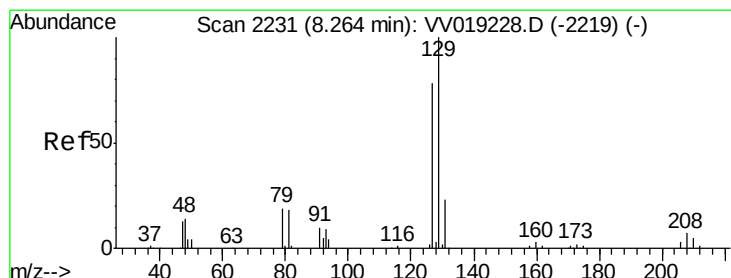
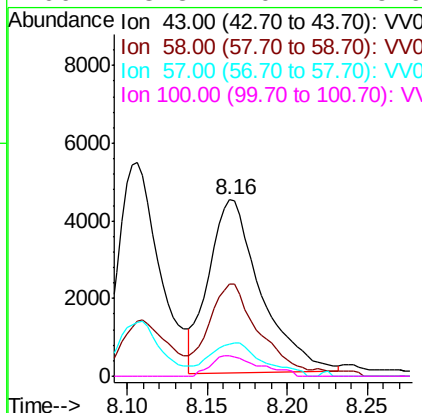
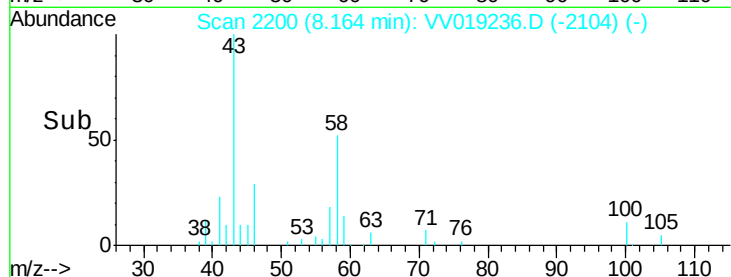
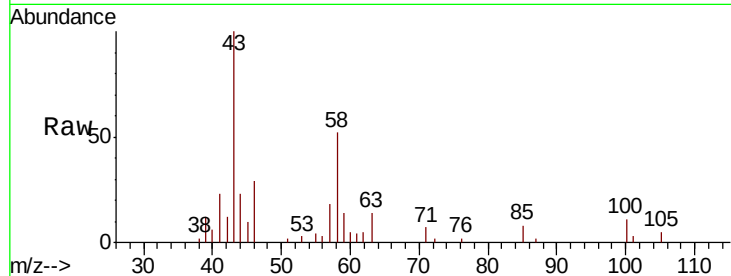
#48
2-Hexanone
Concen: 6.313 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	45.7	42.6	63.8	
57	19.3	15.8	23.8	
100	8.3	10.4	15.6	

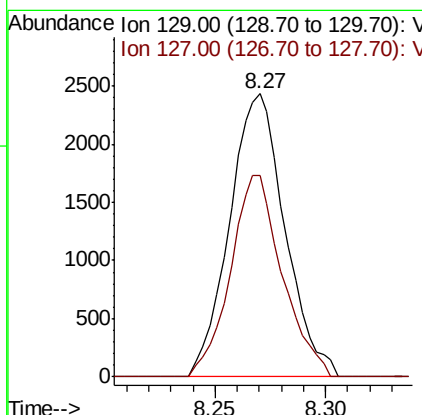
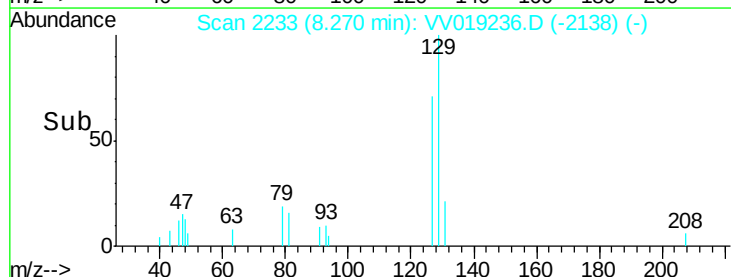
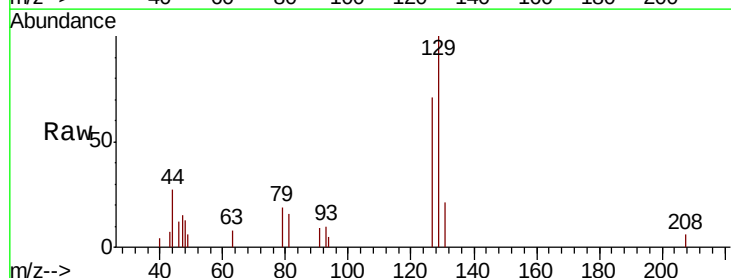
Manual Integrations
APPROVED

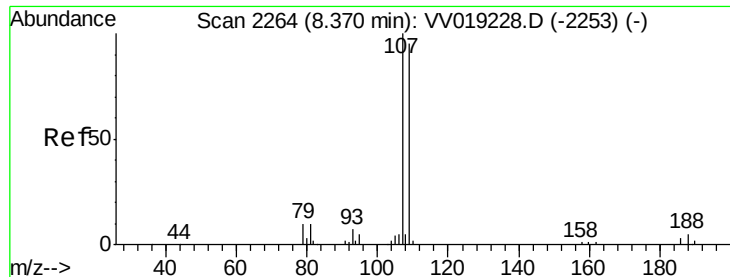
MMDadoda
11/5/2020 7:00:31 PM



#49
Dibromochloromethane
Concen: 2.294 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	71.1	54.4	101.0	





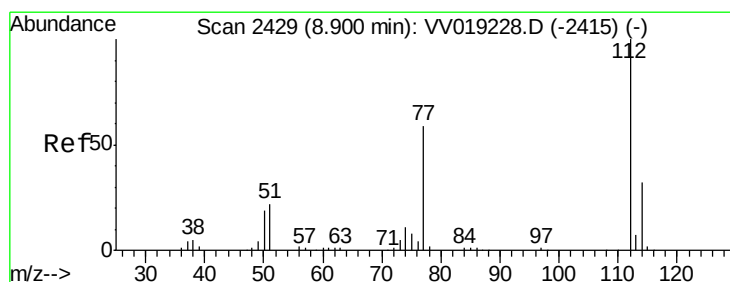
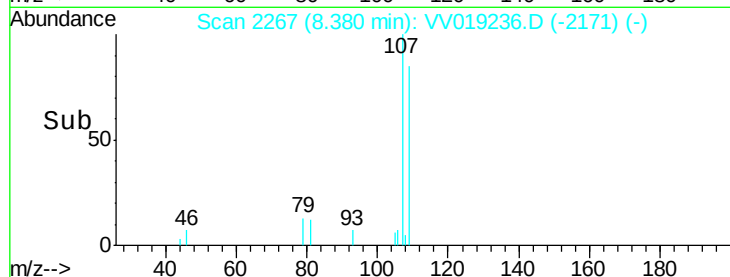
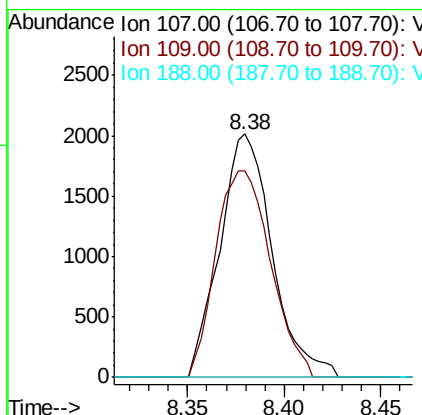
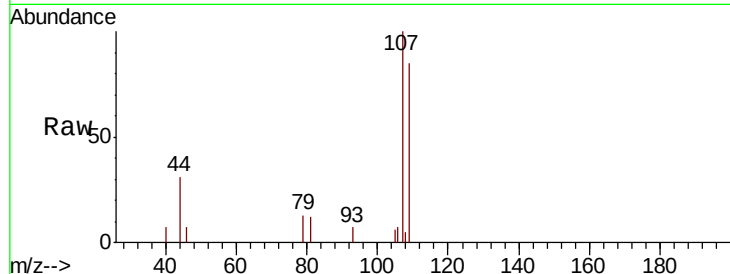
#50
1,2-Dibromoethane
Concen: 2.369 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion	Ratio	Lower	Upper
107	100		
109	85.0	64.8	120.4
188	0.0	3.8	5.8#

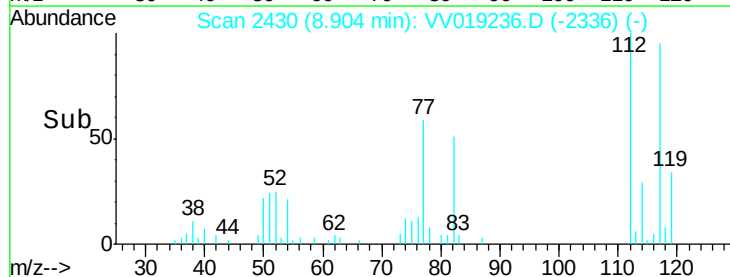
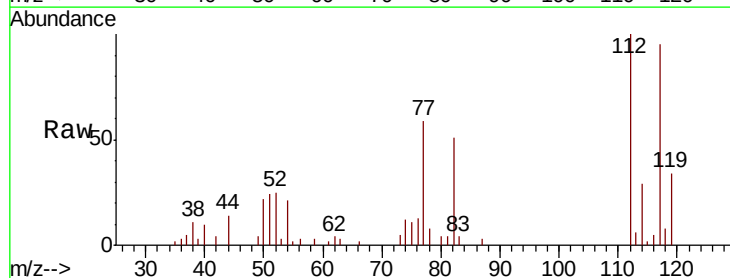
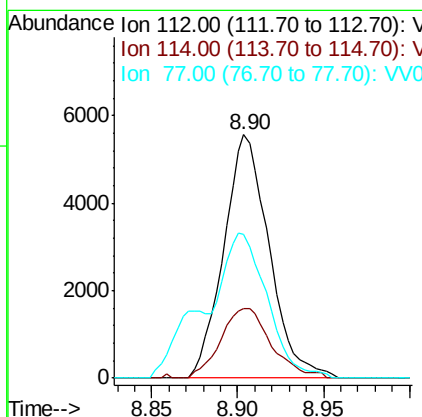
Manual Integrations
APPROVED

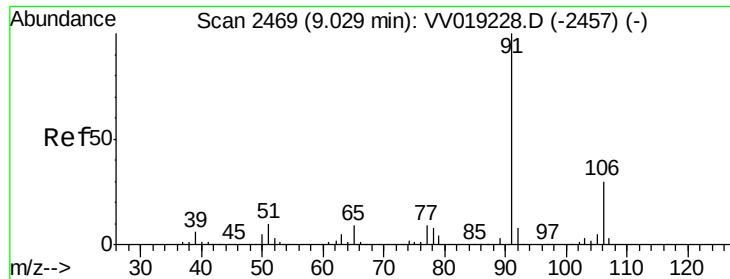
MMDadoda
11/5/2020 7:00:31 PM



#51
Chlorobenzene
Concen: 2.406 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	28.5	22.7	42.1
77	58.9	47.3	70.9





#52

Ethylbenzene

Concen: 2.221 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tot Ion: 91 Resp: 15546

Ion Ratio Lower Upper

91 100

106 31.6 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

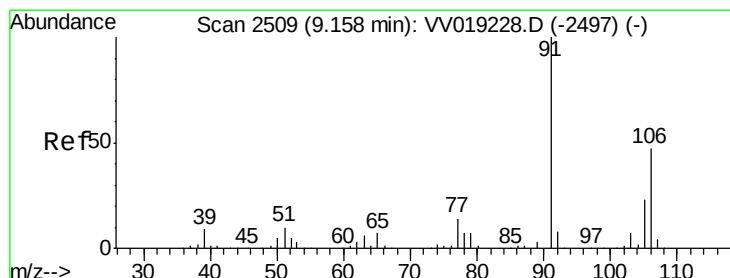
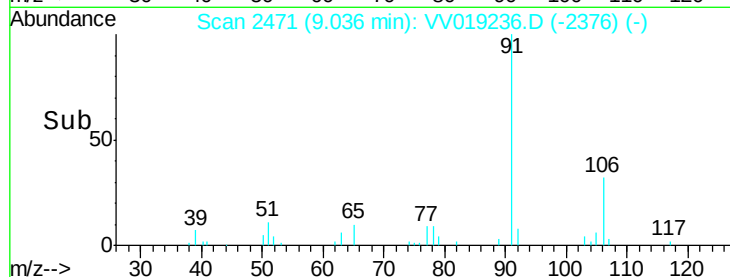
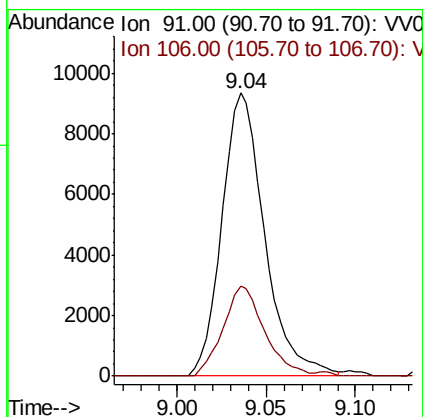
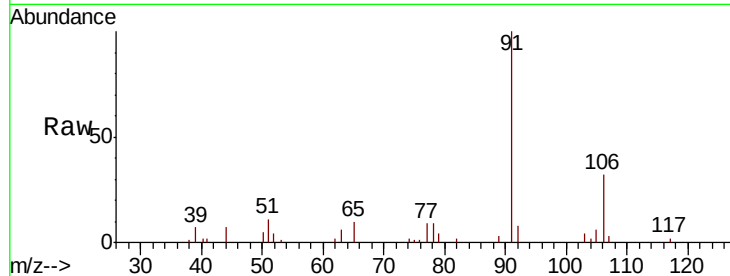
MDL-ME-SOIL-05

Manual Integrations

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11/5/2020 7:00:31 PM



#53

m,p-Xylene

Concen: 2.223 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019236.D

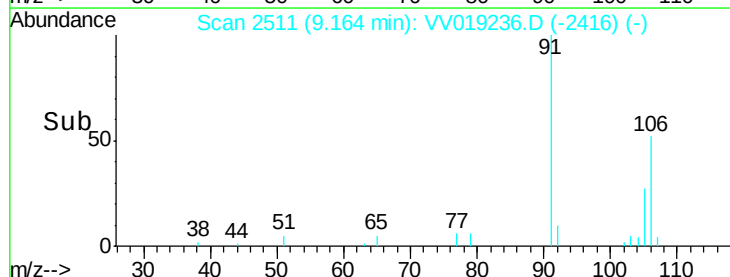
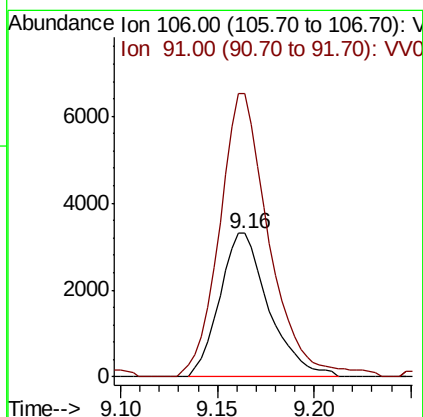
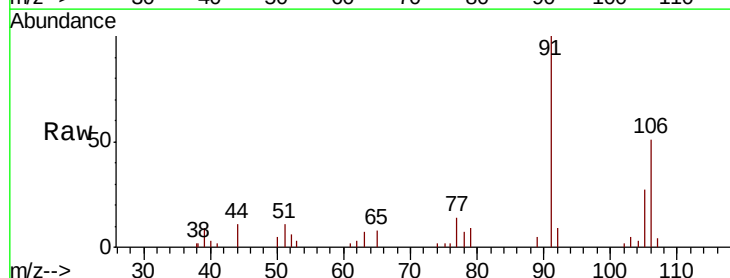
Acq: 03 Nov 2020 15:12

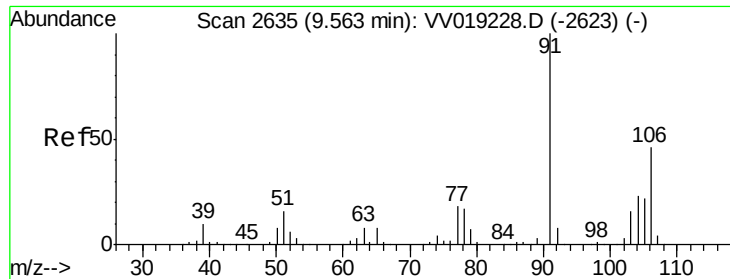
Tgt Ion: 106 Resp: 5827

Ion Ratio Lower Upper

106 100

91 196.9 147.2 273.4





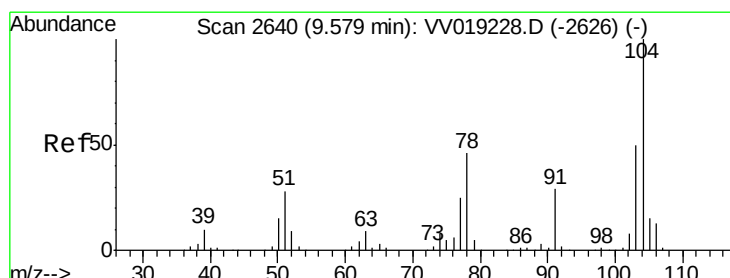
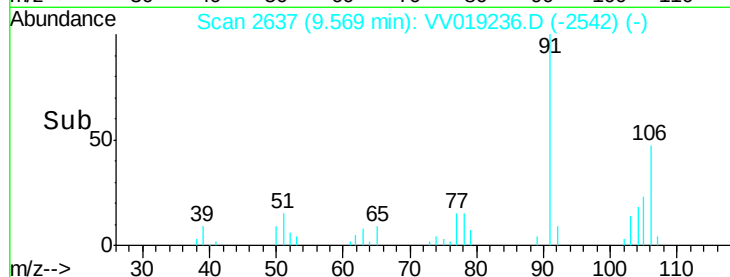
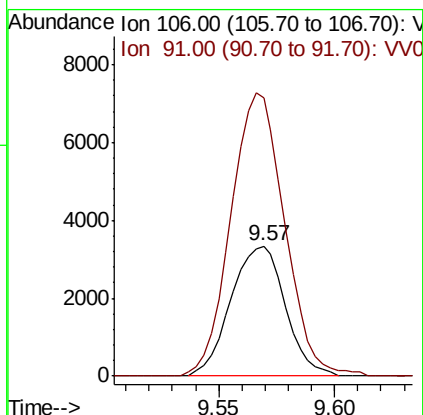
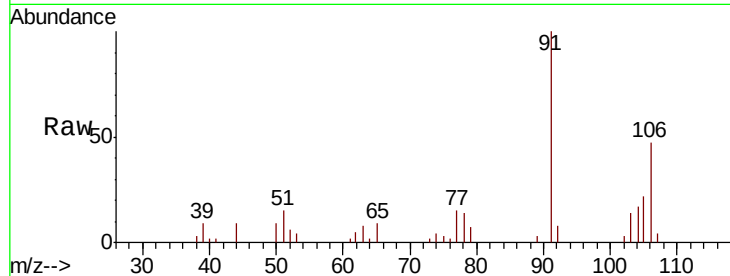
#54
o-Xylene
Concen: 2.106 ug/L
RT: 9.57 min Scan# 2637
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion:106 Resp: 5441
Ion Ratio Lower Upper
106 100
91 214.0 151.6 281.6

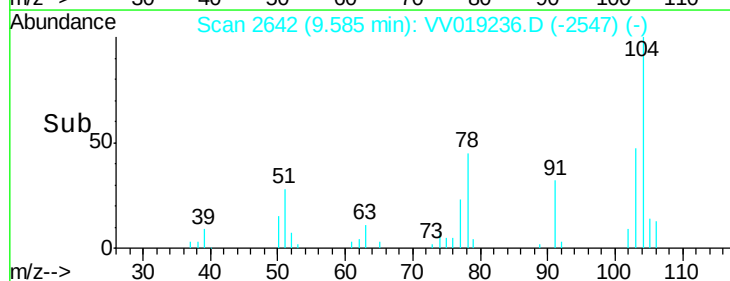
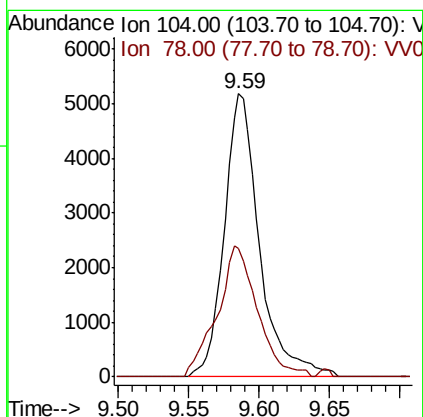
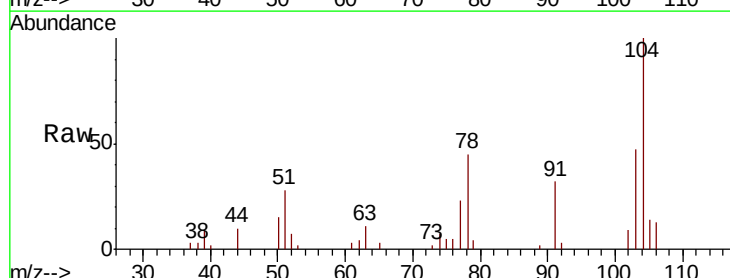
Manual Integrations
APPROVED

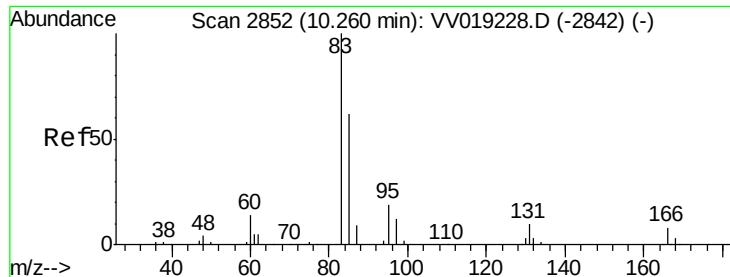
MMDadoda
11/5/2020 7:00:31 PM



#55
Styrene
Concen: 1.967 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion:104 Resp: 9047
Ion Ratio Lower Upper
104 100
78 45.5 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 2.337 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

Tot Ion: 83 Resp: 5476

Ion Ratio Lower Upper

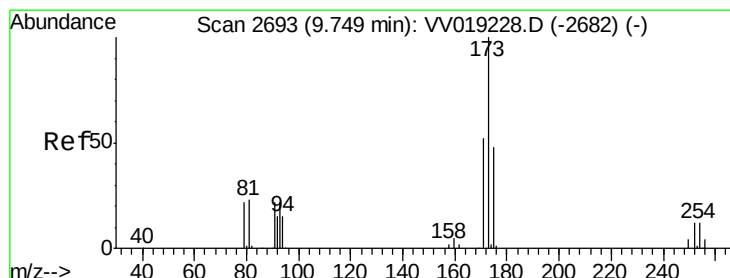
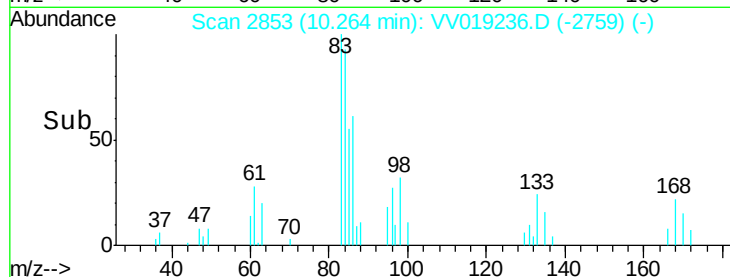
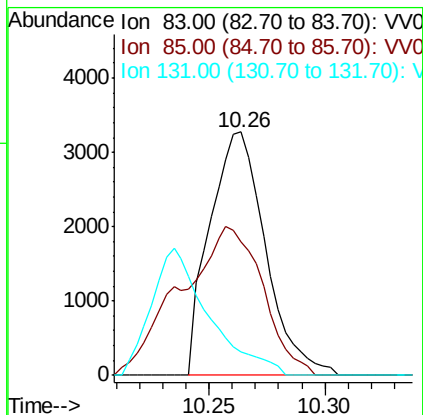
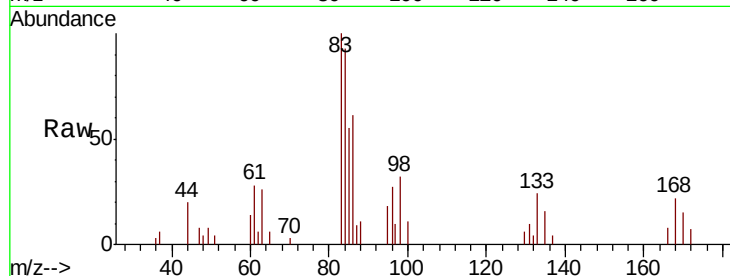
83 100

85 54.7 45.0 83.6

131 9.6 8.9 13.3

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#59

Bromoform

Concen: 2.151 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

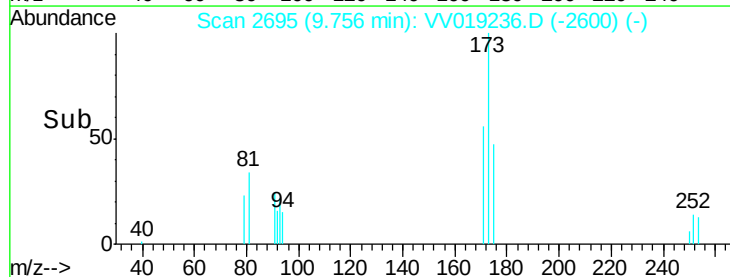
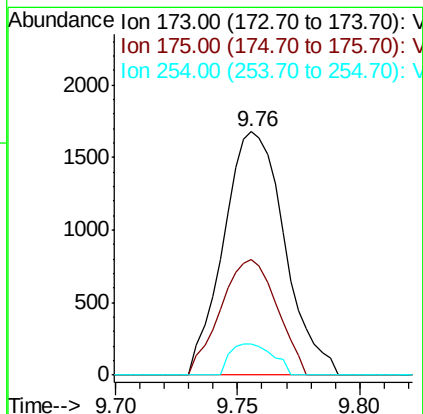
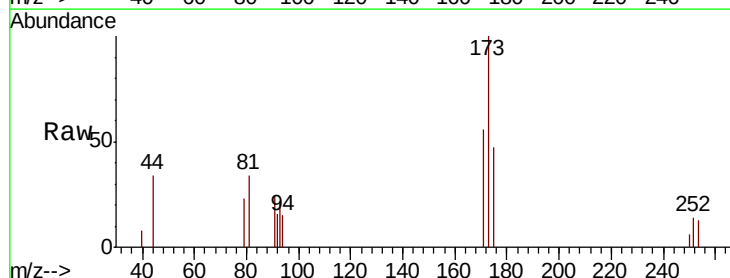
Tgt Ion: 173 Resp: 2911

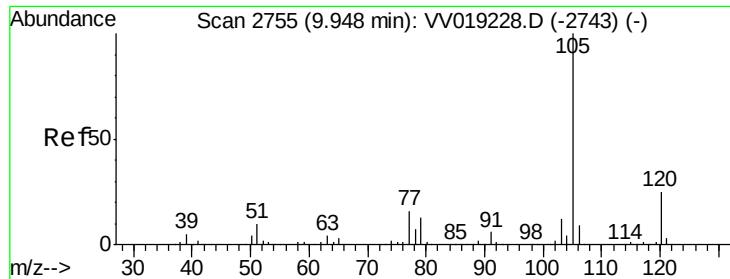
Ion Ratio Lower Upper

173 100

175 43.8 38.4 57.6

254 8.9 9.0 13.6#





#60

Isopropylbenzene

Concen: 2.193 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

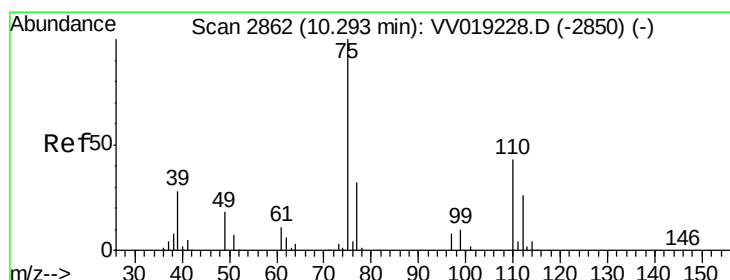
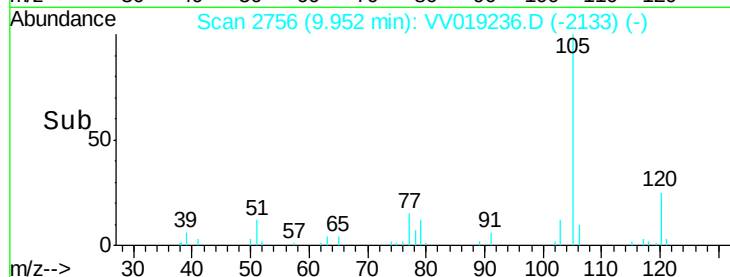
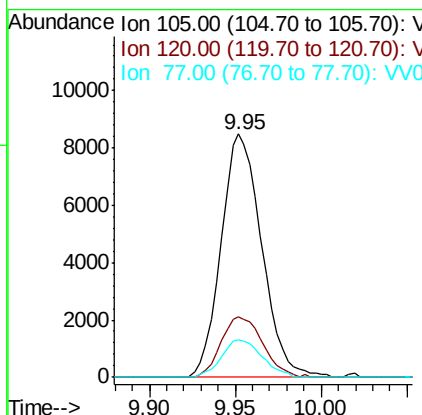
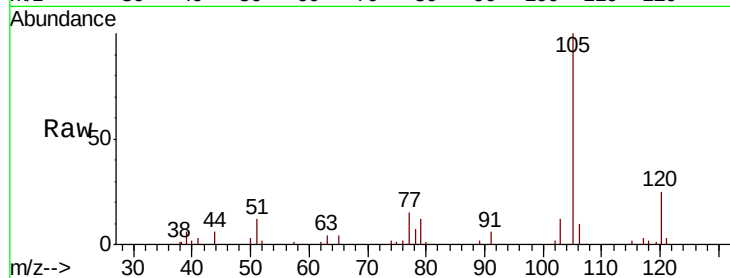
ClientSampleId :

MDL-ME-SOIL-05

Tot Ion:	105	Resp:	14019
Ion Ratio	Lower	Upper	
105	100		
120	25.3	21.0	31.4
77	15.3	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.388 ug/L

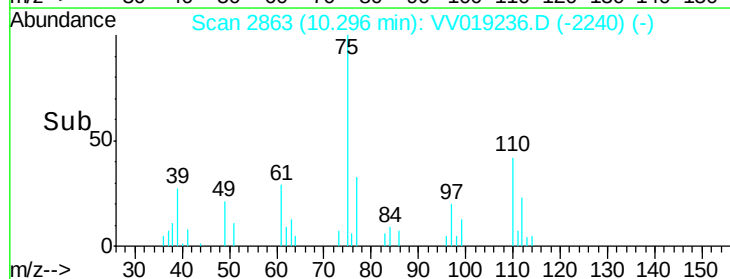
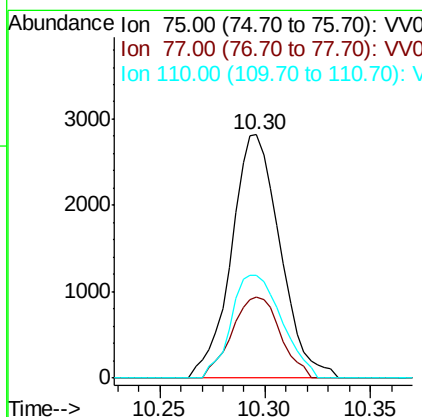
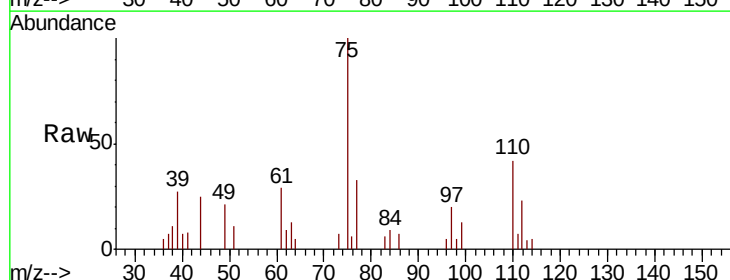
RT: 10.30 min Scan# 2863

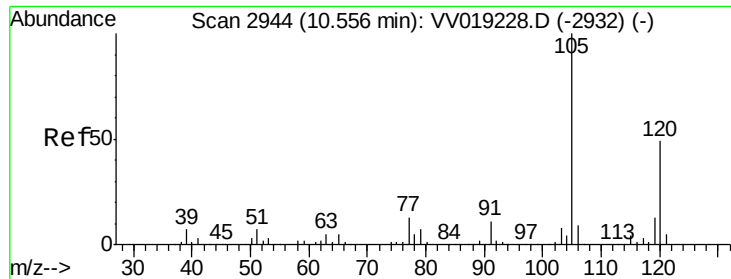
Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Tgt Ion:	75	Resp:	4525
Ion Ratio	Lower	Upper	
75	100		
77	33.0	24.8	37.2
110	43.8	33.4	50.2





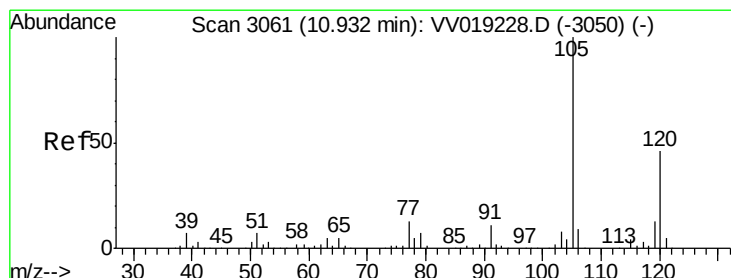
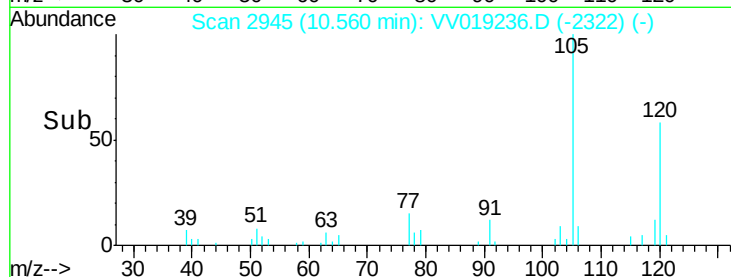
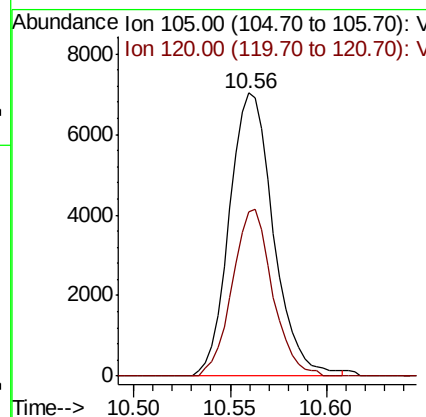
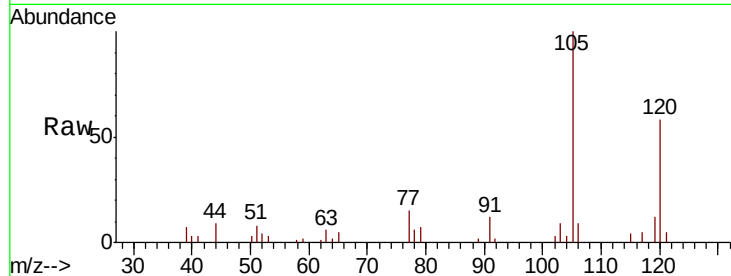
#62
 1,3,5-Trimethylbenzene
 Concen: 2.090 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion:105 Resp: 11126
 Ion Ratio Lower Upper
 105 100
 120 53.7 38.3 57.5

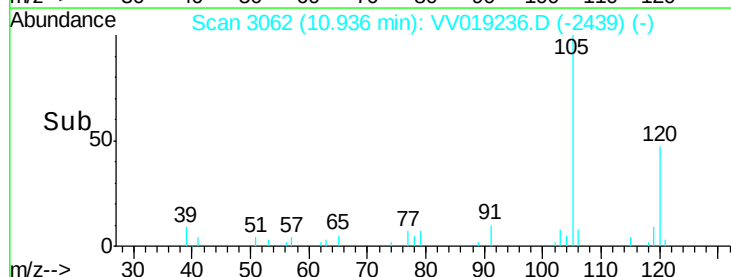
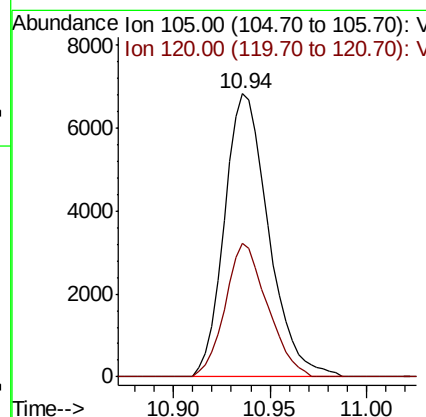
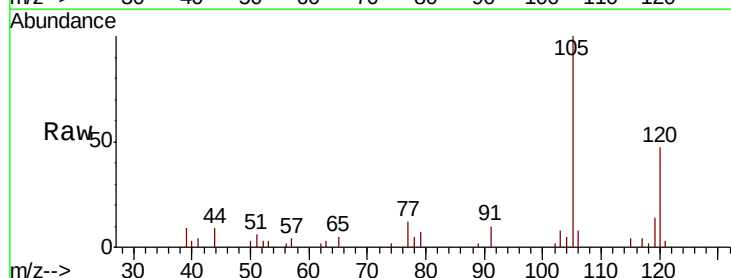
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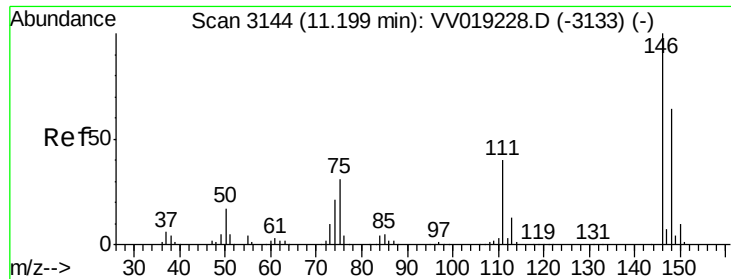
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.082 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion:105 Resp: 10844
 Ion Ratio Lower Upper
 105 100
 120 44.9 35.7 53.5





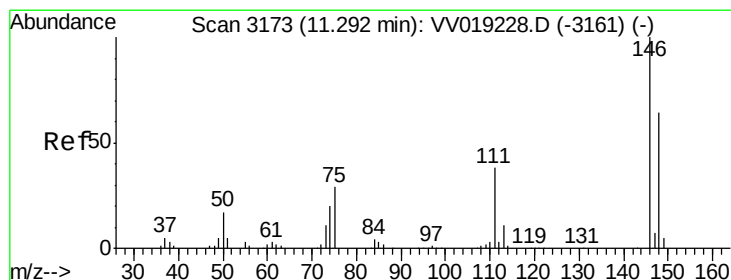
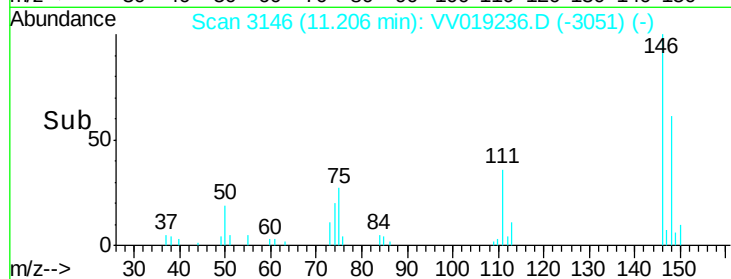
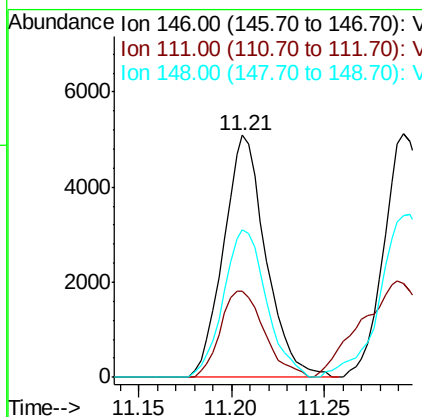
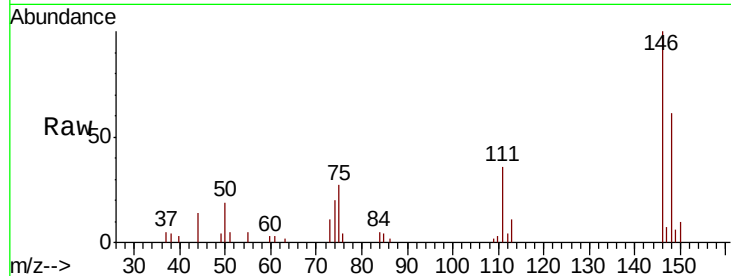
#64
 1,3-Dichlorobenzene
 Concen: 2.407 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.6	27.3	50.7
148	61.0	45.2	84.0

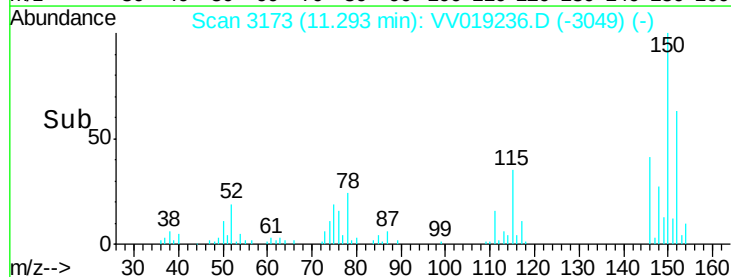
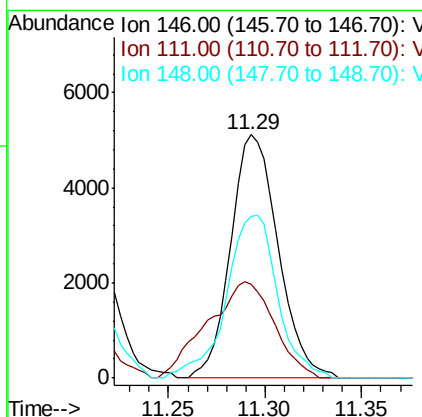
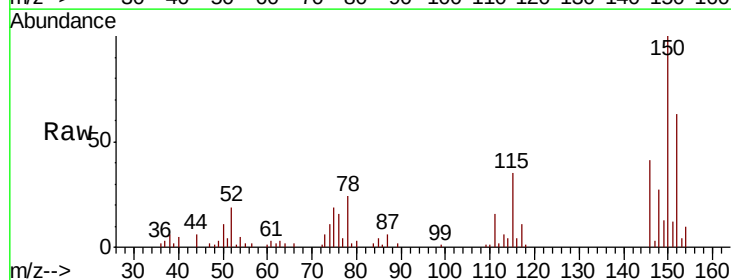
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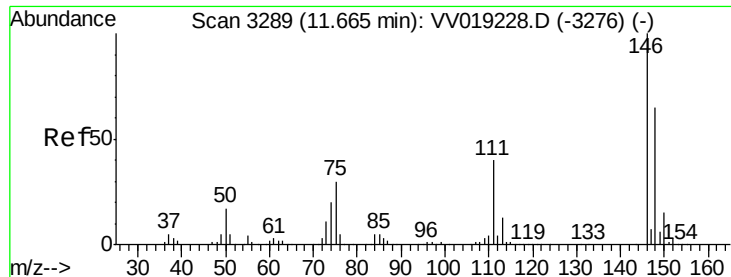
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#65
 1,4-Dichlorobenzene
 Concen: 2.529 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	25.9	48.1
148	66.5	44.9	83.5





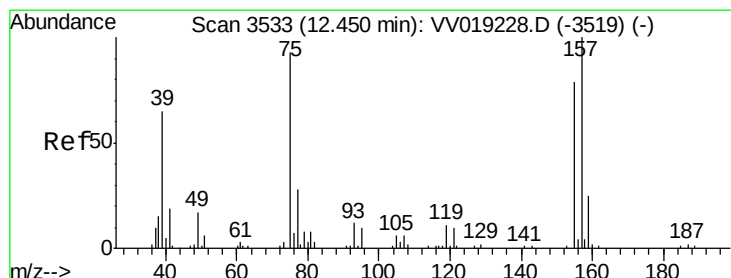
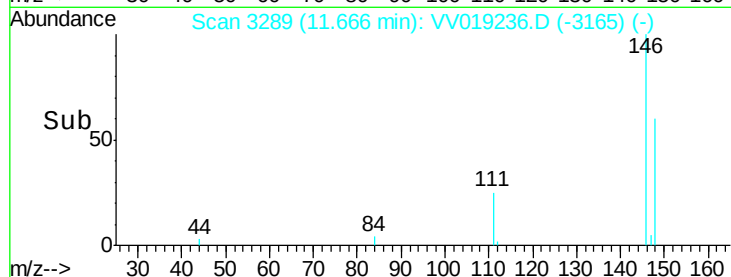
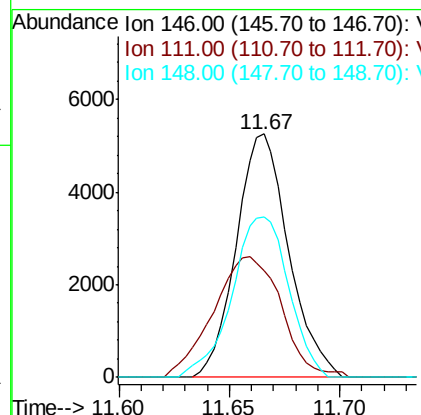
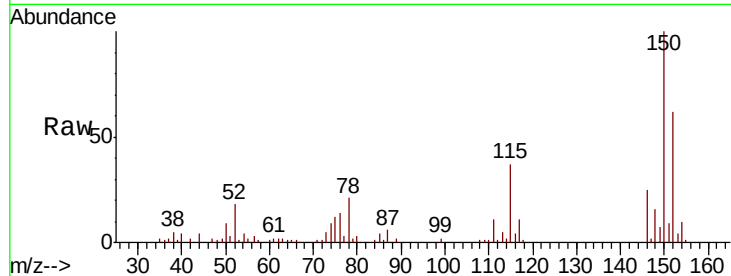
#67
 1,2-Dichlorobenzene
 Concen: 2.531 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	32.6	48.8
148	65.7	50.1	75.1

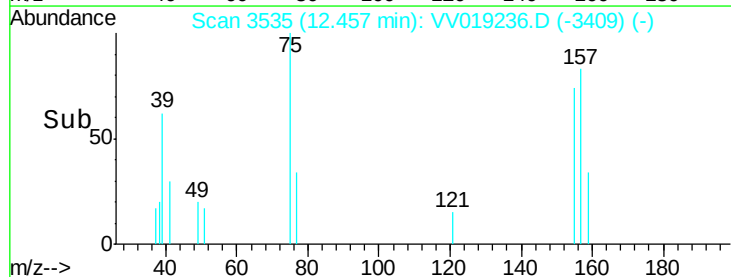
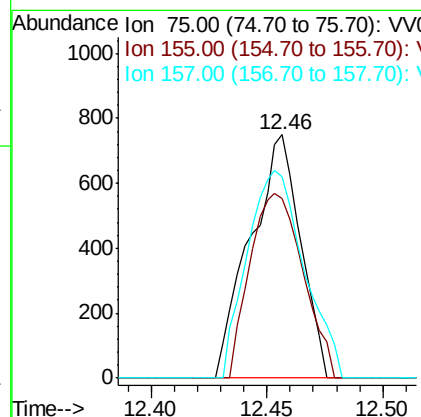
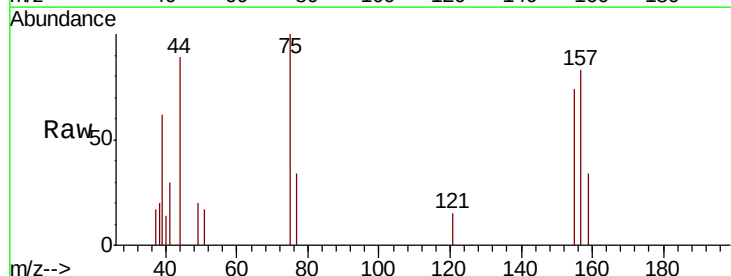
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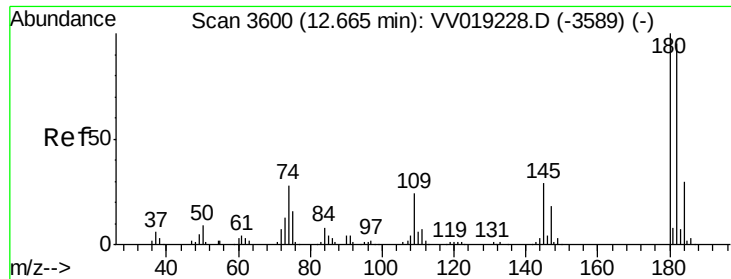
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.028 ug/L
 RT: 12.46 min Scan# 3535
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.9	65.8	98.6
157	82.8	86.3	129.5





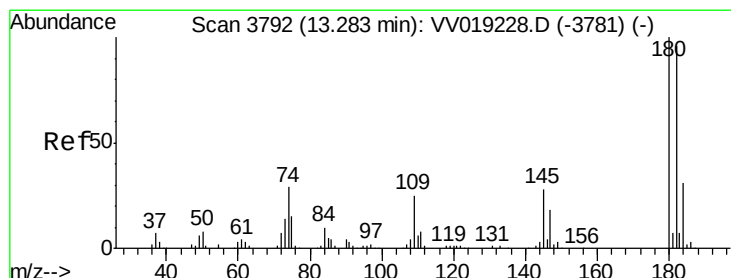
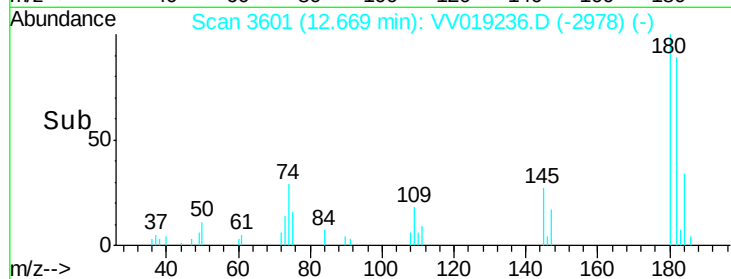
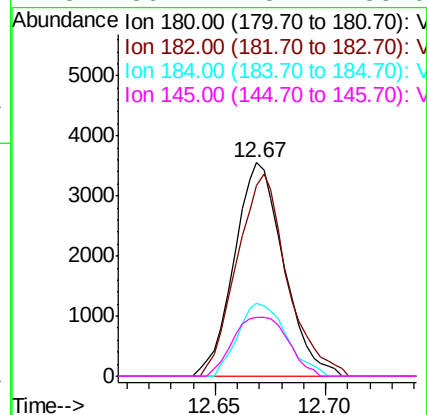
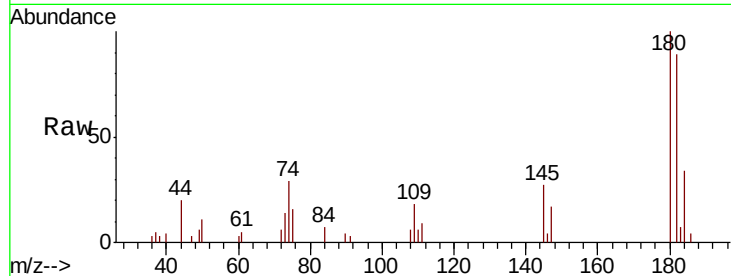
#69
 1,3,5-Trichlorobenzene
 Concen: 2.312 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.7	116.5
184	33.5	24.9	37.3
145	30.7	23.4	35.0

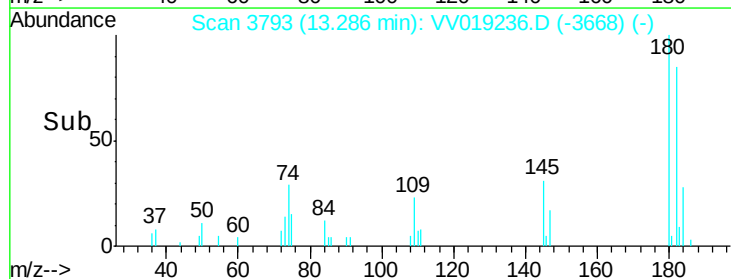
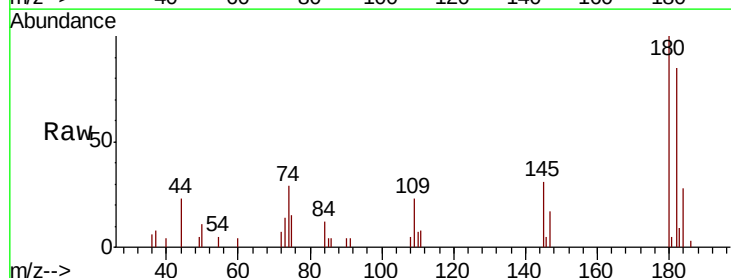
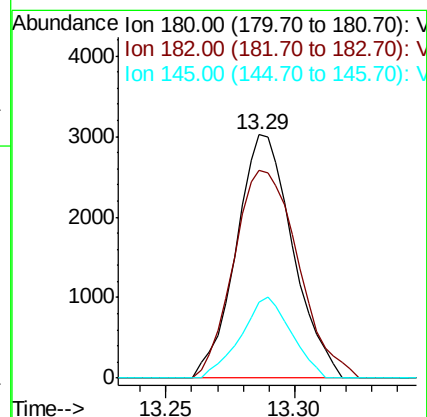
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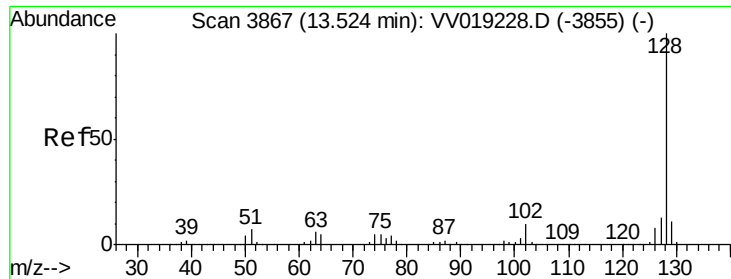
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#70
 1,2,4-trichlorobenzene
 Concen: 2.041 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.6	114.8
145	29.7	23.2	34.8





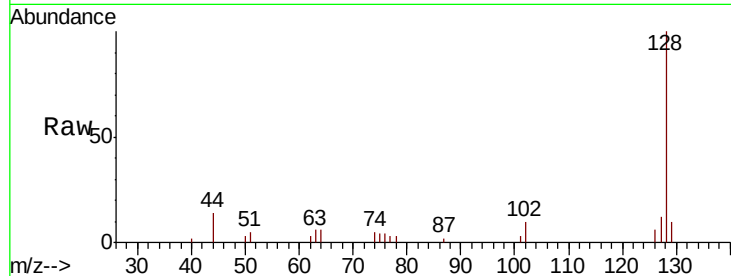
#71
Naphthalene
Concen: 1.534 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

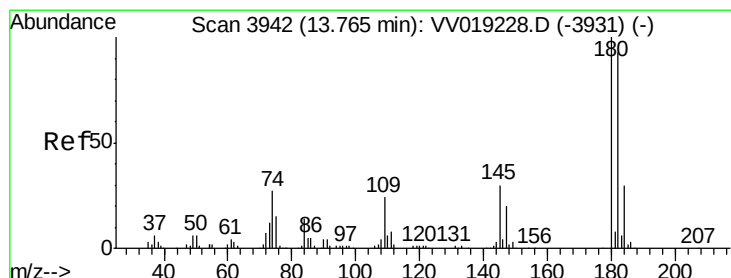
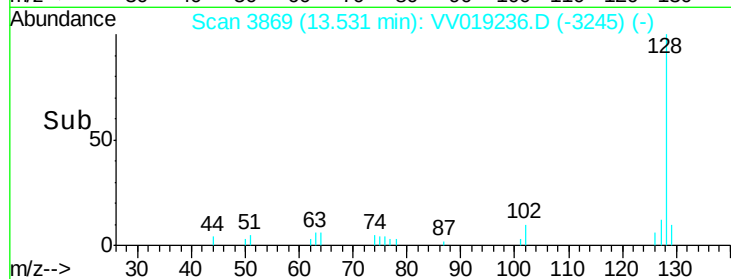
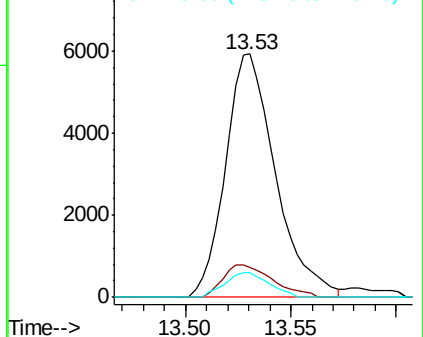
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.7	16.1
129	8.9	8.6	13.0

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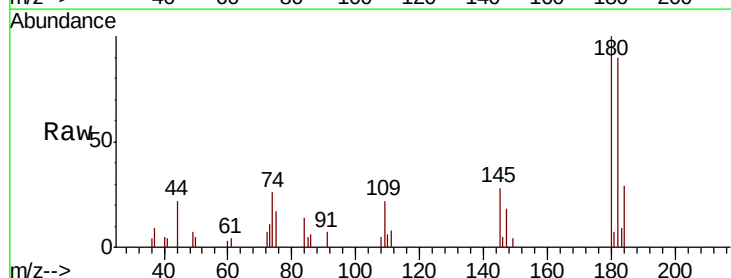


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 2.122 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	77.4	116.0
145	29.3	24.7	37.1



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

