

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110620\
 Data File : VV019263.D
 Acq On : 04 Nov 2020 23:57
 Operator : SY/MD
 Sample : L4485-21
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-07

Manual Integrations
 APPROVED

MMDadoda
 11/6/2020 11:03:50 AM

Quant Time: Nov 05 05:22:21 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Nov 05 04:58:48 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	228051	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	218046	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	107041	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	75658	42.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.98%
7) Chloroethane-d5	1.58	69	65543	47.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.06%
11) 1,1-Dichloroethene-d2	2.12	63	115627	35.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.96%
21) 2-Butanone-d5	3.91	46	112169	115.59	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.59%
24) Chloroform-d	4.37	84	155356	47.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.34%
26) 1,2-Dichloroethane-d4	5.05	65	115112	50.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.30%
32) Benzene-d6	5.07	84	288233	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.74%
36) 1,2-Dichloropropane-d6	6.09	67	93296	51.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.80%
41) Toluene-d8	7.34	98	251196	44.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.58%
43) trans-1,3-Dichloropropene-	7.64	79	46229	45.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.84%
47) 2-Hexanone-d5	8.11	63	70029	100.35	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.35%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	115025	48.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.04%
66) 1,2-Dichlorobenzene-d4	11.65	152	107180	50.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3255	2.330 ug/L	96
3) Chloromethane	1.25	50	3706	2.547 ug/L	90
5) Vinyl chloride	1.32	62	4397	2.904 ug/L #	55
6) Bromomethane	1.53	94	3153	3.098 ug/L	95
8) Chloroethane	1.60	64	3239	3.270 ug/L	98
9) Trichlorofluoromethane	1.77	101	6390	2.549 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4263	3.579 ug/L #	76
12) 1,1-Dichloroethene	2.13	96	4192	3.405 ug/L #	1
13) Acetone	2.19	43	4077	5.524 ug/L	100
14) Carbon disulfide	2.31	76	8552	2.419 ug/L #	95
15) Methyl Acetate	2.46	43	3987	2.788 ug/L	90
16) Methylene chloride	2.52	84	4364	2.982 ug/L	94
17) trans-1,2-Dichloroethene	2.78	96	3253	2.436 ug/L	96
18) Methyl tert-butyl Ether	2.79	73	11847	2.523 ug/L	98
19) 1,1-Dichloroethane	3.21	63	6936	2.651 ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	4046	2.741 ug/L	100
22) 2-Butanone	4.03	43	4321m	4.613 ug/L	

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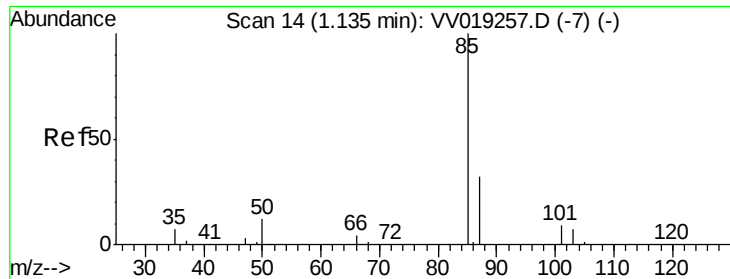
Manual Integrations
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 11/6/2020 11:03:50 AM

Quant Time: Nov 05 05:22:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 05 04:58:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	2058	2.532	ug/L	92
25) Chloroform	4.41	83	9042	3.223	ug/L	97
27) 1,2-Dichloroethane	5.17	62	6874	2.882	ug/L #	90
29) Cyclohexane	4.71	56	3794	2.033	ug/L #	81
30) 1,1,1-Trichloroethane	4.64	97	6451	2.551	ug/L #	76
31) Carbon tetrachloride	4.86	117	5231m	2.396	ug/L	
33) Benzene	5.13	78	13204	2.437	ug/L	100
34) Trichloroethene	5.94	95	4020	2.730	ug/L	91
35) Methylcyclohexane	6.16	83	4114	2.308	ug/L	98
37) 1,2-Dichloropropane	6.21	63	4007	2.771	ug/L #	89
38) Bromodichloromethane	6.54	83	5422	2.605	ug/L	100
39) cis-1,3-Dichloropropene	7.05	75	5710	2.468	ug/L	96
40) 4-Methyl-2-pentanone	7.25	43	9442	4.860	ug/L	98
42) Toluene	7.41	91	16072	2.744	ug/L	97
44) trans-1,3-Dichloropropene	7.68	75	5488m	2.314	ug/L	
45) 1,1,2-Trichloroethane	7.86	97	4037	2.824	ug/L	92
46) Tetrachloroethene	8.00	164	2869	2.388	ug/L	95
48) 2-Hexanone	8.16	43	10271	6.993	ug/L #	94
49) Dibromochloromethane	8.27	129	4297	2.521	ug/L	96
50) 1,2-Dibromoethane	8.38	107	3814	2.574	ug/L #	89
51) Chlorobenzene	8.91	112	9741	2.486	ug/L	95
52) Ethylbenzene	9.04	91	14972	2.317	ug/L	96
53) m,p-Xylene	9.16	106	5108	2.111	ug/L	94
54) o-Xylene	9.57	106	5150	2.160	ug/L	96
55) Styrene	9.59	104	7983	1.881	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.26	83	6242	2.886	ug/L #	95
59) Bromoform	9.76	173	3159	2.659	ug/L #	96
60) Isopropylbenzene	9.95	105	12822	2.286	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	5011	3.013	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	9615	2.058	ug/L	95
63) 1,2,4-Trimethylbenzene	10.94	105	9303	2.035	ug/L	96
64) 1,3-Dichlorobenzene	11.21	146	7493	2.553	ug/L	91
65) 1,4-Dichlorobenzene	11.30	146	8246	2.716	ug/L	96
67) 1,2-Dichlorobenzene	11.67	146	8466	2.820	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	1219	2.513	ug/L	87
69) 1,3,5-Trichlorobenzene	12.67	180	4890	2.322	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4172	2.105	ug/L	93
71) Naphthalene	13.53	128	10309	1.844	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	4372	2.225	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 2.330 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 85 Resp: 3255

Ion Ratio Lower Upper

85 100

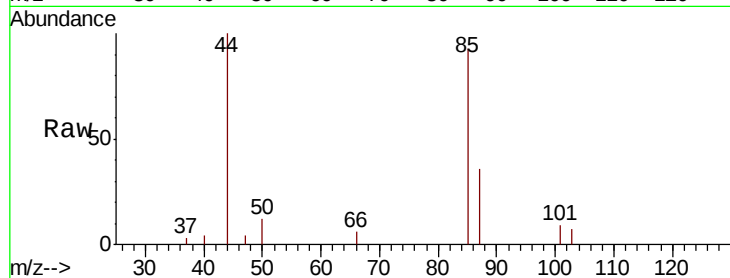
87 34.9 25.9 38.9

Manual Integrations

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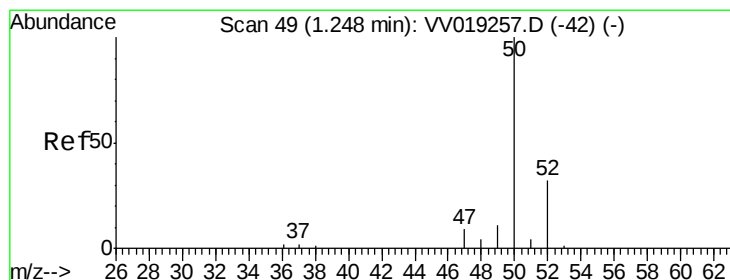
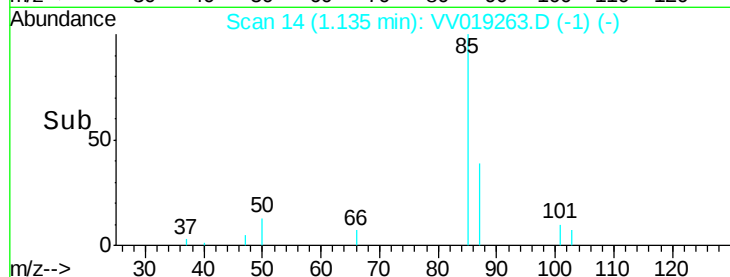
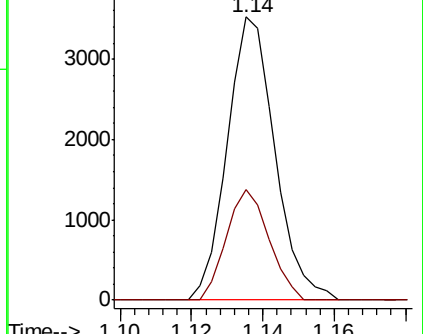
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Abundance Ion 85.00 (84.70 to 85.70): VV019257.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV019257.D (-7) (-)



#3

Chloromethane

Concen: 2.547 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019263.D

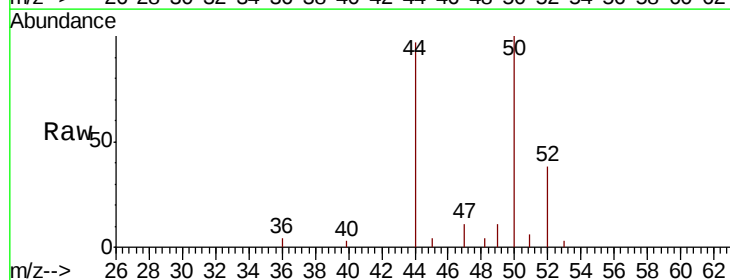
Acq: 04 Nov 2020 23:57

Tgt Ion: 50 Resp: 3706

Ion Ratio Lower Upper

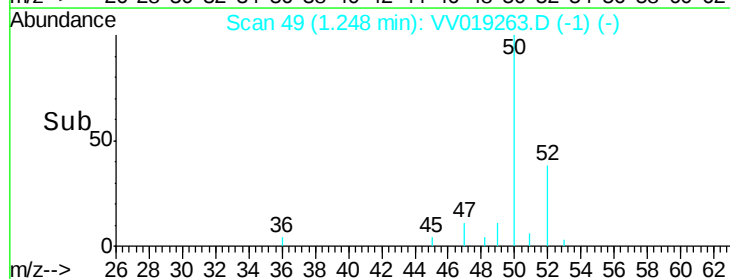
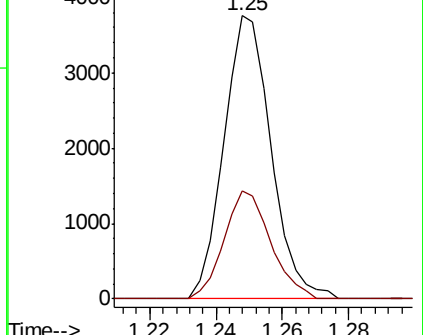
50 100

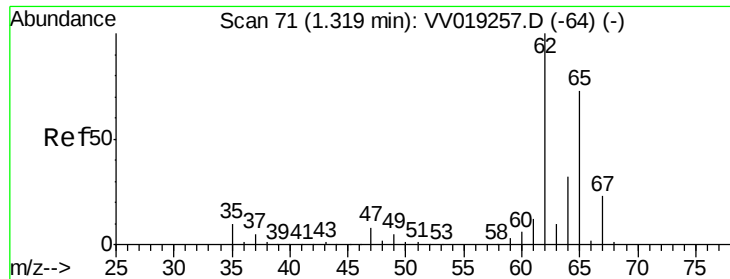
52 38.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019257.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019257.D (-42) (-)





#5

Vinyl chloride

Concen: 2.904 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 62 Resp: 4397

Ion Ratio Lower Upper

62 100

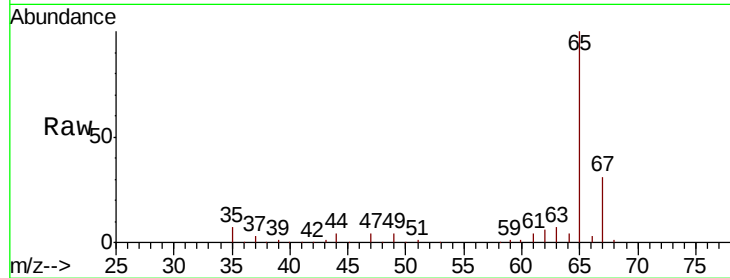
64 58.8 23.3 43.3#

Manual Integrations

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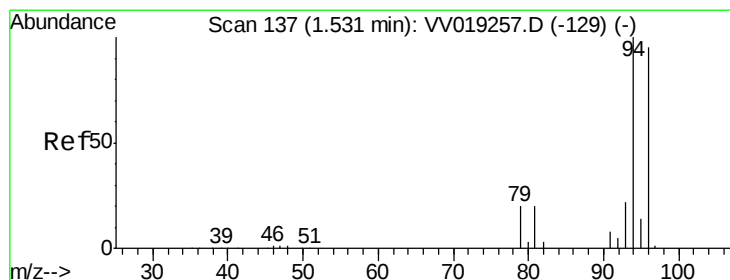
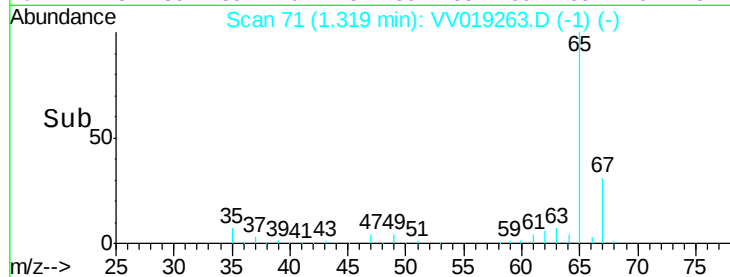
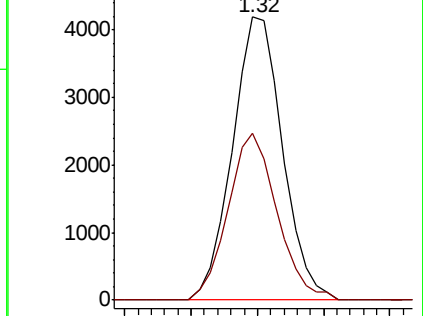
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 3.098 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019263.D

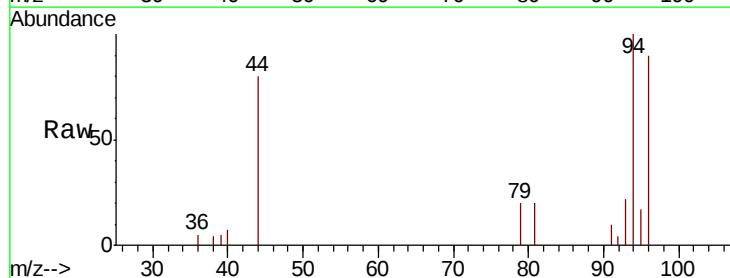
Acq: 04 Nov 2020 23:57

Tgt Ion: 94 Resp: 3153

Ion Ratio Lower Upper

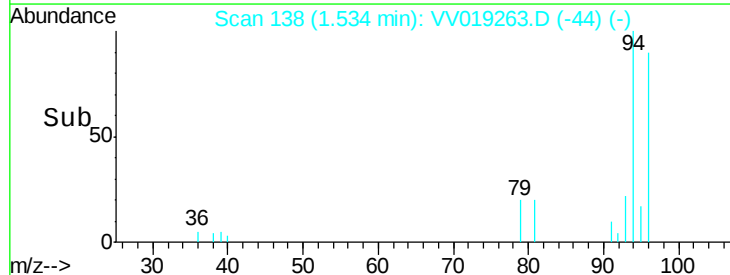
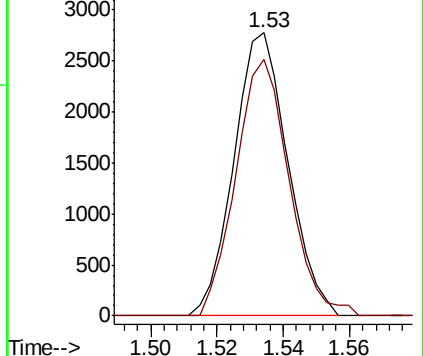
94 100

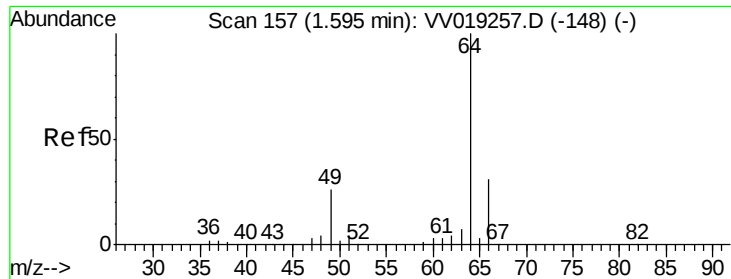
96 90.4 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.270 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 64 Resp: 3239

Ion Ratio Lower Upper

64 100

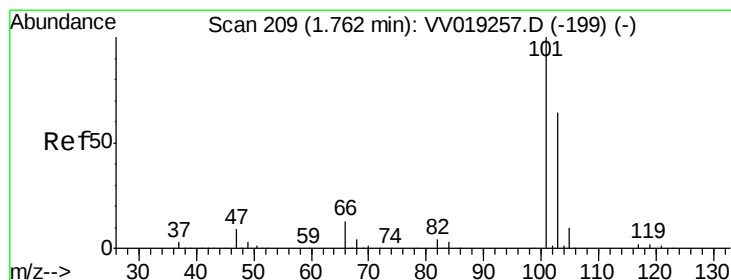
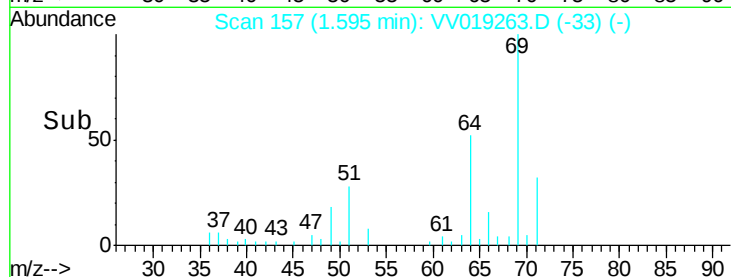
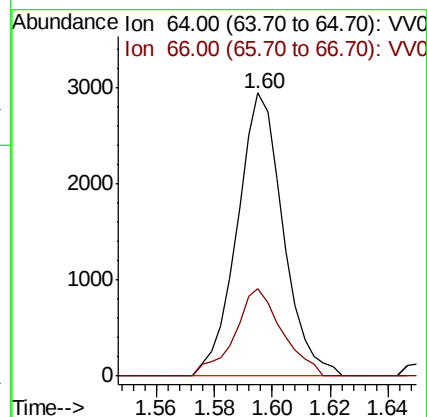
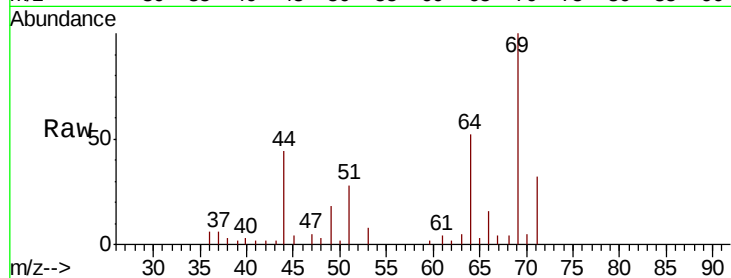
66 31.1 22.5 41.9

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.549 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019263.D

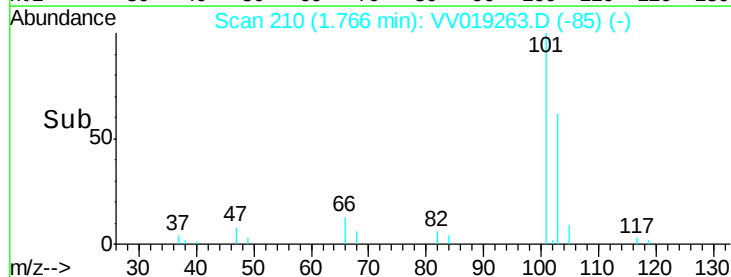
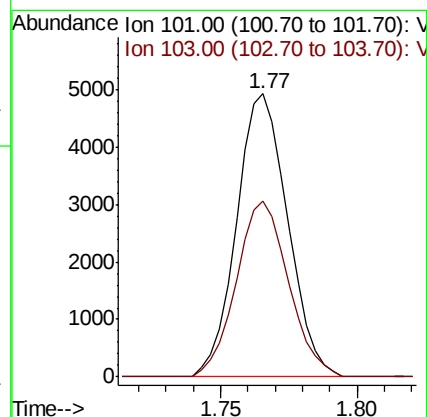
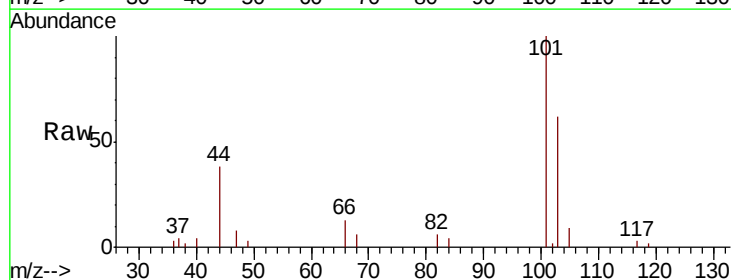
Acq: 04 Nov 2020 23:57

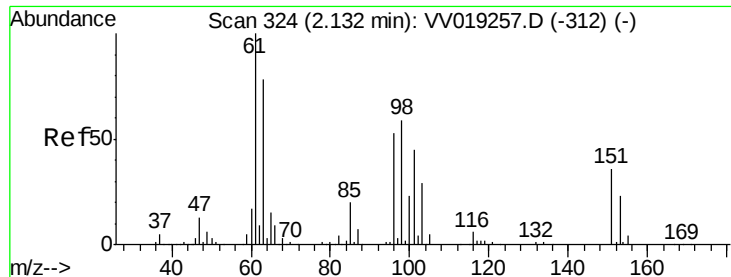
Tgt Ion: 101 Resp: 6390

Ion Ratio Lower Upper

101 100

103 63.4 52.3 78.5





#10

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

Concen: 3.579 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

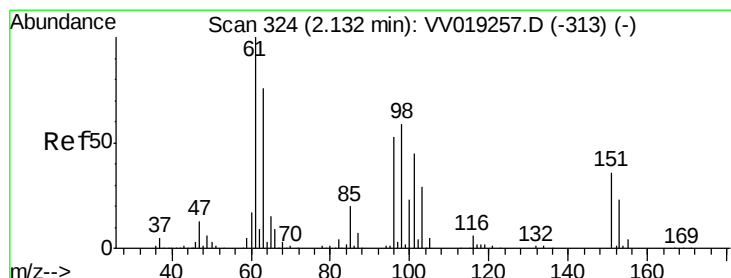
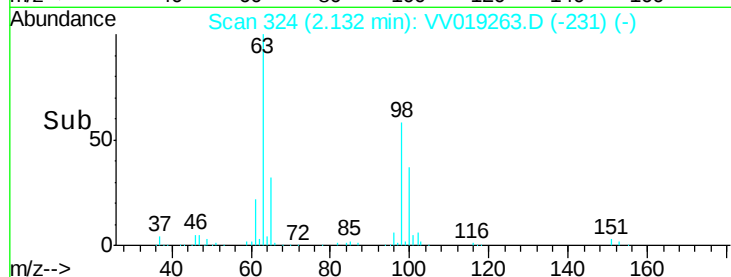
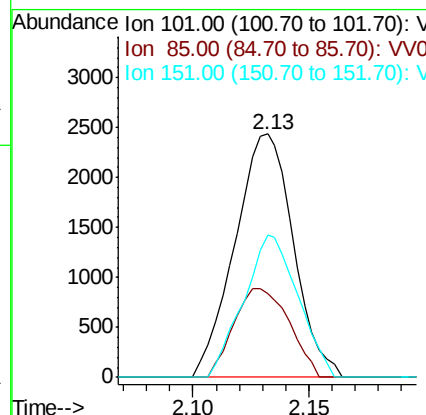
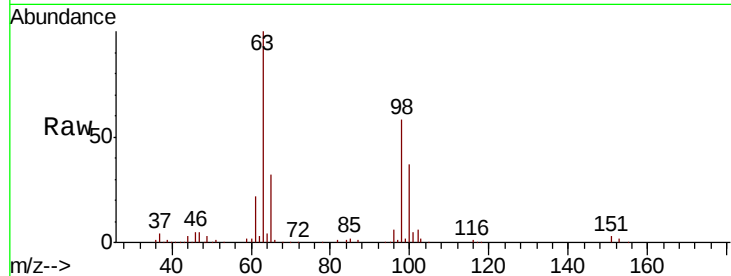
ClientSampleId :

MDL-ME-SOIL-07

Tot Ion:	101	Resp:	4263
Ion Ratio	Lower	Upper	
101	100		
85	34.7	35.6	53.4#
151	54.4	64.1	96.1#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.405 ug/L

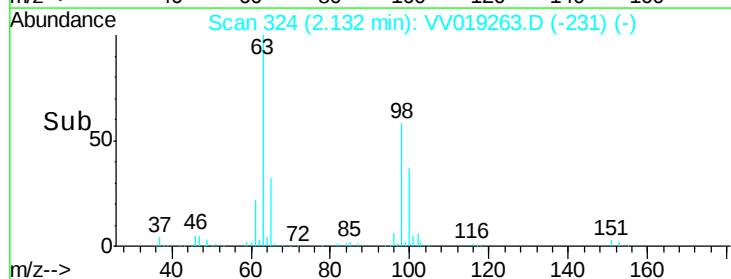
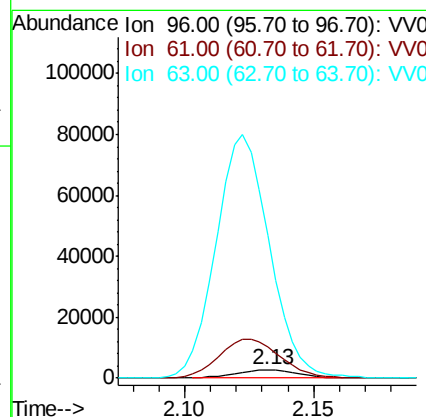
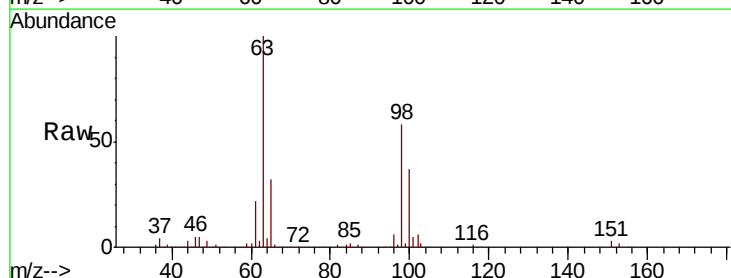
RT: 2.13 min Scan# 324

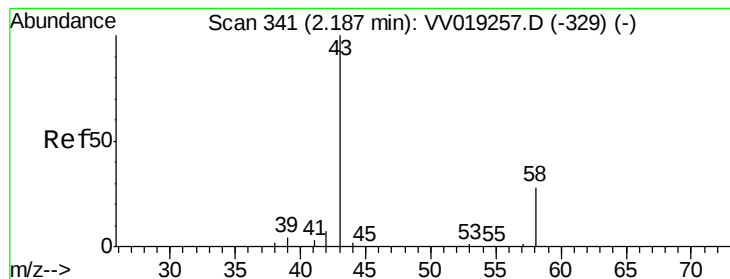
Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion:	96	Resp:	4192
Ion Ratio	Lower	Upper	
96	100		
61	382.7	133.6	248.0#
63	1753.8	103.0	191.2#





#13

Acetone

Concen: 5.524 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 43 Resp: 4077

Ion Ratio Lower Upper

43 100

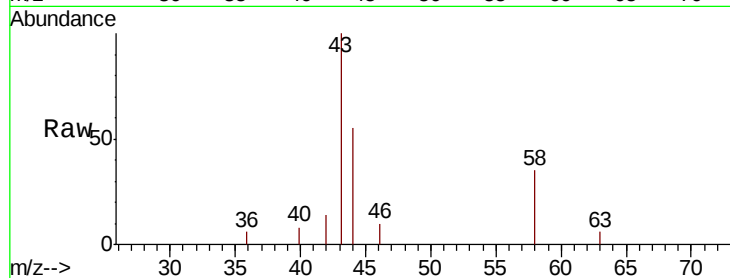
58 28.8 0.0 57.8

Manual Integrations

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11/6/2020 11:03:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VV019257.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019257.D (-329) (-)

2000

1500

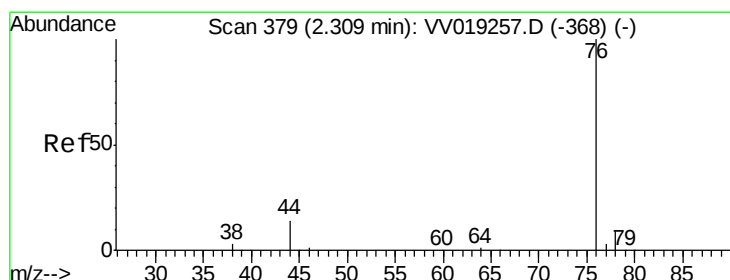
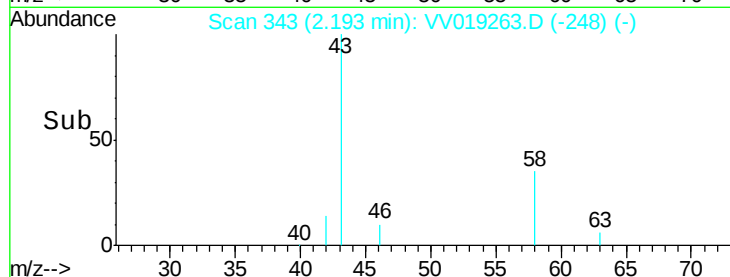
1000

500

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 2.419 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019263.D

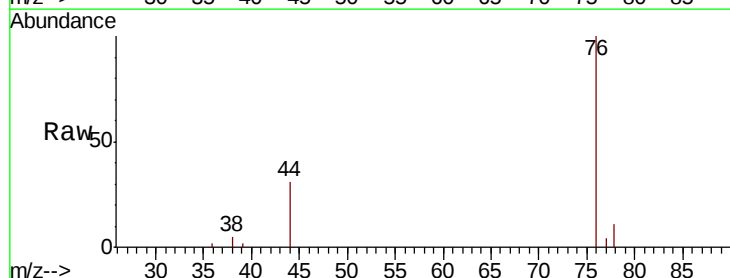
Acq: 04 Nov 2020 23:57

Tgt Ion: 76 Resp: 8552

Ion Ratio Lower Upper

76 100

78 11.1 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VV019257.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019257.D (-368) (-)

6000

5000

4000

3000

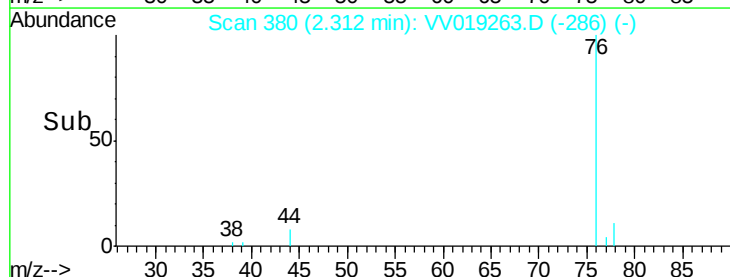
2000

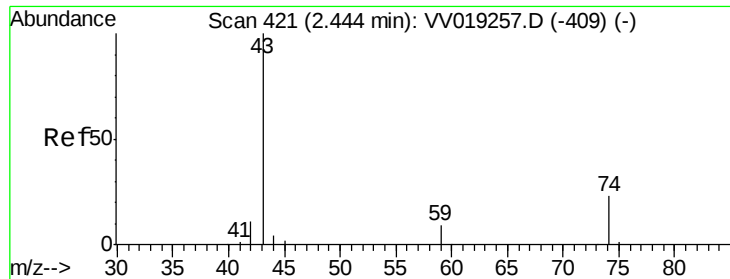
1000

0

2.25 2.30 2.35

Time-->





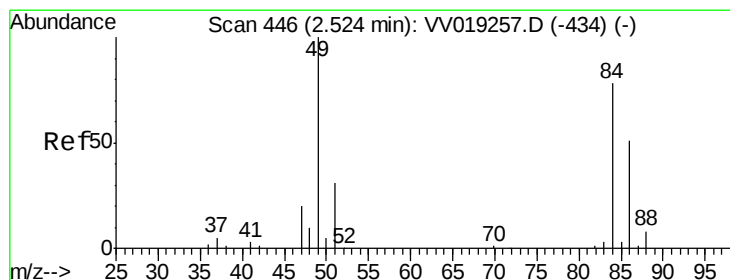
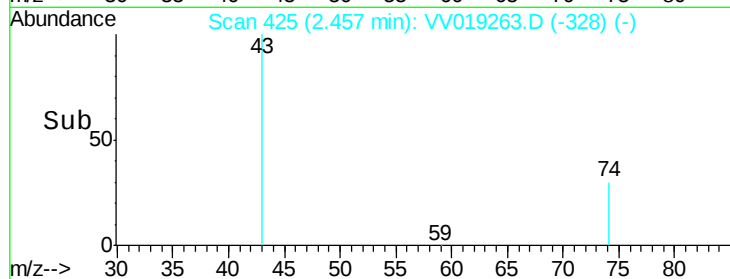
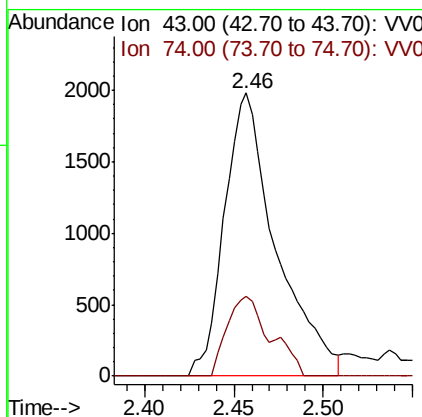
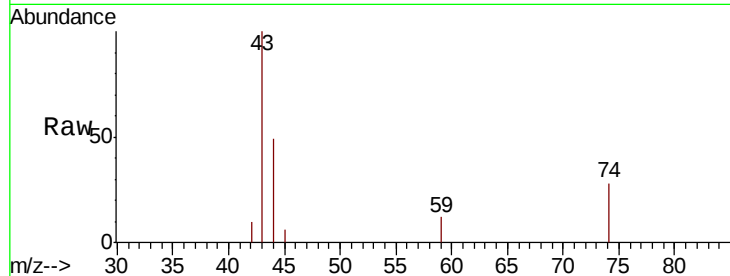
#15
Methvl Acetate
Concen: 2.788 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion: 43 Resp: 3987
Ion Ratio Lower Upper
43 100
74 18.8 18.8 28.2

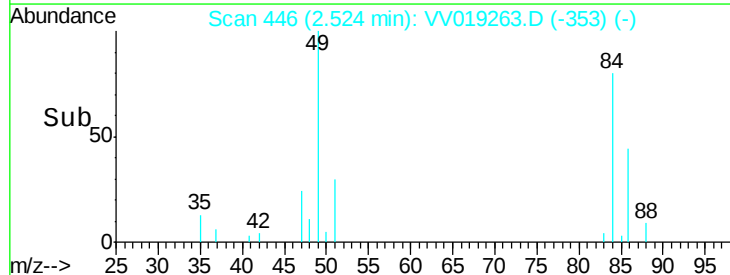
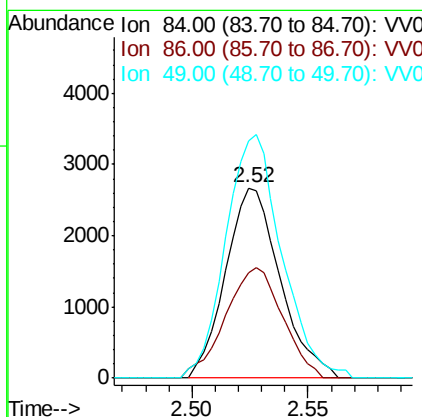
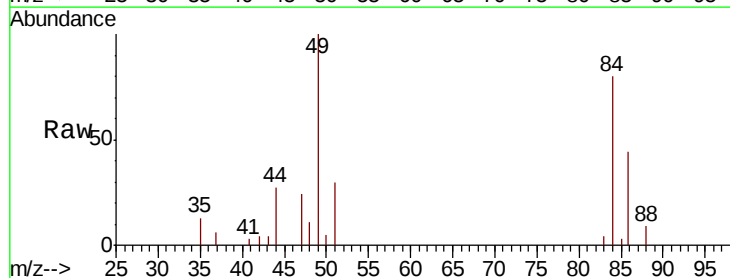
Manual Integrations
APPROVED

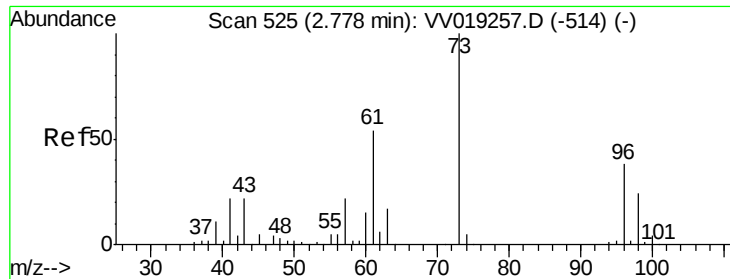
MMDadoda
11/6/2020 11:03:50 AM



#16
Methylene chloride
Concen: 2.982 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion: 84 Resp: 4364
Ion Ratio Lower Upper
84 100
86 55.2 45.6 84.8
49 124.8 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.436 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

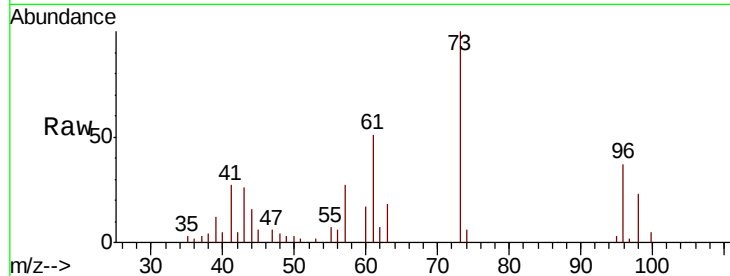
ClientSampleId :

MDL-ME-SOIL-07

Tot Ion:	96	Resp:	3253
Ion	Ratio	Lower	Upper
96	100		
61	136.8	100.7	187.1
98	61.0	42.9	79.7

Manual Integrations
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MMDadoda
11/6/2020 11:03:50 AM

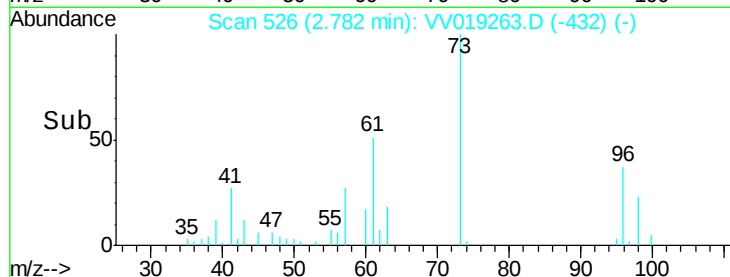


Abundance Ion 96.00 (95.70 to 96.70): VV019257.D (-514) (-)

Ion 61.00 (60.70 to 61.70): VV019257.D (-514) (-)

Ion 98.00 (97.70 to 98.70): VV019257.D (-514) (-)

Time-->

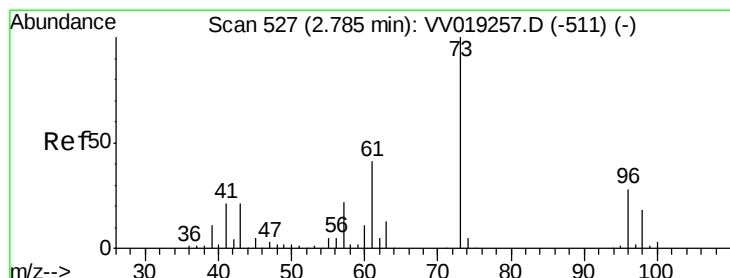


Abundance Ion 96.00 (95.70 to 96.70): VV019263.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019263.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019263.D (-432) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 2.523 ug/L

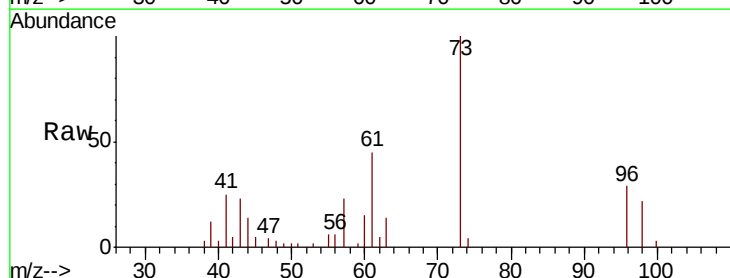
RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion:	73	Resp:	11847
Ion	Ratio	Lower	Upper
73	100		
43	23.4	17.9	26.9
57	22.6	17.1	25.7

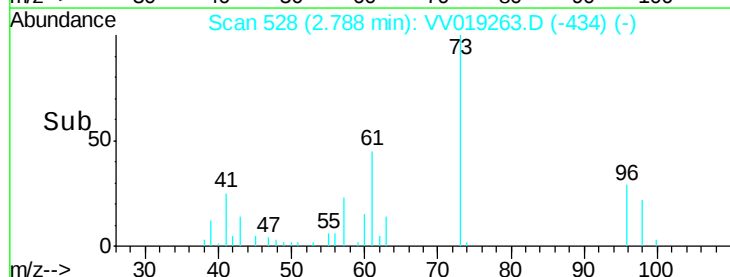


Abundance Ion 73.00 (72.70 to 73.70): VV019257.D (-511) (-)

Ion 43.00 (42.70 to 43.70): VV019257.D (-511) (-)

Ion 57.00 (56.70 to 57.70): VV019257.D (-511) (-)

Time-->

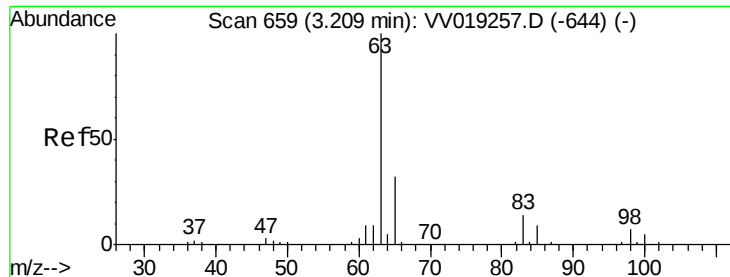


Abundance Ion 73.00 (72.70 to 73.70): VV019263.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019263.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019263.D (-434) (-)

Time-->



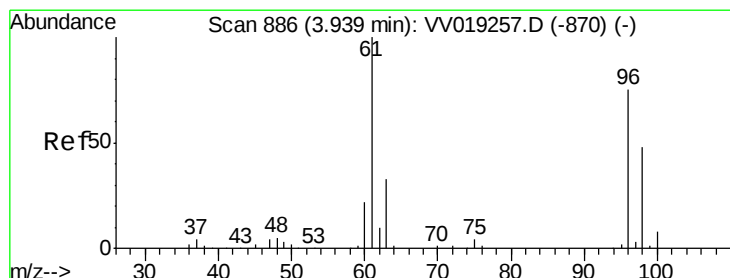
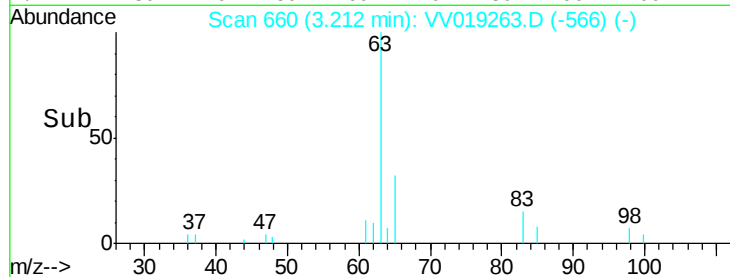
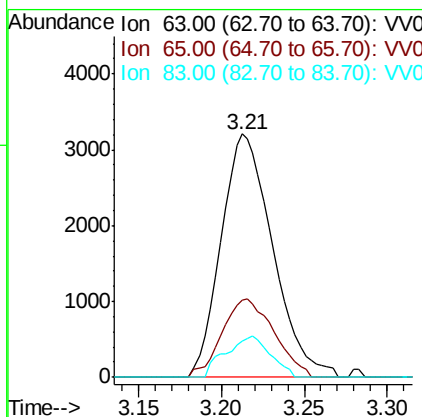
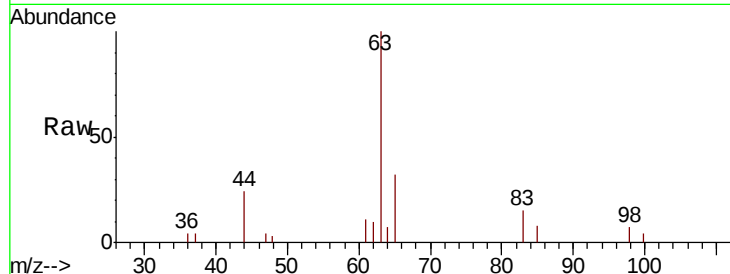
#19
 1,1-Dichloroethane
 Concen: 2.651 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.8	40.6
83	14.7	9.5	17.7

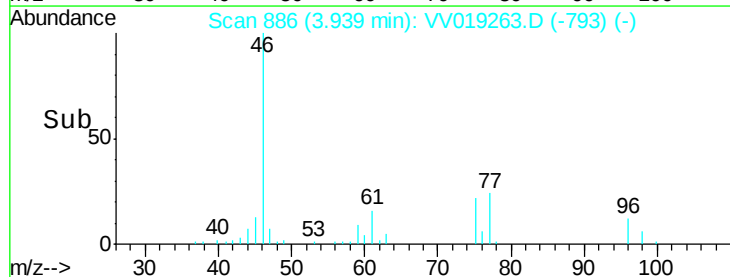
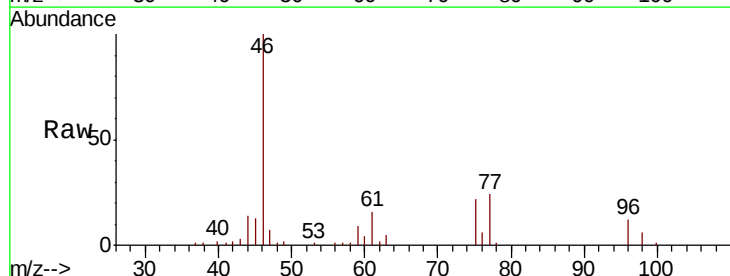
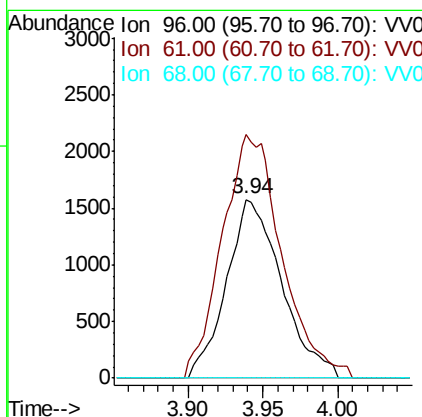
Manual Integrations
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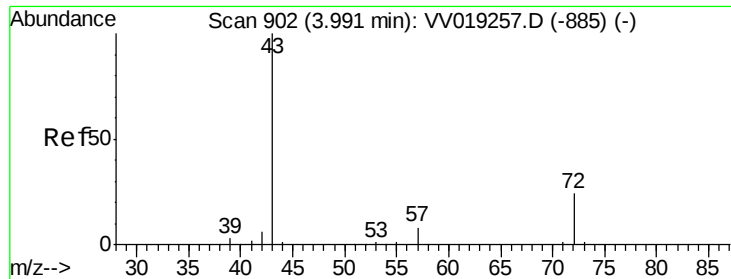
MMDadoda
 11/6/2020 11:03:50 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.741 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.3	95.6	177.6
68	0.0	0.0	0.0





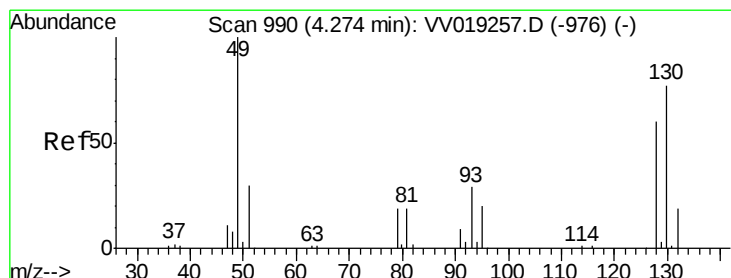
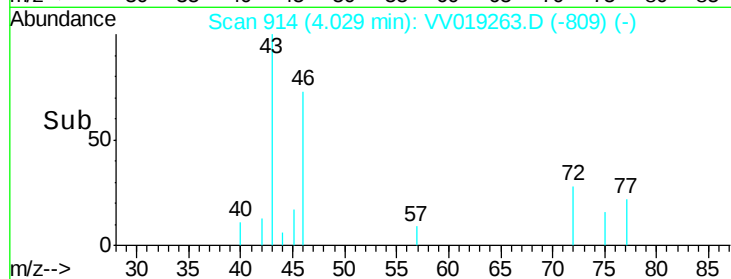
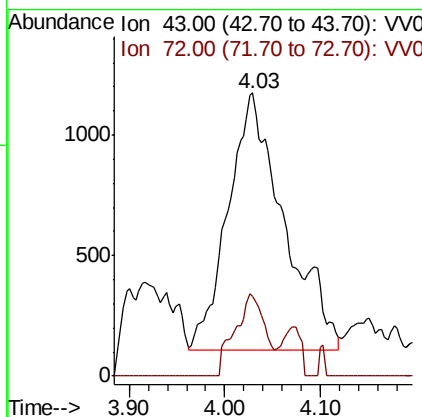
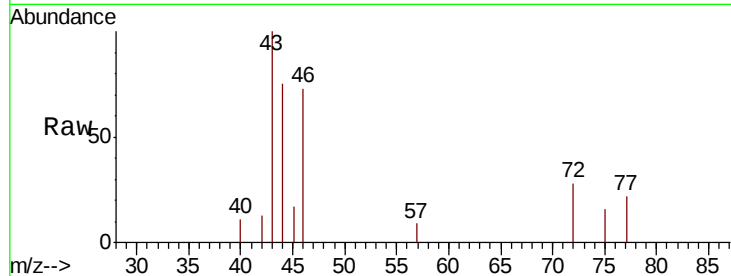
#22
 2-Butanone
 Concen: 4.613 ug/L m
 RT: 4.03 min Scan# 914
 Delta R.T. 0.04 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 43 Resp: 4321
 Ion Ratio Lower Upper
 43 100
 72 9.0 12.7 38.0#

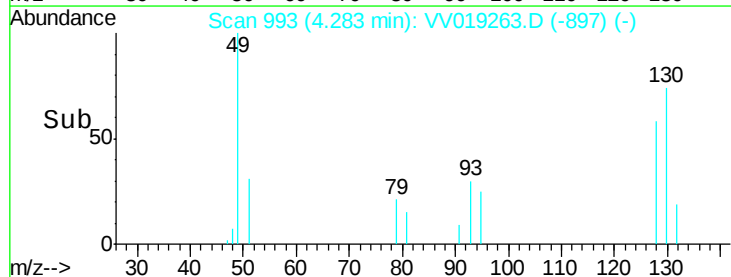
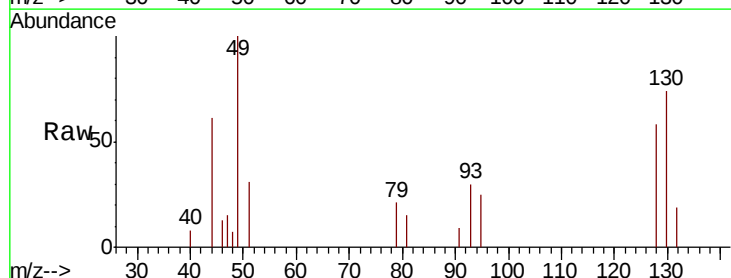
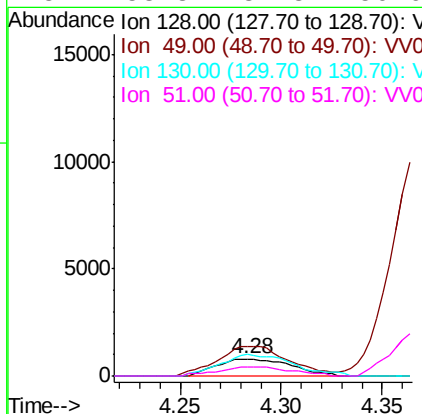
Manual Integrations
 APPROVED

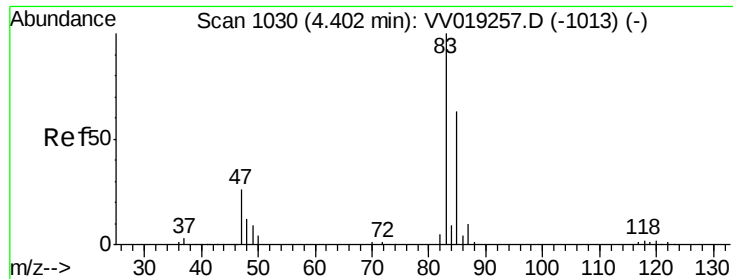
MMDadoda
 11/6/2020 11:03:50 AM



#23
 Bromochloromethane
 Concen: 2.532 ug/L
 RT: 4.28 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion: 128 Resp: 2058
 Ion Ratio Lower Upper
 128 100
 49 171.9 108.8 202.2
 130 127.8 88.5 164.3
 51 53.3 37.8 56.6





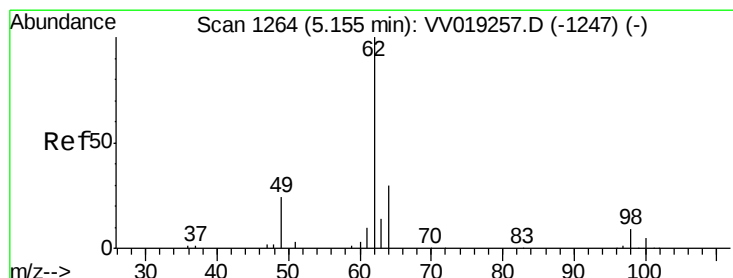
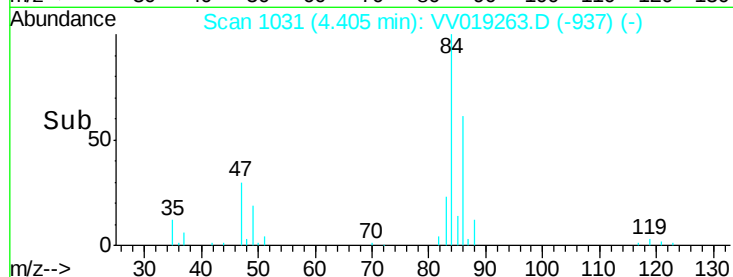
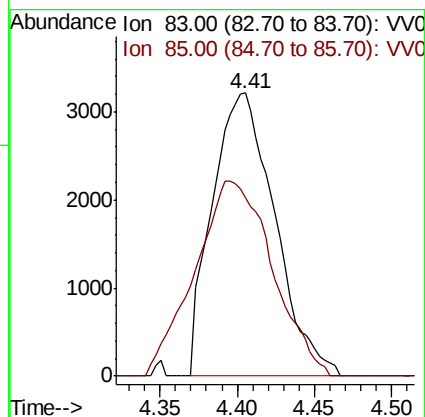
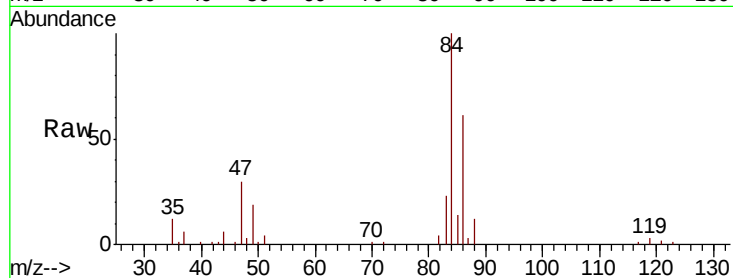
#25
Chloroform
Concen: 3.223 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion: 83 Resp: 9042
Ion Ratio Lower Upper
83 100
85 62.9 45.4 84.4

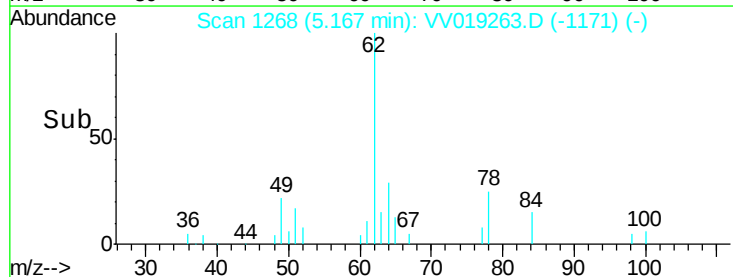
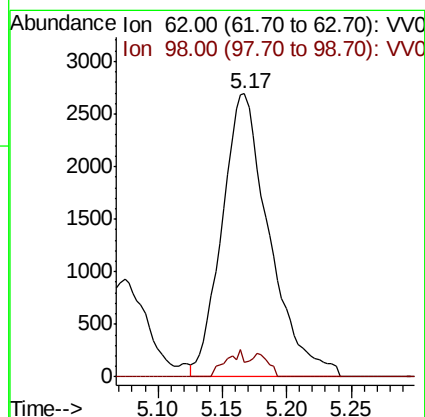
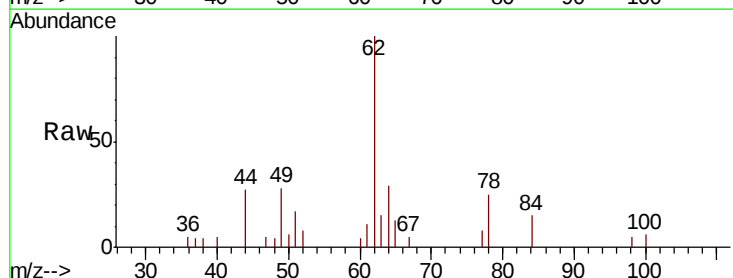
Manual Integrations
APPROVED

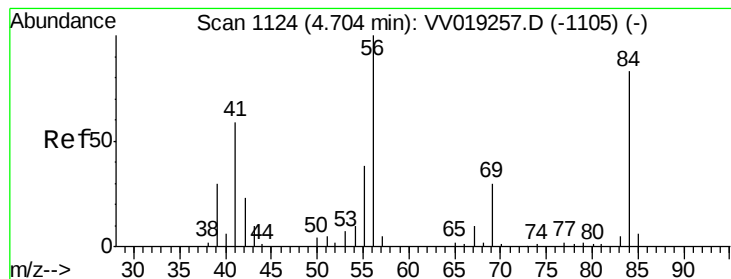
MMDadoda
11/6/2020 11:03:50 AM



#27
1,2-Dichloroethane
Concen: 2.882 ug/L
RT: 5.17 min Scan# 1268
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion: 62 Resp: 6874
Ion Ratio Lower Upper
62 100
98 5.0 6.8 10.2#





#29

Cvclohexane

Concen: 2.033 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

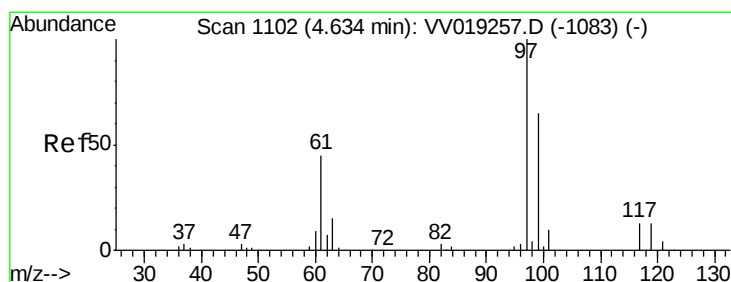
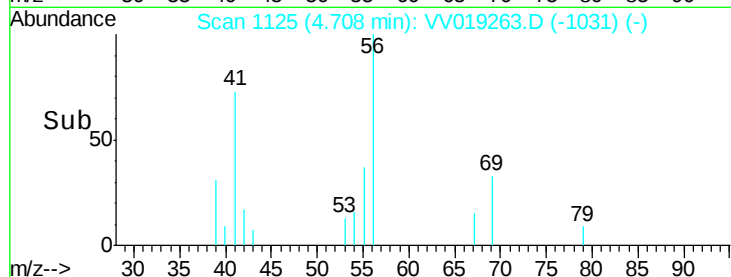
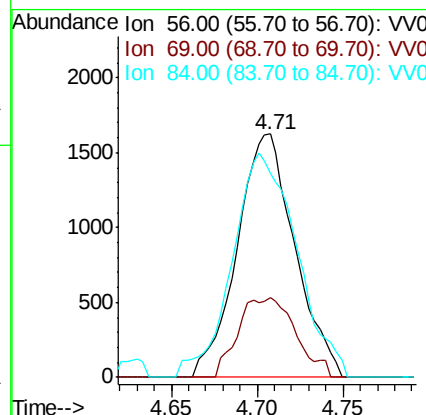
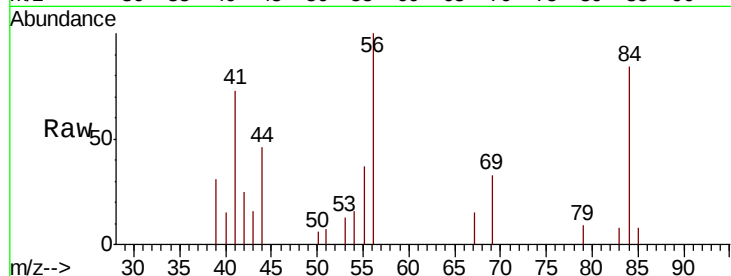
MDL-ME-SOIL-07

Tot Ion: 56 Resp: 3794

Ion	Ratio	Lower	Upper
56	100		
69	13.6	24.6	36.8#
84	101.8	70.5	105.7

Manual Integrations
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MMDadoda
11/6/2020 11:03:50 AM



#30

1,1,1-Trichloroethane

Concen: 2.551 ug/L

RT: 4.64 min Scan# 1103

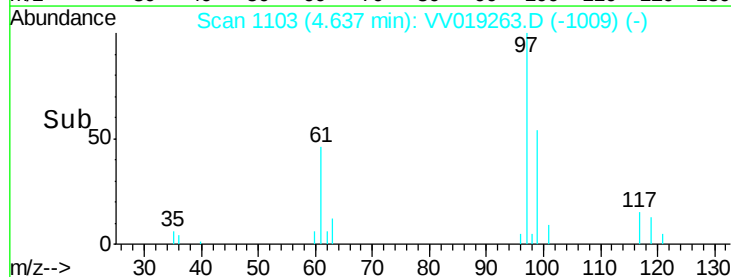
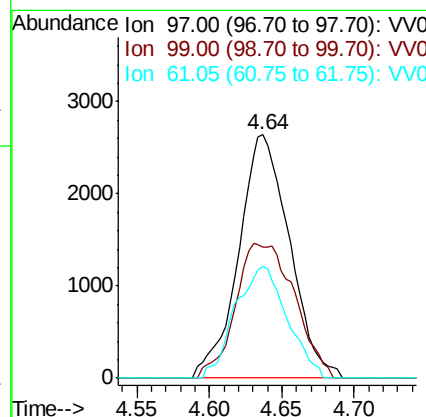
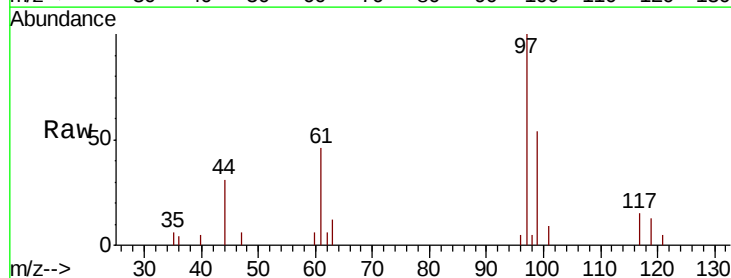
Delta R.T. 0.00 min

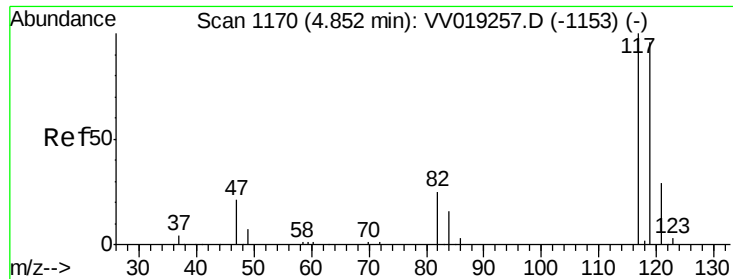
Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion: 97 Resp: 6451

Ion	Ratio	Lower	Upper
97	100		
99	35.4	52.0	78.0#
61	46.6	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.396 ug/L m

RT: 4.86 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion:117 Resp: 5231

Ion Ratio Lower Upper

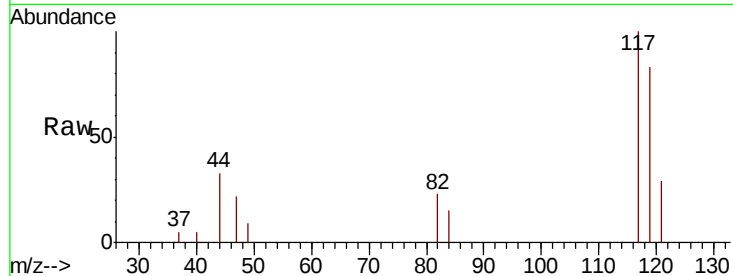
117 100

119 12.3 77.8 116.6#

Manual Integrations
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11/6/2020 11:03:50 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

2500

2000

1500

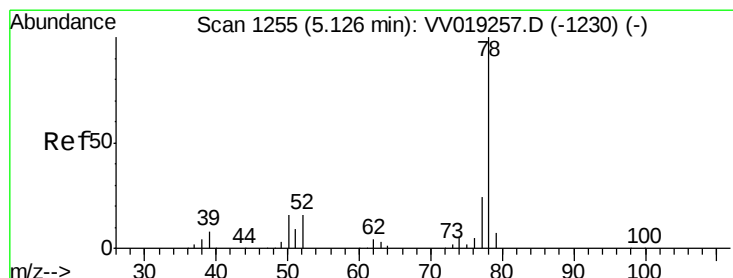
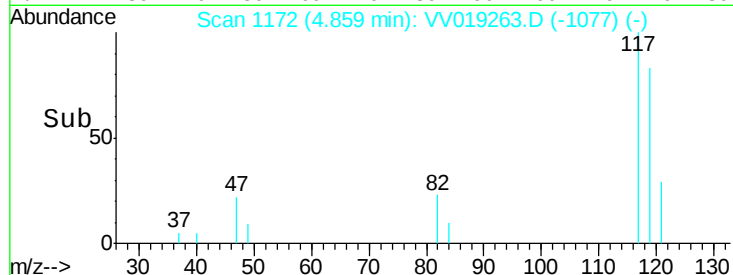
1000

500

0

4.75 4.80 4.85 4.90 4.95

Time-->



#33

Benzene

Concen: 2.437 ug/L

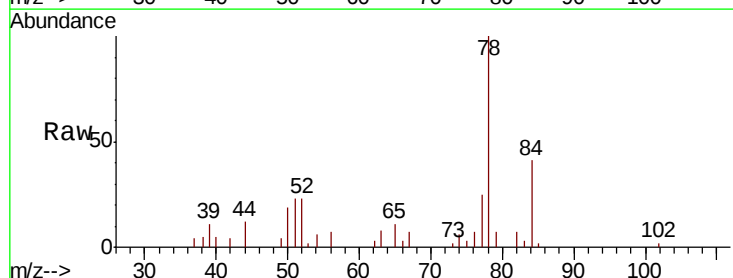
RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion: 78 Resp: 13204



Abundance Ion 78.00 (77.70 to 78.70): VV0

6000

5000

4000

3000

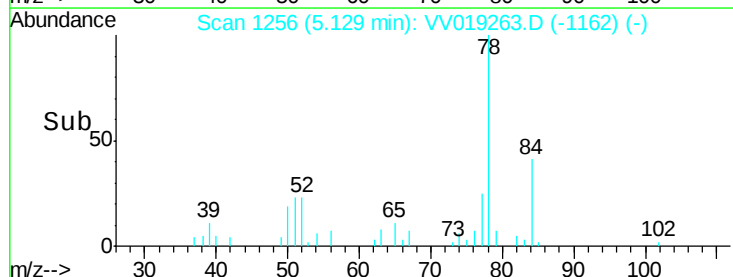
2000

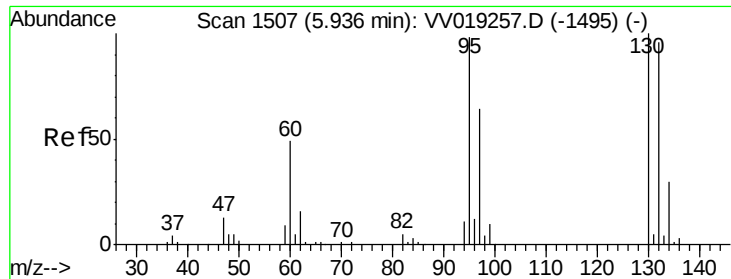
1000

0

5.05 5.10 5.15 5.20

Time-->





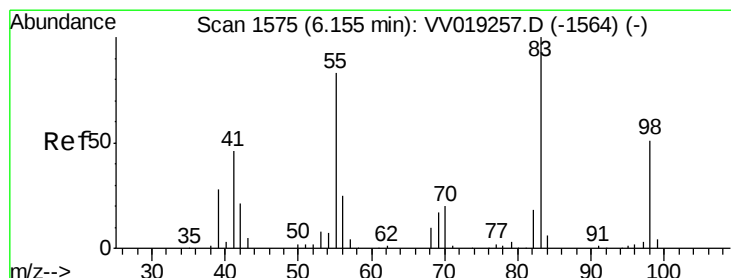
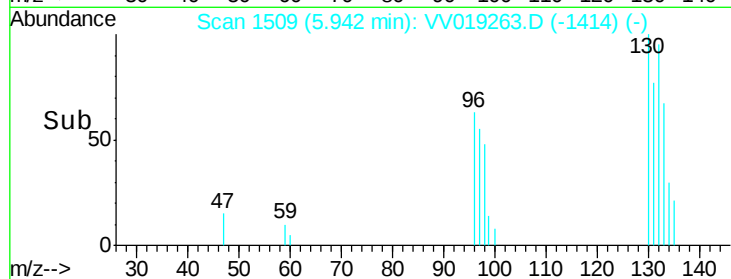
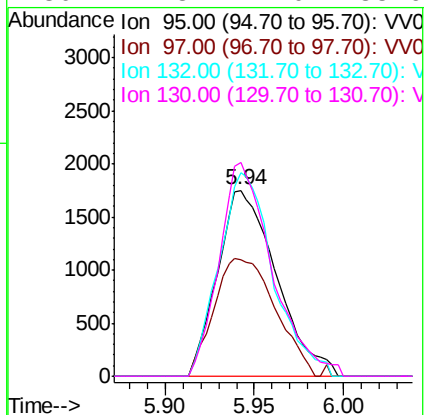
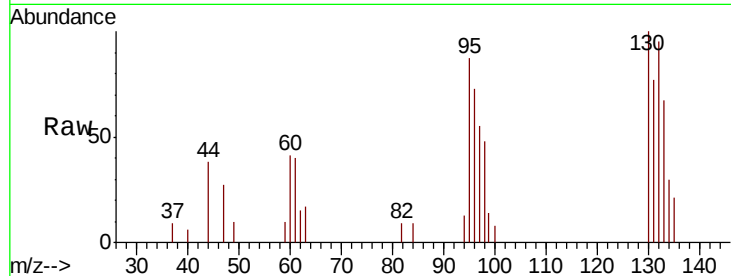
#34
 Trichloroethene
 Concen: 2.730 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 95 Resp: 4020
 Ion Ratio Lower Upper
 95 100
 97 62.6 45.4 84.4
 132 109.1 68.5 127.3
 130 114.8 72.0 133.6

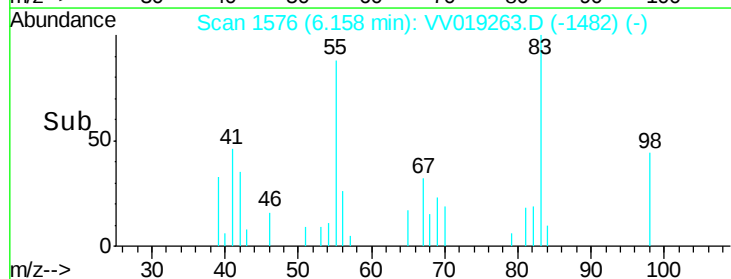
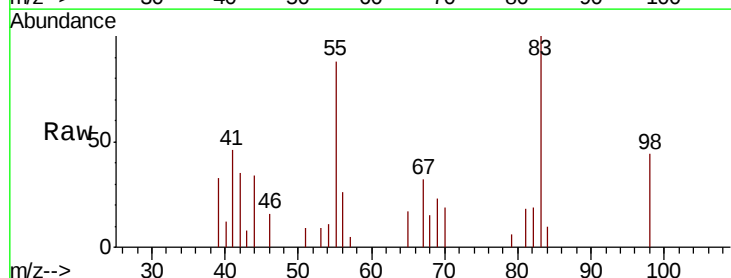
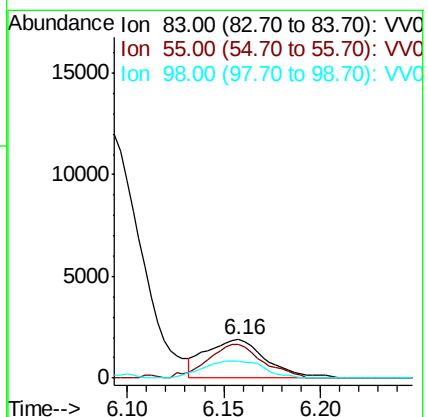
Manual Integrations
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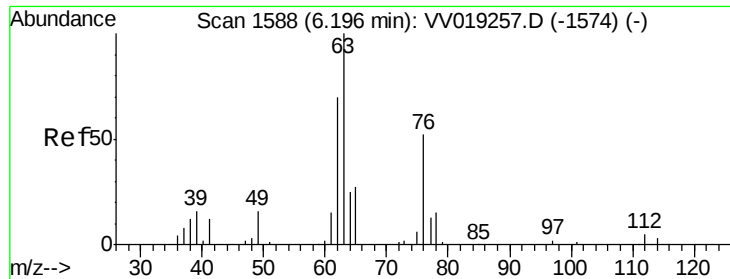
MMDadoda
 11/6/2020 11:03:50 AM



#35
 Methylcyclohexane
 Concen: 2.308 ug/L
 RT: 6.16 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion: 83 Resp: 4114
 Ion Ratio Lower Upper
 83 100
 55 77.2 62.8 94.2
 98 46.1 38.6 58.0





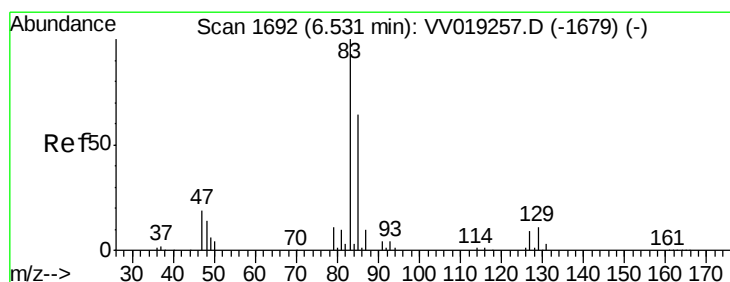
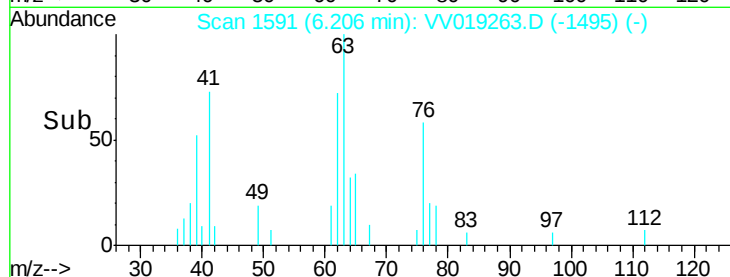
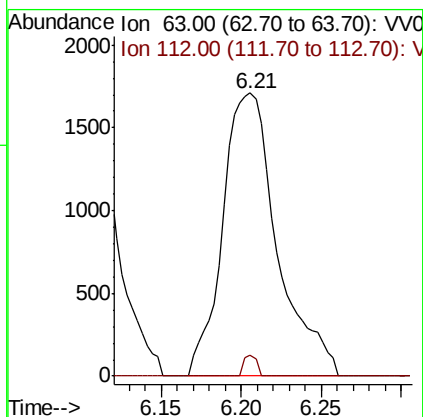
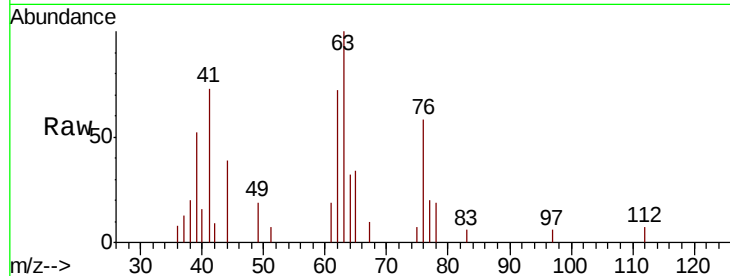
#37
 1,2-Dichloropropane
 Concen: 2.771 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 63 Resp: 4007
 Ion Ratio Lower Upper
 63 100
 112 1.6 4.2 6.2#

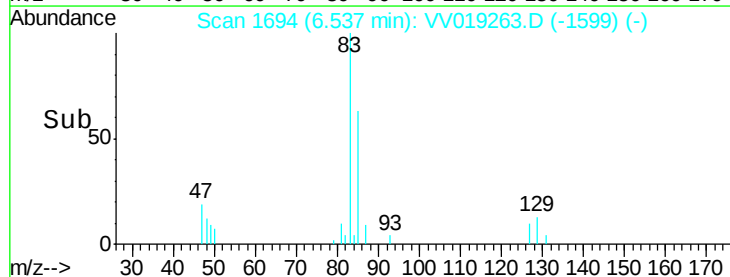
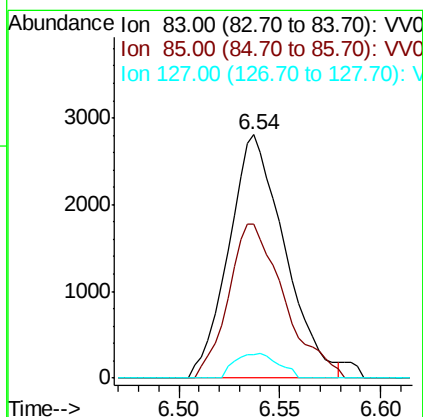
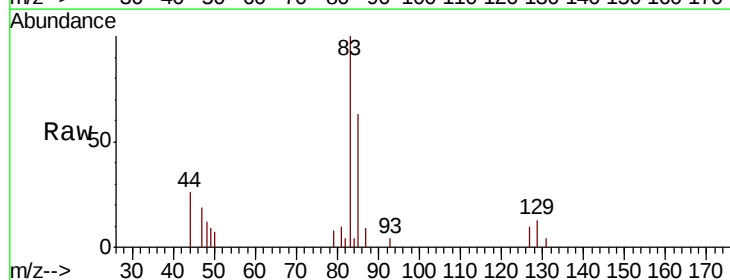
Manual Integrations
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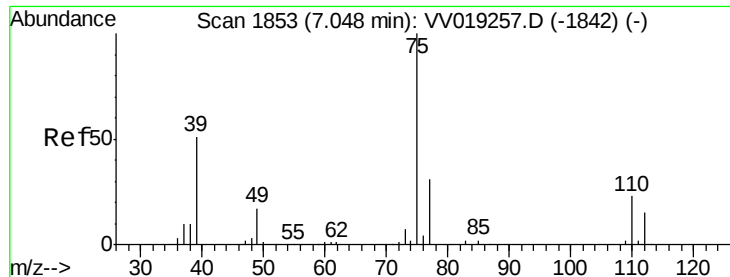
MMDadoda
 11/6/2020 11:03:50 AM



#38
 Bromodichloromethane
 Concen: 2.605 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion: 83 Resp: 5422
 Ion Ratio Lower Upper
 83 100
 85 63.0 44.0 81.8
 127 9.8 7.3 10.9





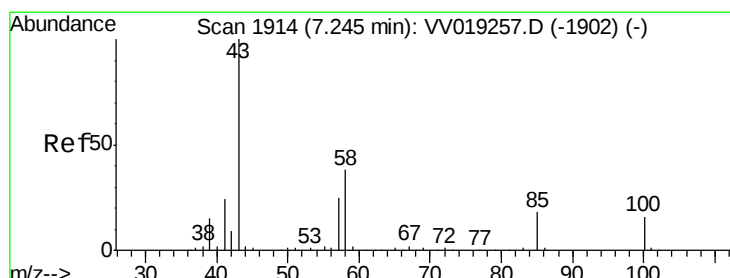
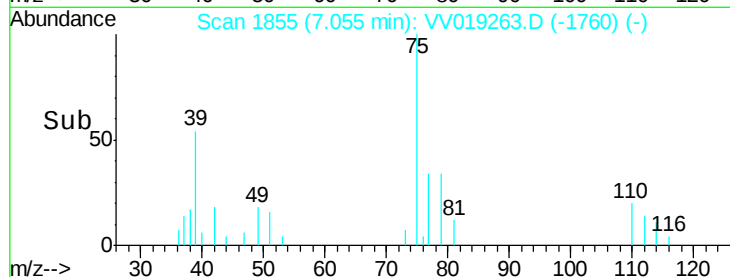
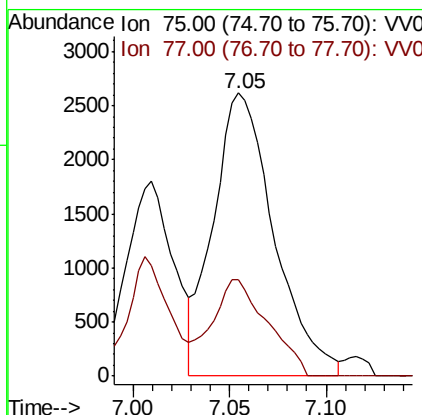
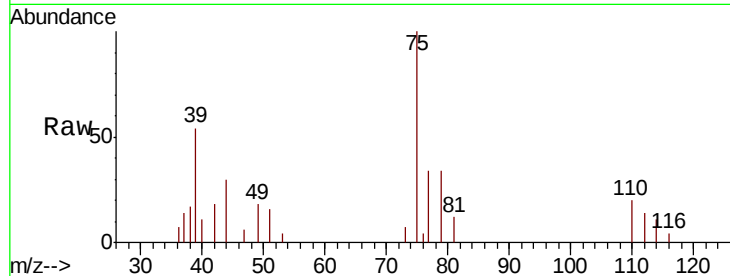
#39
 cis-1,3-Dichloropropene
 Concen: 2.468 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 75 Resp: 5710
 Ion Ratio Lower Upper
 75 100
 77 34.0 22.2 41.2

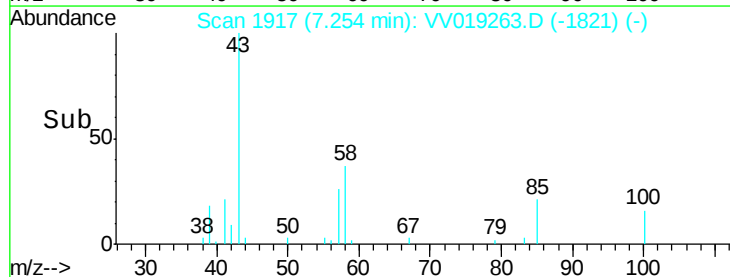
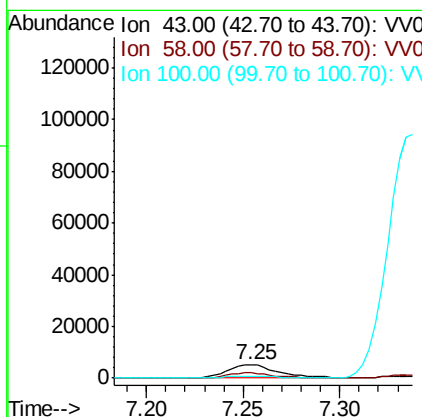
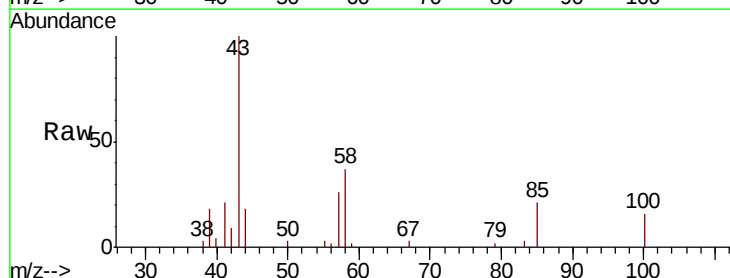
Manual Integrations
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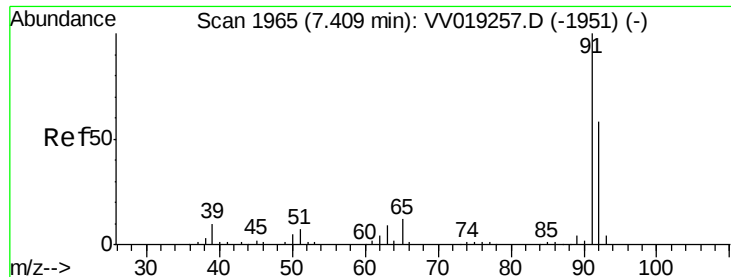
MMDadoda
 11/6/2020 11:03:50 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.860 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion: 43 Resp: 9442
 Ion Ratio Lower Upper
 43 100
 58 36.8 30.5 45.7
 100 14.8 12.7 19.1





#42

Toluene

Concen: 2.744 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 91 Resp: 16072

Ion Ratio Lower Upper

91 100

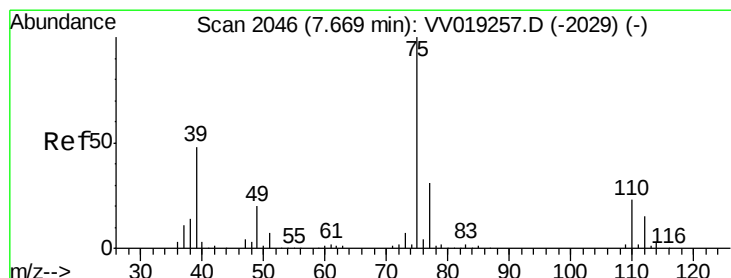
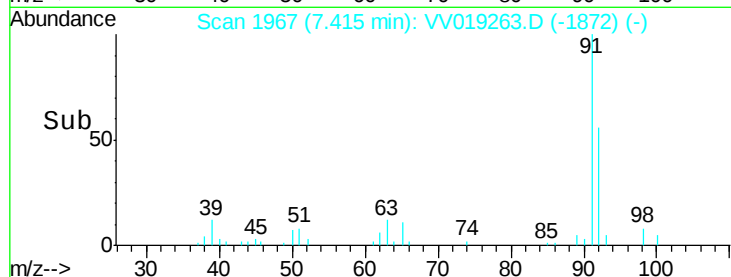
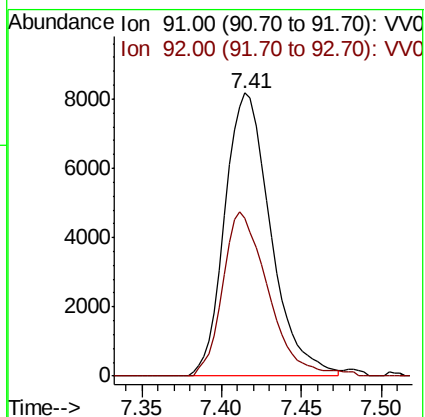
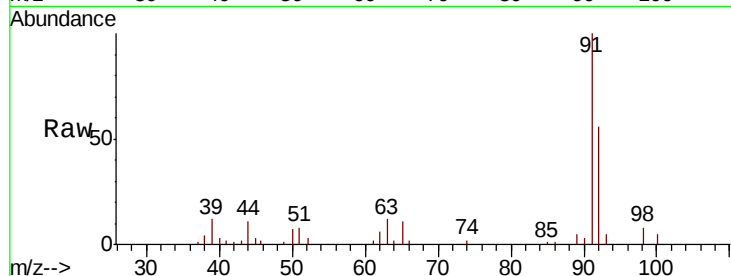
92 55.8 40.6 75.4

Manual Integrations

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MMDadoda

11/6/2020 11:03:50 AM



#44

trans-1,3-Dichloropropene

Concen: 2.314 ug/L m

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019263.D

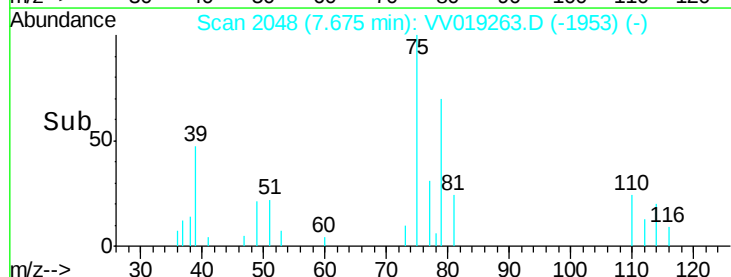
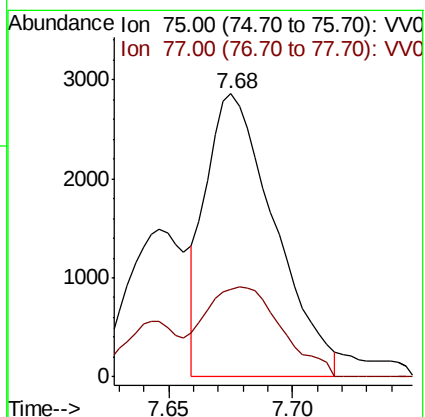
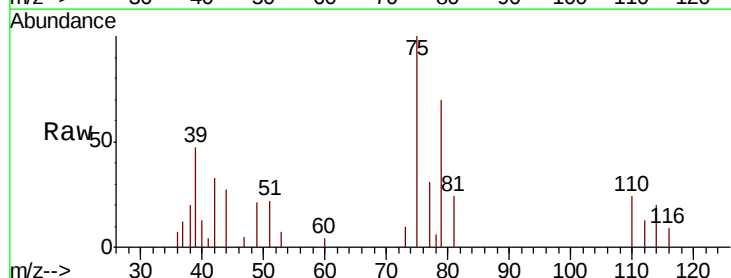
Acq: 04 Nov 2020 23:57

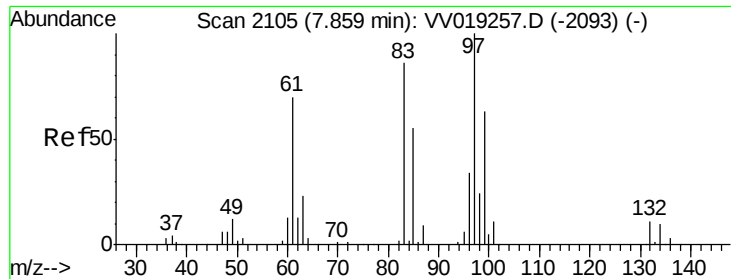
Tgt Ion: 75 Resp: 5488

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2





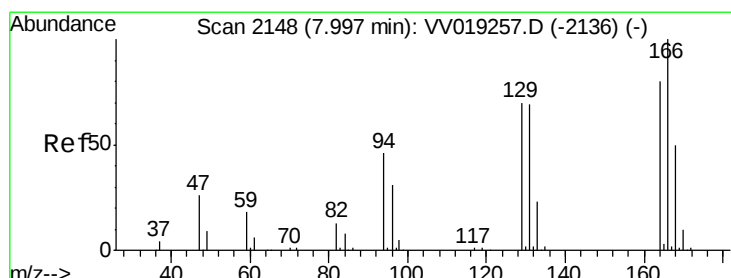
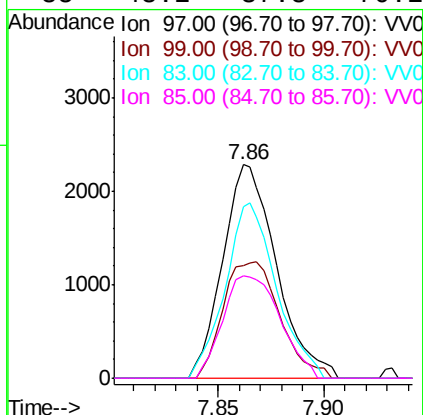
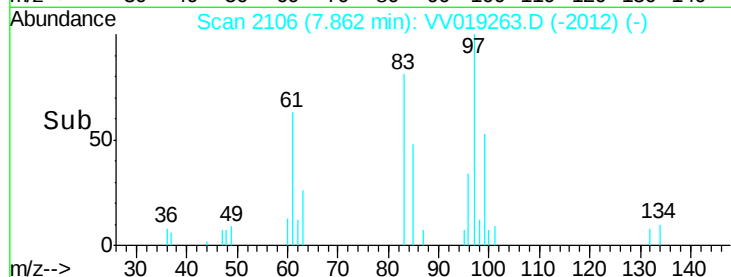
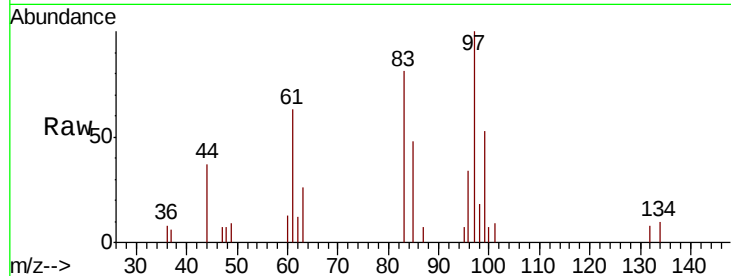
#45
1,1,2-Trichloroethane
Concen: 2.824 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion:	97	Resp:	4037
Ion	Ratio	Lower	Upper
97	100		
99	52.9	45.1	83.9
83	80.5	57.6	107.0
85	48.2	37.8	70.2

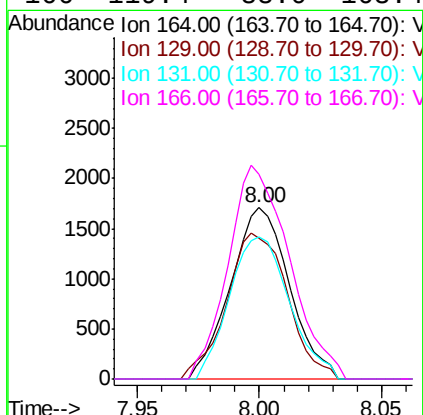
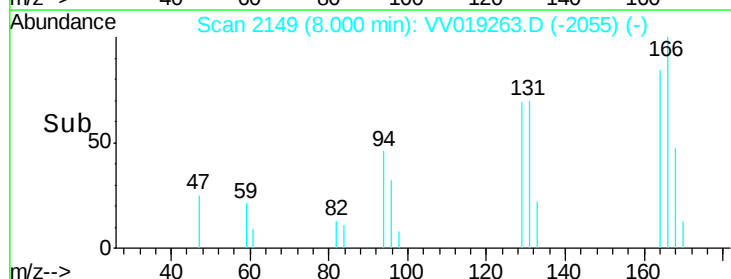
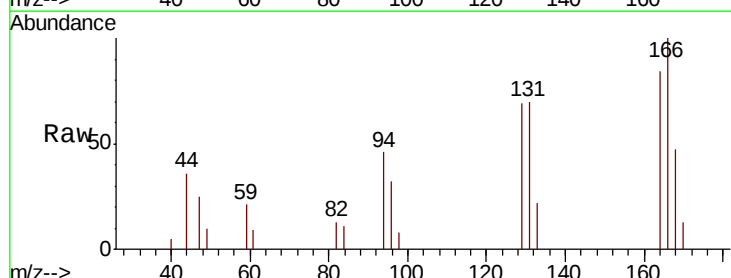
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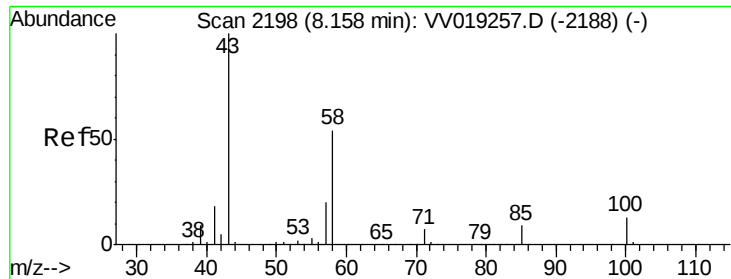
MMDadoda
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#46
Tetrachloroethene
Concen: 2.388 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion:	164	Resp:	2869
Ion	Ratio	Lower	Upper
164	100		
129	82.5	62.6	116.3
131	83.3	59.0	109.6
166	119.4	88.0	163.4





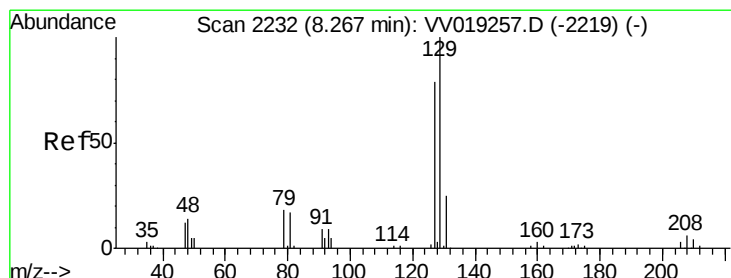
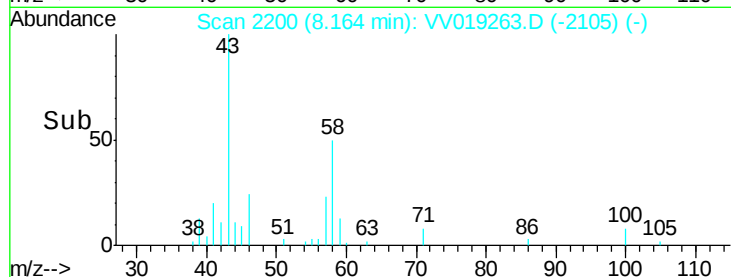
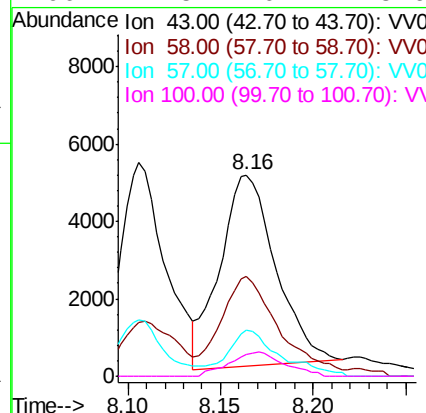
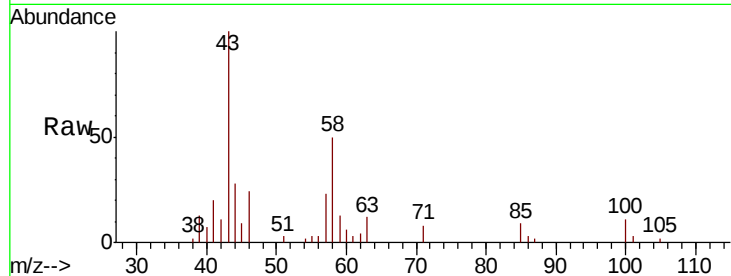
#48
2-Hexanone
Concen: 6.993 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.3	42.6	63.8
57	12.2	15.8	23.8
100	12.5	10.4	15.6

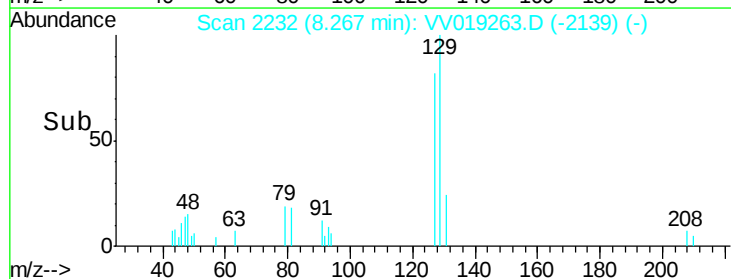
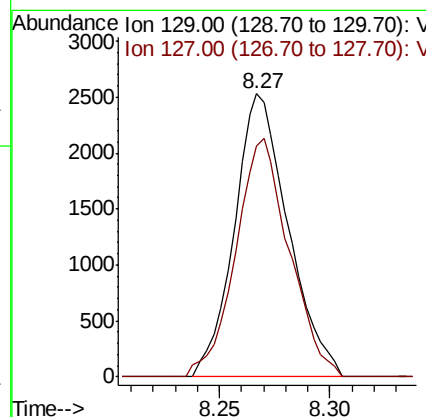
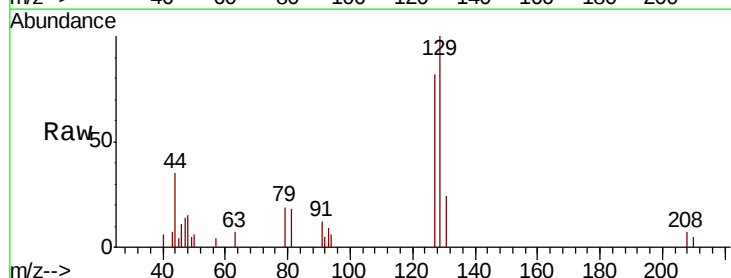
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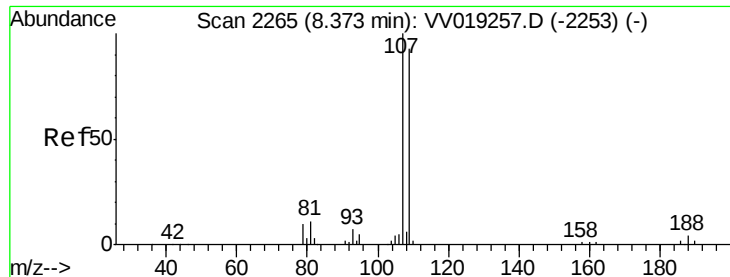
MMDadoda
11/6/2020 11:03:50 AM



#49
Dibromochloromethane
Concen: 2.521 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.6	54.4	101.0





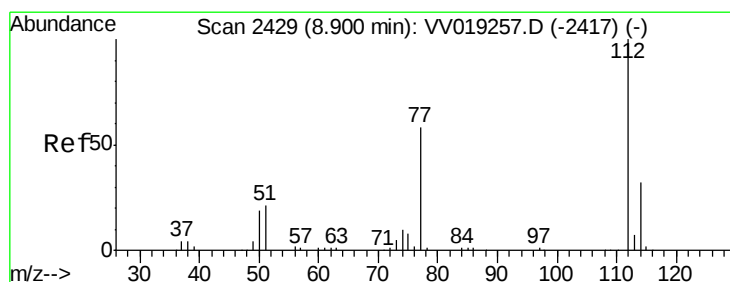
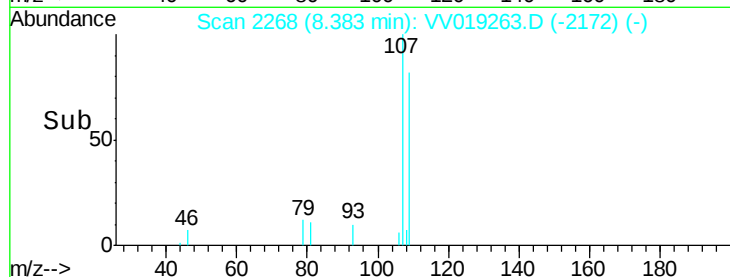
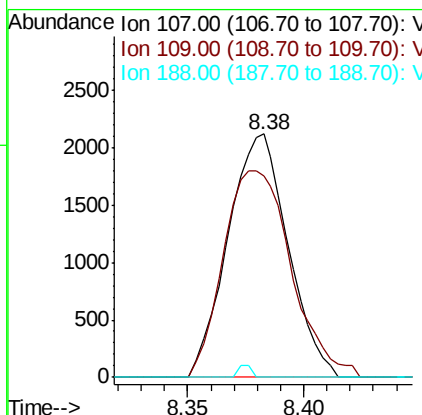
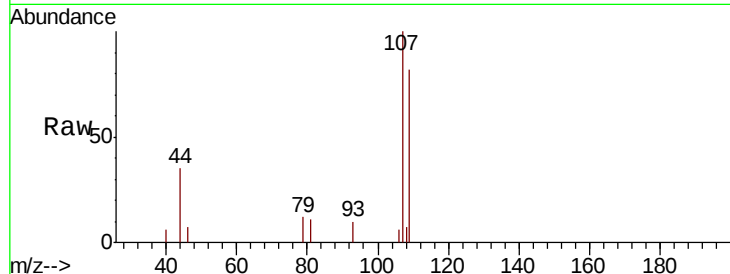
#50
1,2-Dibromoethane
Concen: 2.574 ug/L
RT: 8.38 min Scan# 2268
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
107	100		
109	82.5	64.8	120.4
188	0.0	3.8	5.8#

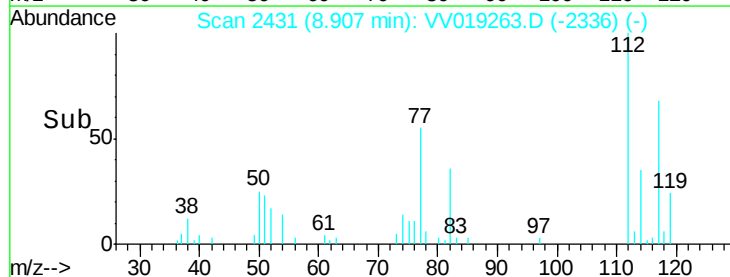
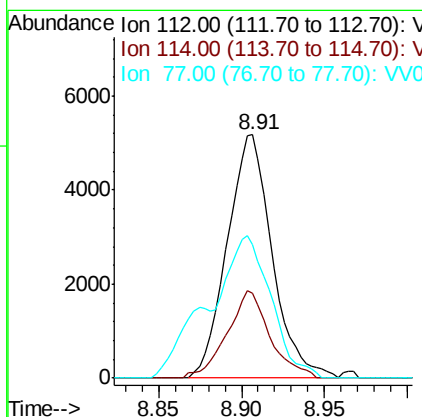
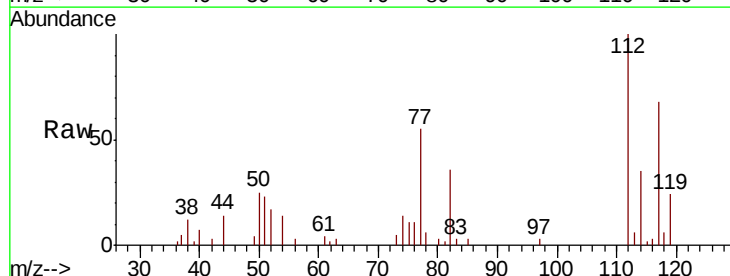
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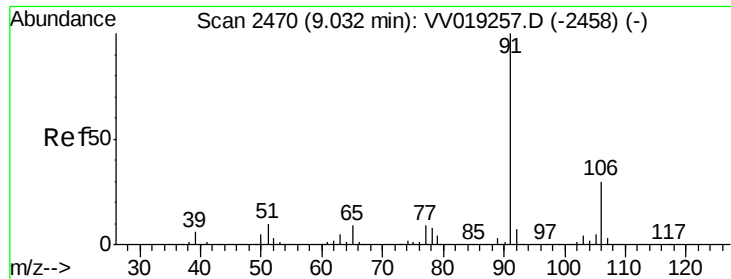
MMDadoda
11/6/2020 11:03:50 AM



#51
Chlorobenzene
Concen: 2.486 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.1	22.7	42.1
77	54.8	47.3	70.9





#52

Ethylbenzene

Concen: 2.317 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-07

Tot Ion: 91 Resp: 14972

Ion Ratio Lower Upper

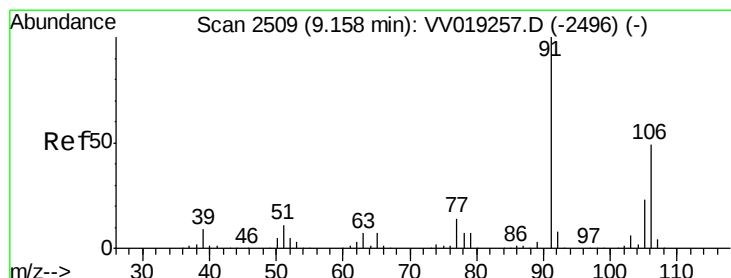
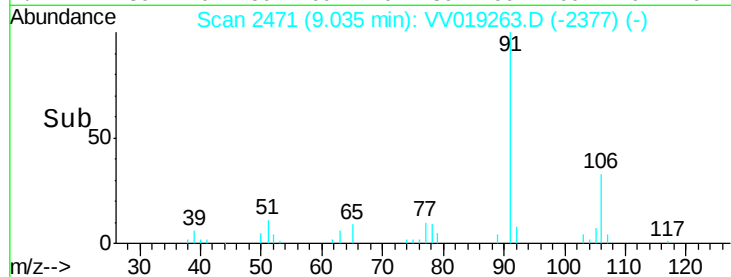
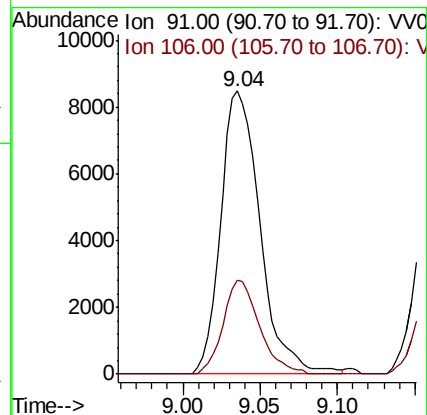
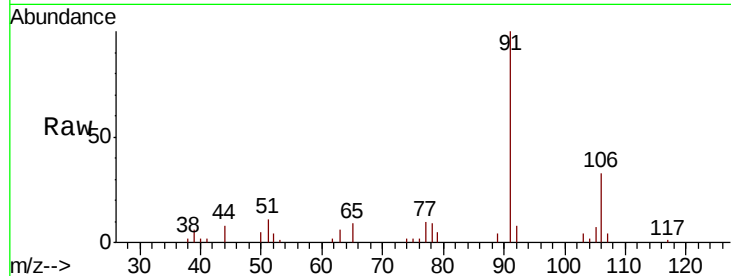
91 100

106 33.0 21.6 40.0

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11/6/2020 11:03:50 AM



#53

m,p-Xylene

Concen: 2.111 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019263.D

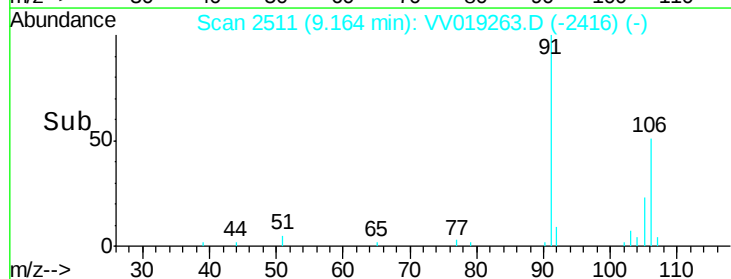
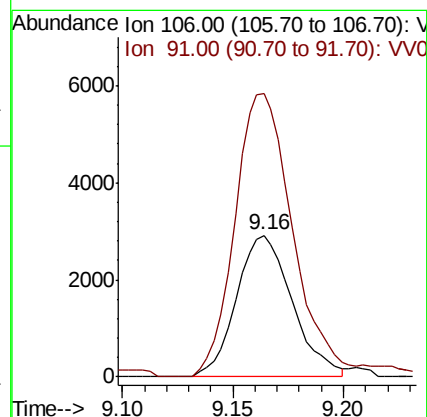
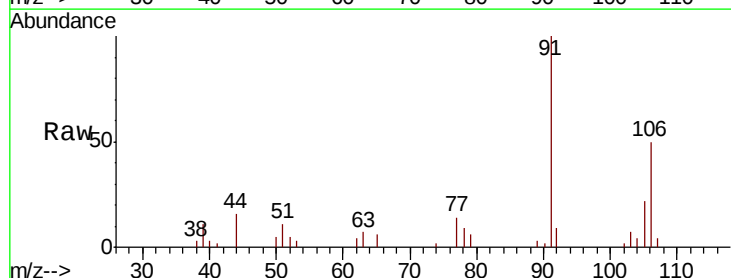
Acq: 04 Nov 2020 23:57

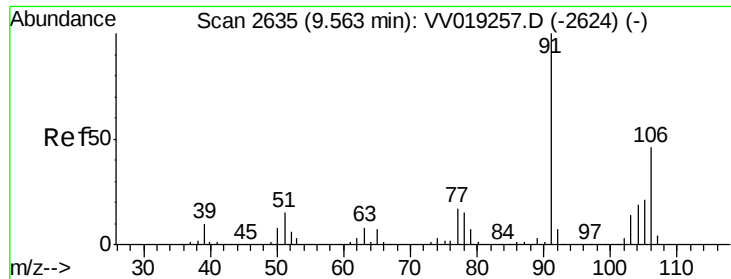
Tgt Ion: 106 Resp: 5108

Ion Ratio Lower Upper

106 100

91 200.2 147.2 273.4





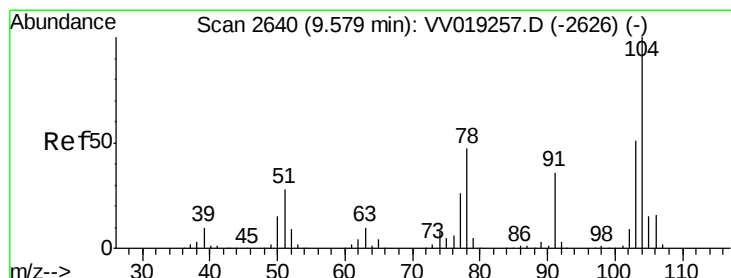
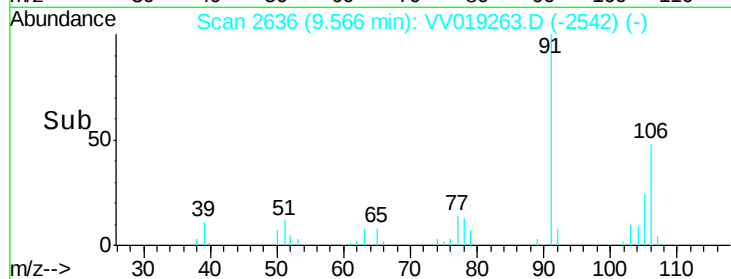
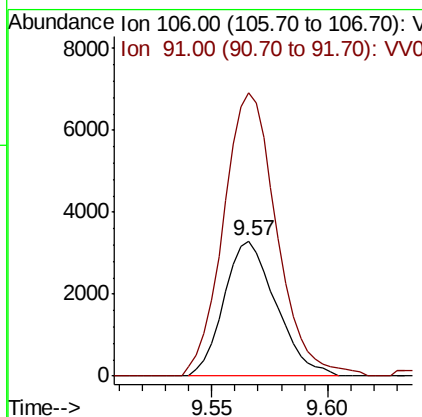
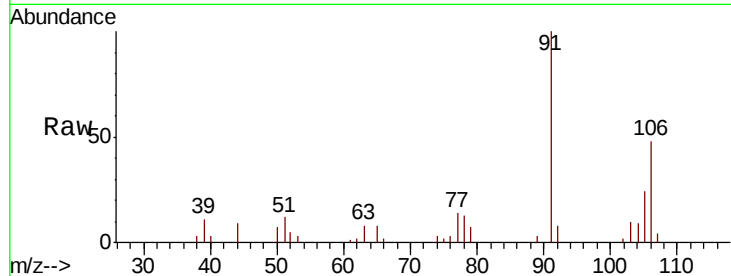
#54
o-Xylene
Concen: 2.160 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion:106 Resp: 5150
Ion Ratio Lower Upper
106 100
91 209.7 151.6 281.6

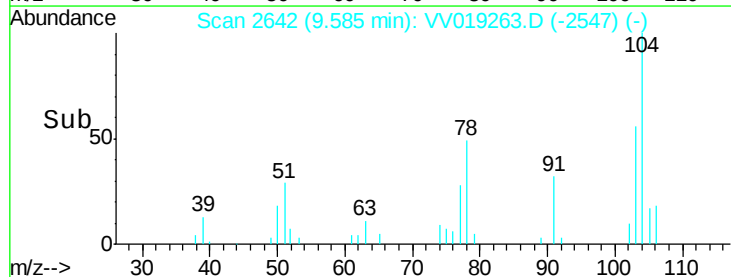
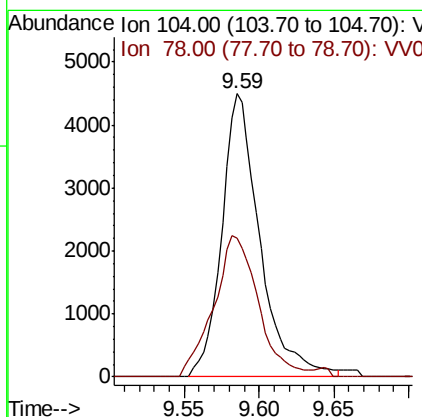
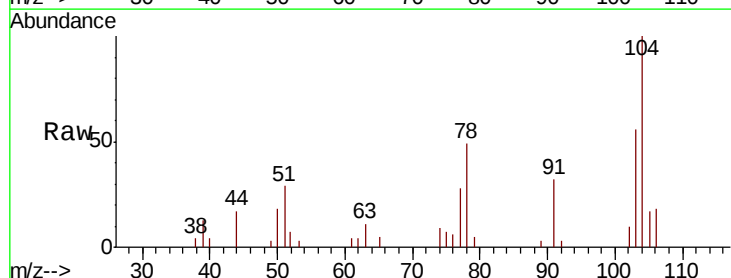
Manual Integrations
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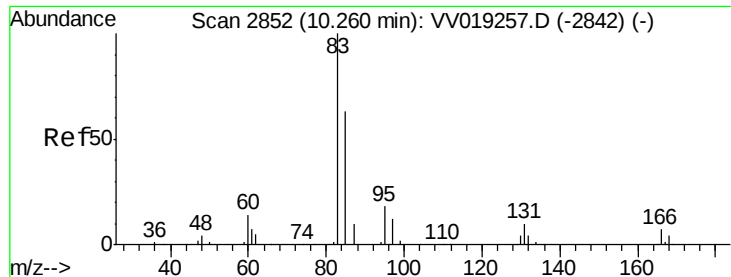
MMDadoda
11/6/2020 11:03:50 AM



#55
Styrene
Concen: 1.881 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion:104 Resp: 7983
Ion Ratio Lower Upper
104 100
78 48.9 32.6 60.5





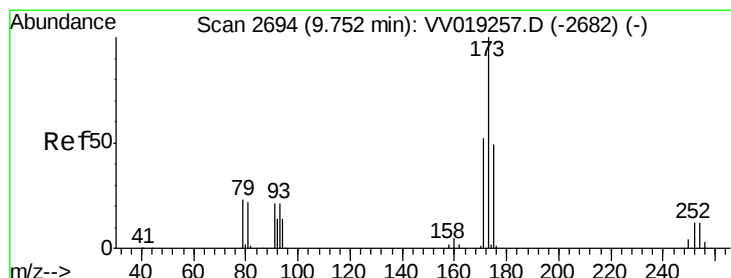
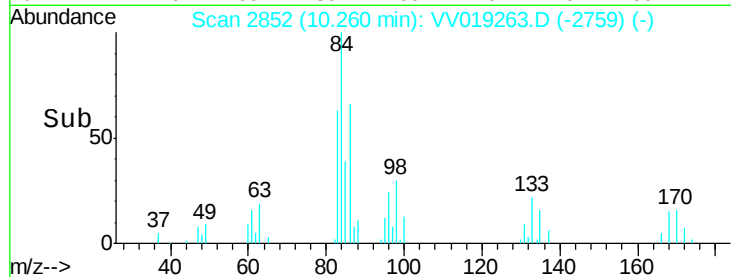
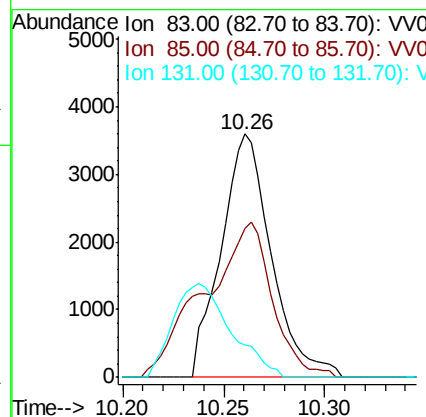
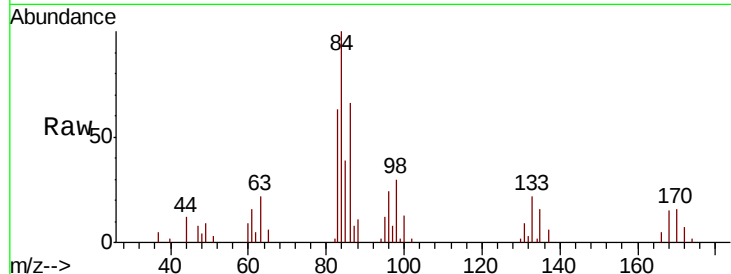
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.886 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. -0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
83	100		
85	60.9	45.0	83.6
131	13.5	8.9	13.3#

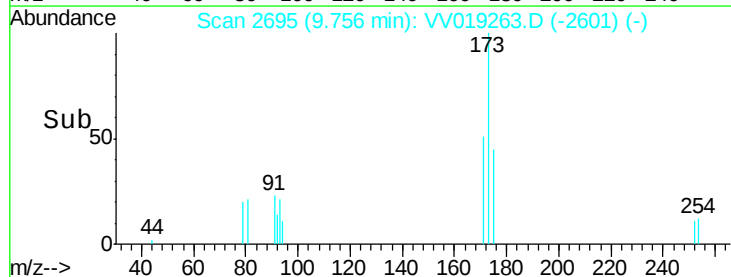
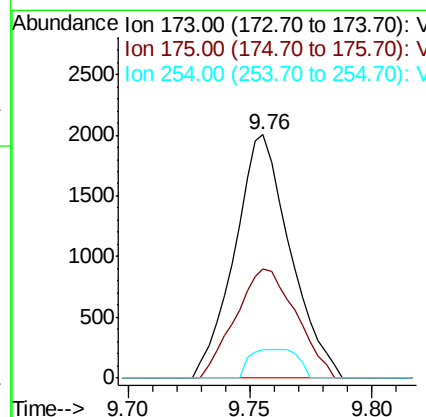
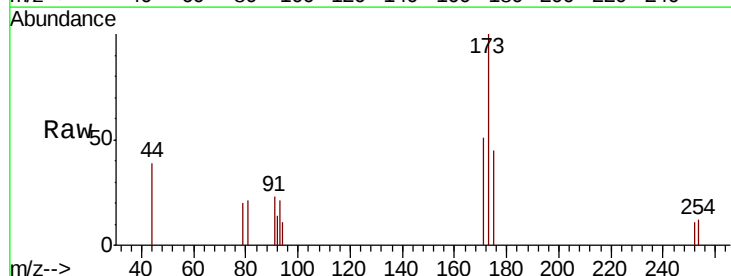
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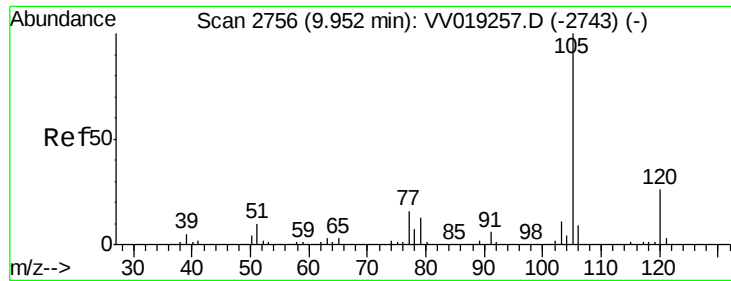
MMDadoda
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#59
 Bromoform
 Concen: 2.659 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.4	57.6
254	5.3	9.0	13.6#





#60

Isopropylbenzene

Concen: 2.286 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

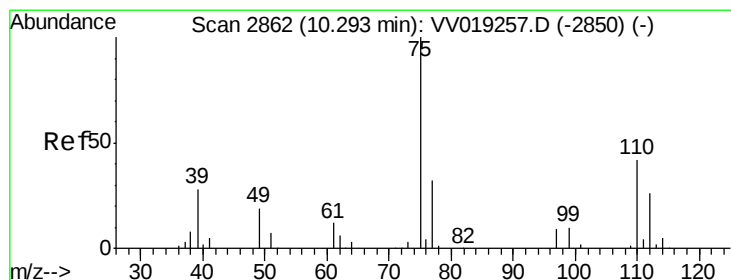
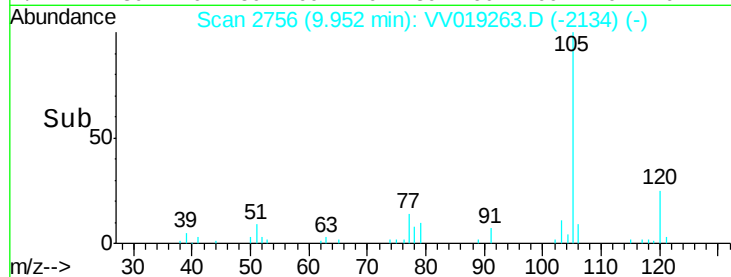
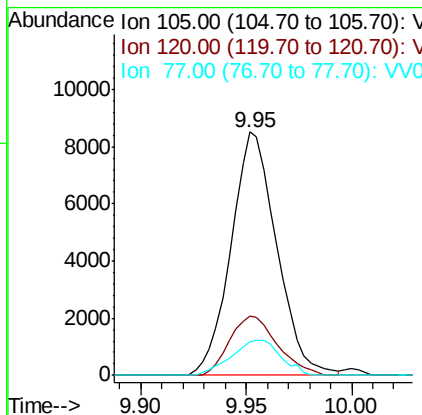
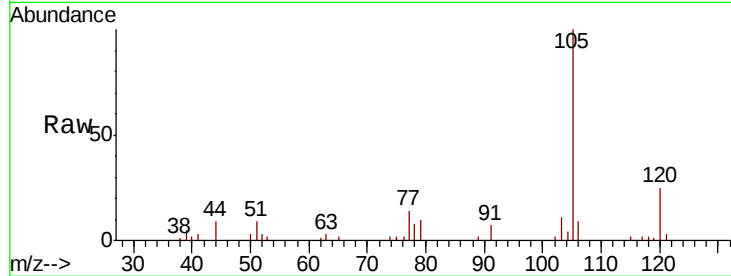
ClientSampleId :

MDL-ME-SOIL-07

Tot Ion:	105	Resp:	12822
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: 3.013 ug/L

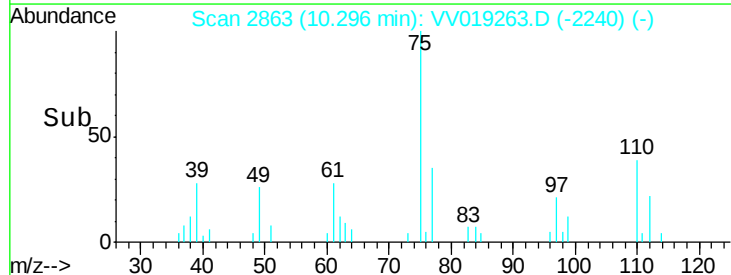
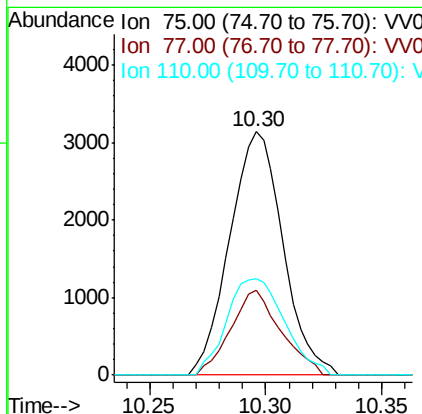
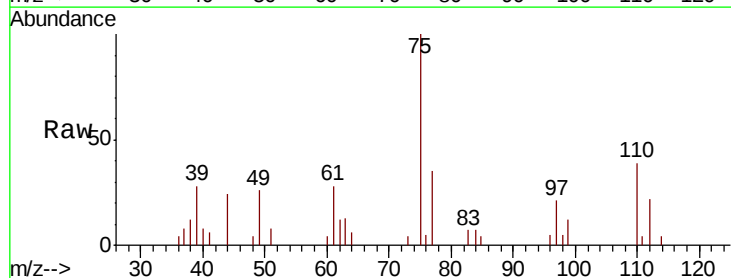
RT: 10.30 min Scan# 2863

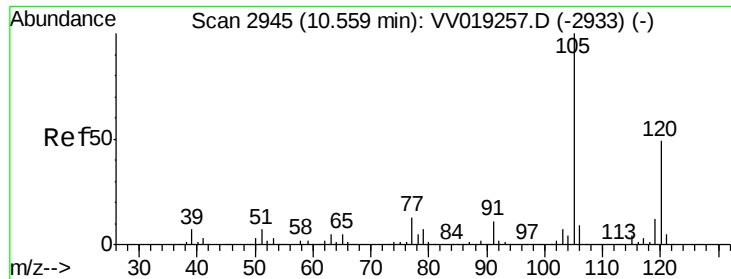
Delta R.T. 0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion:	75	Resp:	5011
Ion Ratio	Lower	Upper	
75	100		
77	32.9	24.8	37.2
110	42.9	33.4	50.2





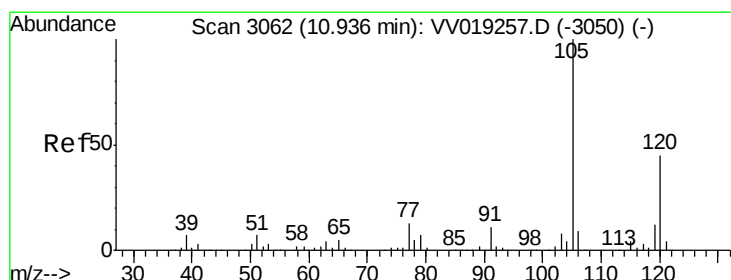
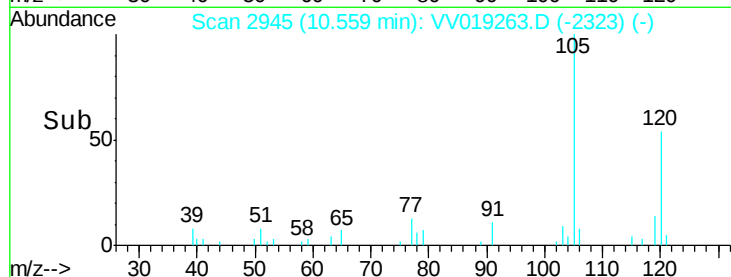
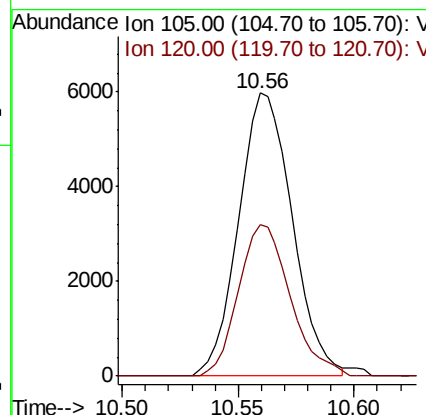
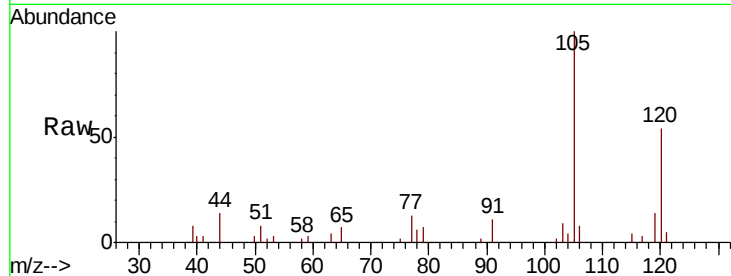
#62
 1,3,5-Trimethylbenzene
 Concen: 2.058 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion:105 Resp: 9615
 Ion Ratio Lower Upper
 105 100
 120 51.5 38.3 57.5

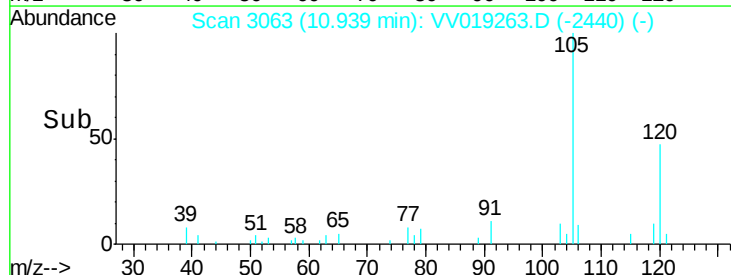
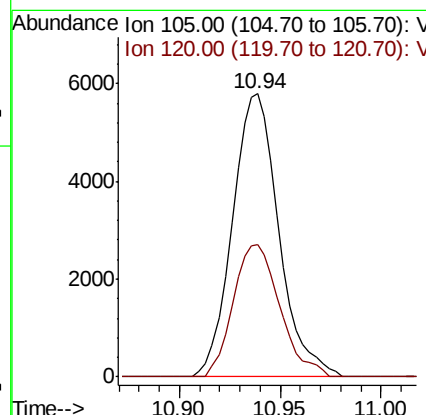
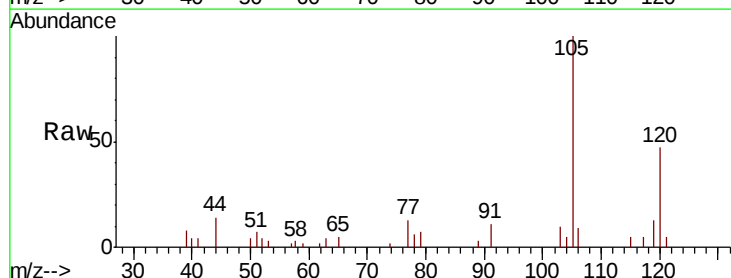
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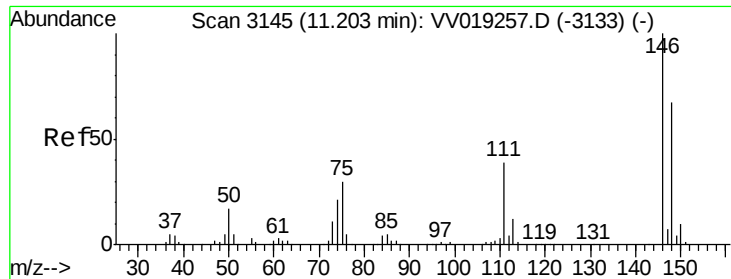
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.035 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion:105 Resp: 9303
 Ion Ratio Lower Upper
 105 100
 120 47.0 35.7 53.5





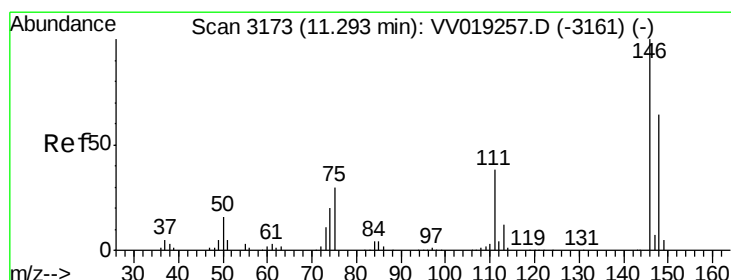
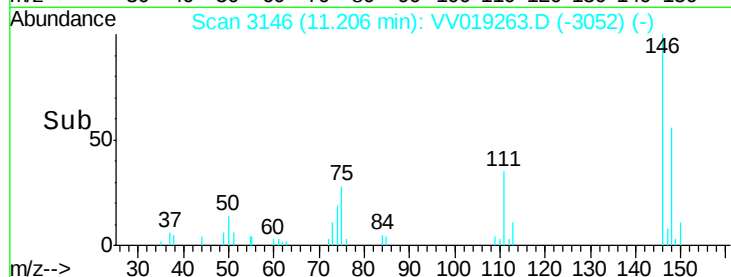
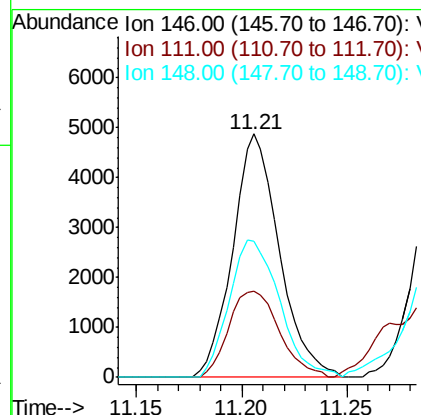
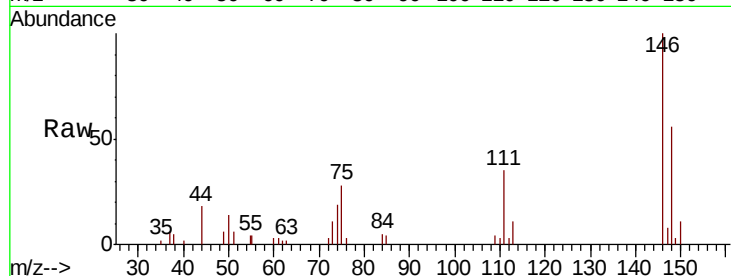
#64
 1,3-Dichlorobenzene
 Concen: 2.553 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.2	27.3	50.7
148	55.9	45.2	84.0

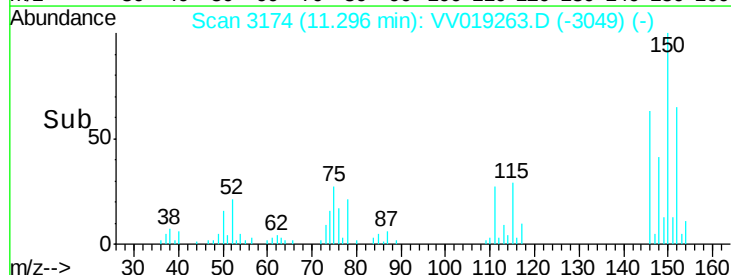
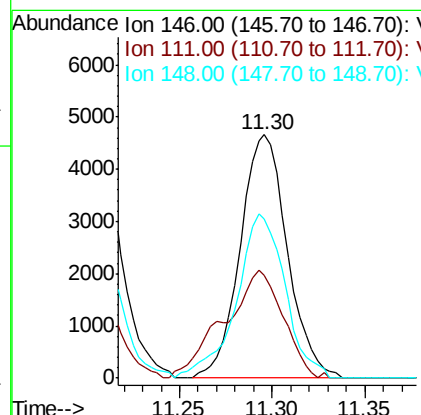
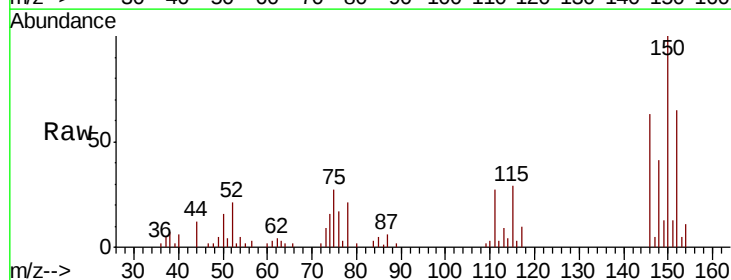
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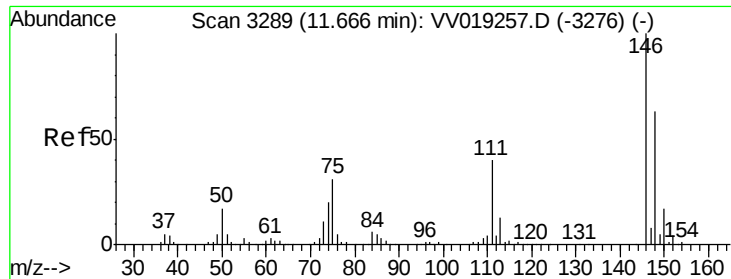
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#65
 1,4-Dichlorobenzene
 Concen: 2.716 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	25.9	48.1
148	65.5	44.9	83.5





#67

1,2-Dichlorobenzene

Concen: 2.820 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Instrument :

MSVOA_V

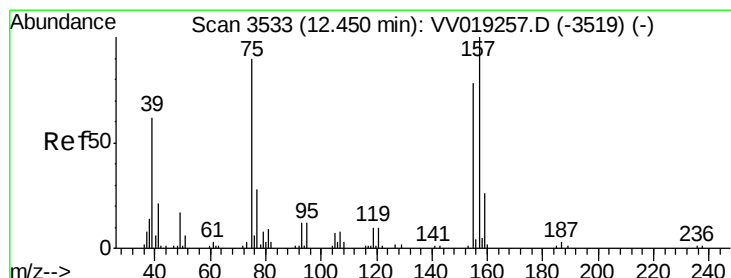
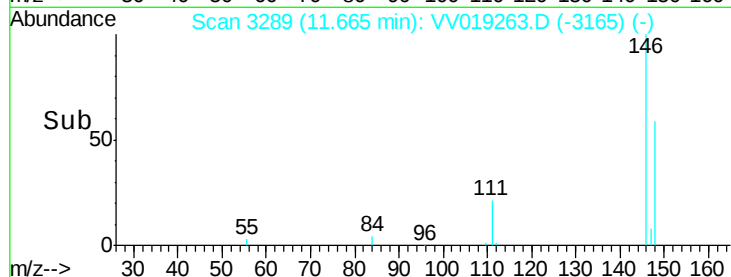
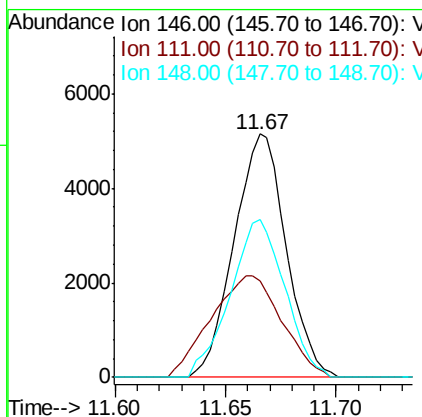
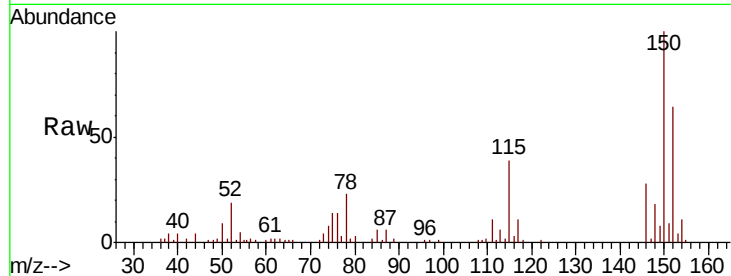
ClientSampleId :

MDL-ME-SOIL-07

Tot Ion:	146	Resp:	8466
Ion	Ratio	Lower	Upper
146	100		
111	39.4	32.6	48.8
148	64.7	50.1	75.1

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#68

1,2-Dibromo-3-chloropropane

Concen: 2.513 ug/L

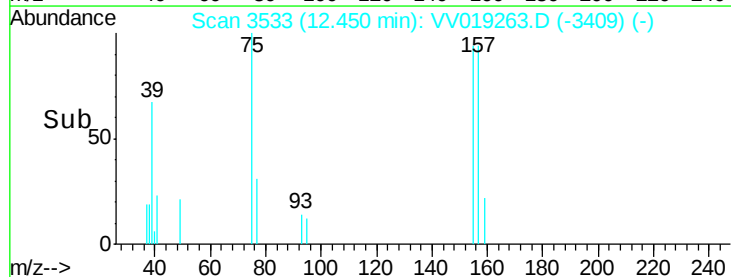
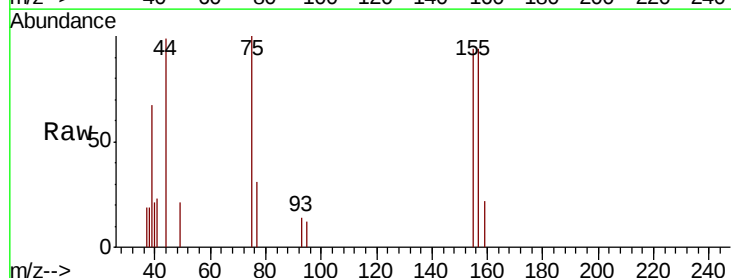
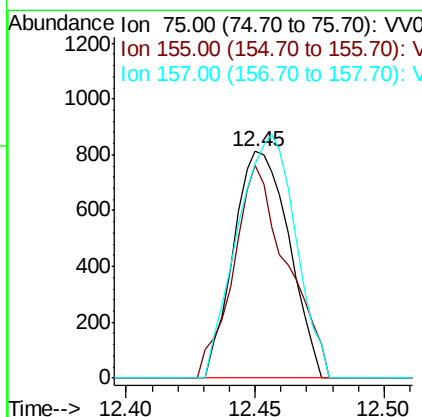
RT: 12.45 min Scan# 3533

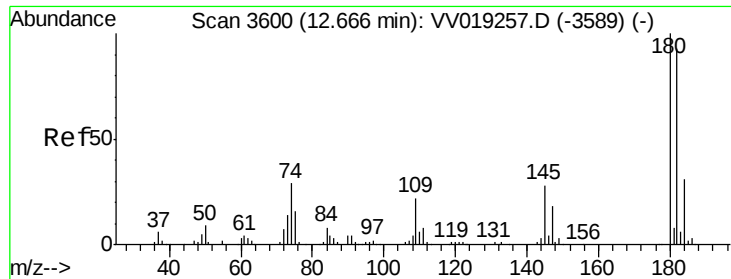
Delta R.T. -0.00 min

Lab File: VV019263.D

Acq: 04 Nov 2020 23:57

Tgt Ion:	75	Resp:	1219
Ion	Ratio	Lower	Upper
75	100		
155	94.0	65.8	98.6
157	94.3	86.3	129.5





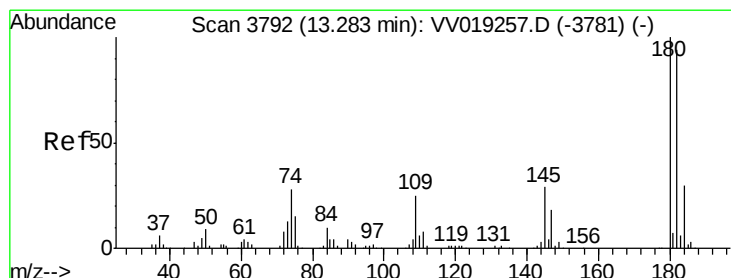
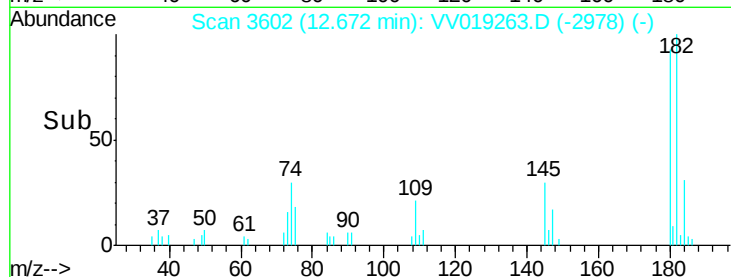
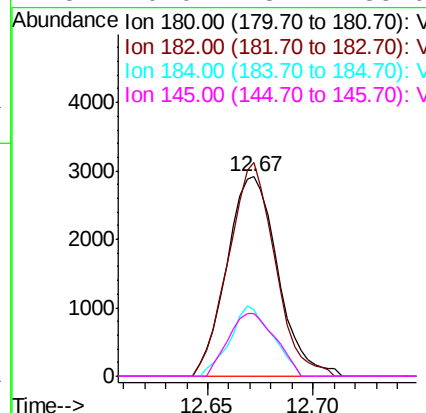
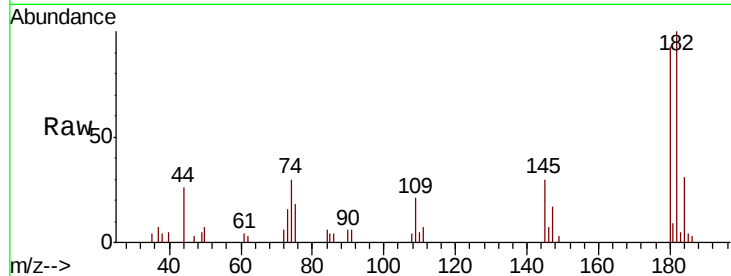
#69
 1,3,5-Trichlorobenzene
 Concen: 2.322 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion:	180	Resp:	4890
Ion	Ratio	Lower	Upper
180	100		
182	98.0	77.7	116.5
184	29.3	24.9	37.3
145	29.0	23.4	35.0

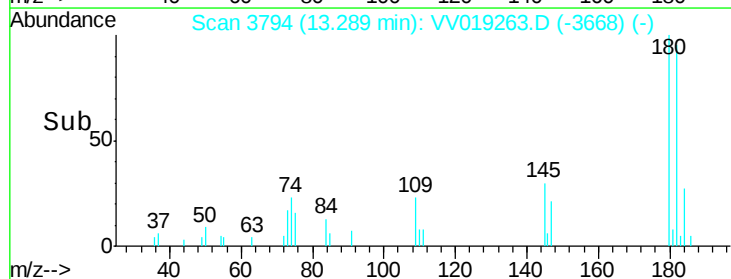
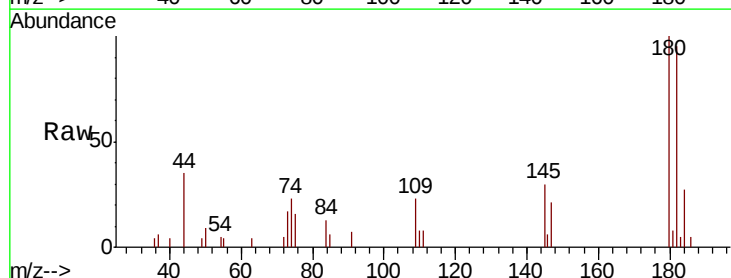
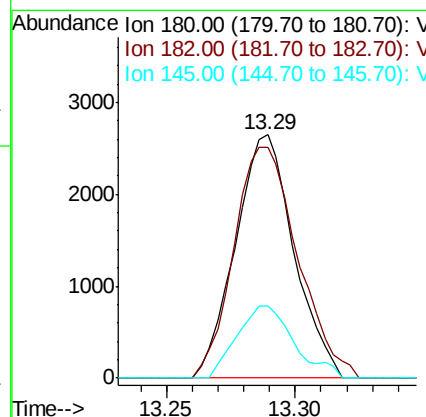
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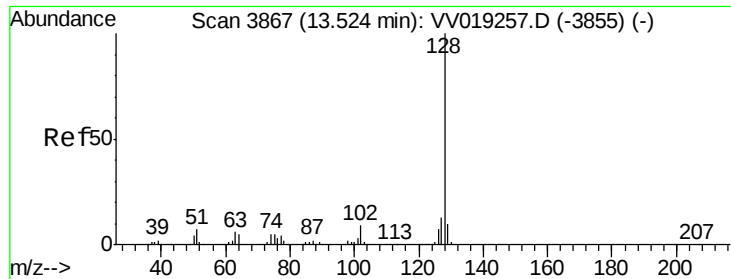
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#70
 1,2,4-trichlorobenzene
 Concen: 2.105 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019263.D
 Acq: 04 Nov 2020 23:57

Tgt Ion:	180	Resp:	4172
Ion	Ratio	Lower	Upper
180	100		
182	103.9	76.6	114.8
145	27.6	23.2	34.8





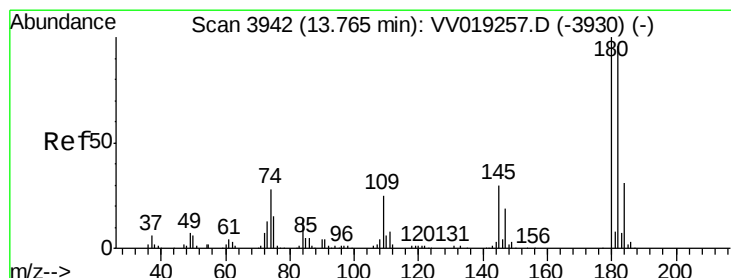
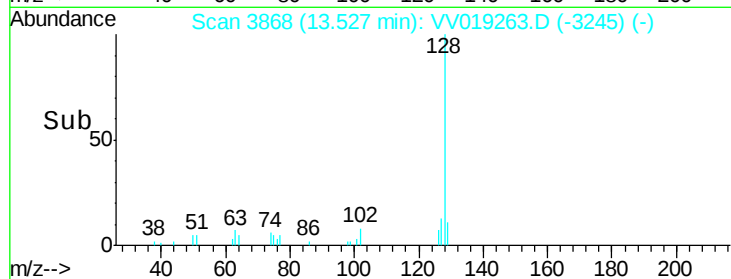
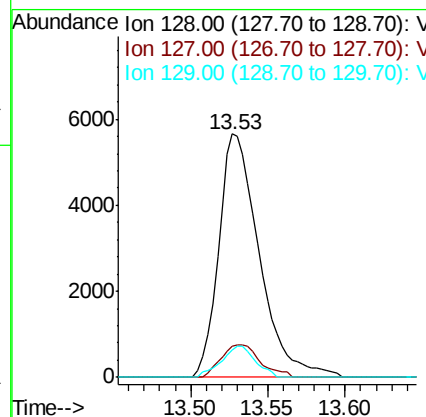
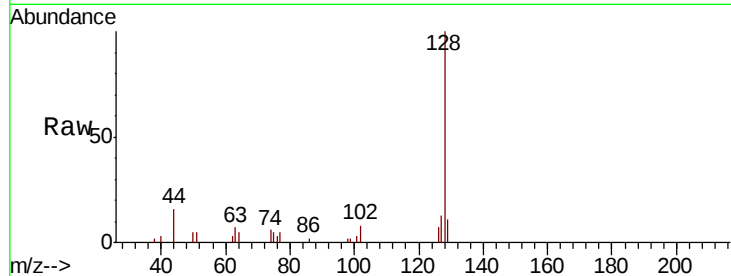
#71
Naphthalene
Concen: 1.844 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.7	16.1
129	10.7	8.6	13.0

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#72
1,2,3-Trichlorobenzene
Concen: 2.225 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019263.D
Acq: 04 Nov 2020 23:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.0
145	30.8	24.7	37.1

