

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110620\
 Data File : VV019262.D
 Acq On : 04 Nov 2020 23:33
 Operator : SY/MD
 Sample : L4485-20
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-06

Manual Integrations
 APPROVED

MMDadoda
 11/6/2020 11:03:46 AM

Quant Time: Nov 05 05:20:24 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	246607	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	238900	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	121185	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	78186	41.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.16%
7) Chloroethane-d5	1.58	69	68409	45.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.74%
11) 1,1-Dichloroethene-d2	2.12	63	128759	36.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.08%
21) 2-Butanone-d5	3.91	46	112396	107.10	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.10%
24) Chloroform-d	4.37	84	161815	45.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.86%
26) 1,2-Dichloroethane-d4	5.05	65	117853	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.98%
32) Benzene-d6	5.07	84	303669	46.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.06%
36) 1,2-Dichloropropane-d6	6.09	67	93371	47.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.82%
41) Toluene-d8	7.34	98	272954	44.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.84%
43) trans-1,3-Dichloropropene-	7.64	79	49018	43.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.92%
47) 2-Hexanone-d5	8.11	63	70371	92.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.03%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	117026	44.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.18%
66) 1,2-Dichlorobenzene-d4	11.65	152	117119	48.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.62%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3763	2.491 ug/L	99
3) Chloromethane	1.25	50	3796	2.413 ug/L	94
5) Vinyl chloride	1.32	62	4375	2.672 ug/L #	74
6) Bromomethane	1.53	94	2880	2.617 ug/L	94
8) Chloroethane	1.60	64	2841	2.653 ug/L	92
9) Trichlorofluoromethane	1.77	101	7124	2.628 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4383	3.403 ug/L #	83
12) 1,1-Dichloroethene	2.13	96	4189	3.147 ug/L #	1
13) Acetone	2.19	43	3758	4.709 ug/L	88
14) Carbon disulfide	2.31	76	9183	2.402 ug/L	98
15) Methyl Acetate	2.45	43	3560	2.302 ug/L	91
16) Methylene chloride	2.53	84	4071	2.572 ug/L	97
17) trans-1,2-Dichloroethene	2.78	96	3488	2.415 ug/L	97
18) Methyl tert-butyl Ether	2.78	73	11602	2.285 ug/L	98
19) 1,1-Dichloroethane	3.21	63	6965	2.461 ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	3975	2.491 ug/L	96
22) 2-Butanone	4.04	43	3790m	3.741 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	2007m	2.284	ug/L	
25) Chloroform	4.40	83	8807	2.903	ug/L	88
27) 1,2-Dichloroethane	5.17	62	6138m	2.380	ug/L	
29) Cyclohexane	4.70	56	5064	2.477	ug/L	93
30) 1,1,1-Trichloroethane	4.64	97	6599	2.382	ug/L	97
31) Carbon tetrachloride	4.86	117	5636	2.356	ug/L	100
33) Benzene	5.13	78	14040	2.365	ug/L	100
34) Trichloroethene	5.94	95	3887	2.409	ug/L	99
35) Methylcyclohexane	6.15	83	4993	2.557	ug/L	95
37) 1,2-Dichloropropane	6.21	63	4022	2.538	ug/L #	91
38) Bromodichloromethane	6.54	83	5103	2.238	ug/L #	94
39) cis-1,3-Dichloropropene	7.05	75	5562	2.194	ug/L	92
40) 4-Methyl-2-pentanone	7.25	43	8768	4.119	ug/L	98
42) Toluene	7.41	91	16705	2.603	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	5577	2.147	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	3750	2.394	ug/L	95
46) Tetrachloroethene	8.00	164	3077	2.337	ug/L	87
48) 2-Hexanone	8.16	43	9383	5.831	ug/L	96
49) Dibromochloromethane	8.27	129	4151	2.222	ug/L	93
50) 1,2-Dibromoethane	8.38	107	3610	2.224	ug/L #	97
51) Chlorobenzene	8.90	112	10460	2.437	ug/L	96
52) Ethylbenzene	9.04	91	15782	2.229	ug/L	97
53) m,p-Xylene	9.16	106	5815	2.194	ug/L	90
54) o-Xylene	9.56	106	5504	2.107	ug/L	95
55) Styrene	9.59	104	9093	1.955	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.26	83	5533	2.335	ug/L #	99
59) Bromoform	9.76	173	2709	2.014	ug/L	98
60) Isopropylbenzene	9.95	105	14123	2.224	ug/L	96
61) 1,2,3-Trichloropropane	10.30	75	4699	2.496	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	10644	2.012	ug/L	96
63) 1,2,4-Trimethylbenzene	10.94	105	10218	1.974	ug/L	97
64) 1,3-Dichlorobenzene	11.21	146	7610	2.291	ug/L	98
65) 1,4-Dichlorobenzene	11.30	146	8588	2.499	ug/L	96
67) 1,2-Dichlorobenzene	11.66	146	8744	2.573	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.46	75	1158	2.108	ug/L	88
69) 1,3,5-Trichlorobenzene	12.67	180	5513	2.312	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4263	1.900	ug/L	96
71) Naphthalene	13.53	128	9332	1.475	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4517	2.031	ug/L	94

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

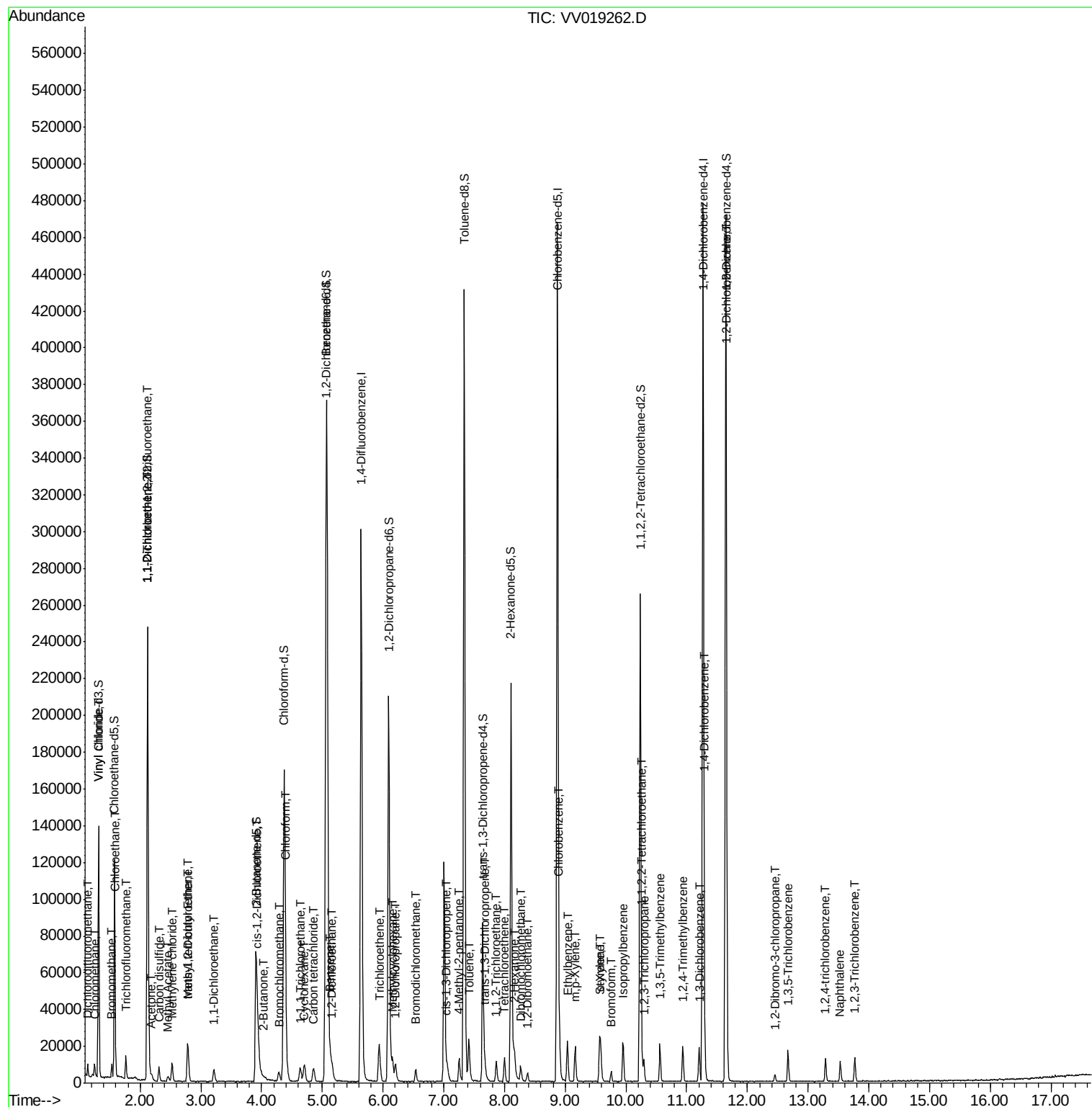
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV110620\
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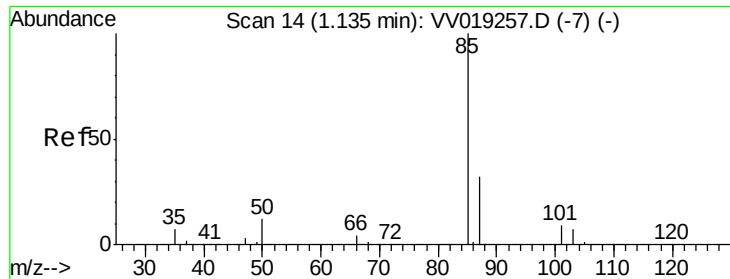
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.491 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 85 Resp: 3763

Ion Ratio Lower Upper

85 100

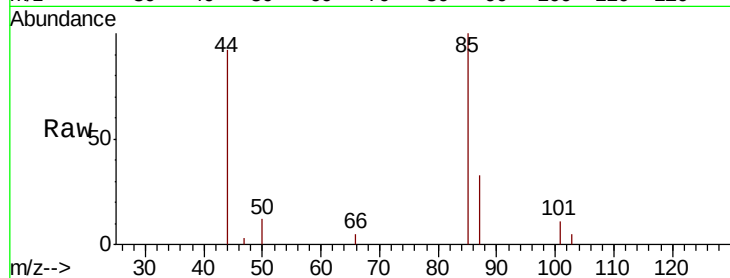
87 33.0 25.9 38.9

Manual Integrations

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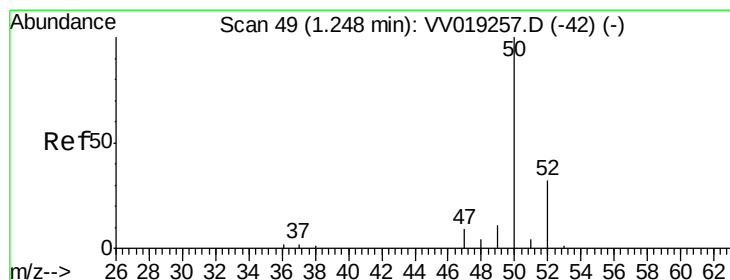
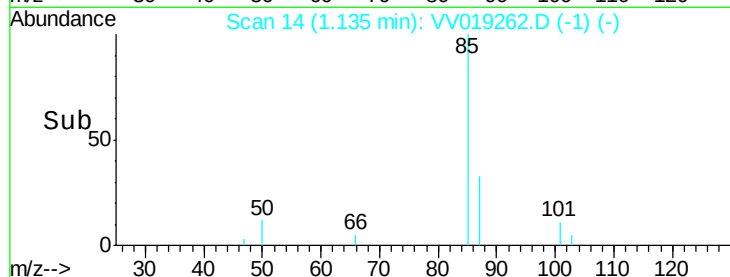
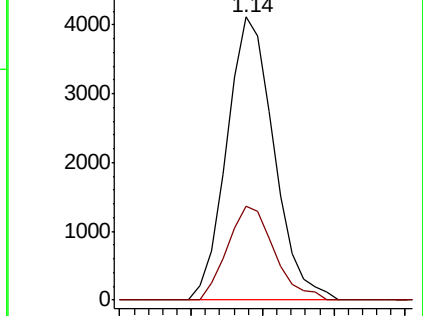
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Abundance Ion 85.00 (84.70 to 85.70): VV019257.D (-7) (-)

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



#3

Chloromethane

Concen: 2.413 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019262.D

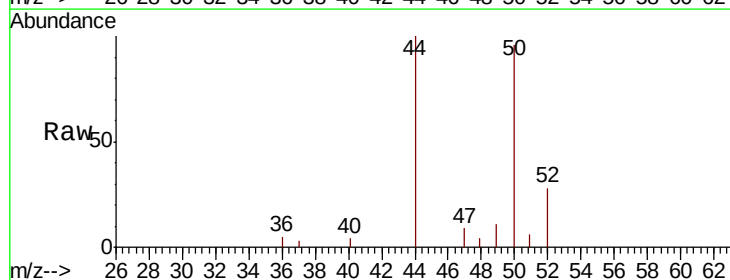
Acq: 04 Nov 2020 23:33

Tgt Ion: 50 Resp: 3796

Ion Ratio Lower Upper

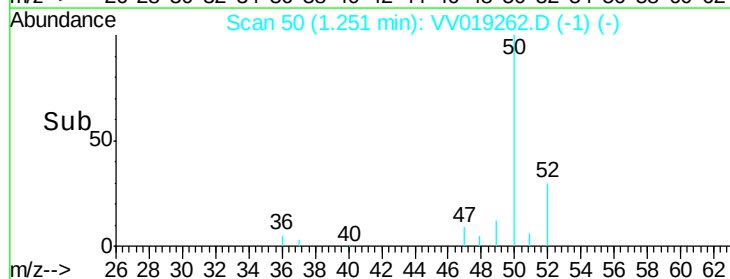
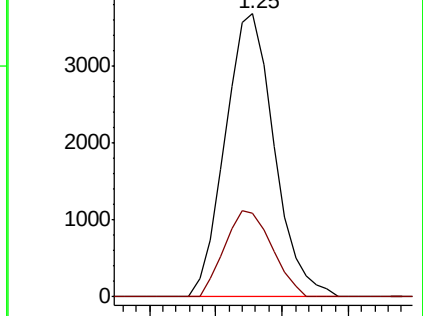
50 100

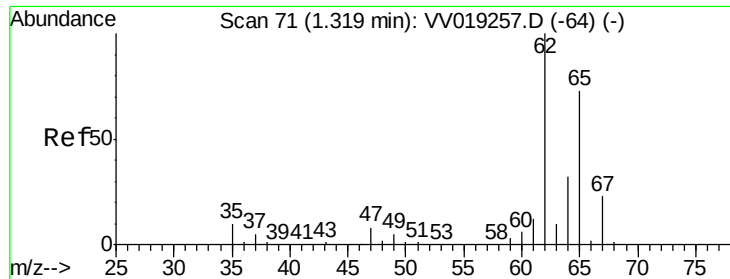
52 29.7 23.0 42.6



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: 2.672 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 62 Resp: 4375

Ion Ratio Lower Upper

62 100

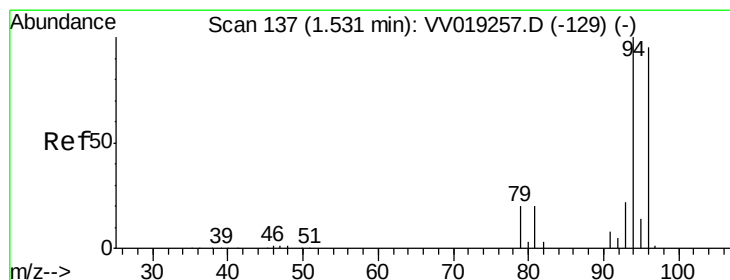
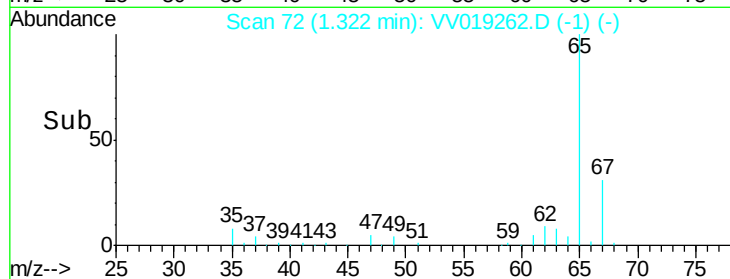
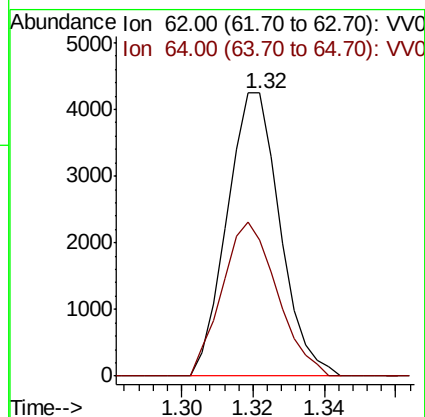
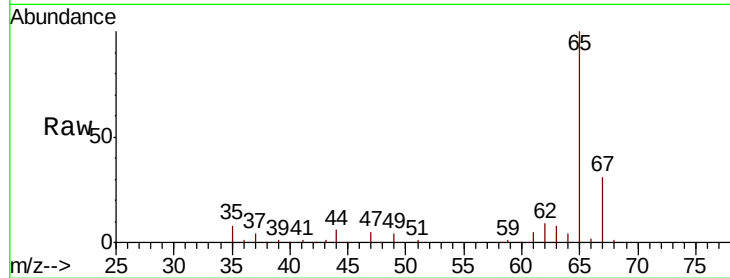
64 48.1 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.617 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019262.D

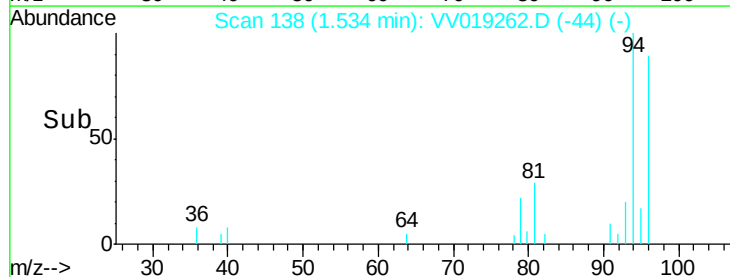
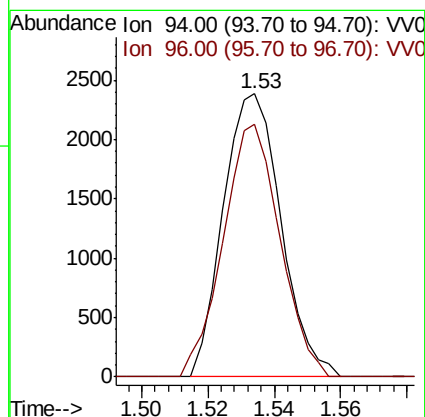
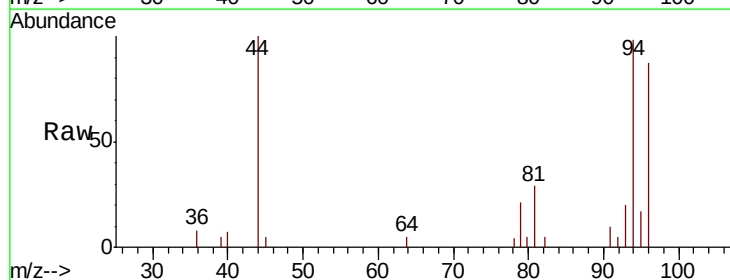
Acq: 04 Nov 2020 23:33

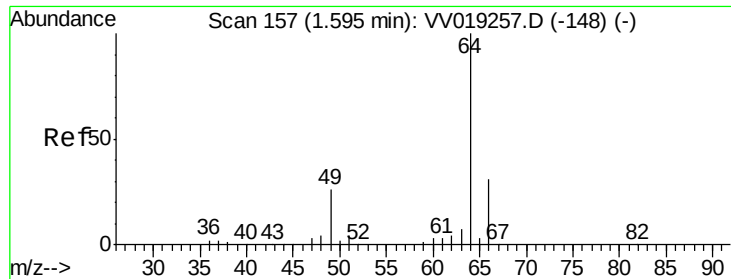
Tgt Ion: 94 Resp: 2880

Ion Ratio Lower Upper

94 100

96 89.3 66.4 123.2





#8

Chloroethane

Concen: 2.653 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 64 Resp: 2841

Ion Ratio Lower Upper

64 100

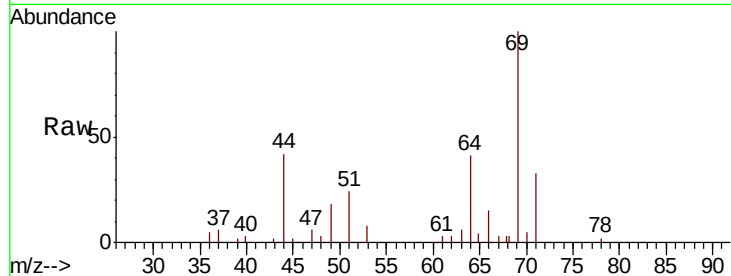
66 36.5 22.5 41.9

Manual Integrations

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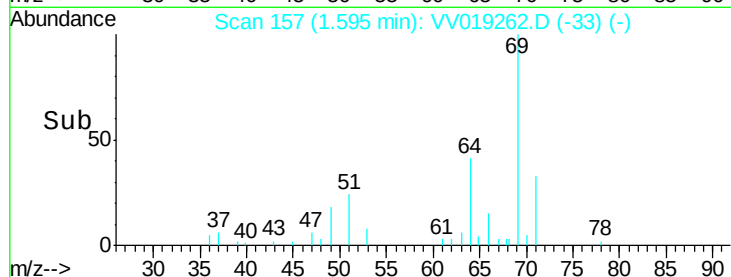
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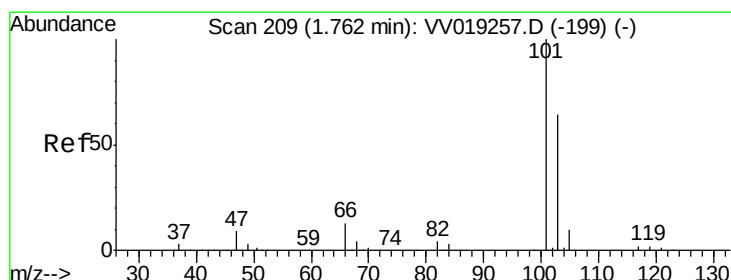
Abundance Ion 64.00 (63.70 to 64.70): VV019262.D (-33) (-)

Ion 66.00 (65.70 to 66.70): VV019262.D (-33) (-)

Time-->



Time-->



#9

Trichlorofluoromethane

Concen: 2.628 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019262.D

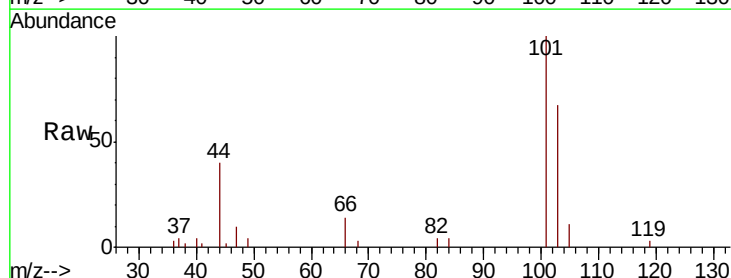
Acq: 04 Nov 2020 23:33

Tgt Ion: 101 Resp: 7124

Ion Ratio Lower Upper

101 100

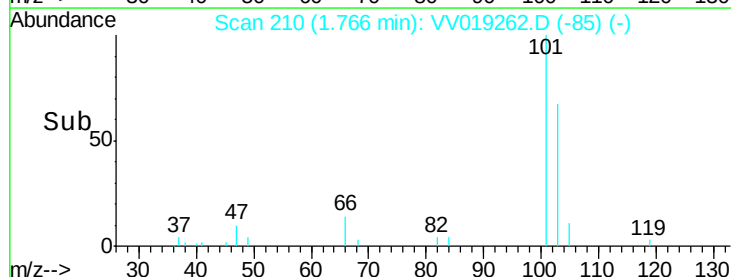
103 64.8 52.3 78.5



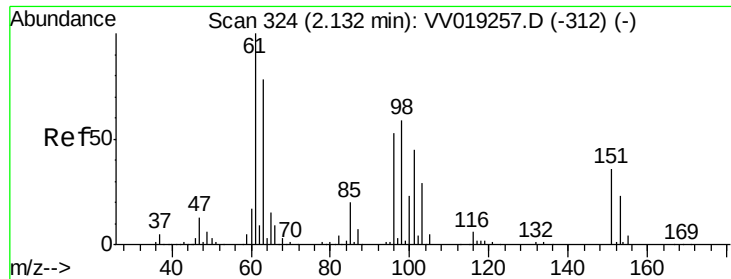
Abundance Ion 101.00 (100.70 to 101.70): VV019262.D (-85) (-)

Ion 103.00 (102.70 to 103.70): VV019262.D (-85) (-)

Time-->



Time-->



#10

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

Concen: 3.403 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

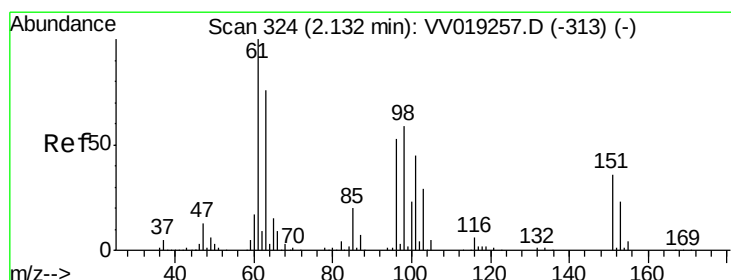
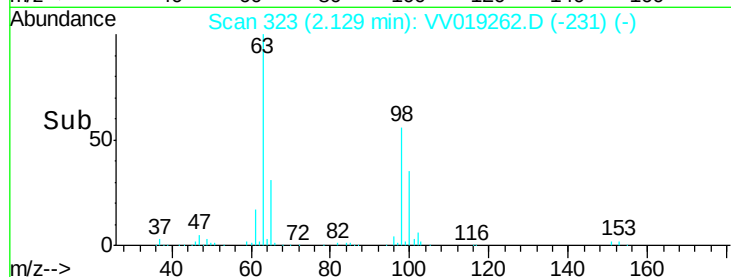
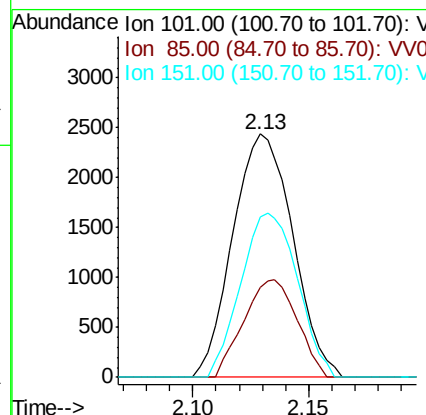
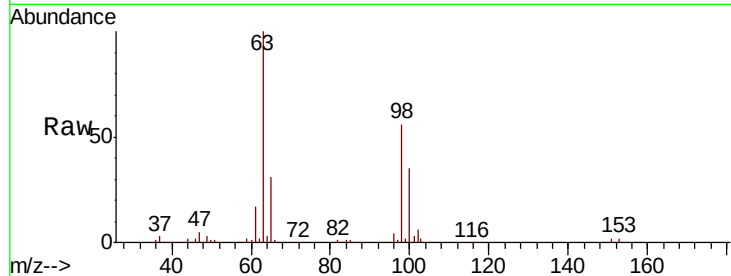
ClientSampleId :

MDL-ME-SOIL-06

Tot Ion:	101	Resp:	4383
Ion Ratio	Lower	Upper	
101	100		
85	35.5	35.6	53.4#
151	63.9	64.1	96.1#

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#12

1,1-Dichloroethene

Concen: 3.147 ug/L

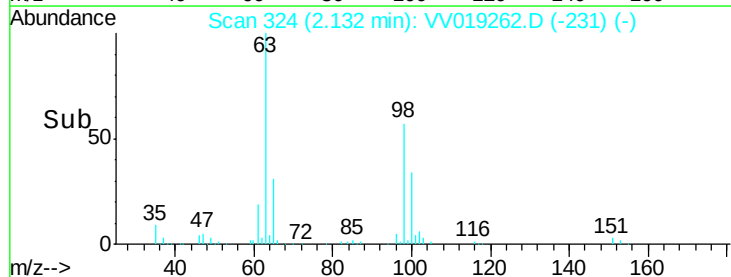
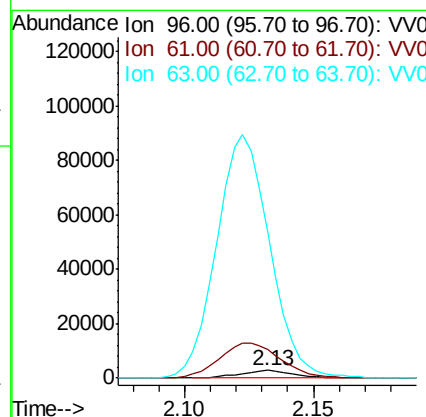
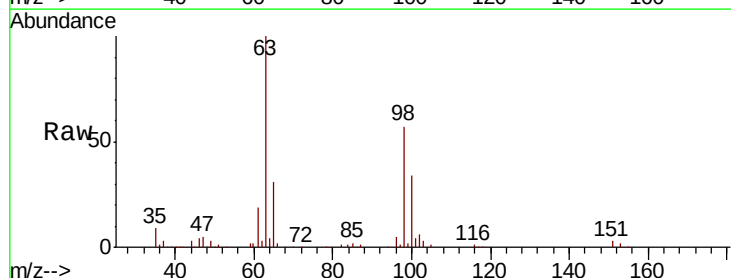
RT: 2.13 min Scan# 324

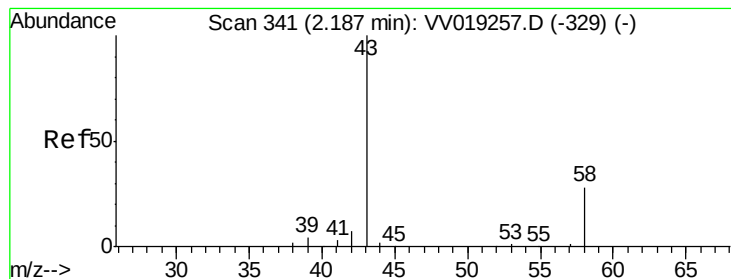
Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion:	96	Resp:	4189
Ion Ratio	Lower	Upper	
96	100		
61	376.6	133.6	248.0#
63	1933.9	103.0	191.2#





#13

Acetone

Concen: 4.709 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tot Ion: 43 Resp: 3758

Ion Ratio Lower Upper

43 100

58 35.2 0.0 57.8

Instrument :

MSVOA_V

ClientSampleId :

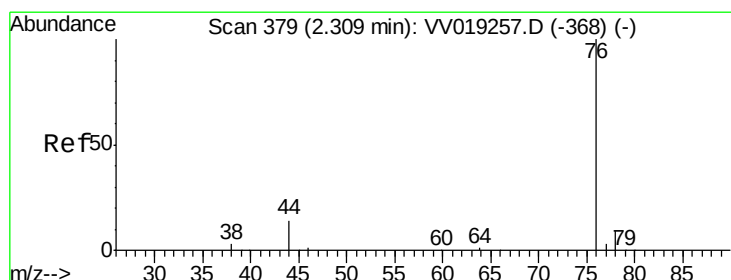
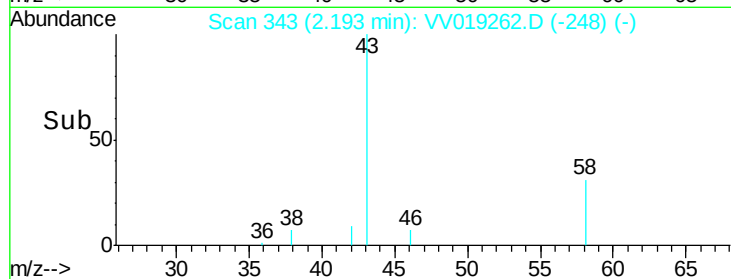
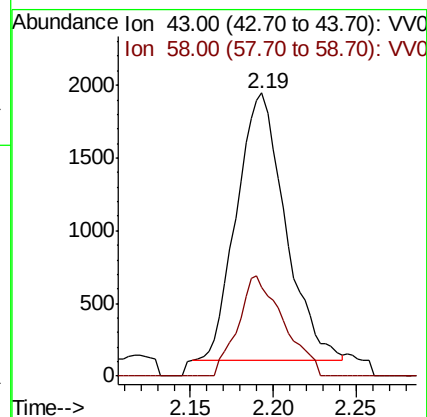
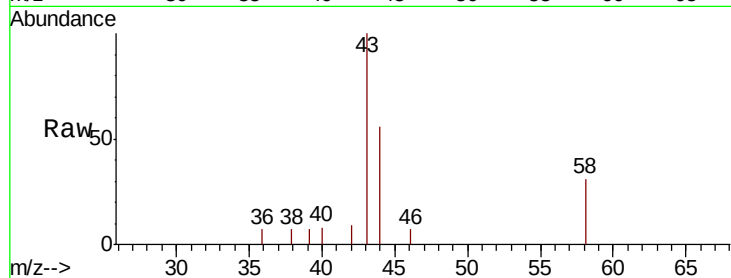
MDL-ME-SOIL-06

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#14

Carbon disulfide

Concen: 2.402 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019262.D

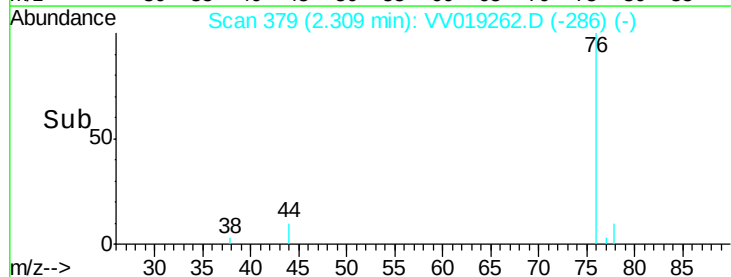
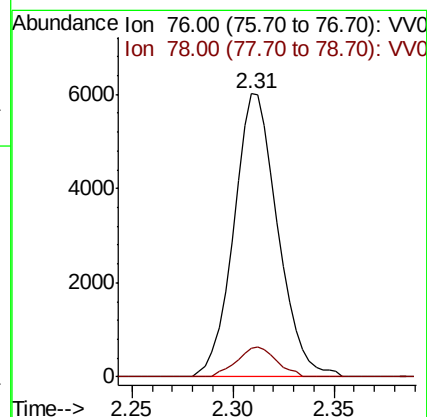
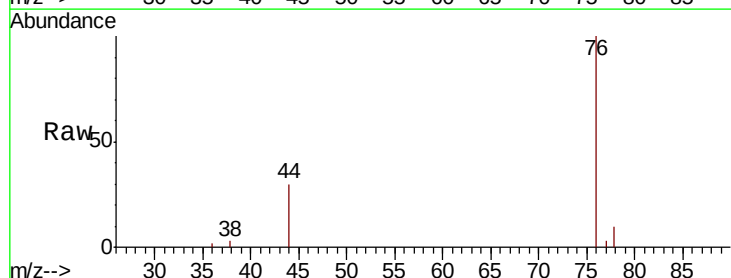
Acq: 04 Nov 2020 23:33

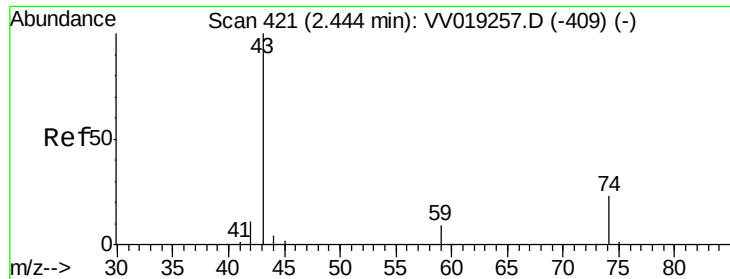
Tgt Ion: 76 Resp: 9183

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.0





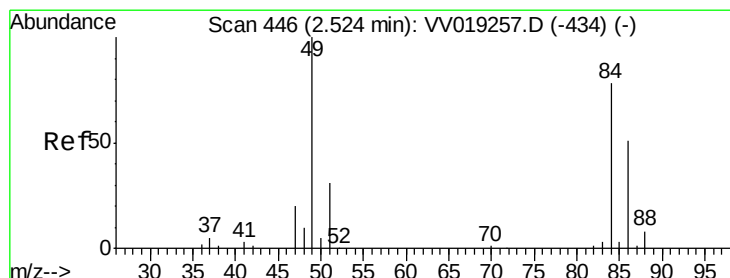
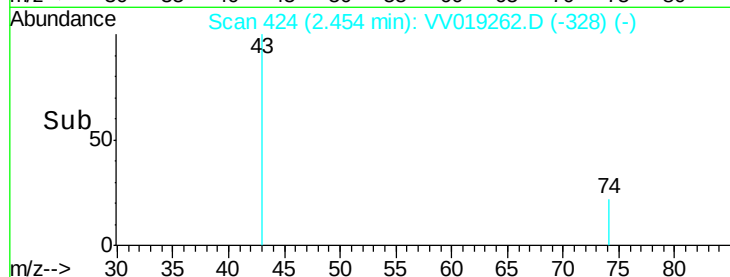
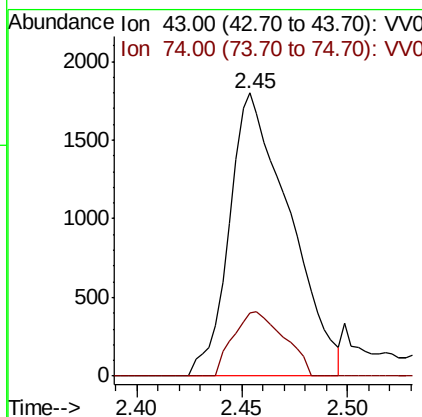
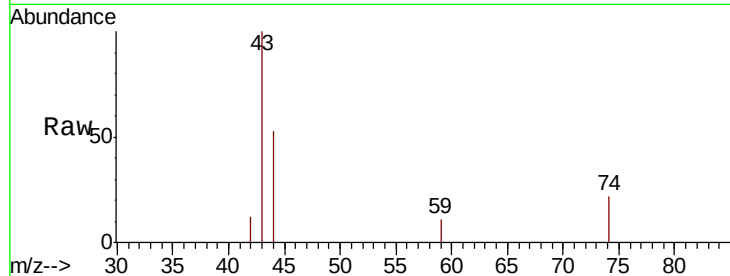
#15
Methvl Acetate
Concen: 2.302 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion: 43 Resp: 3560
Ion Ratio Lower Upper
43 100
74 19.3 18.8 28.2

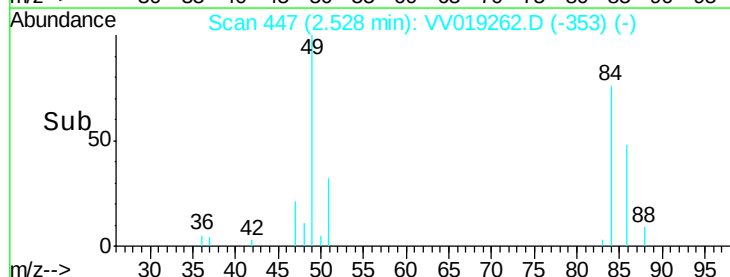
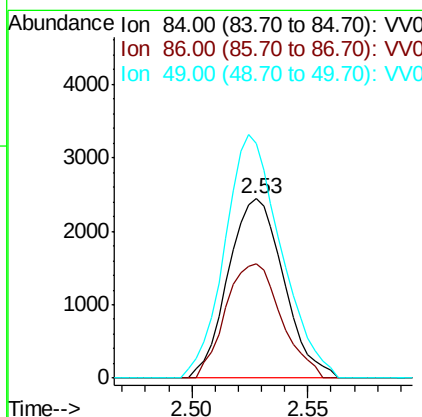
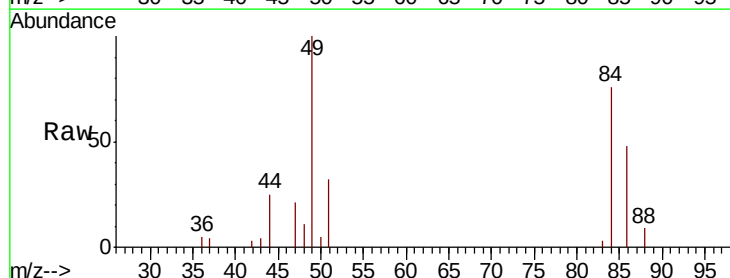
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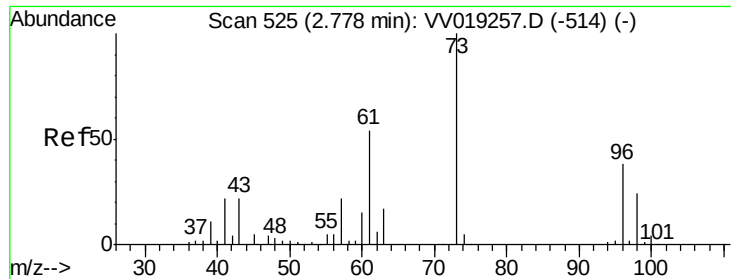
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#16
Methylene chloride
Concen: 2.572 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion: 84 Resp: 4071
Ion Ratio Lower Upper
84 100
86 63.4 45.6 84.8
49 131.1 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.415 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

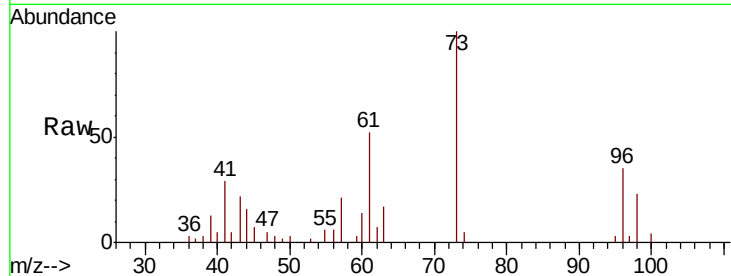
ClientSampleId :

MDL-ME-SOIL-06

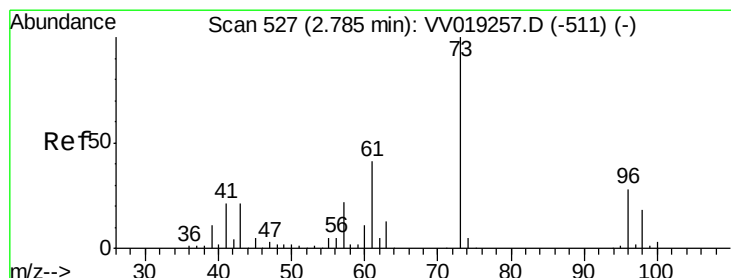
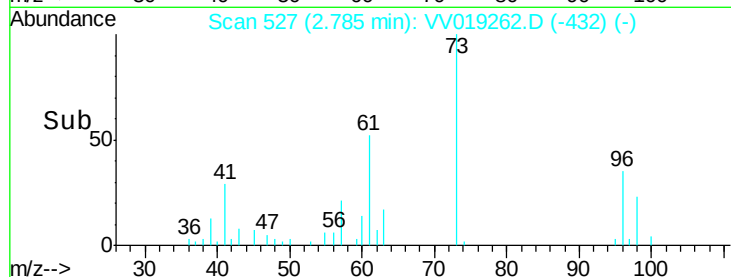
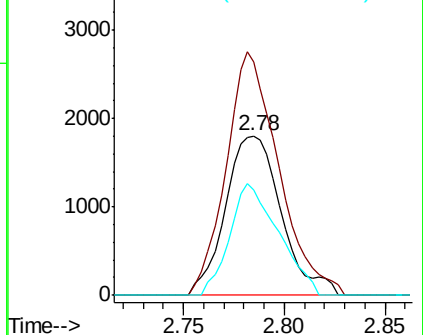
Tot Ion:	96	Resp:	3488
Ion	Ratio	Lower	Upper
96	100		
61	146.6	100.7	187.1
98	66.1	42.9	79.7

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Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.285 ug/L

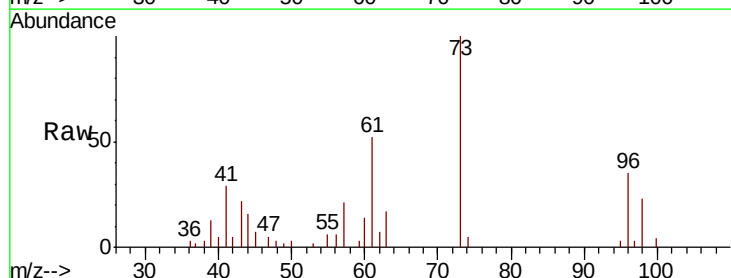
RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

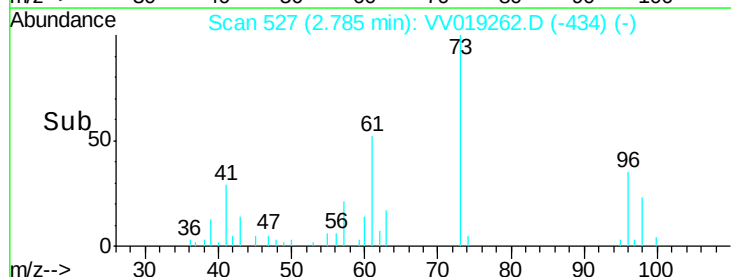
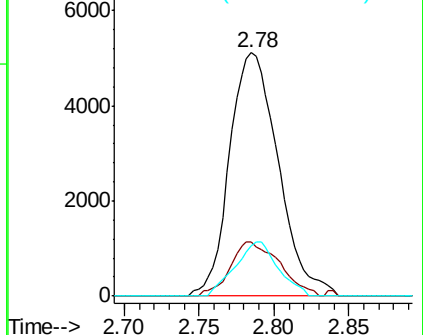
Lab File: VV019262.D

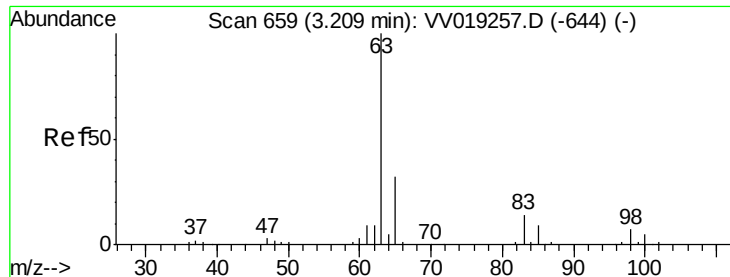
Acq: 04 Nov 2020 23:33

Tgt Ion:	73	Resp:	11602
Ion	Ratio	Lower	Upper
73	100		
43	22.7	17.9	26.9
57	19.7	17.1	25.7



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





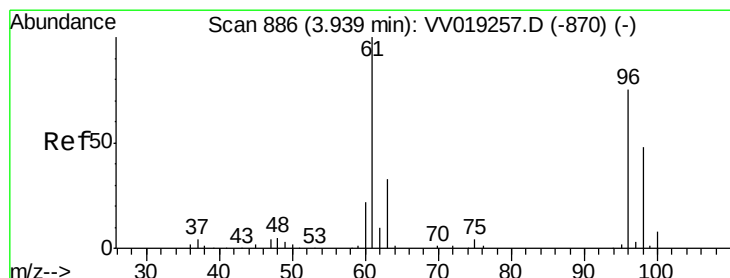
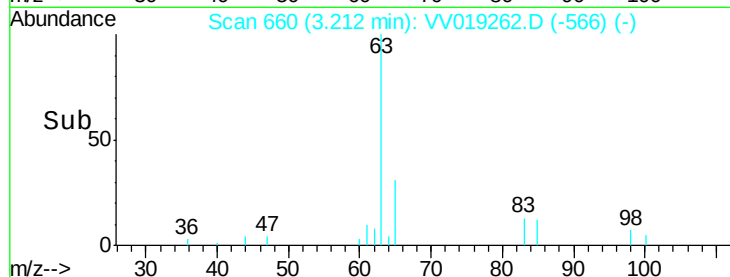
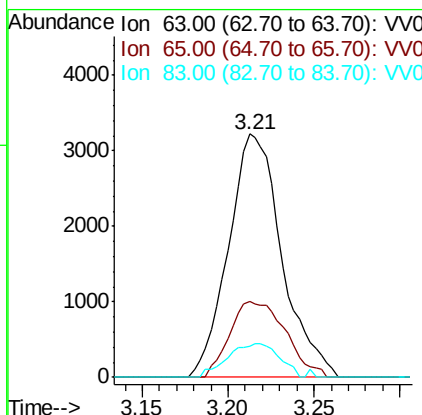
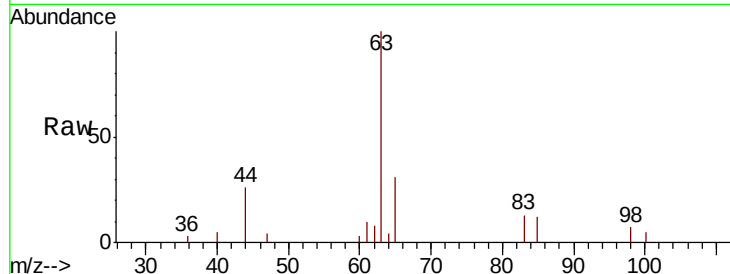
#19
 1,1-Dichloroethane
 Concen: 2.461 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	21.8	40.6
83	12.6	9.5	17.7

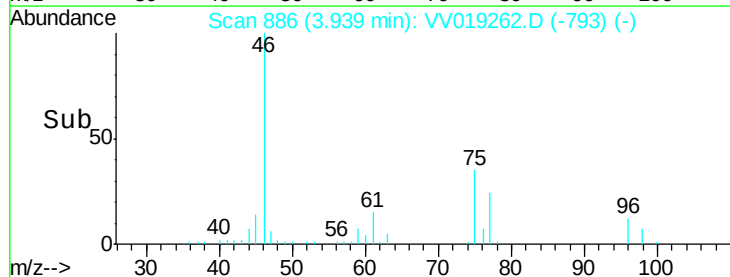
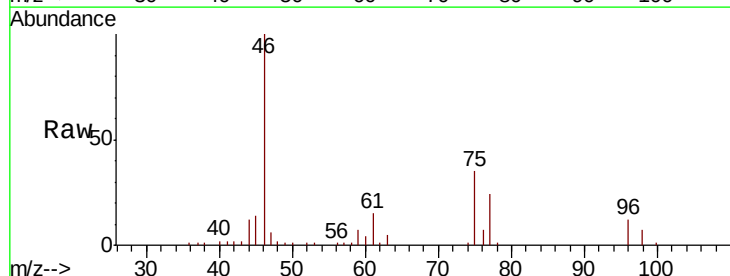
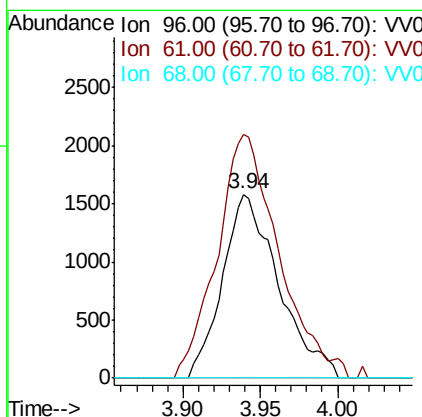
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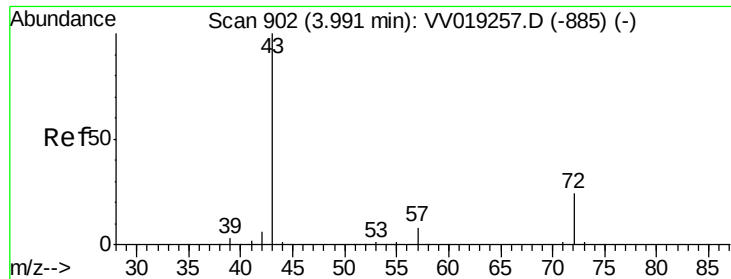
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#20
 cis-1,2-Dichloroethene
 Concen: 2.491 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.3	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.741 ug/L m

RT: 4.04 min Scan# 916

Delta R.T. 0.04 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 43 Resp: 3790

Ion Ratio Lower Upper

43 100

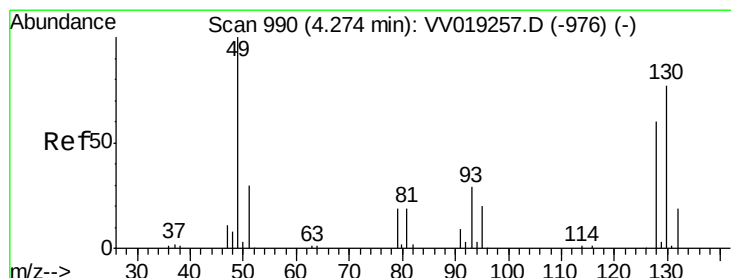
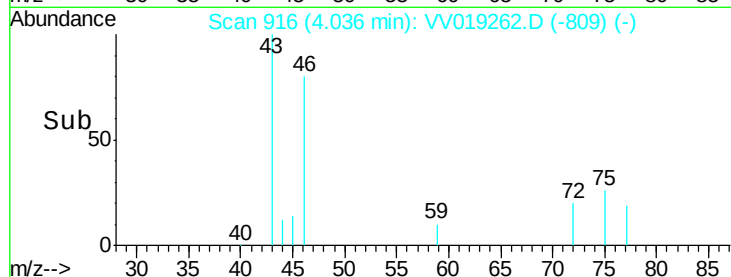
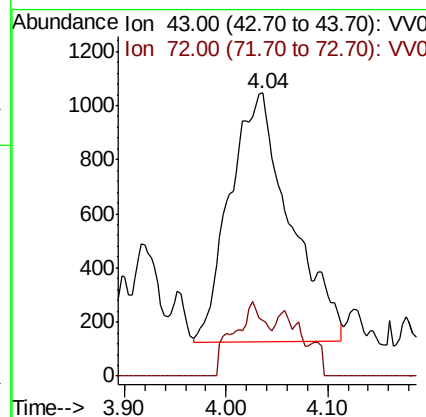
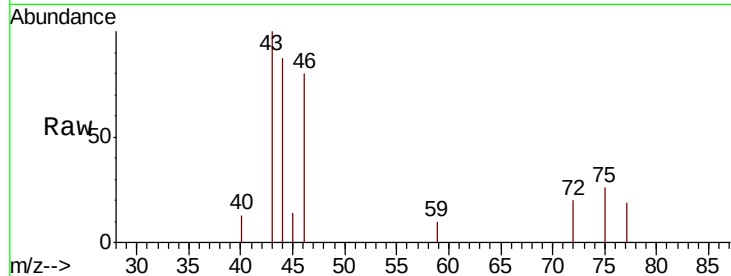
72 7.6 12.7 38.0#

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#23

Bromochloromethane

Concen: 2.284 ug/L m

RT: 4.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion: 128 Resp: 2007

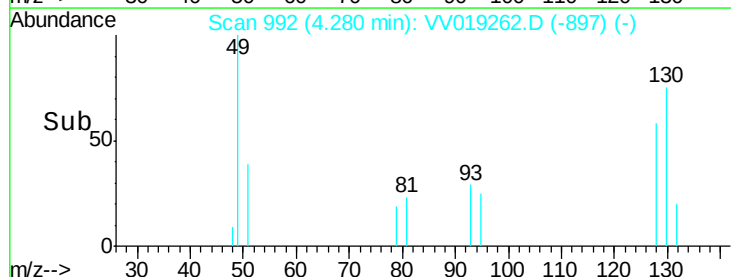
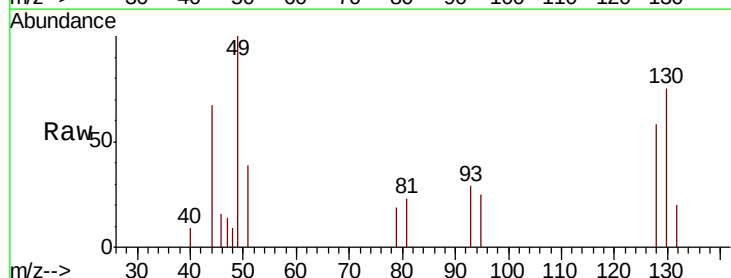
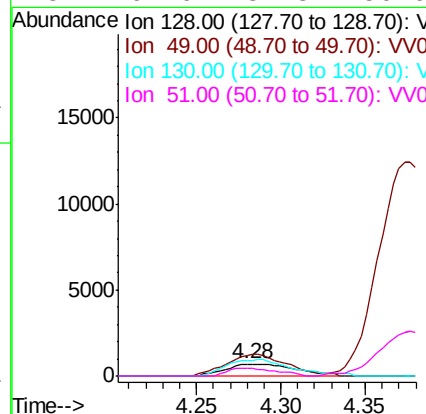
Ion Ratio Lower Upper

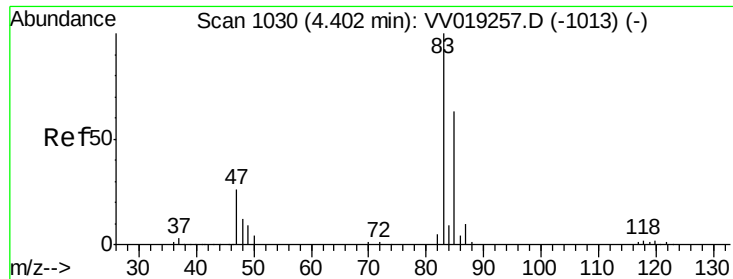
128 100

49 172.4 108.8 202.2

130 129.7 88.5 164.3

51 67.6 37.8 56.6#





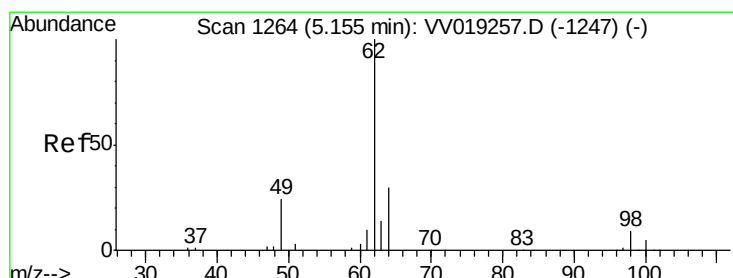
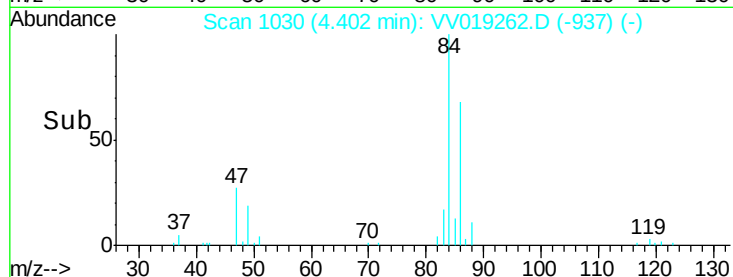
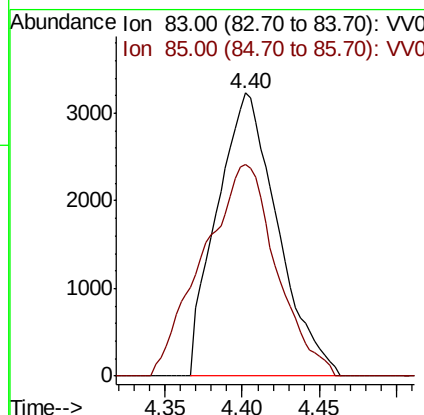
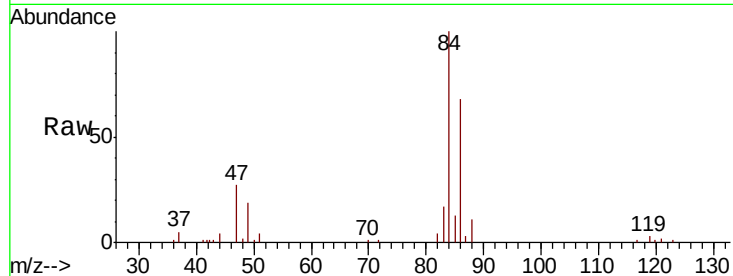
#25
Chloroform
Concen: 2.903 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion: 83 Resp: 8807
Ion Ratio Lower Upper
83 100
85 74.7 45.4 84.4

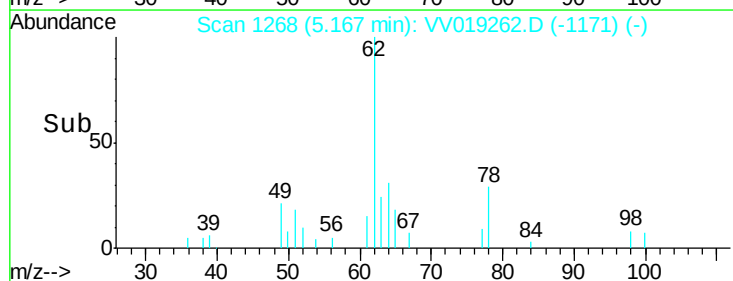
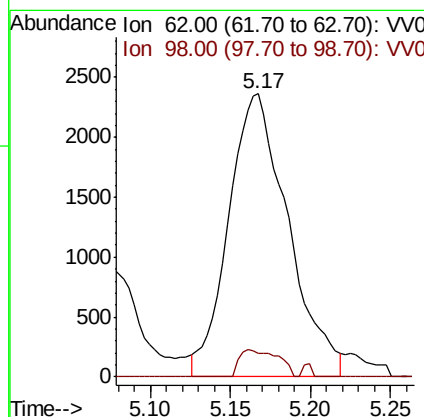
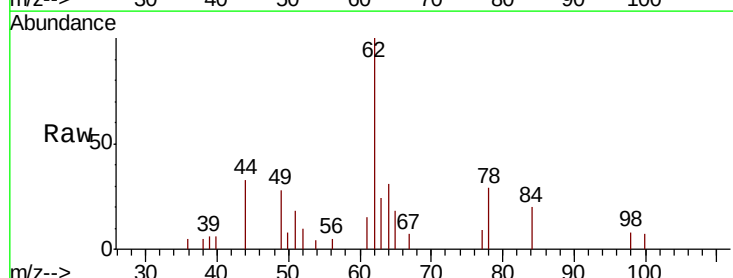
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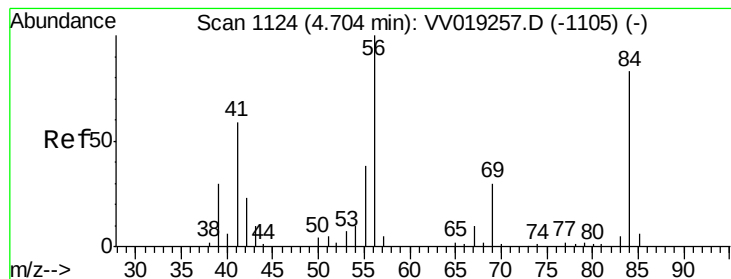
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#27
1,2-Dichloroethane
Concen: 2.380 ug/L m
RT: 5.17 min Scan# 1268
Delta R.T. 0.01 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion: 62 Resp: 6138
Ion Ratio Lower Upper
62 100
98 8.3 6.8 10.2





#29

Cyclohexane

Concen: 2.477 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

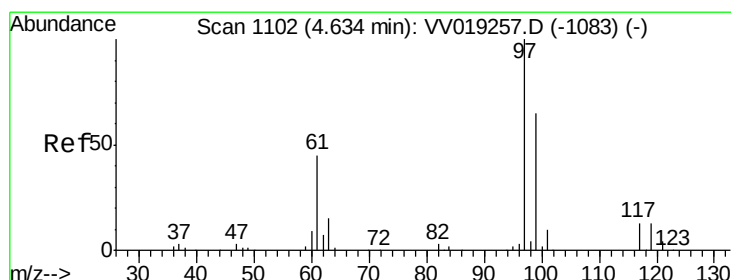
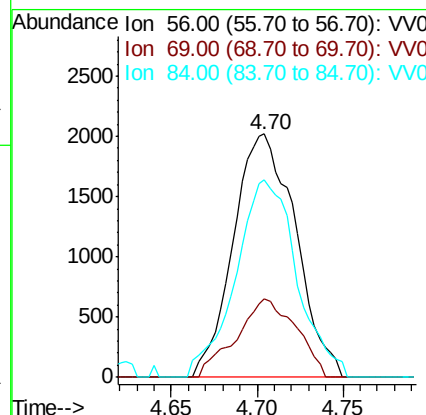
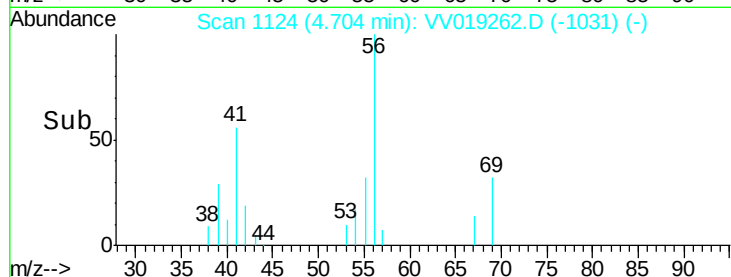
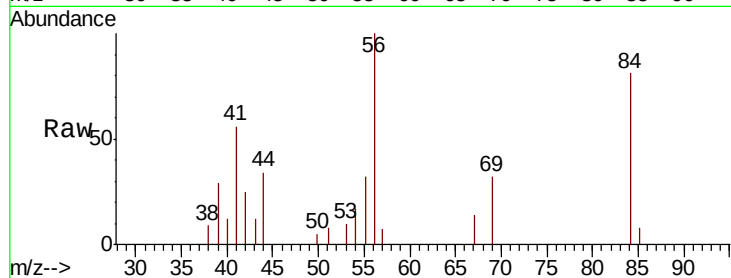
ClientSampleId :

MDL-ME-SOIL-06

Tot Ion:	56	Resp:	5064
Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.6	36.8
84	79.8	70.5	105.7

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#30

1,1,1-Trichloroethane

Concen: 2.382 ug/L

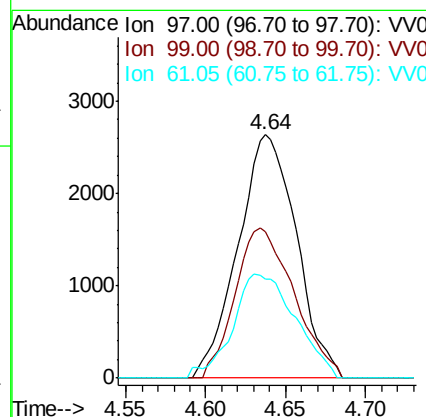
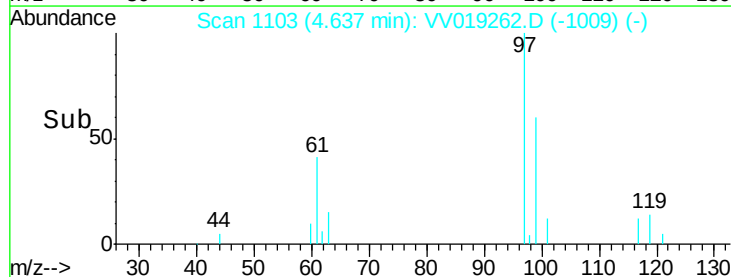
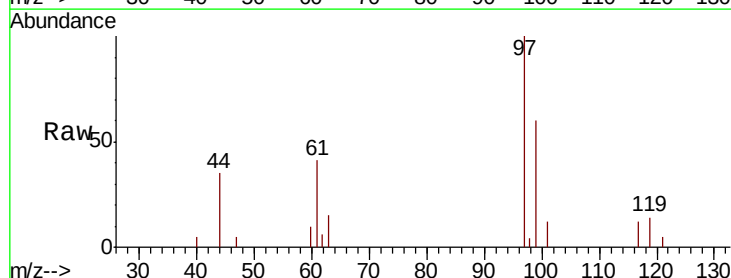
RT: 4.64 min Scan# 1103

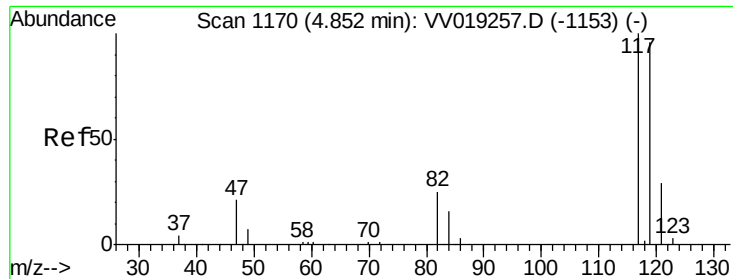
Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion:	97	Resp:	6599
Ion	Ratio	Lower	Upper
97	100		
99	62.1	52.0	78.0
61	44.8	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.356 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion:117 Resp: 5636

Ion Ratio Lower Upper

117 100

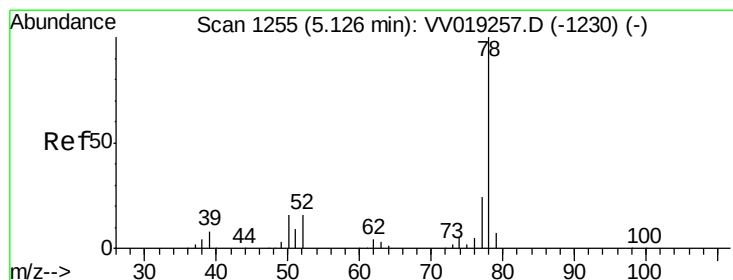
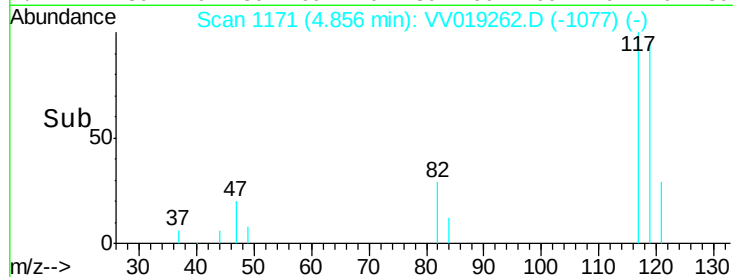
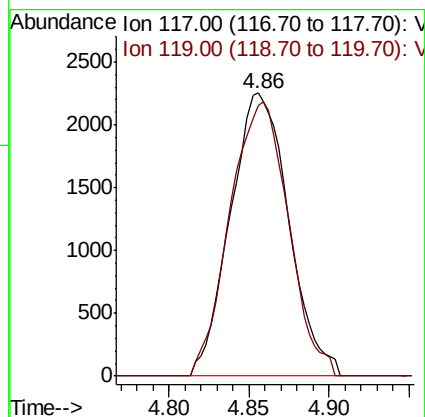
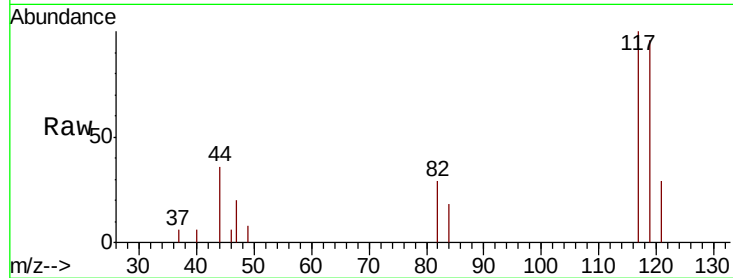
119 97.4 77.8 116.6

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#33

Benzene

Concen: 2.365 ug/L

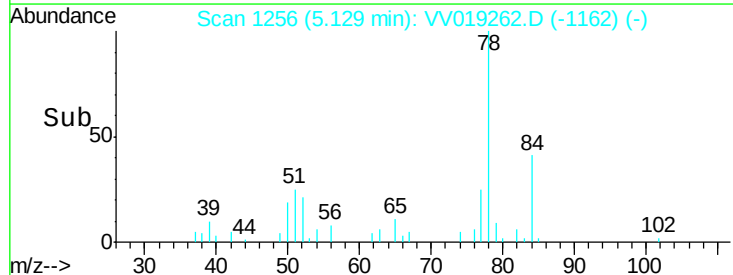
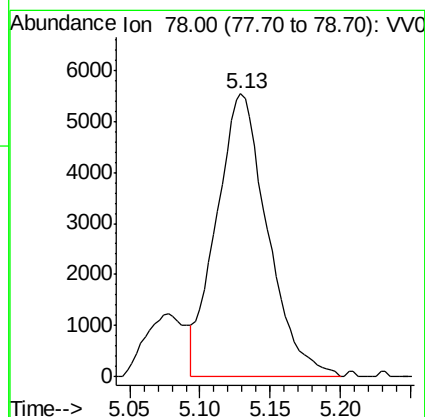
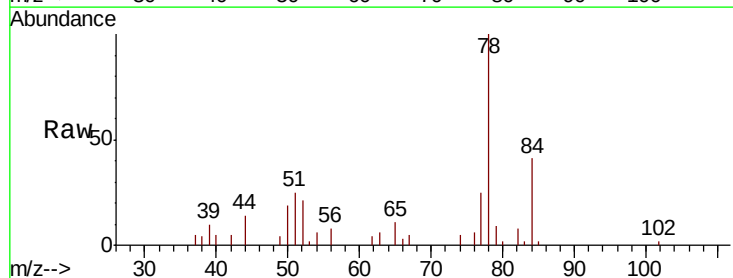
RT: 5.13 min Scan# 1256

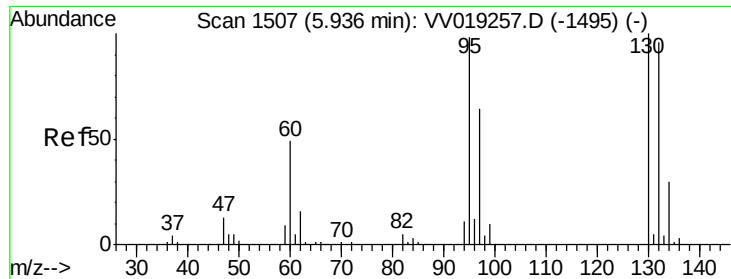
Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion: 78 Resp: 14040





#34

Trichloroethene

Concen: 2.409 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 95 Resp: 3887

Ion Ratio Lower Upper

95 100

97 66.6 45.4 84.4

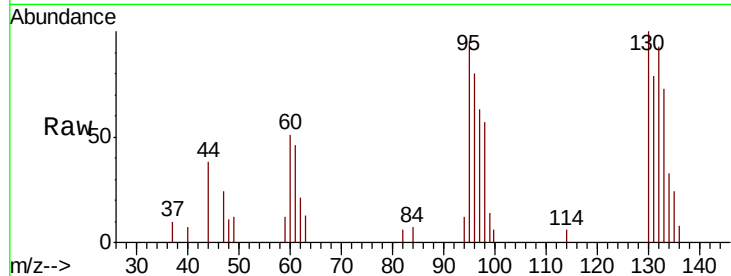
132 97.6 68.5 127.3

130 105.0 72.0 133.6

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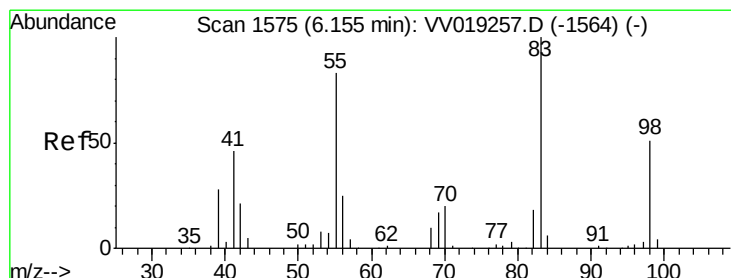
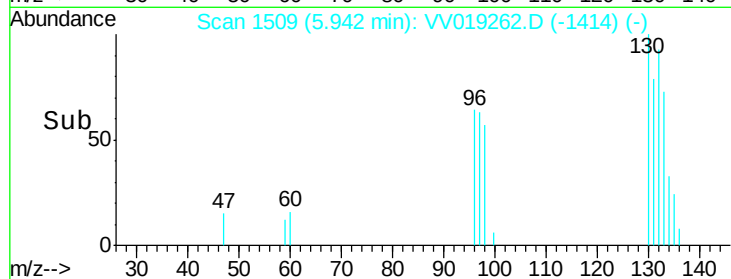
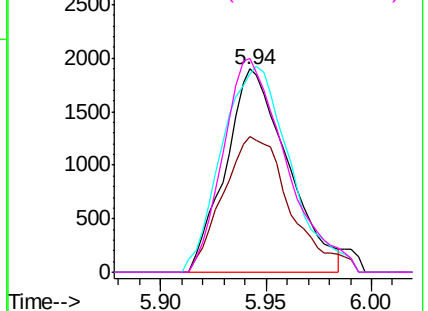
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 2.557 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion: 83 Resp: 4993

Ion Ratio Lower Upper

83 100

55 73.2 62.8 94.2

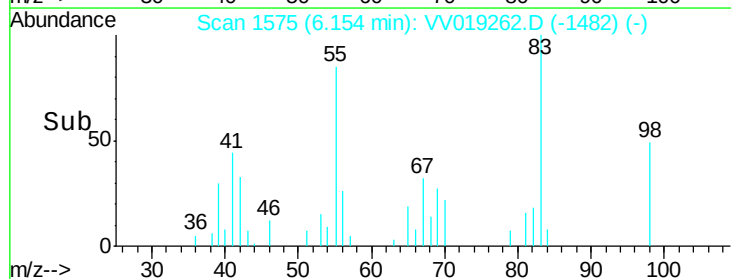
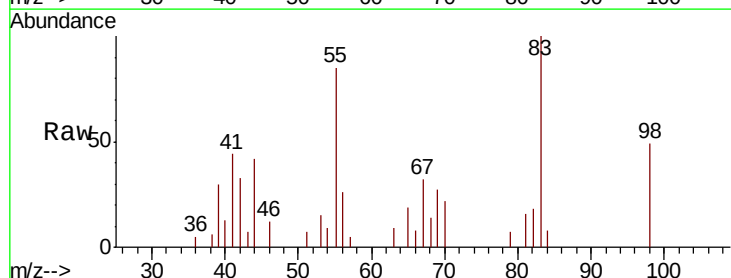
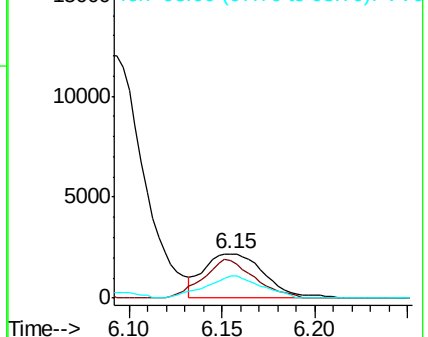
98 45.7 38.6 58.0

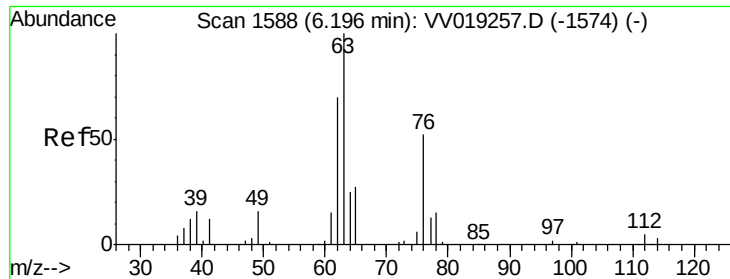
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





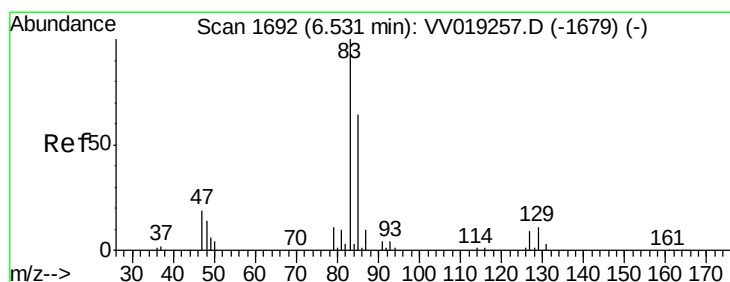
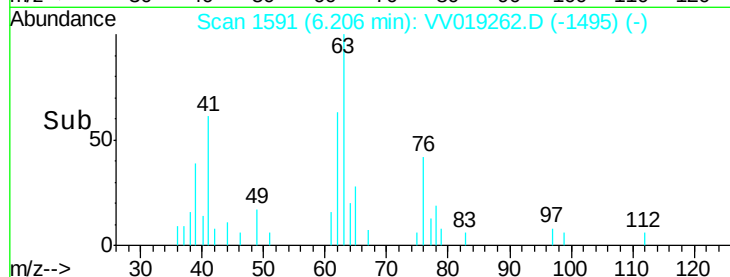
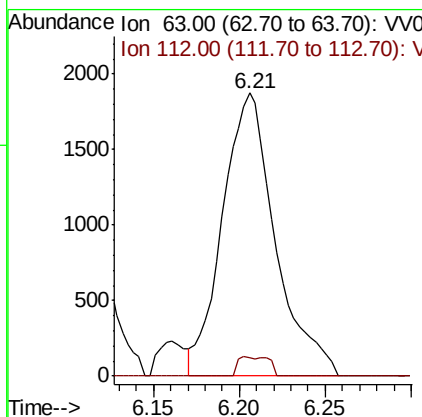
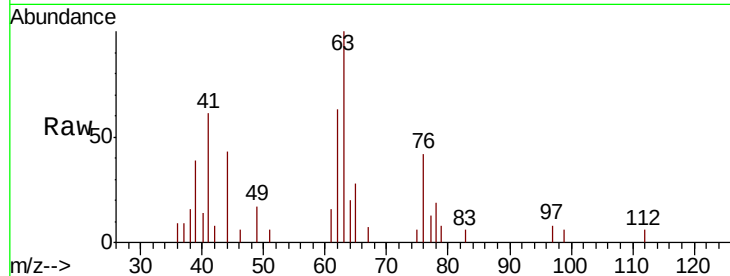
#37
 1,2-Dichloropropane
 Concen: 2.538 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion: 63 Resp: 4022
 Ion Ratio Lower Upper
 63 100
 112 2.3 4.2 6.2#

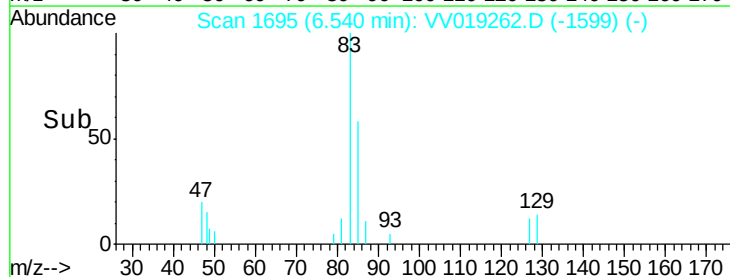
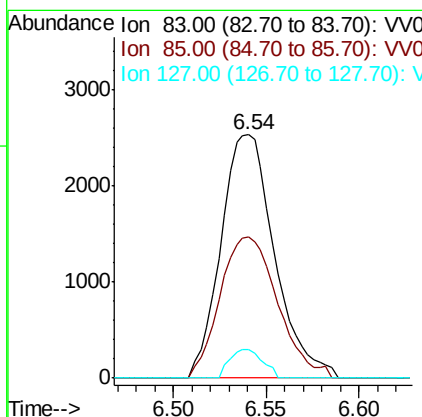
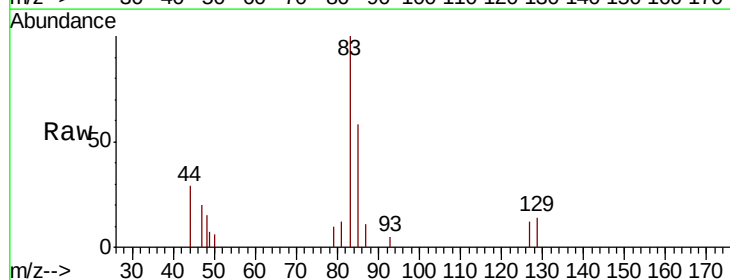
Manual Integrations
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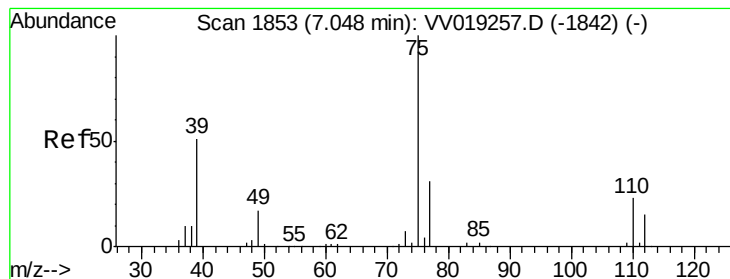
MMDadoda
 11/6/2020 11:03:46 AM



#38
 Bromodichloromethane
 Concen: 2.238 ug/L
 RT: 6.54 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion: 83 Resp: 5103
 Ion Ratio Lower Upper
 83 100
 85 58.0 44.0 81.8
 127 11.6 7.3 10.9#





#39

cis-1,3-Dichloropropene

Concen: 2.194 ug/L

RT: 7.05 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 75 Resp: 5562

Ion Ratio Lower Upper

75 100

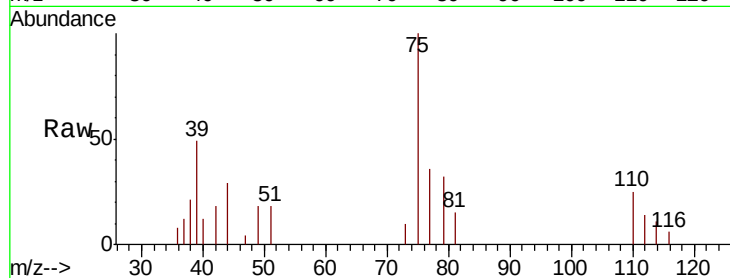
77 36.1 22.2 41.2

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VV019257.D (-1842) (-)

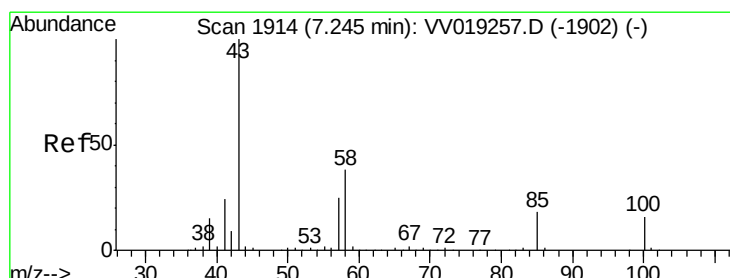
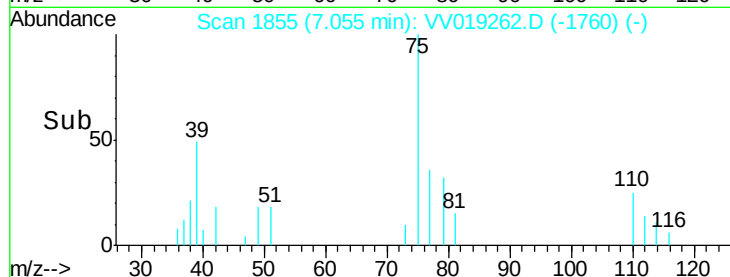
Ion 77.00 (76.70 to 77.70): VV019257.D (-1842) (-)

7.05

7.10

7.15

Time-->



#40

4-Methyl-2-pentanone

Concen: 4.119 ug/L

RT: 7.25 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

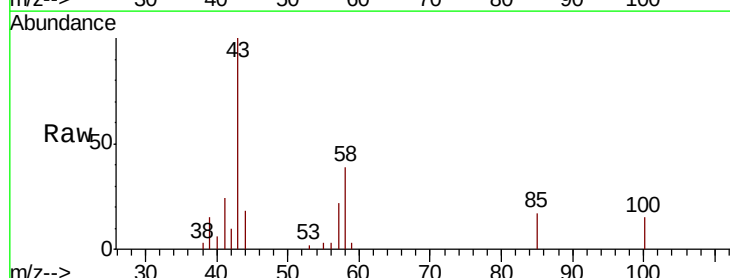
Tgt Ion: 43 Resp: 8768

Ion Ratio Lower Upper

43 100

58 38.3 30.5 45.7

100 13.9 12.7 19.1



Abundance Ion 43.00 (42.70 to 43.70): VV019257.D (-1902) (-)

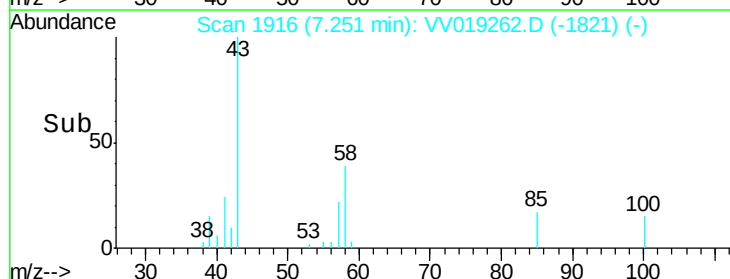
Ion 58.00 (57.70 to 58.70): VV019257.D (-1902) (-)

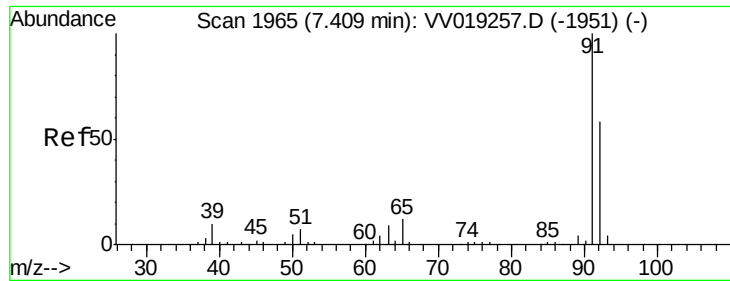
Ion 100.00 (99.70 to 100.70): VV019257.D (-1902) (-)

7.25

7.30

Time-->





#42

Toluene

Concen: 2.603 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 91 Resp: 16705

Ion Ratio Lower Upper

91 100

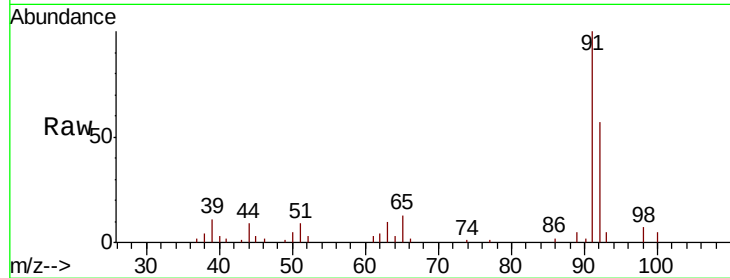
92 56.6 40.6 75.4

Manual Integrations

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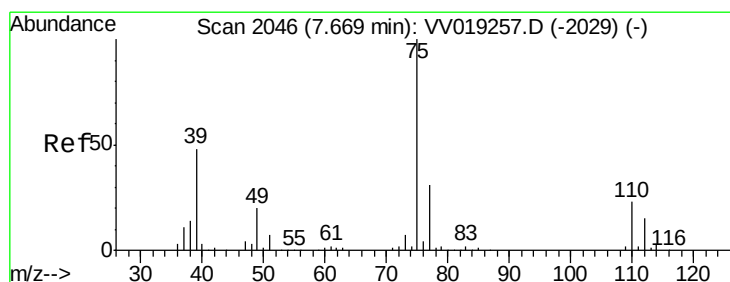
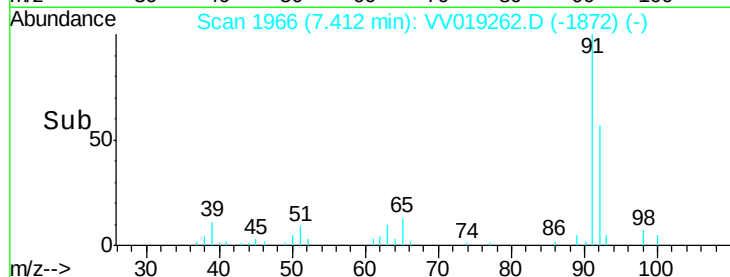
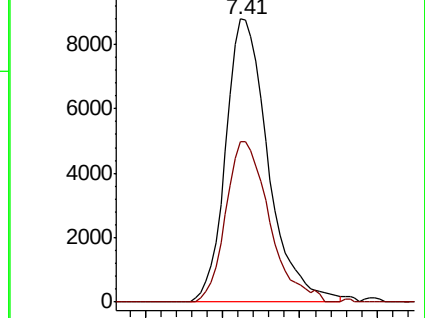
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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.147 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019262.D

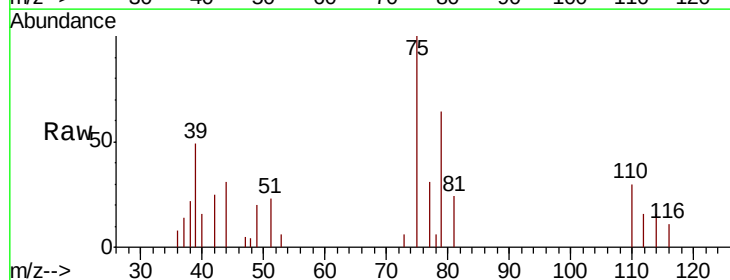
Acq: 04 Nov 2020 23:33

Tgt Ion: 75 Resp: 5577

Ion Ratio Lower Upper

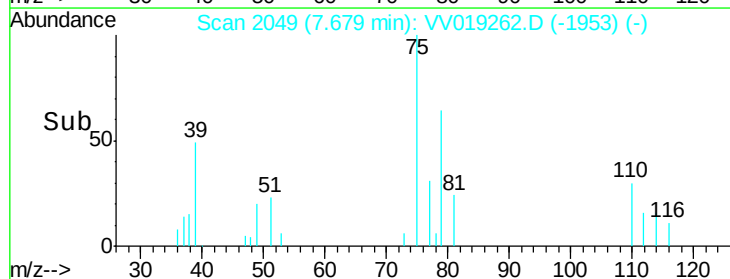
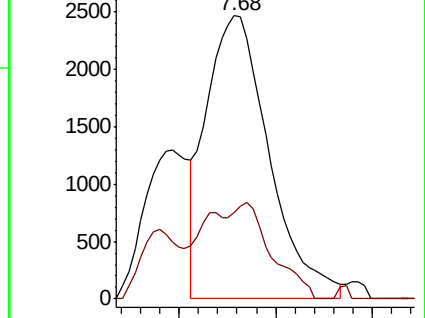
75 100

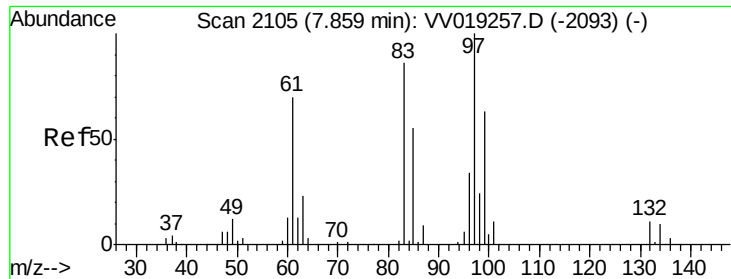
77 30.5 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





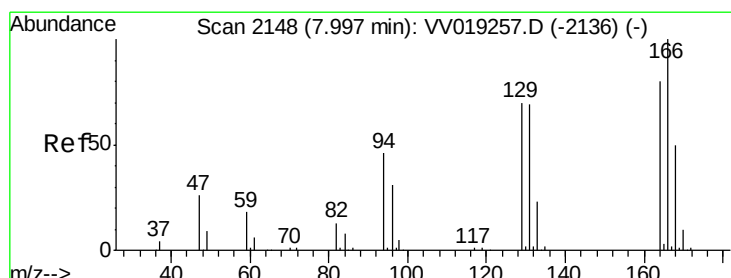
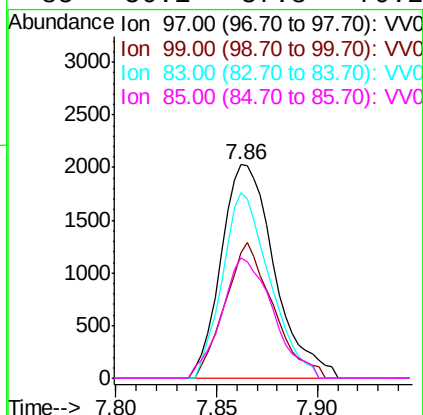
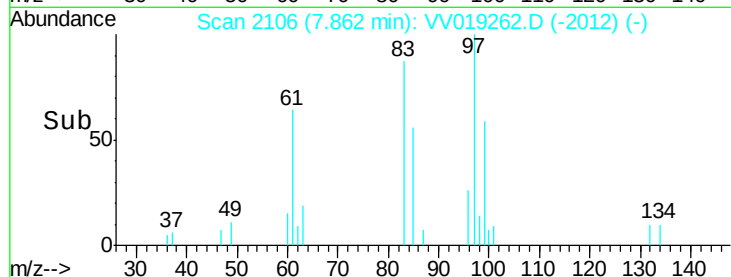
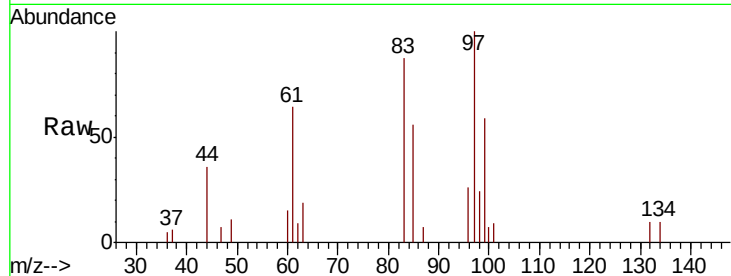
#45
1,1,2-Trichloroethane
Concen: 2.394 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion:	97	Resp:	3750
Ion	Ratio	Lower	Upper
97	100		
99	58.8	45.1	83.9
83	87.1	57.6	107.0
85	56.1	37.8	70.2

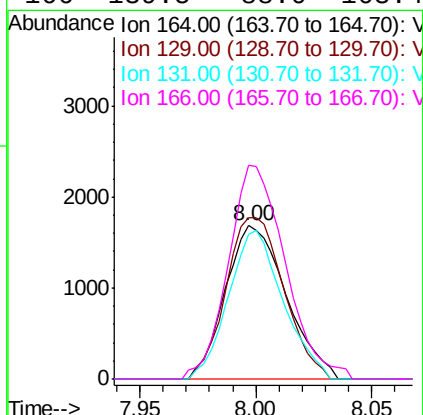
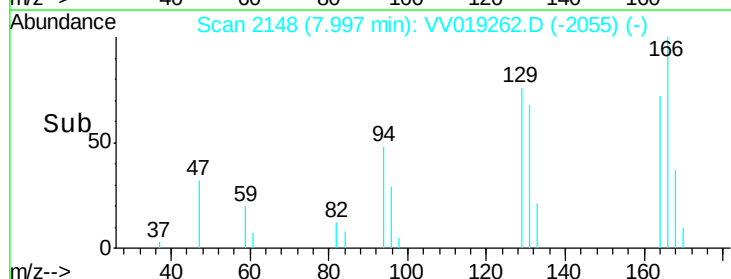
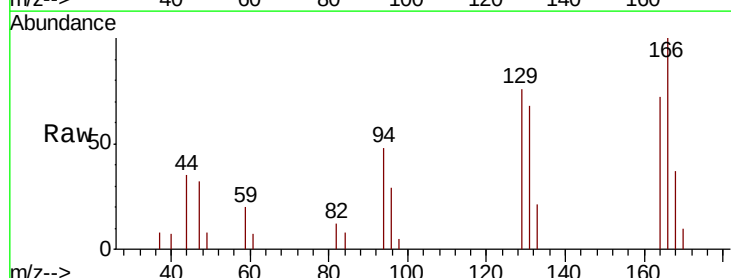
Manual Integrations
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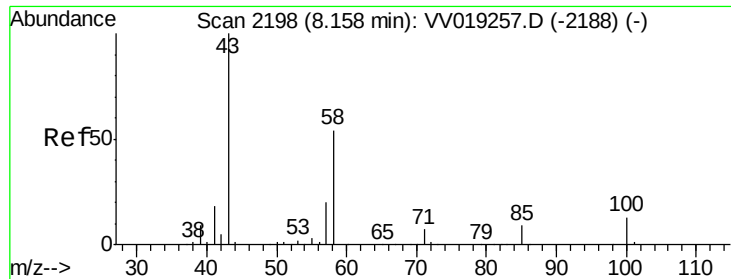
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11/6/2020 11:03:46 AM



#46
Tetrachloroethene
Concen: 2.337 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion:	164	Resp:	3077
Ion	Ratio	Lower	Upper
164	100		
129	105.7	62.6	116.3
131	94.7	59.0	109.6
166	139.5	88.0	163.4





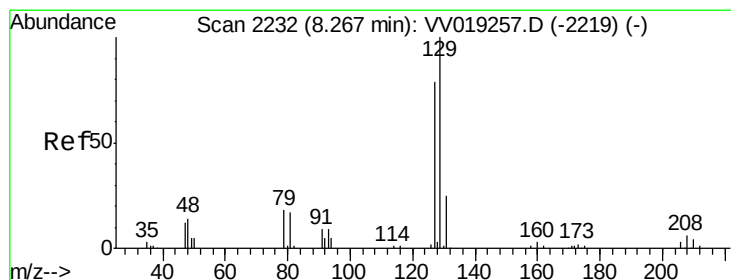
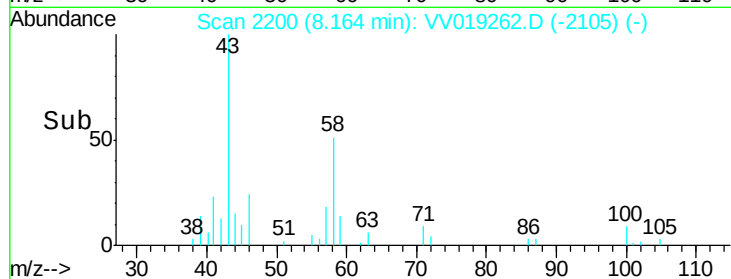
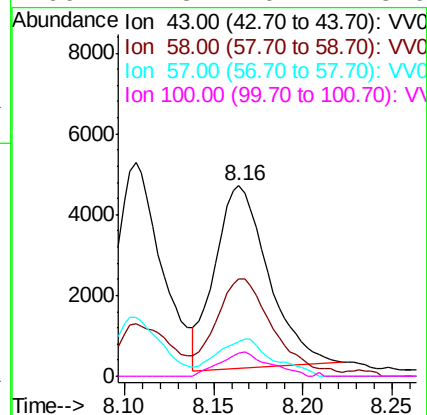
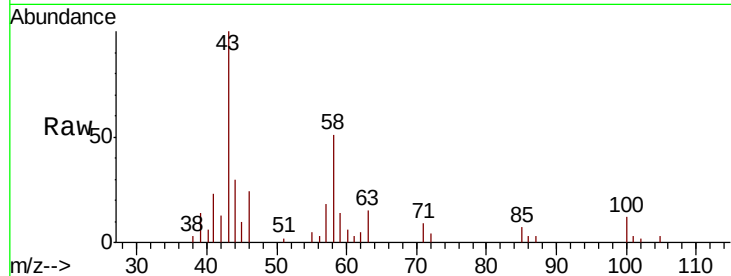
#48
2-Hexanone
Concen: 5.831 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	57.1	42.6	63.8	
57	21.4	15.8	23.8	
100	12.3	10.4	15.6	

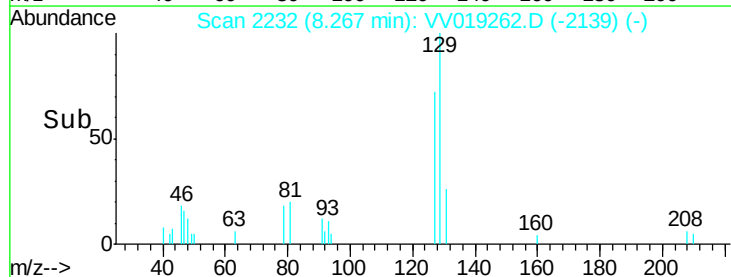
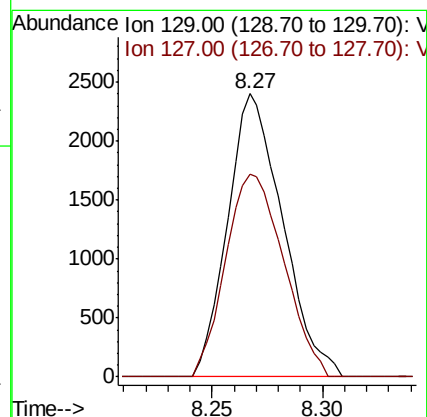
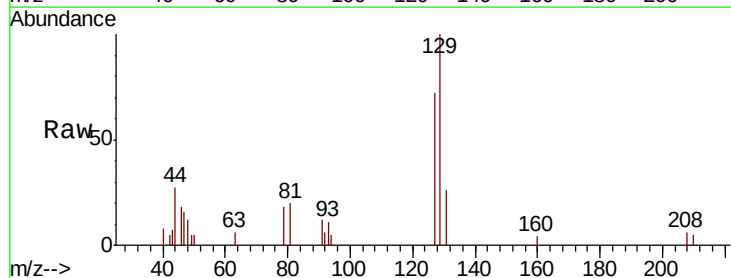
Manual Integrations
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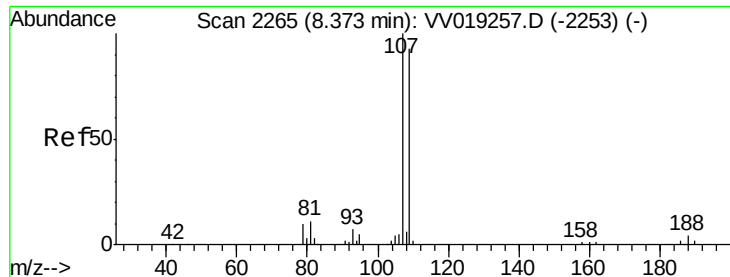
MMDadoda
11/6/2020 11:03:46 AM



#49
Dibromochloromethane
Concen: 2.222 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	71.6	54.4	101.0	





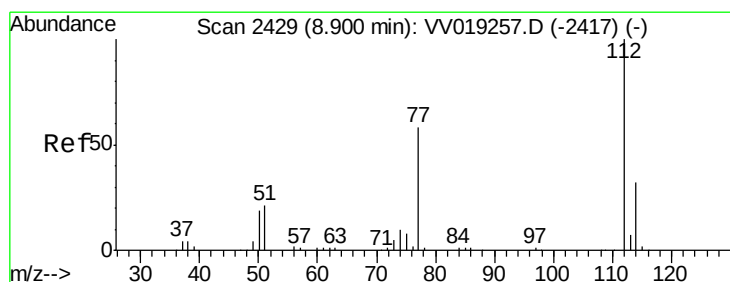
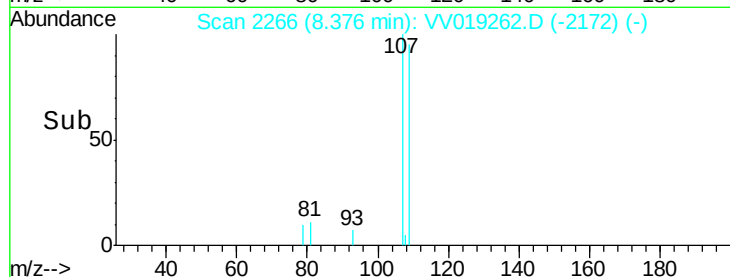
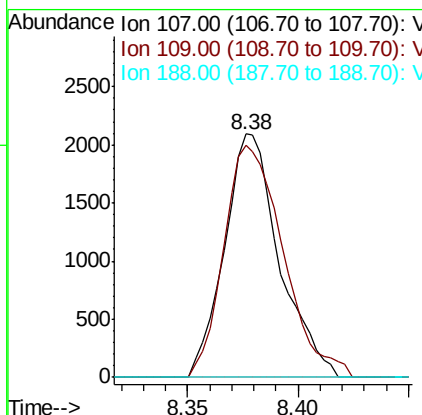
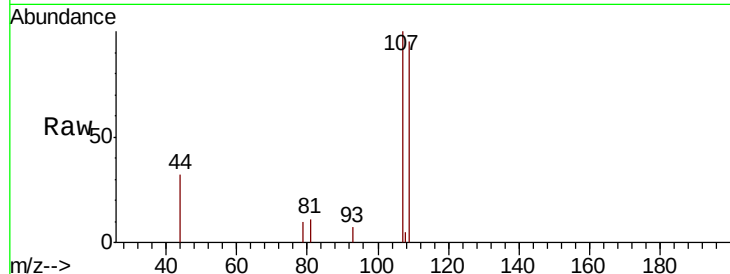
#50
1,2-Dibromoethane
Concen: 2.224 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	64.8	120.4
188	0.0	3.8	5.8#

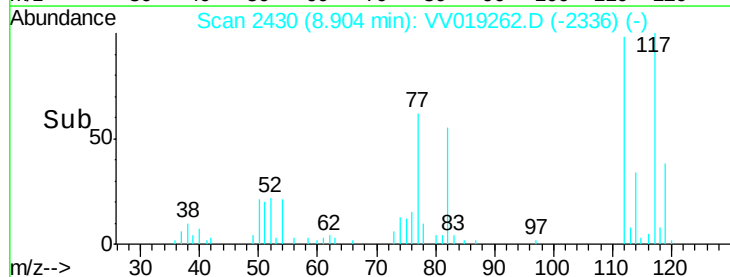
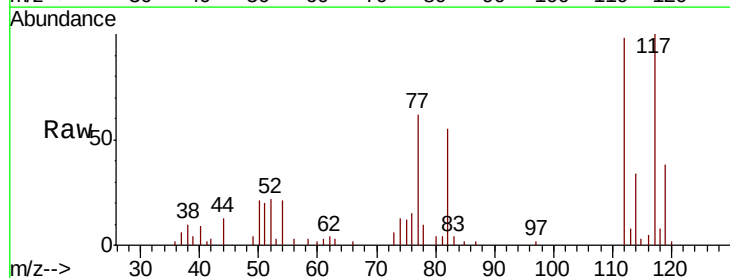
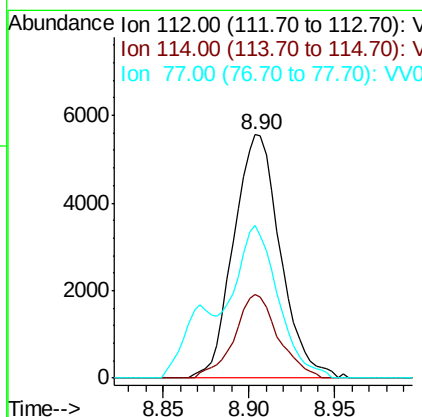
Manual Integrations
APPROVED

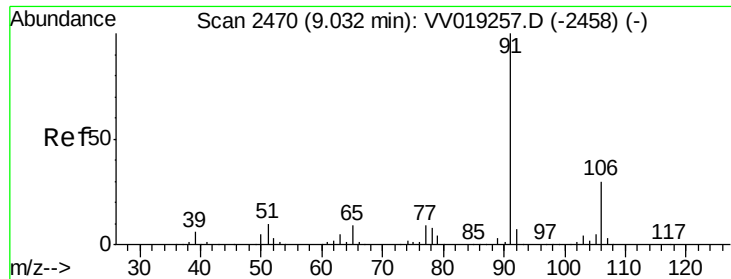
MMDadoda
11/6/2020 11:03:46 AM



#51
Chlorobenzene
Concen: 2.437 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.4	22.7	42.1
77	62.6	47.3	70.9





#52

Ethylbenzene

Concen: 2.229 ug/L

RT: 9.04 min Scan# 2472

Delta R.T. 0.01 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tot Ion: 91 Resp: 15782

Ion Ratio Lower Upper

91 100

106 29.0 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

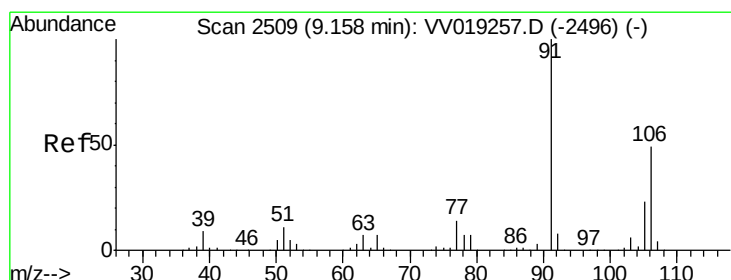
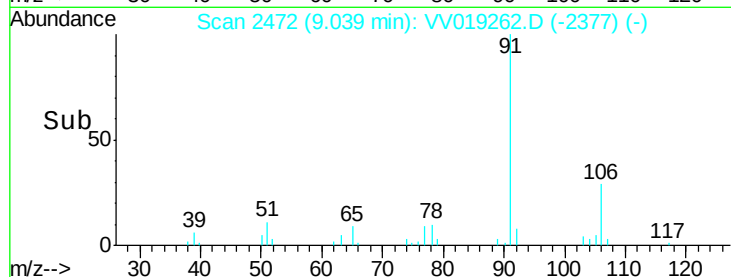
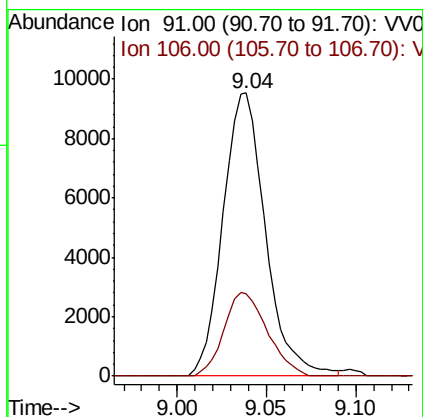
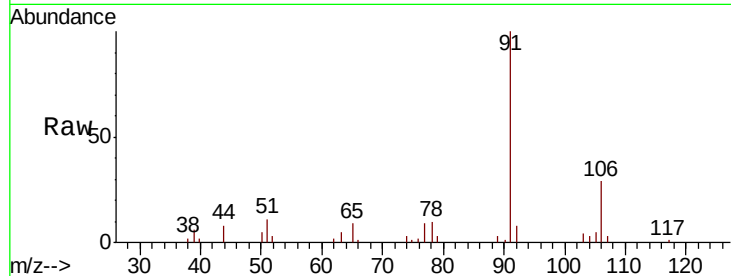
MDL-ME-SOIL-06

Manual Integrations

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#53

m,p-Xylene

Concen: 2.194 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019262.D

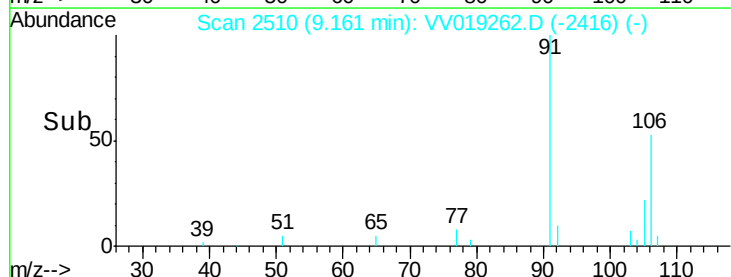
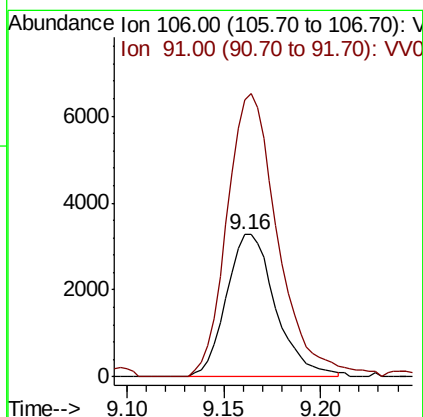
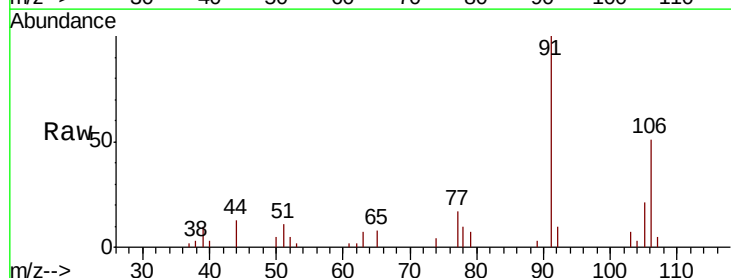
Acq: 04 Nov 2020 23:33

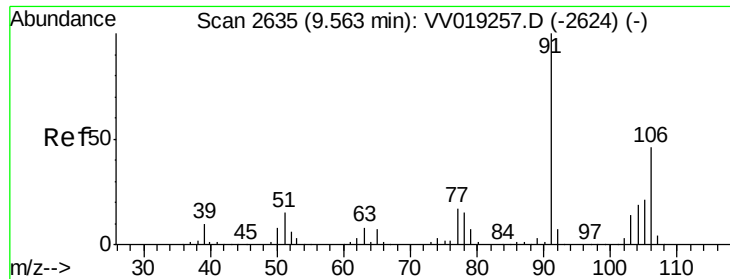
Tgt Ion: 106 Resp: 5815

Ion Ratio Lower Upper

106 100

91 194.9 147.2 273.4





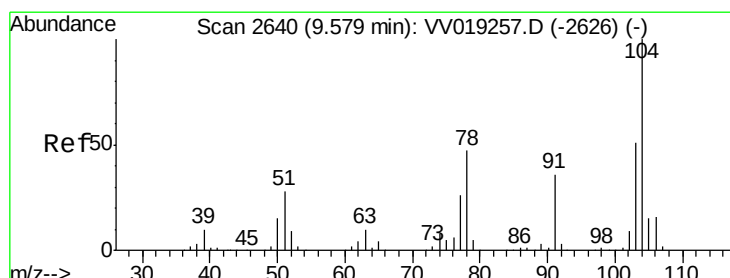
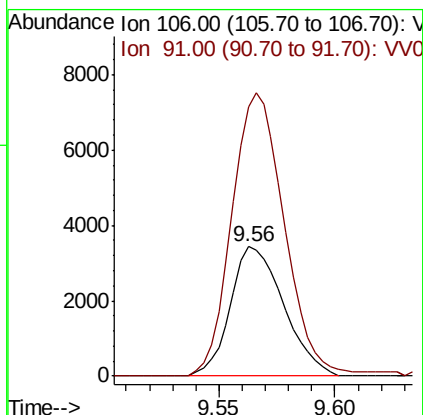
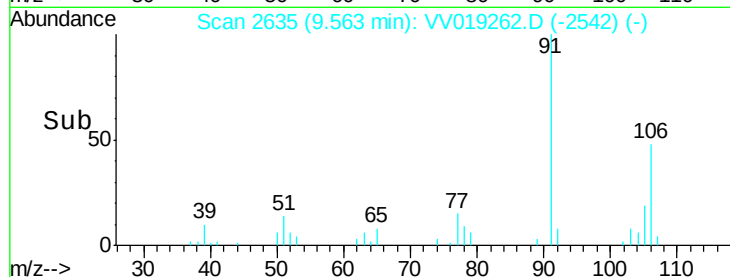
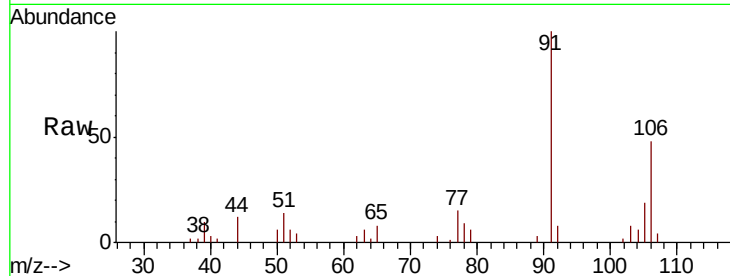
#54
o-Xylene
Concen: 2.107 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion:106 Resp: 5504
Ion Ratio Lower Upper
106 100
91 208.6 151.6 281.6

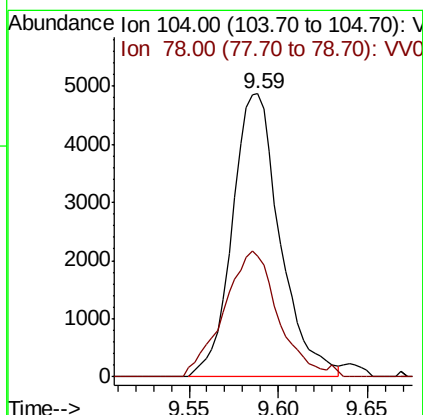
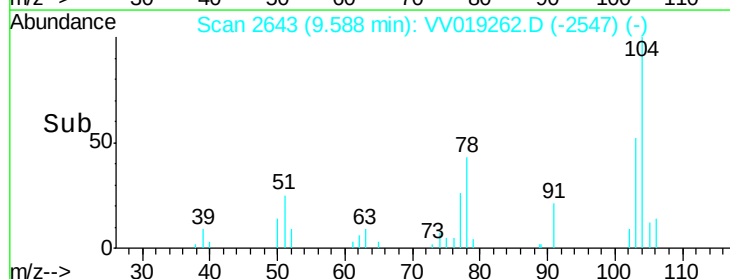
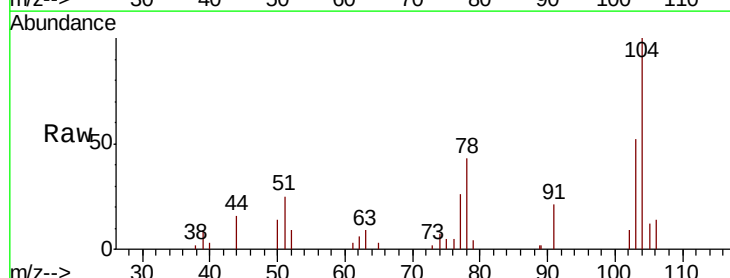
Manual Integrations
APPROVED

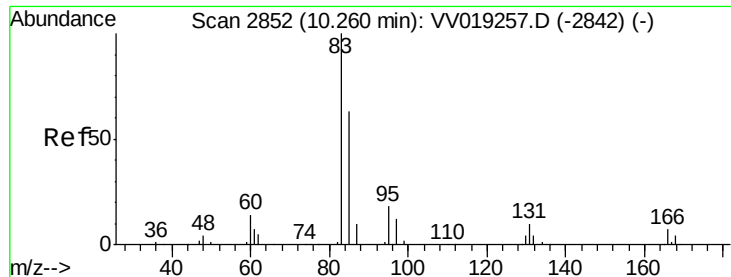
MMDadoda
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#55
Styrene
Concen: 1.955 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion:104 Resp: 9093
Ion Ratio Lower Upper
104 100
78 42.9 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 2.335 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

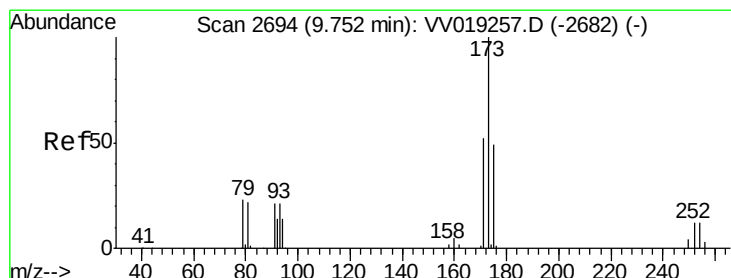
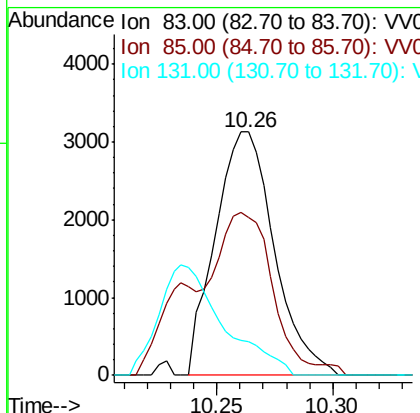
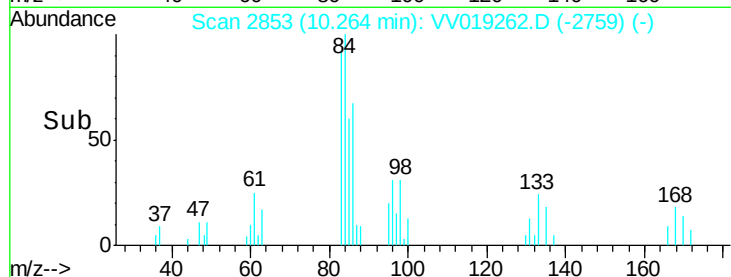
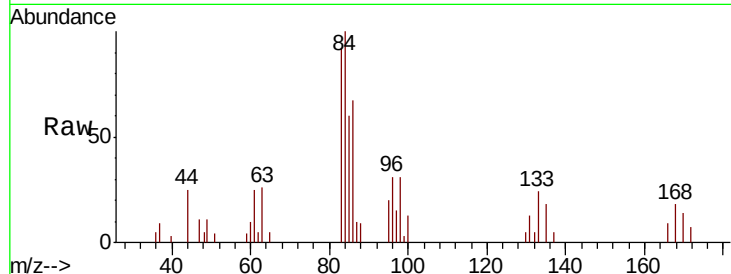
ClientSampleId :

MDL-ME-SOIL-06

Tot Ion:	83	Resp:	5533
Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.0	83.6
131	13.7	8.9	13.3#

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#59

Bromoform

Concen: 2.014 ug/L

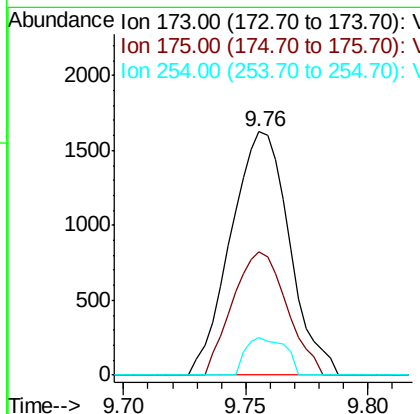
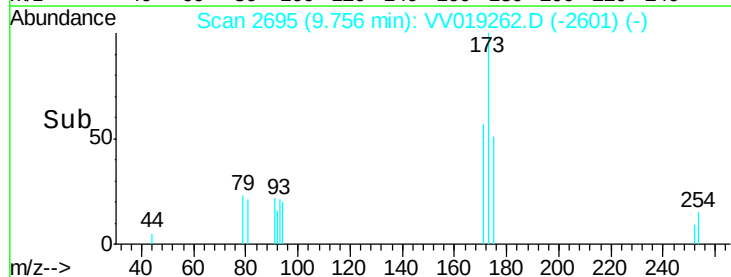
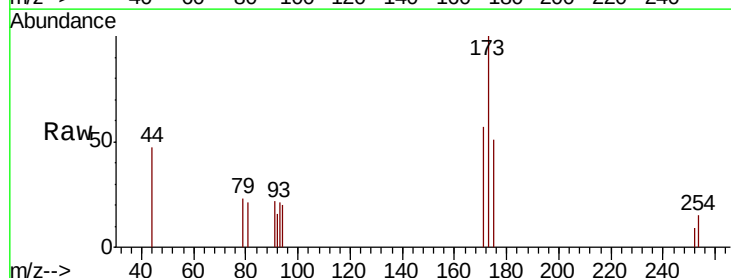
RT: 9.76 min Scan# 2695

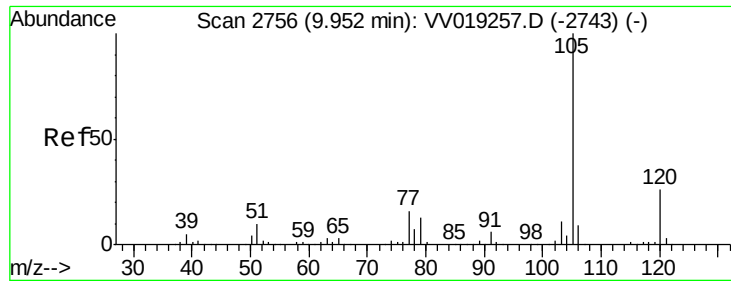
Delta R.T. 0.00 min

Lab File: VV019262.D

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Tgt Ion:	173	Resp:	2709
Ion	Ratio	Lower	Upper
173	100		
175	46.8	38.4	57.6
254	10.2	9.0	13.6





#60

Isopropylbenzene

Concen: 2.224 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Instrument :

MSVOA_V

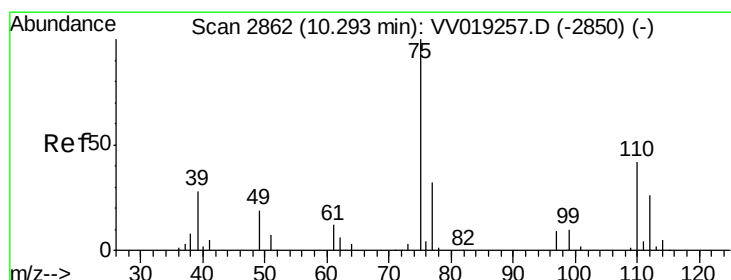
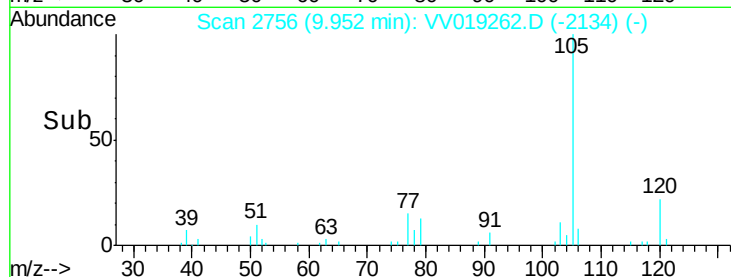
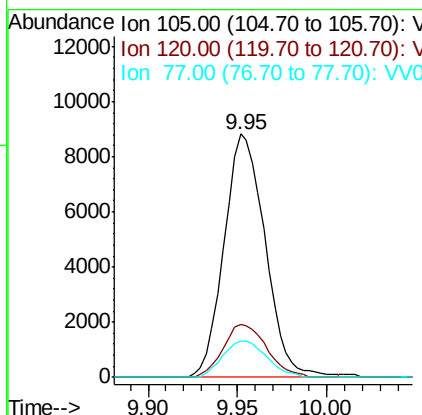
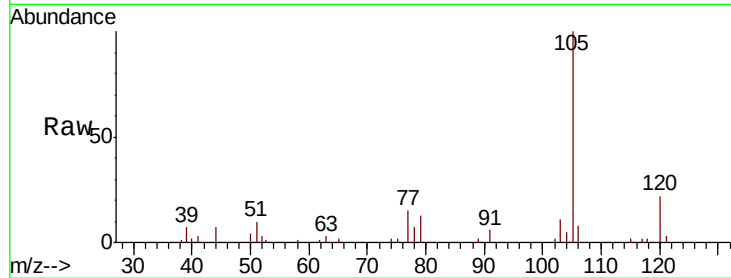
ClientSampleId :

MDL-ME-SOIL-06

Tot Ion:	105	Resp:	14123
Ion Ratio	Lower	Upper	
105	100		
120	23.1	21.0	31.4
77	16.0	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.496 ug/L

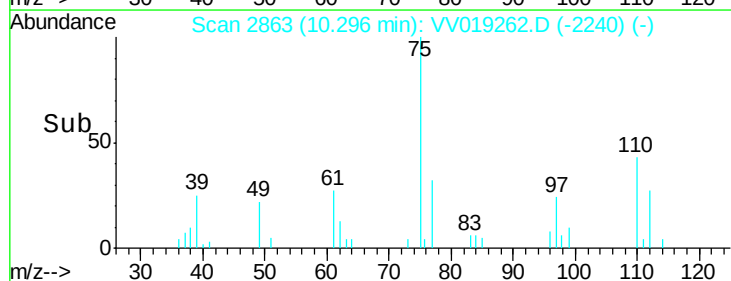
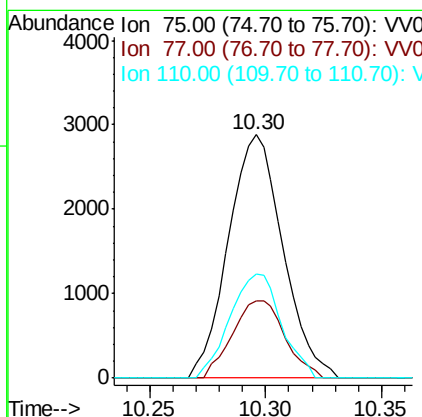
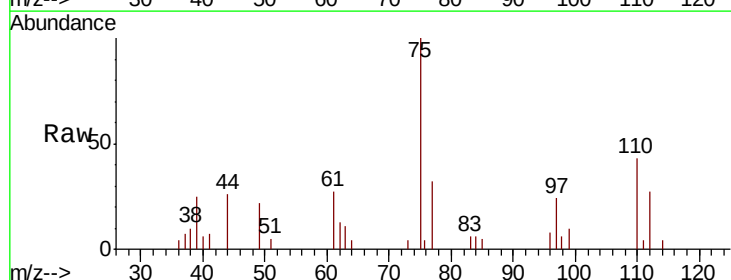
RT: 10.30 min Scan# 2863

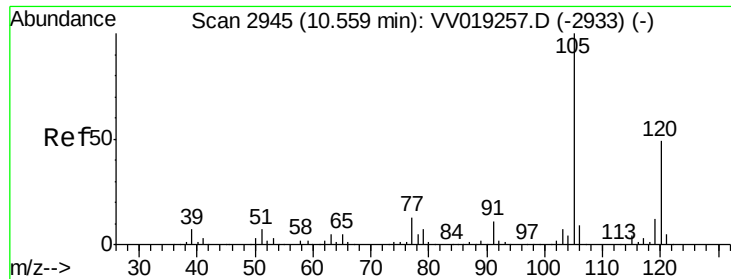
Delta R.T. 0.00 min

Lab File: VV019262.D

Acq: 04 Nov 2020 23:33

Tgt Ion:	75	Resp:	4699
Ion Ratio	Lower	Upper	
75	100		
77	30.6	24.8	37.2
110	40.3	33.4	50.2





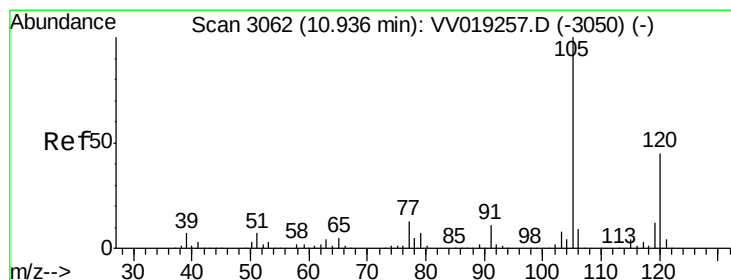
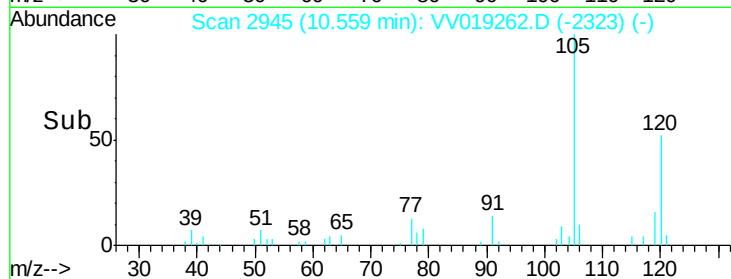
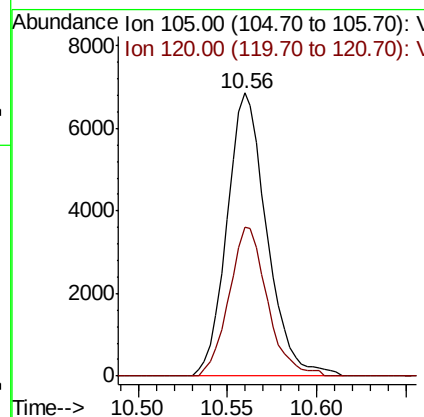
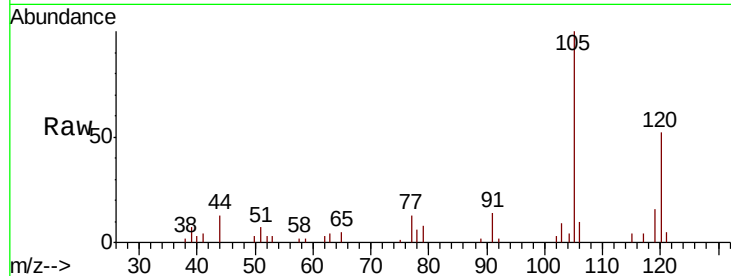
#62
 1,3,5-Trimethylbenzene
 Concen: 2.012 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion:105 Resp: 10644
 Ion Ratio Lower Upper
 105 100
 120 50.4 38.3 57.5

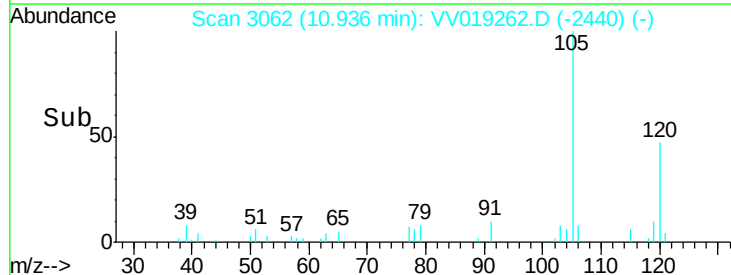
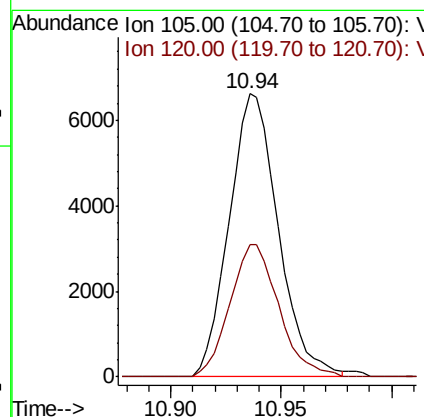
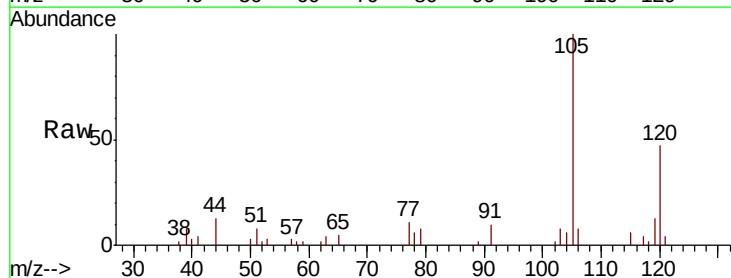
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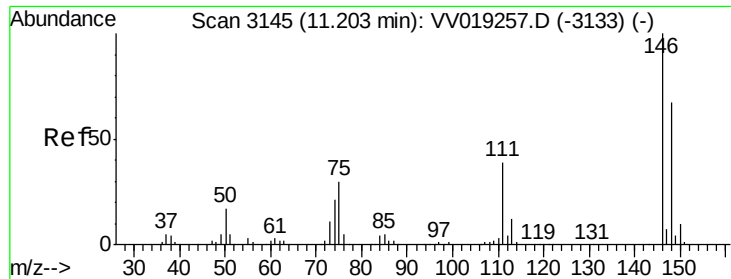
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.974 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion:105 Resp: 10218
 Ion Ratio Lower Upper
 105 100
 120 46.8 35.7 53.5





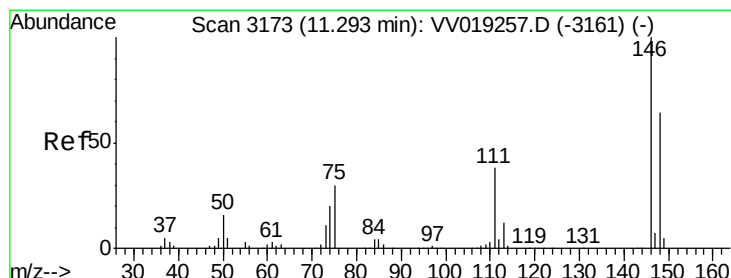
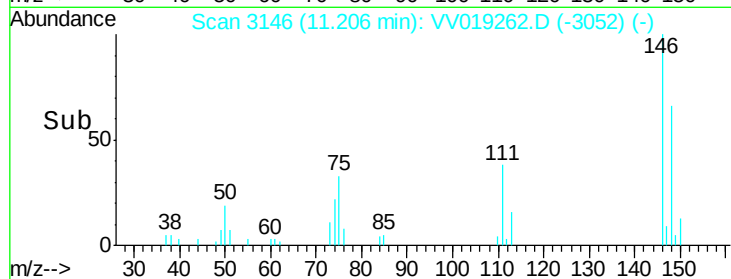
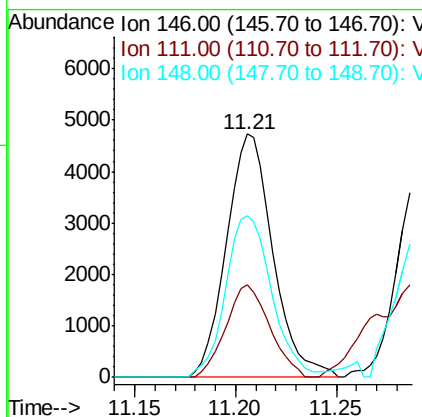
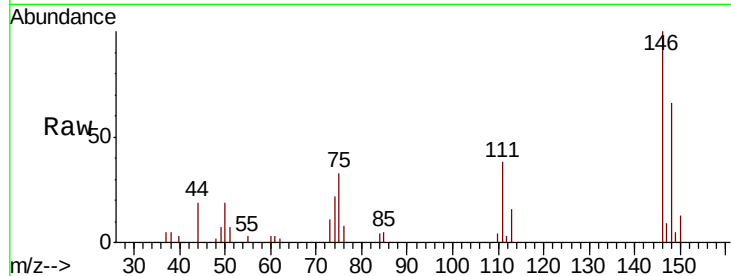
#64
 1,3-Dichlorobenzene
 Concen: 2.291 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	27.3	50.7
148	66.3	45.2	84.0

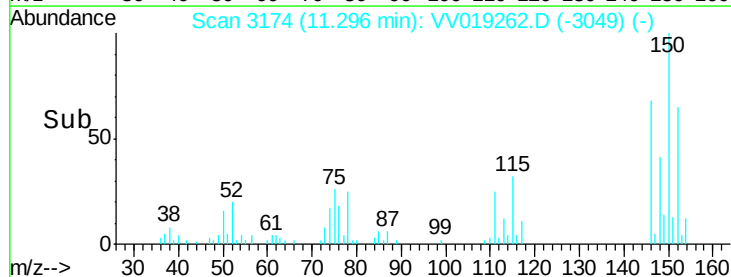
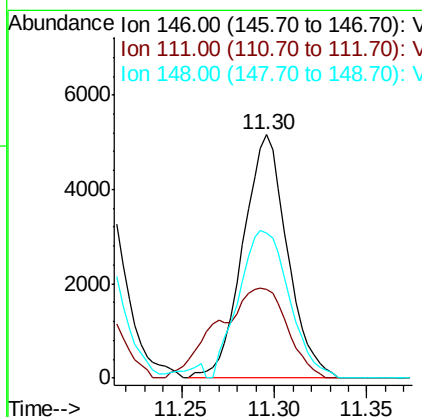
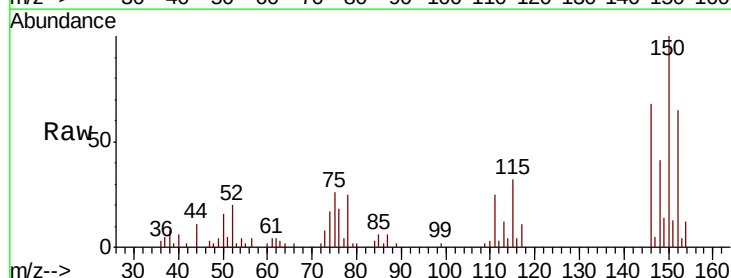
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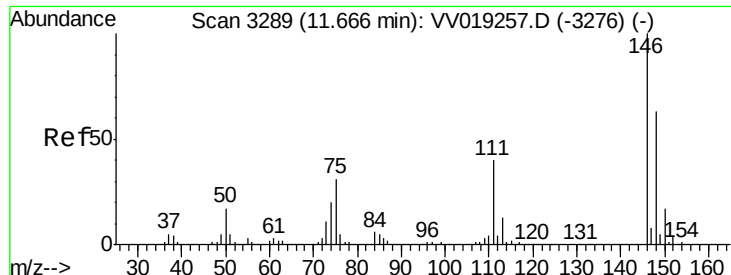
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#65
 1,4-Dichlorobenzene
 Concen: 2.499 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	25.9	48.1
148	59.6	44.9	83.5





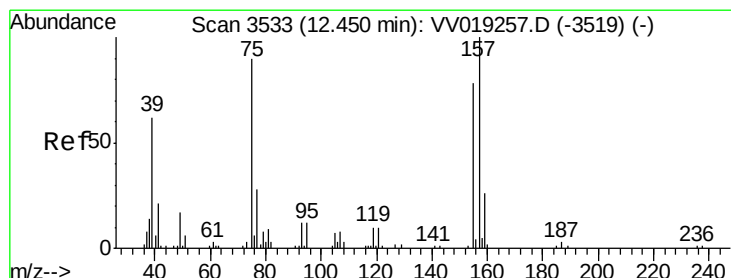
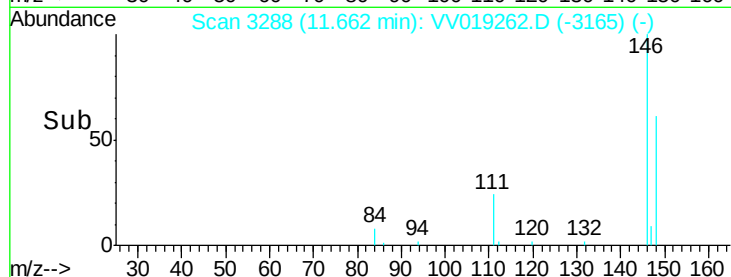
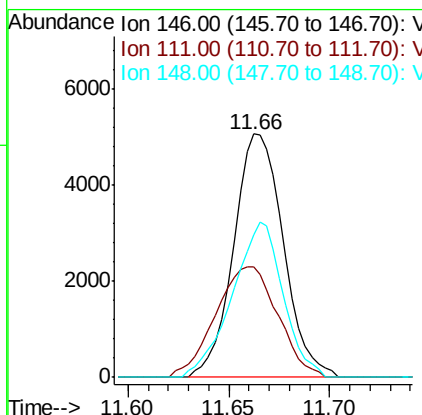
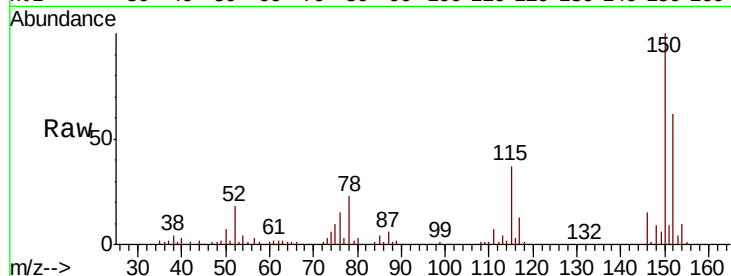
#67
 1,2-Dichlorobenzene
 Concen: 2.573 ug/L
 RT: 11.66 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	32.6	48.8
148	58.3	50.1	75.1

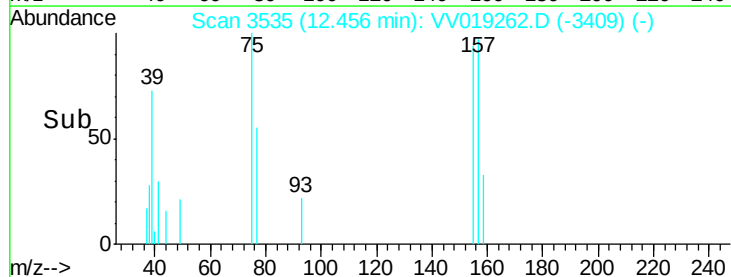
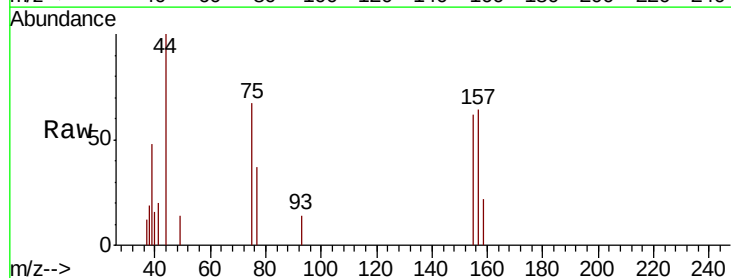
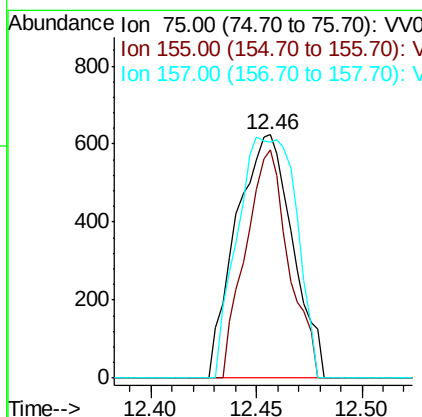
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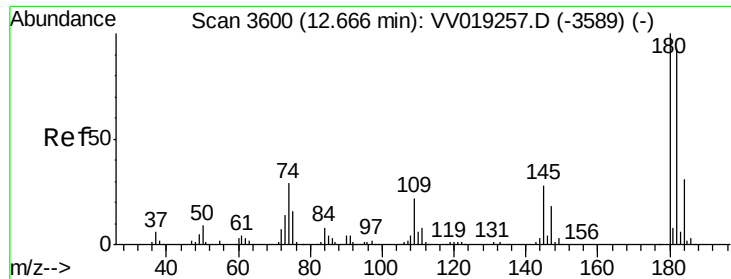
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.108 ug/L
 RT: 12.46 min Scan# 3535
 Delta R.T. 0.01 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.9	65.8	98.6
157	97.0	86.3	129.5





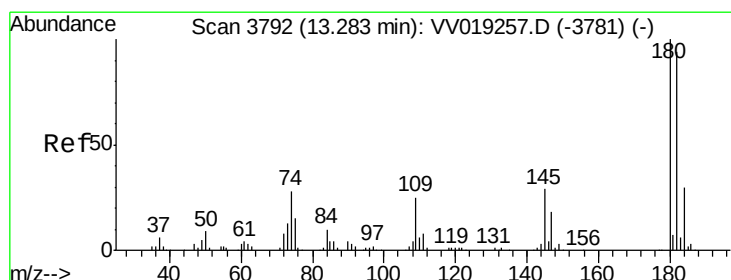
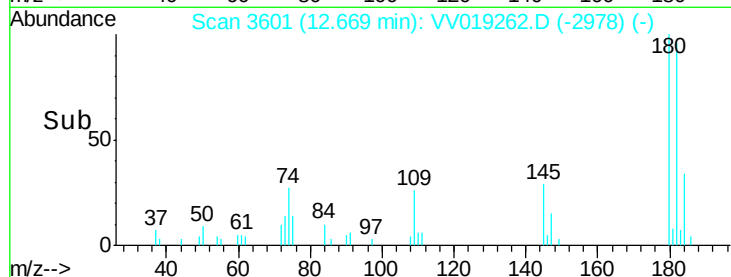
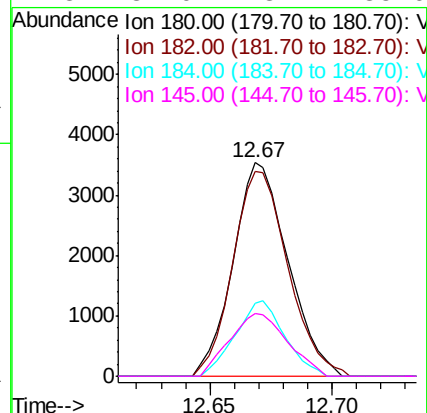
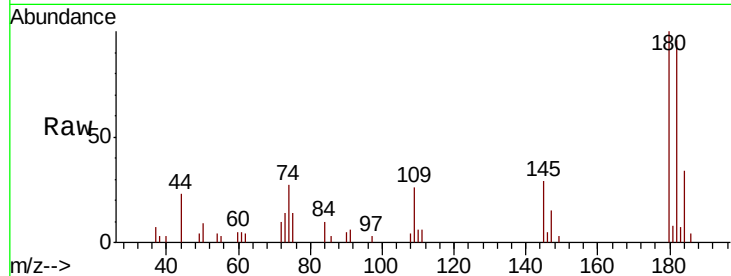
#69
 1,3,5-Trichlorobenzene
 Concen: 2.312 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.7	116.5
184	31.8	24.9	37.3
145	31.0	23.4	35.0

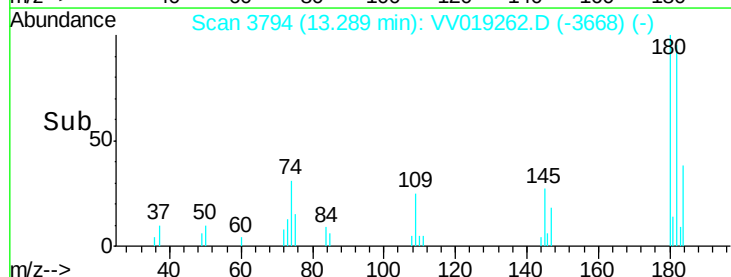
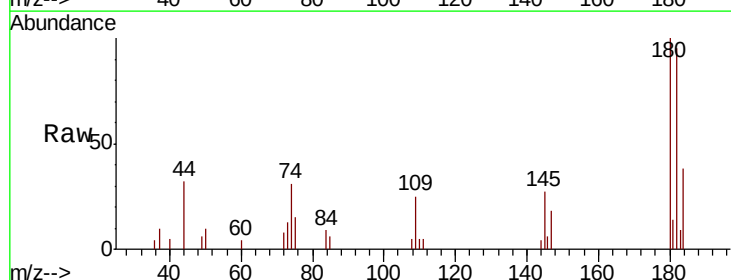
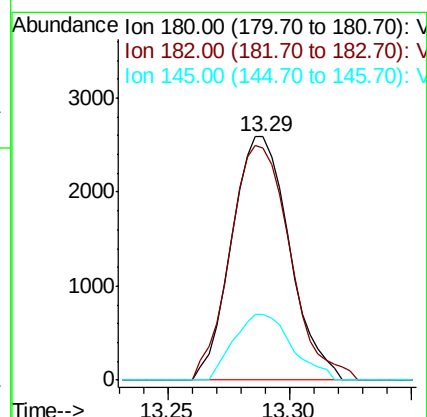
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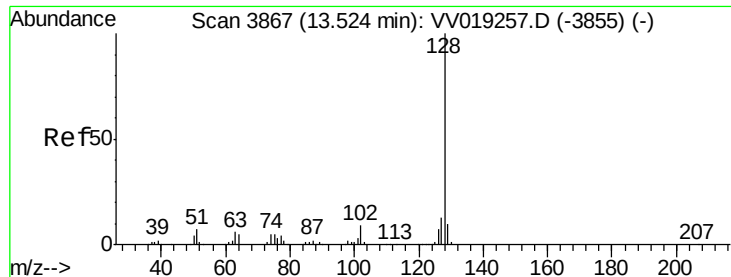
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#70
 1,2,4-trichlorobenzene
 Concen: 1.900 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019262.D
 Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.5	76.6	114.8
145	27.2	23.2	34.8





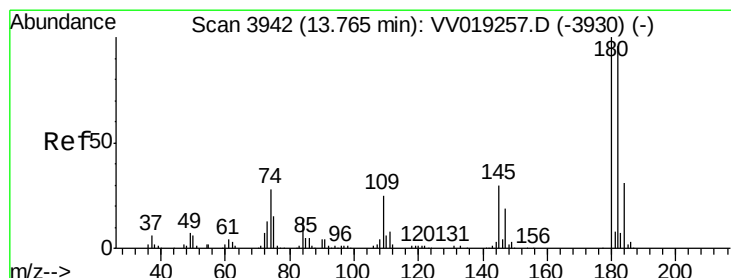
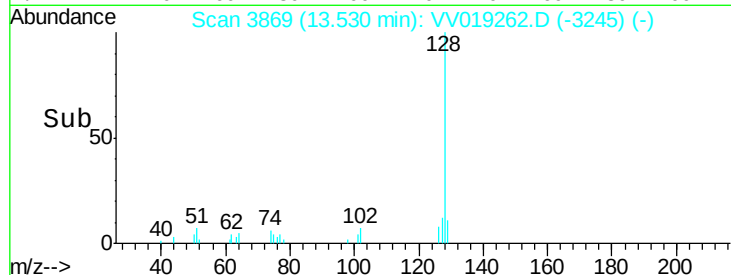
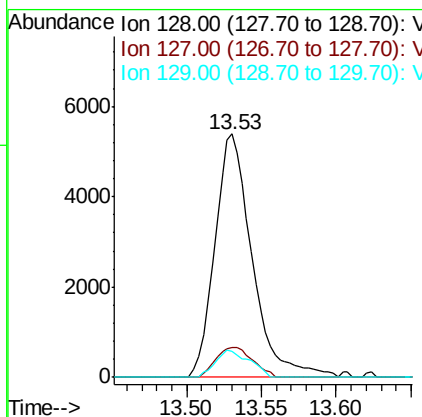
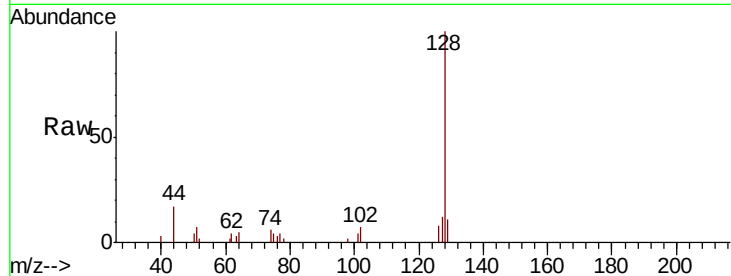
#71
Naphthalene
Concen: 1.475 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.7	16.1
129	10.2	8.6	13.0

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#72
1,2,3-Trichlorobenzene
Concen: 2.031 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019262.D
Acq: 04 Nov 2020 23:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	77.4	116.0
145	25.9	24.7	37.1

