

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\
 Data File : VV019142.D
 Acq On : 28 Oct 2020 18:45
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 10/29/2020 2:58:38 PM

Quant Time: Oct 29 07:44:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 03:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	213420	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	205691	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	104221	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	71526	36.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.78%
7) Chloroethane-d5	1.58	69	63234	40.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.04%
11) 1,1-Dichloroethene-d2	2.12	63	119269	32.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.70%
21) 2-Butanone-d5	3.92	46	113123	86.76	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.76%
24) Chloroform-d	4.38	84	156011	46.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.02%
26) 1,2-Dichloroethane-d4	5.06	65	114798	50.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.70%
32) Benzene-d6	5.07	84	290485	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.34%
36) 1,2-Dichloropropane-d6	6.09	67	88969	43.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.30%
41) Toluene-d8	7.34	98	261212	46.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.86%
43) trans-1,3-Dichloropropene-	7.64	79	47505	45.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.98%
47) 2-Hexanone-d5	8.11	63	80351	90.67	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.67%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	118887	43.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.66%
64) 1,2-Dichlorobenzene-d4	11.65	152	110957	50.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4065	2.445 ug/L	100
3) Chloromethane	1.25	50	4227	2.045 ug/L	98
5) Vinyl chloride	1.32	62	4437	2.179 ug/L #	62
6) Bromomethane	1.53	94	2903	2.491 ug/L	98
8) Chloroethane	1.60	64	3161	2.475 ug/L	94
9) Trichlorofluoromethane	1.77	101	7010	2.617 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4134	2.902 ug/L	88
12) 1,1-Dichloroethene	2.13	96	4451	3.123 ug/L #	1
13) Acetone	2.20	43	4895	5.539 ug/L	80
14) Carbon disulfide	2.31	76	10186	2.167 ug/L	100
15) Methyl Acetate	2.46	43	4081	2.197 ug/L #	87
16) Methylene chloride	2.52	84	4499	2.708 ug/L	84
17) trans-1,2-Dichloroethene	2.78	96	4056	2.693 ug/L	85
18) Methyl tert-butyl Ether	2.78	73	12561	2.571 ug/L	95
19) 1,1-Dichloroethane	3.22	63	7443	2.447 ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	4361	2.707 ug/L	85
22) 2-Butanone	4.04	43	4312m	3.559 ug/L	

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 APPROVED

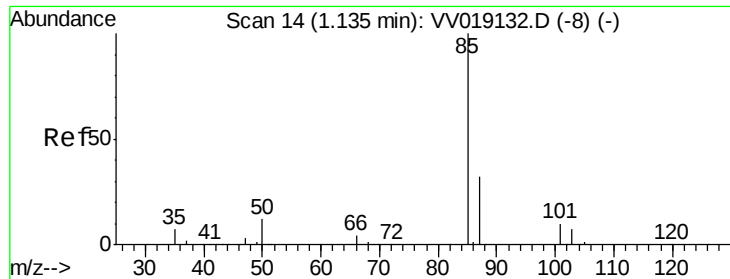
MMDadoda
 10/29/2020 2:58:38 PM

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.29	128	2304	2.810	ug/L #	84
25) Chloroform	4.40	83	8840	2.951	ug/L	98
27) 1,2-Dichloroethane	5.17	62	7266	2.922	ug/L	98
29) Cyclohexane	4.70	56	5035	2.045	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	7141	2.788	ug/L	98
31) Carbon tetrachloride	4.86	117	5933	2.657	ug/L	96
33) Benzene	5.13	78	15828	2.514	ug/L	100
34) Trichloroethene	5.95	95	4112	2.584	ug/L	83
35) Methylcyclohexane	6.16	83	4423	2.032	ug/L	97
37) 1,2-Dichloropropane	6.20	63	3608	2.081	ug/L #	92
38) Bromodichloromethane	6.54	83	5872	2.677	ug/L	90
39) cis-1,3-Dichloropropene	7.05	75	6203	2.421	ug/L	91
40) 4-Methyl-2-pentanone	7.25	43	10150	4.340	ug/L	96
42) Toluene	7.41	91	15720	2.432	ug/L	99
44) trans-1,3-Dichloropropene	7.68	75	6809	2.679	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	3972	2.594	ug/L	93
46) Tetrachloroethene	8.00	164	3356	2.748	ug/L	96
48) 2-Hexanone	8.17	43	9006	4.990	ug/L	97
49) Dibromochloromethane	8.27	129	4886	2.920	ug/L	100
50) 1,2-Dibromoethane	8.38	107	4201	2.644	ug/L #	95
51) Chlorobenzene	8.90	112	11483	2.770	ug/L	98
52) Ethylbenzene	9.04	91	16562	2.370	ug/L	99
53) m,p-Xylene	9.16	106	6032	2.358	ug/L	97
54) o-xylene	9.57	106	6137	2.491	ug/L	90
55) Styrene	9.59	104	10807	2.473	ug/L	85
56) Isopropylbenzene	9.95	105	14507	2.240	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	6446	2.559	ug/L #	96
59) 1,2,3-Trichloropropane	10.30	75	5758	2.841	ug/L	96
61) Bromoform	9.76	173	3245	2.765	ug/L	95
62) 1,3-Dichlorobenzene	11.21	146	8641	2.763	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	9566	2.927	ug/L	95
65) 1,2-Dichlorobenzene	11.67	146	9174	2.909	ug/L #	91
66) 1,2-Dibromo-3-chloropropan	12.45	75	1460	2.621	ug/L	94
67) 1,3,5-Trichlorobenzene	12.67	180	6333	2.965	ug/L	98
68) 1,2,4-trichlorobenzene	13.29	180	5787	2.874	ug/L	96
69) Naphthalene	13.53	128	13989	2.254	ug/L	97
70) 1,2,3-Trichlorobenzene	13.77	180	5403	2.648	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.445 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tot Ion: 85 Resp: 4065

Ion Ratio Lower Upper

85 100

87 31.9 25.5 38.3

Instrument :

MSVOA_V

ClientSampled :

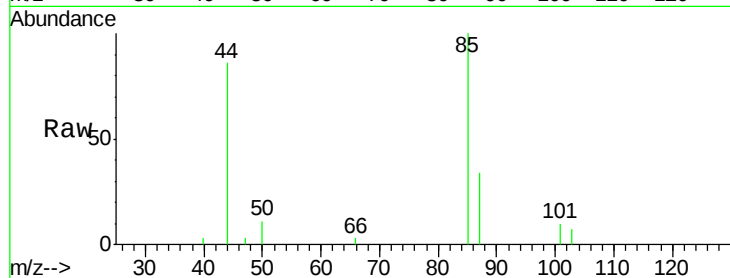
MDL07

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

4000

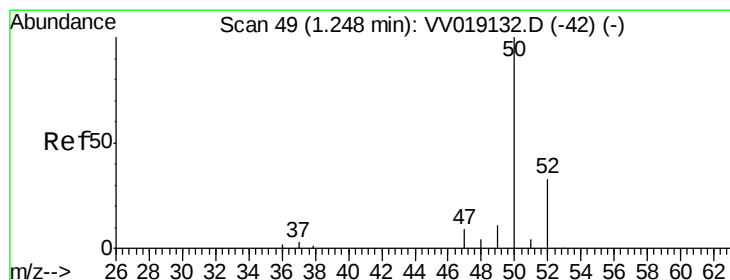
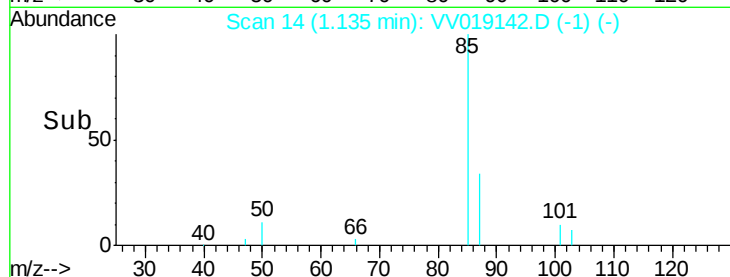
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 2.045 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019142.D

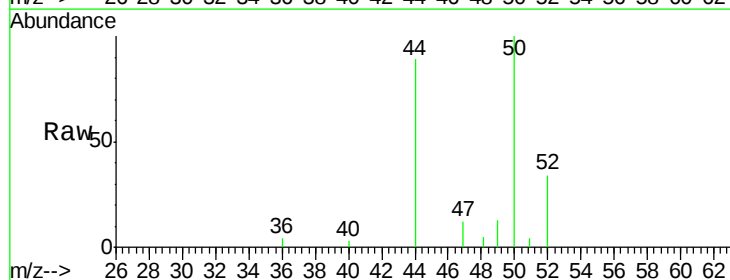
Acq: 28 Oct 2020 18:45

Tgt Ion: 50 Resp: 4227

Ion Ratio Lower Upper

50 100

52 33.7 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

4000

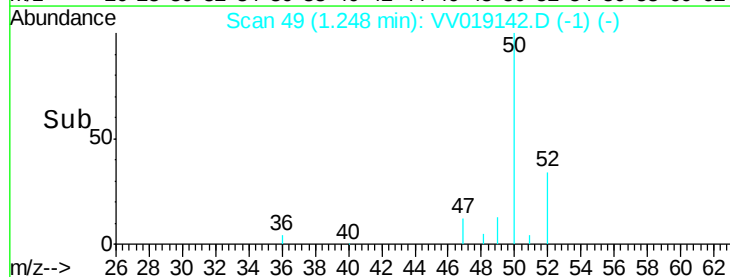
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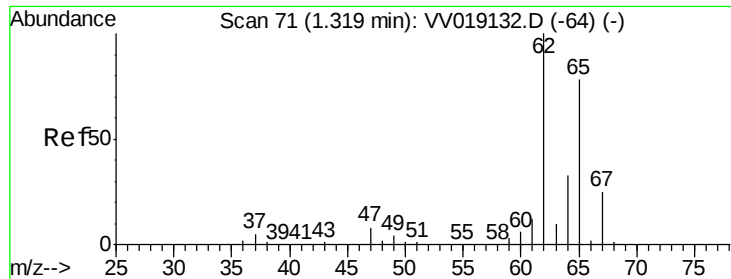
2000

1000

0

Time-->





#5

Vinyl chloride

Concen: 2.179 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampled :

MDL07

Tot Ion: 62 Resp: 4437

Ion Ratio Lower Upper

62 100

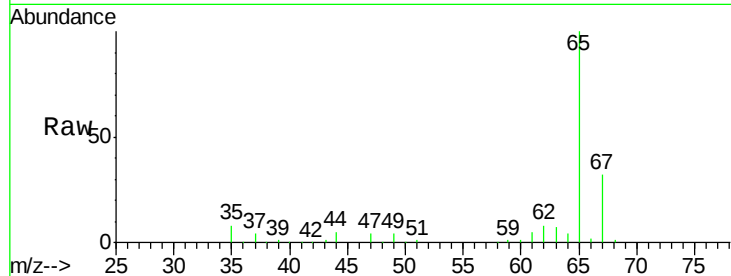
64 53.9 22.9 42.5#

Manual Integrations

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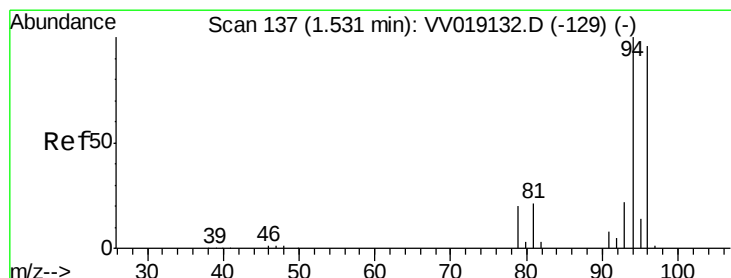
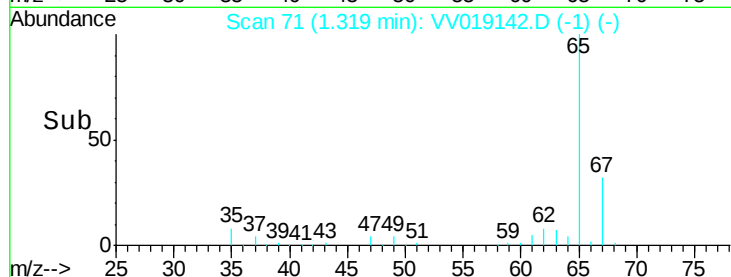
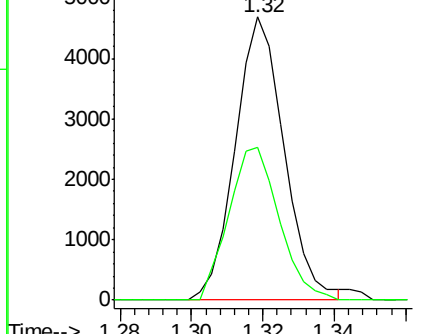
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.491 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019142.D

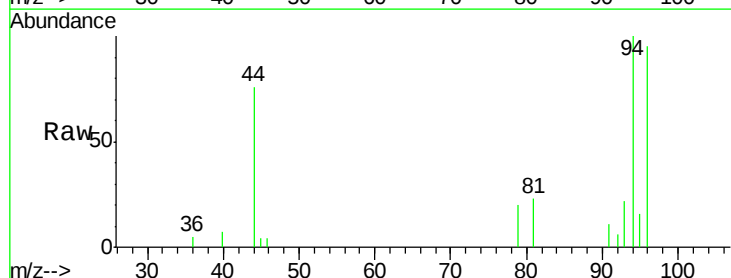
Acq: 28 Oct 2020 18:45

Tgt Ion: 94 Resp: 2903

Ion Ratio Lower Upper

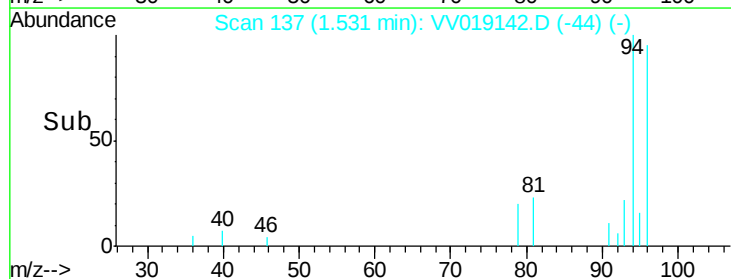
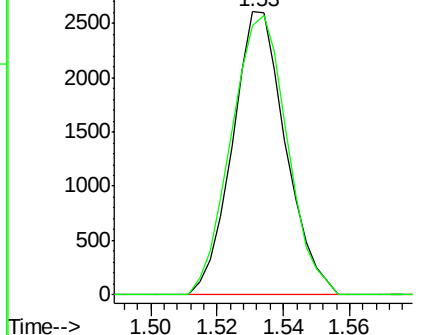
94 100

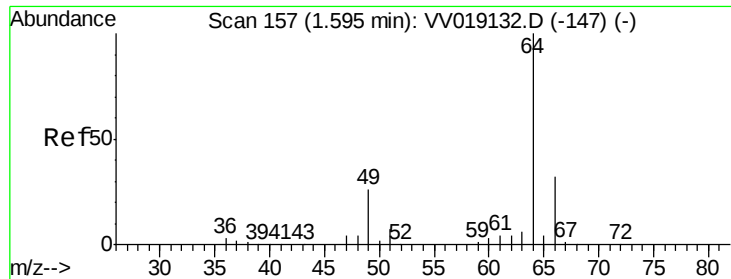
96 94.9 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





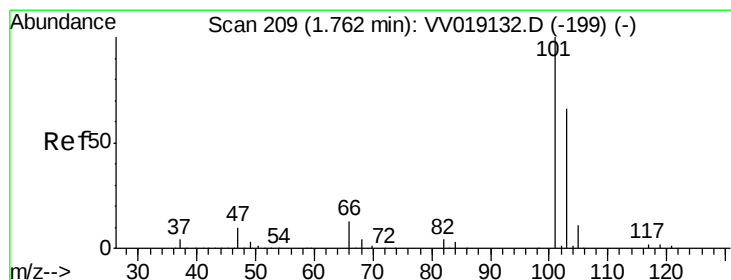
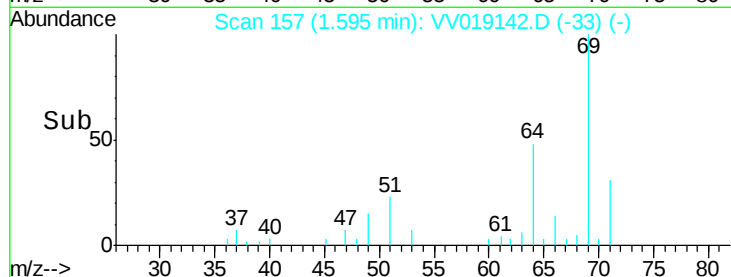
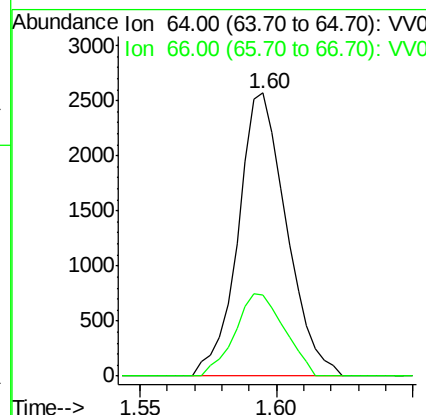
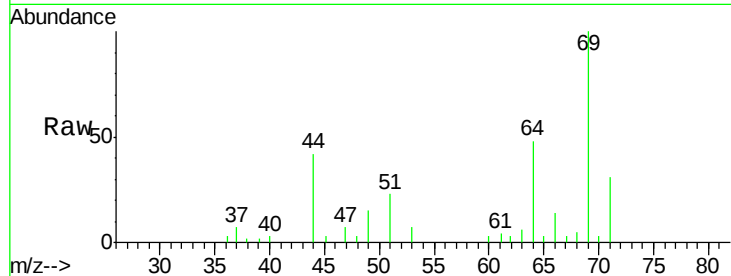
#8
Chloroethane
Concen: 2.475 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
64	100		
66	28.7	22.5	41.9

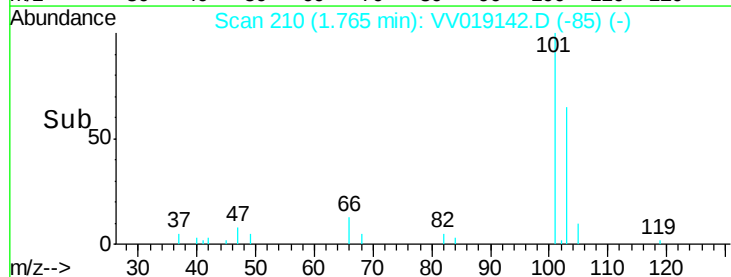
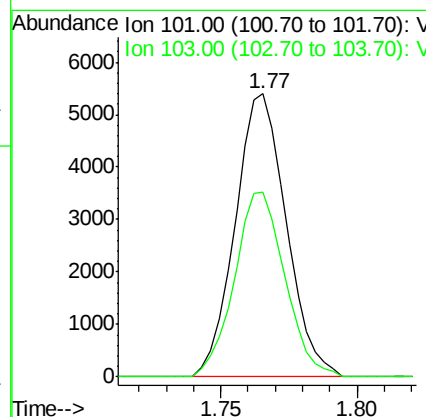
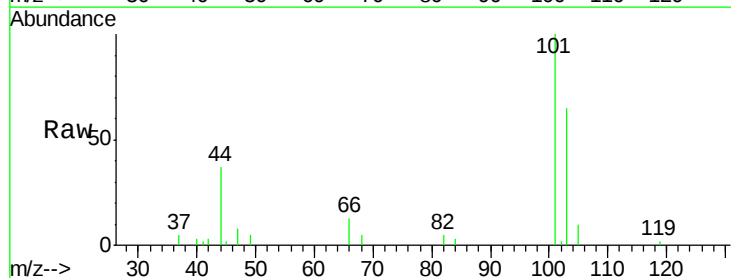
Manual Integrations
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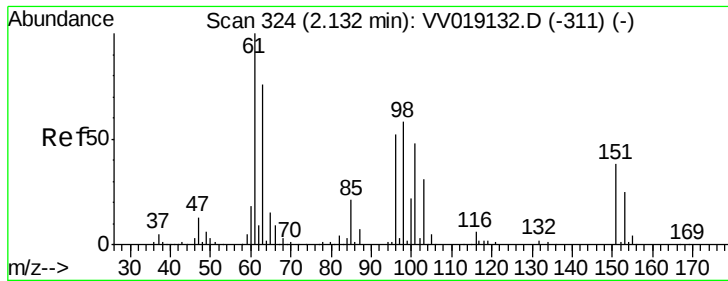
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#9
Trichlorofluoromethane
Concen: 2.617 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.7	77.5





#10

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

Concen: 2.902 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

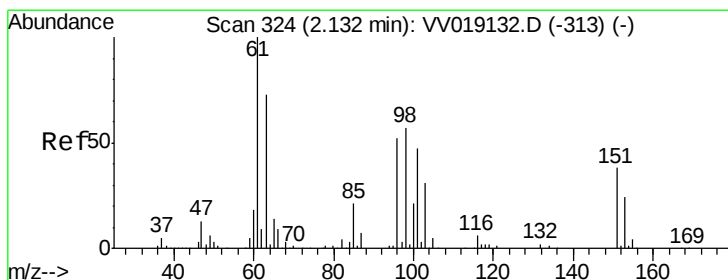
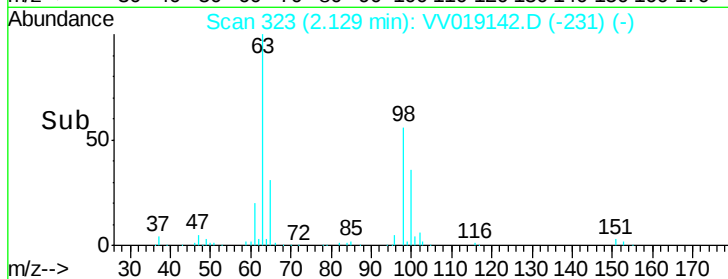
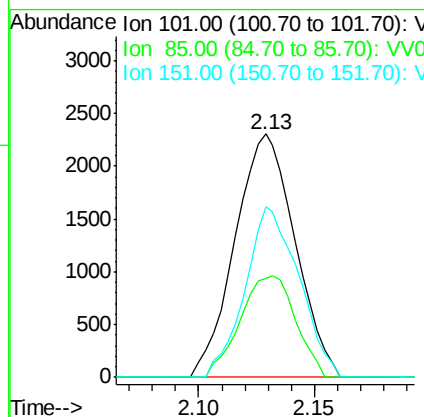
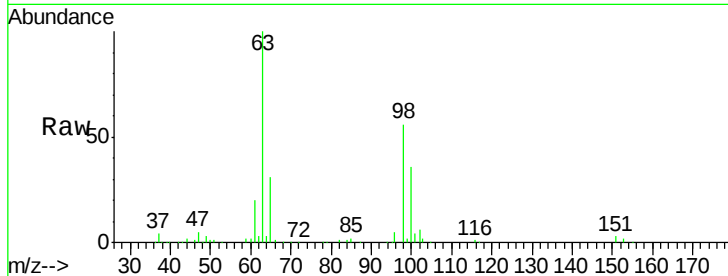
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	4134
Ion Ratio	Lower	Upper	
101	100		
85	38.6	36.9	55.3
151	62.7	58.2	87.2

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#12

1,1-Dichloroethene

Concen: 3.123 ug/L

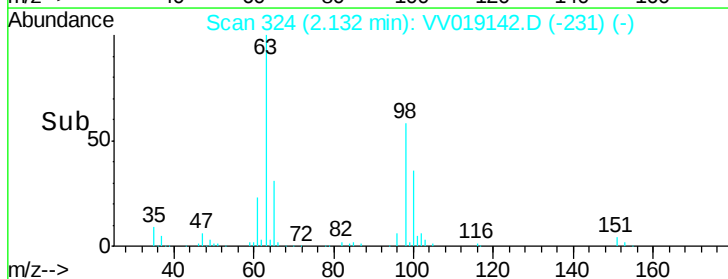
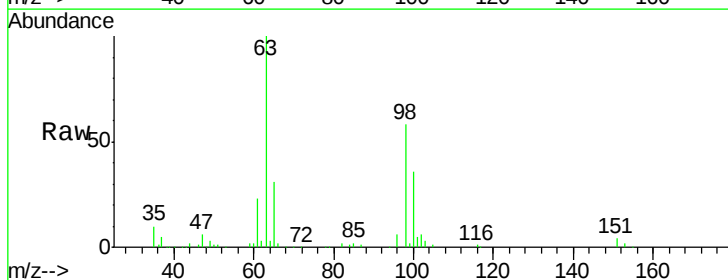
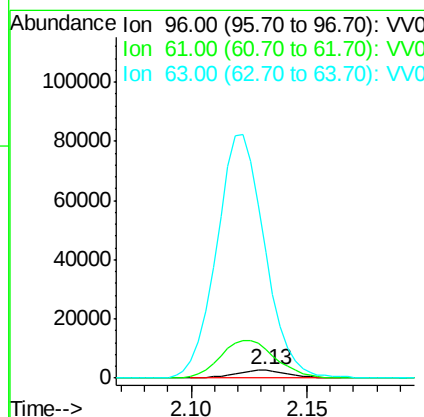
RT: 2.13 min Scan# 324

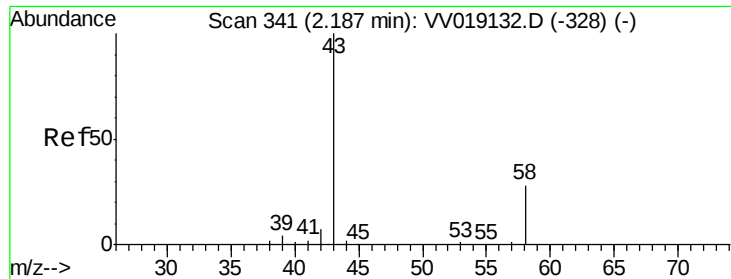
Delta R.T. -0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion:	96	Resp:	4451
Ion Ratio	Lower	Upper	
96	100		
61	351.9	138.7	257.7#
63	1548.3	126.3	234.6#





#13

Acetone

Concen: 5.539 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.02 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tot Ion: 43 Resp: 4895

Ion Ratio Lower Upper

43 100

58 19.2 0.0 60.2

Instrument :

MSVOA_V

ClientSampleId :

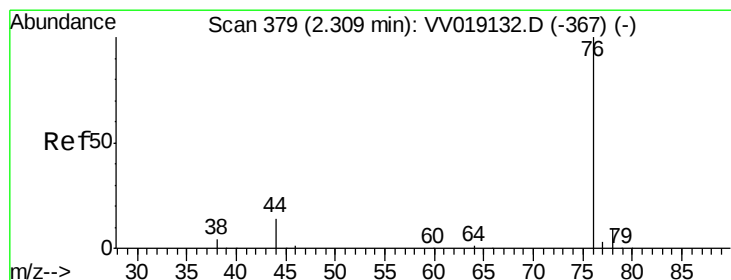
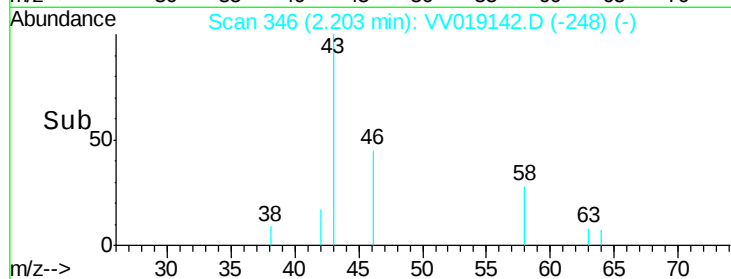
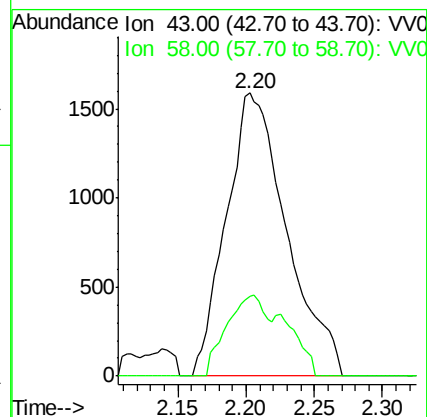
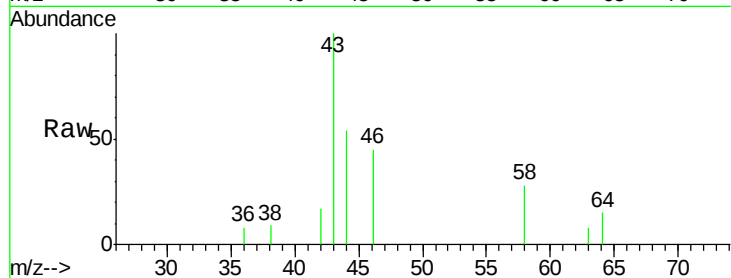
MDL07

Manual Integrations

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#14

Carbon disulfide

Concen: 2.167 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019142.D

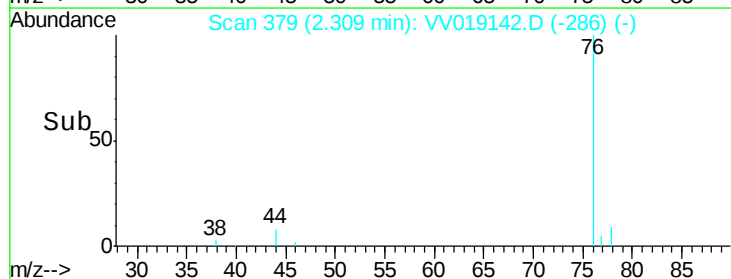
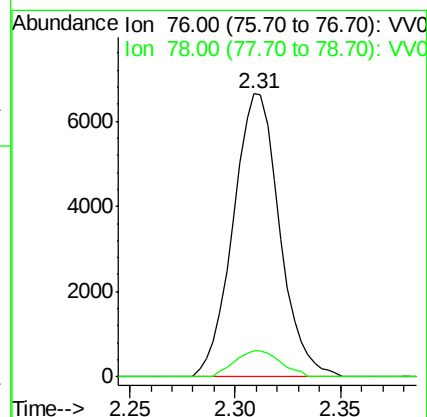
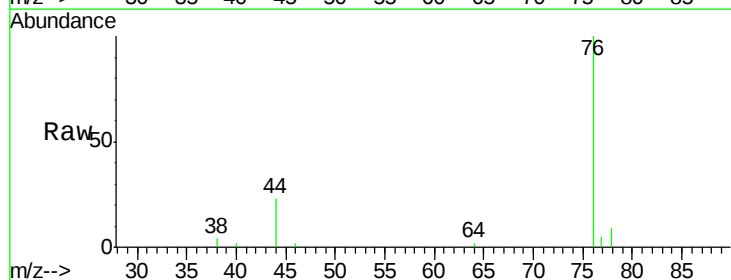
Acq: 28 Oct 2020 18:45

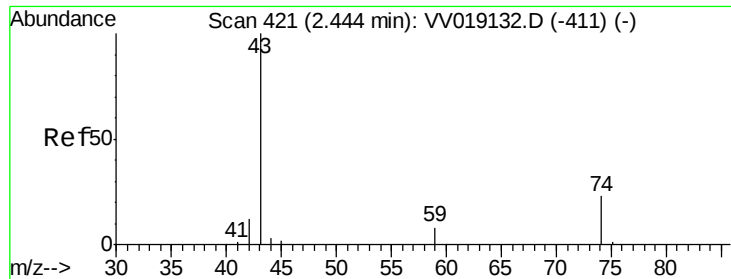
Tgt Ion: 76 Resp: 10186

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0





#15

Methvl Acetate

Concen: 2.197 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.02 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4081

Ion Ratio Lower Upper

43 100

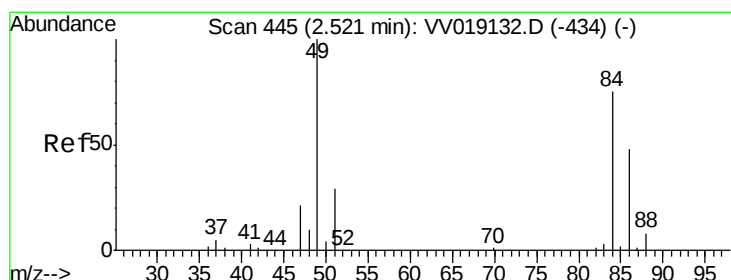
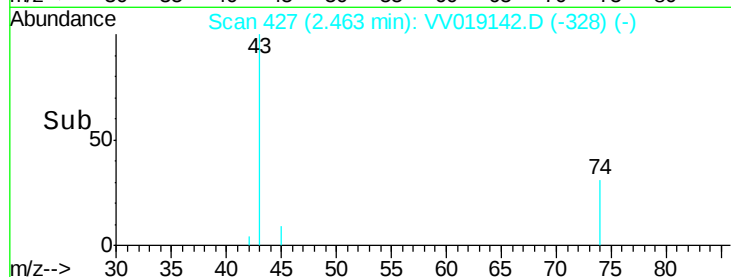
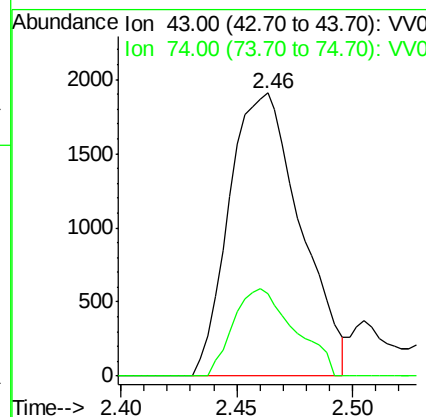
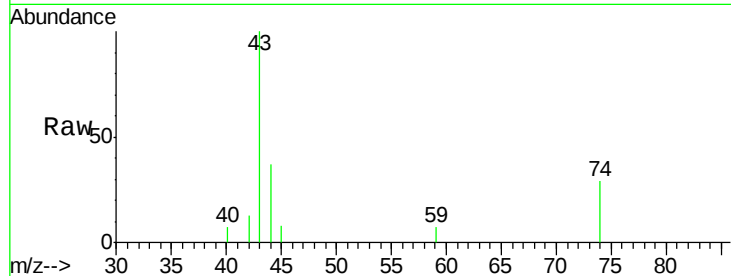
74 26.6 16.4 24.6#

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#16

Methylene chloride

Concen: 2.708 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

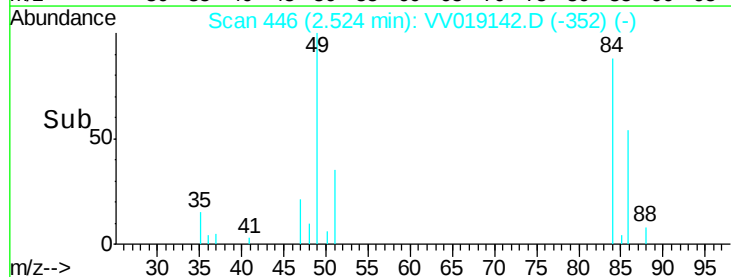
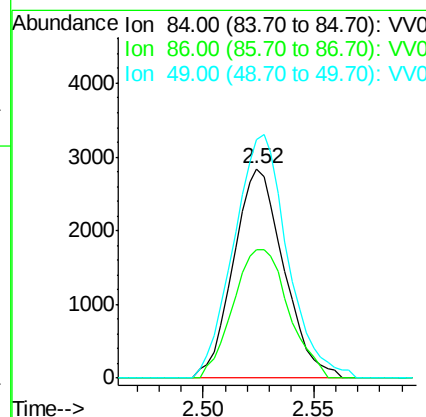
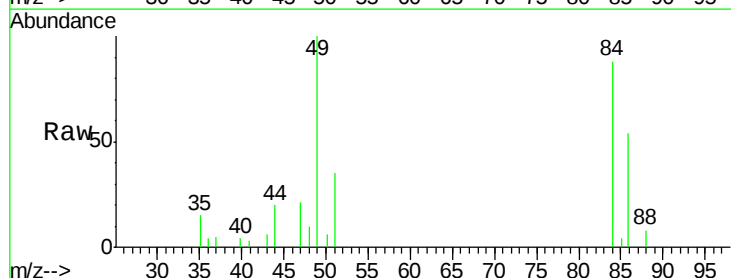
Tgt Ion: 84 Resp: 4499

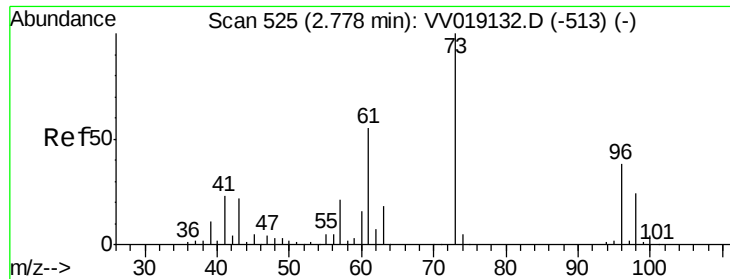
Ion Ratio Lower Upper

84 100

86 61.1 44.2 82.2

49 113.8 98.0 182.0





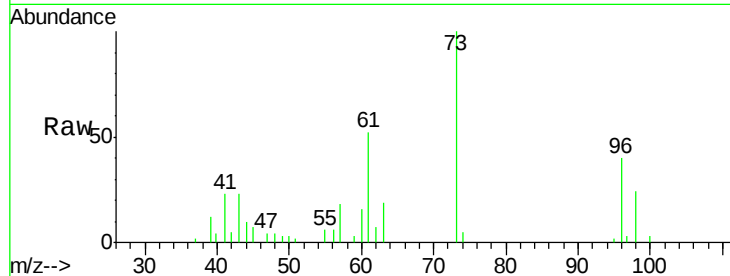
#17
trans-1,2-Dichloroethene
Concen: 2.693 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampled :
MDL07

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		4056		
61	130.8	108.6	201.8		
98	59.5	45.7	84.9		

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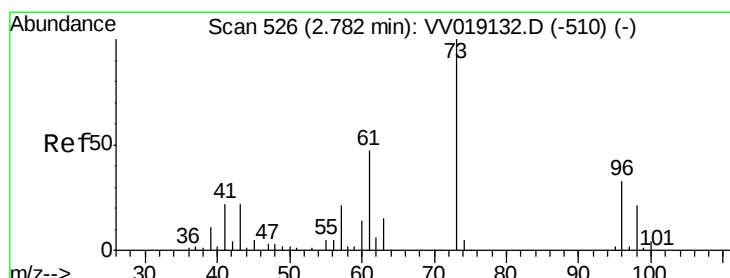
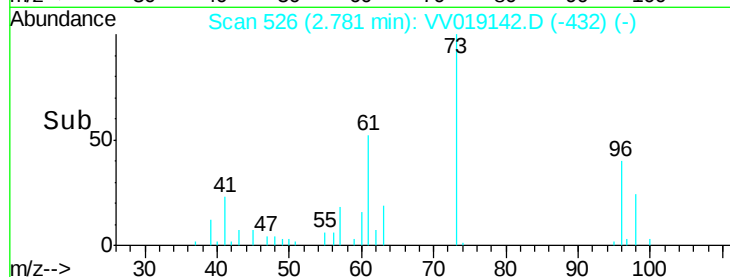
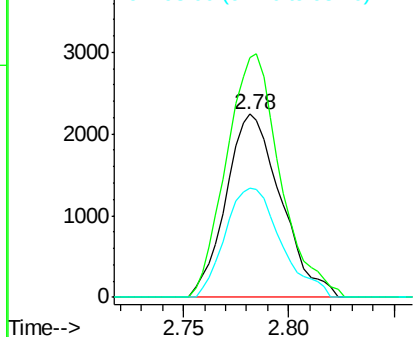


Abundance

Ion 96.00 (95.70 to 96.70): VV019142.D (-432) (-)

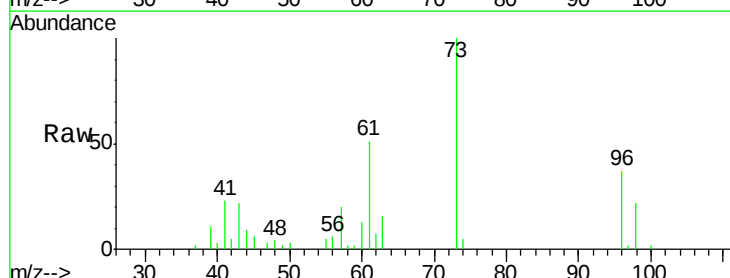
Ion 61.00 (60.70 to 61.70): VV019142.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019142.D (-432) (-)



#18
Methyl tert-butyl Ether
Concen: 2.571 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
73	100		12561		
43	24.2	17.2	25.8		
57	21.1	18.5	27.7		

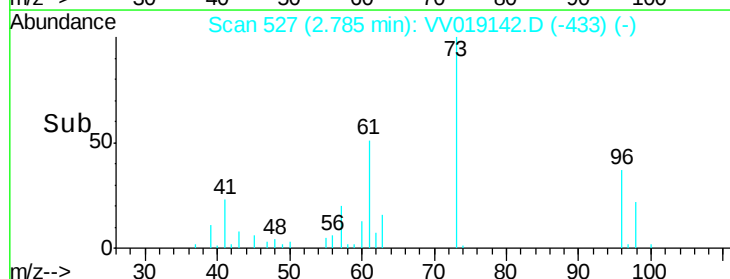
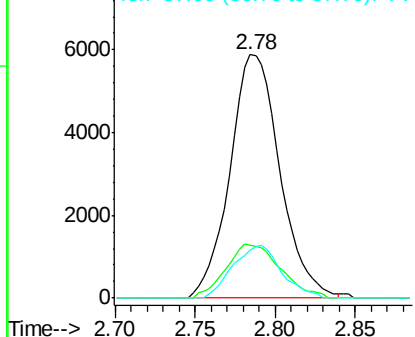


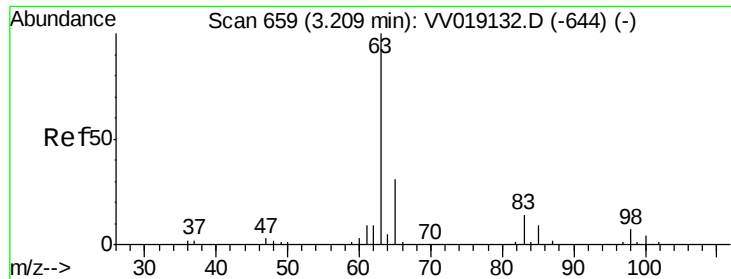
Abundance

Ion 73.00 (72.70 to 73.70): VV019142.D (-433) (-)

Ion 43.00 (42.70 to 43.70): VV019142.D (-433) (-)

Ion 57.00 (56.70 to 57.70): VV019142.D (-433) (-)





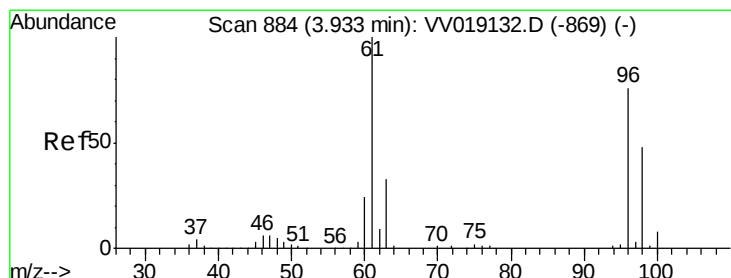
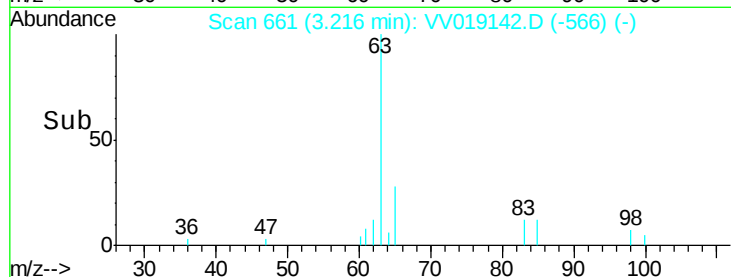
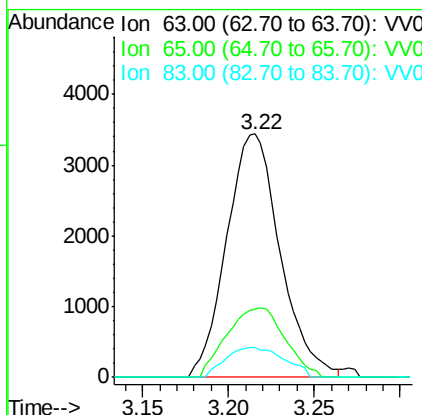
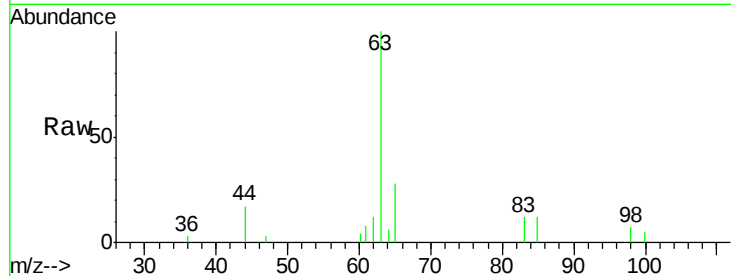
#19
 1,1-Dichloroethane
 Concen: 2.447 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.2	22.7	42.1
83	12.4	9.0	16.8

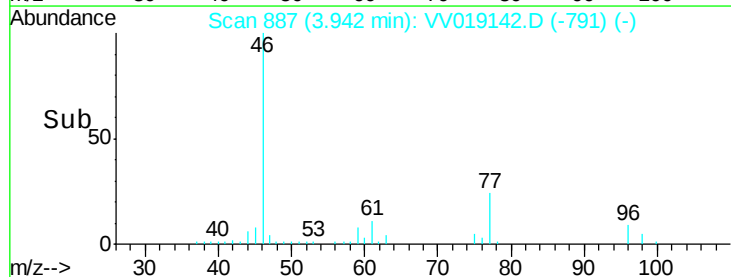
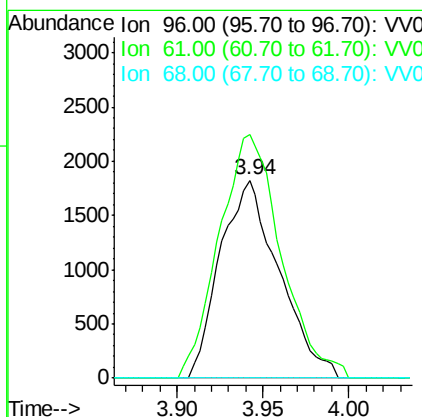
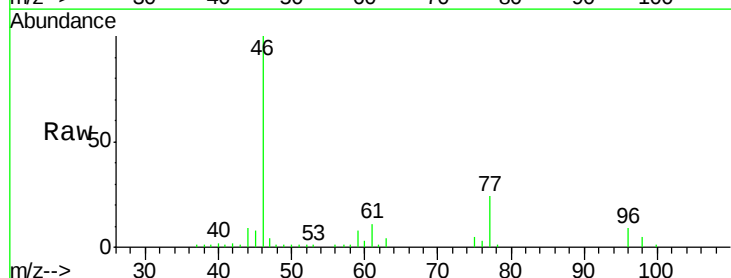
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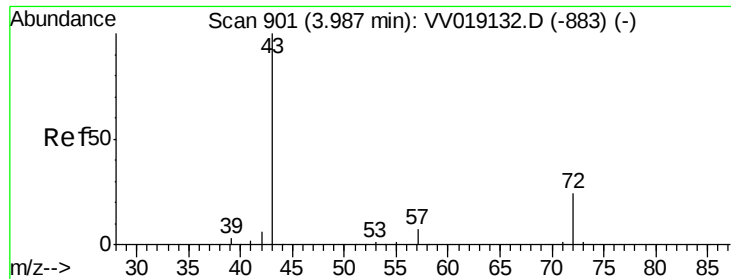
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.707 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.2	99.4	184.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.559 ug/L m

RT: 4.04 min Scan# 917

Delta R.T. 0.05 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4312

Ion Ratio Lower Upper

43 100

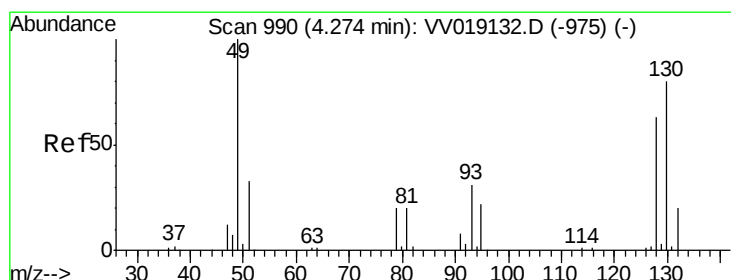
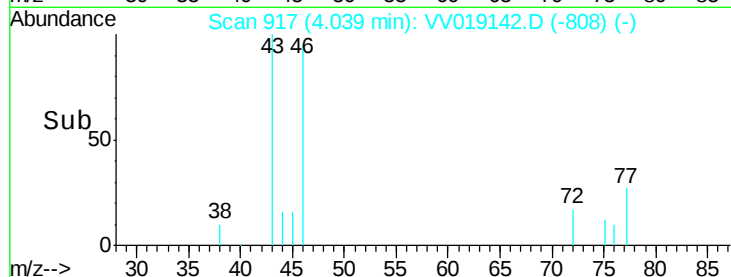
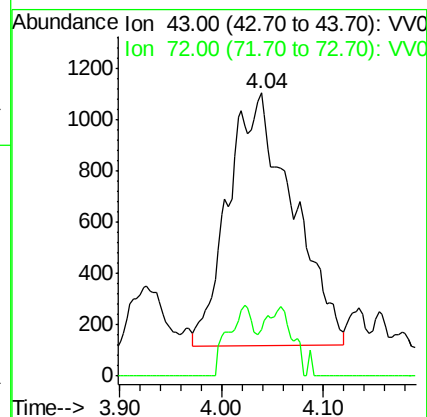
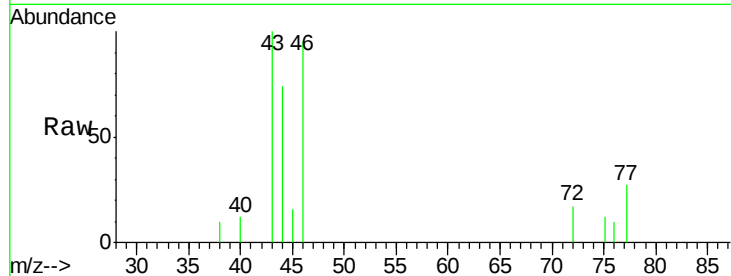
72 3.5 10.8 32.4#

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#23

Bromochloromethane

Concen: 2.810 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion: 128 Resp: 2304

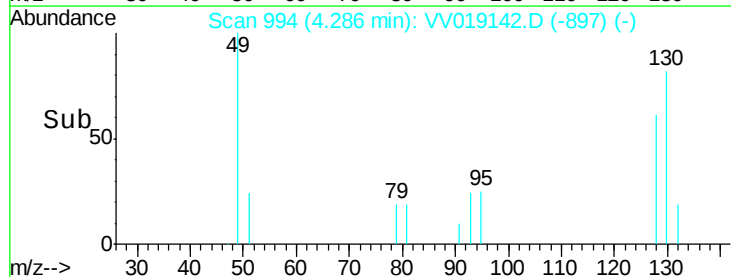
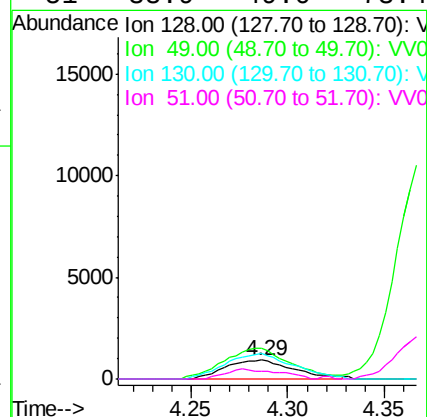
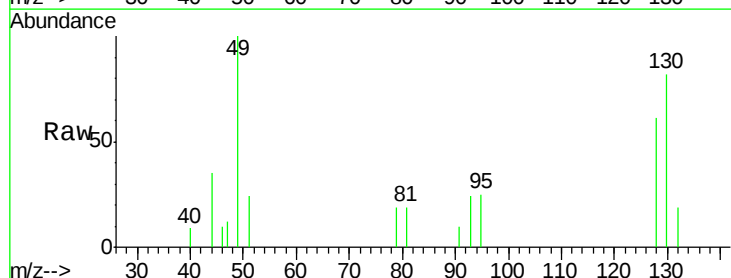
Ion Ratio Lower Upper

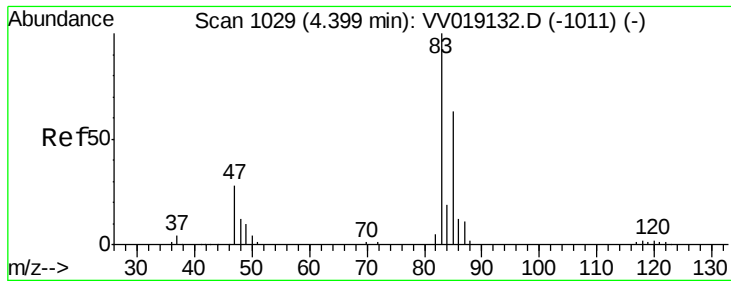
128 100

49 164.4 137.1 254.5

130 134.2 92.0 170.9

51 38.9 49.0 73.4#





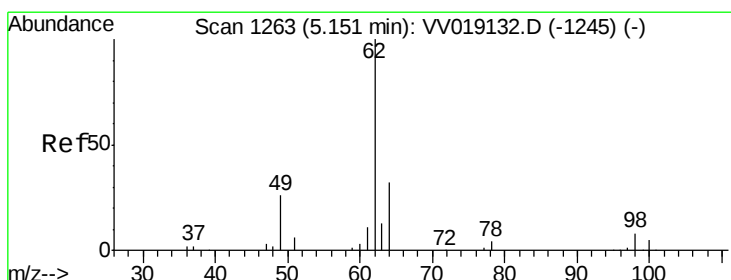
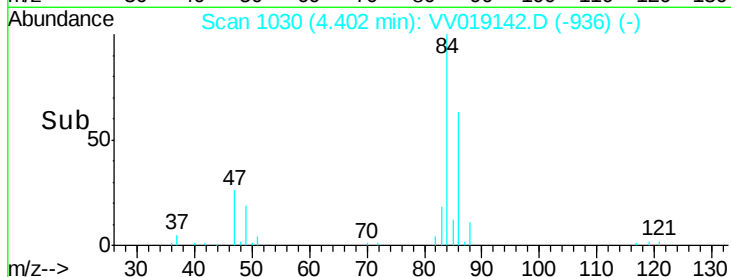
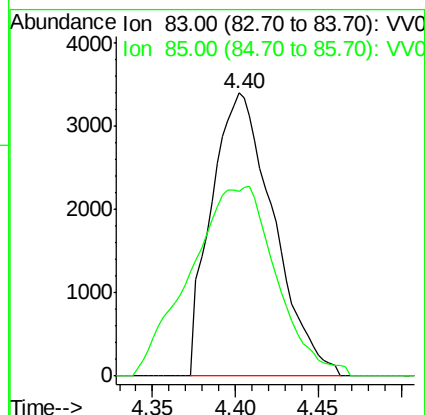
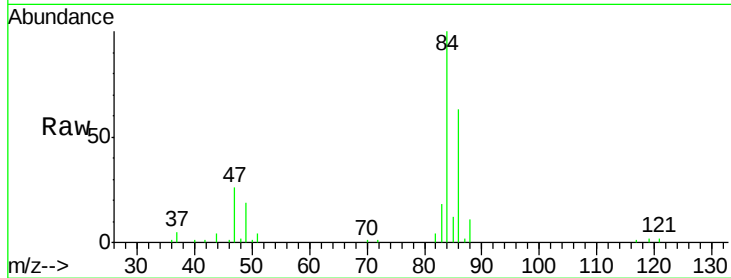
#25
Chloroform
Concen: 2.951 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion: 83 Resp: 8840
Ion Ratio Lower Upper
83 100
85 65.5 44.5 82.7

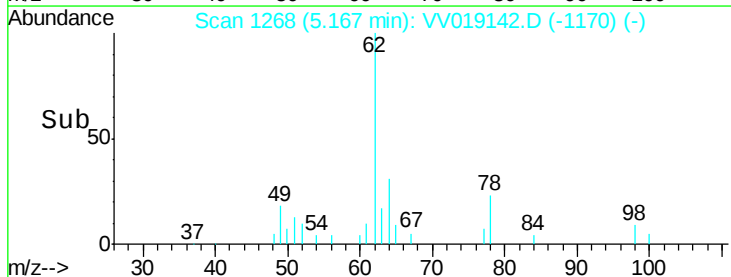
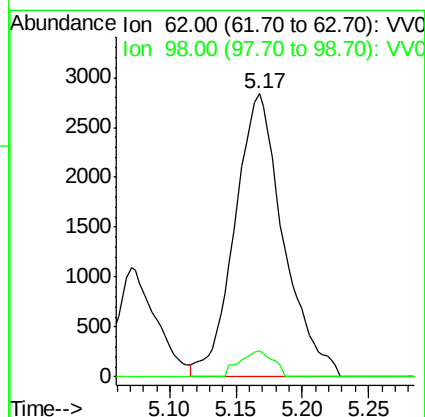
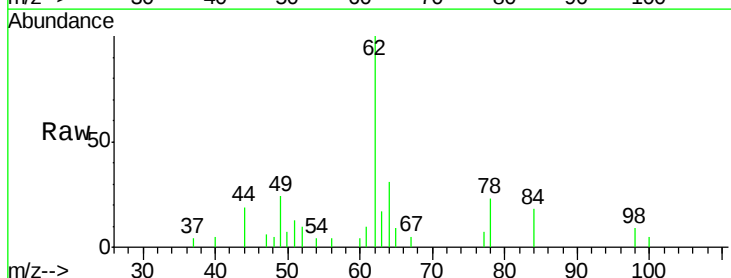
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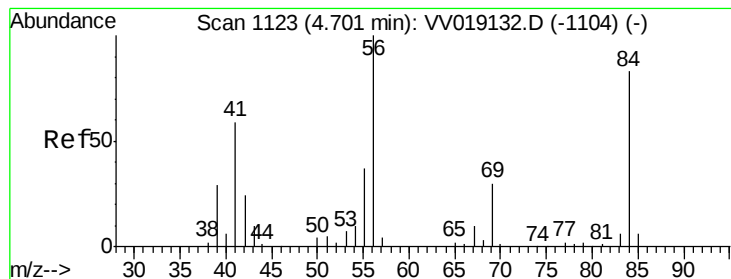
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.922 ug/L
RT: 5.17 min Scan# 1268
Delta R.T. 0.02 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion: 62 Resp: 7266
Ion Ratio Lower Upper
62 100
98 9.2 6.9 10.3





#29

Cyclohexane

Concen: 2.045 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

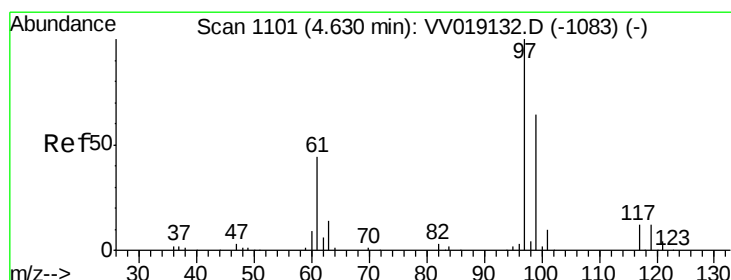
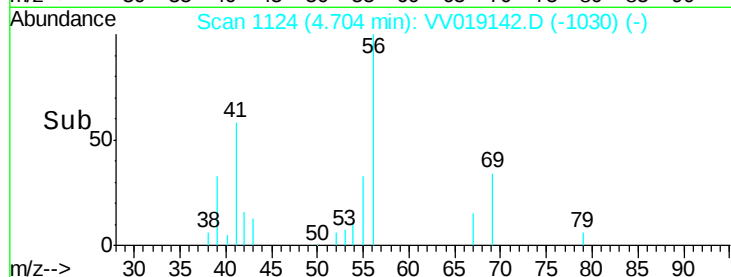
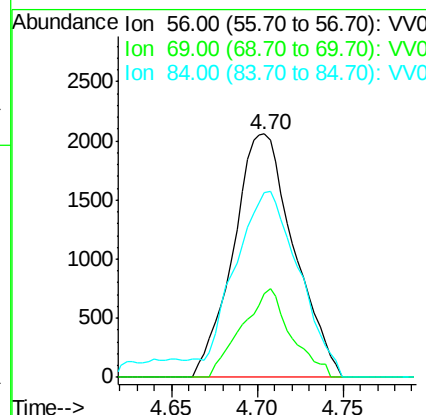
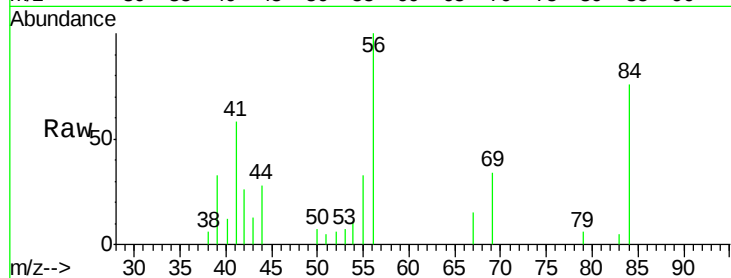
ClientSampled :

MDL07

Tot Ion:	56	Resp:	5035
Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.7	34.1
84	80.7	63.5	95.3

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#30

1,1,1-Trichloroethane

Concen: 2.788 ug/L

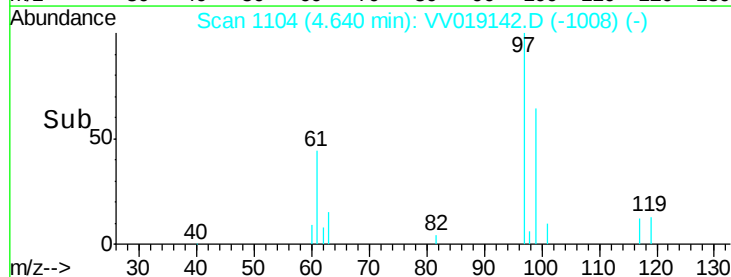
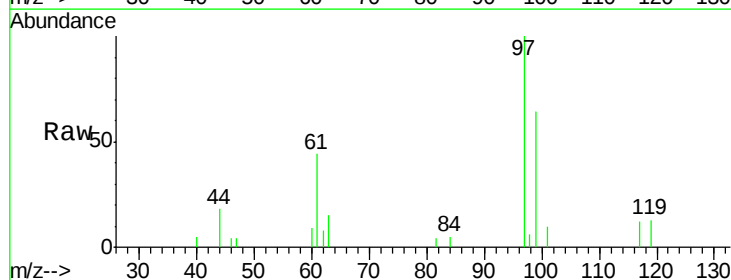
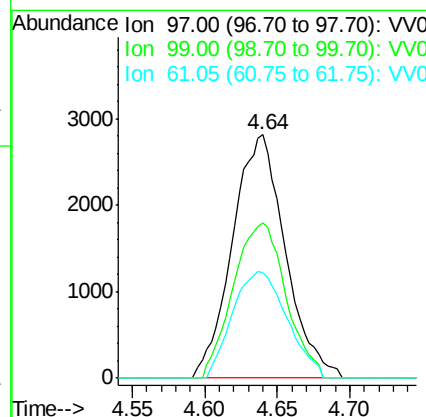
RT: 4.64 min Scan# 1104

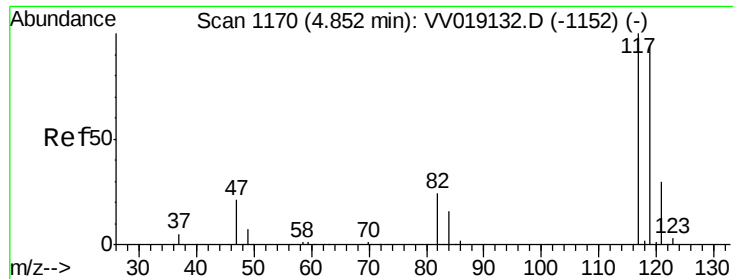
Delta R.T. 0.01 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion:	97	Resp:	7141
Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.5	75.7
61	45.0	38.1	57.1





#31

Carbon tetrachloride

Concen: 2.657 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion:117 Resp: 5933

Ion Ratio Lower Upper

117 100

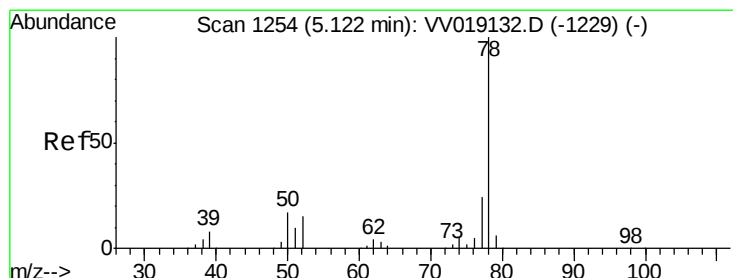
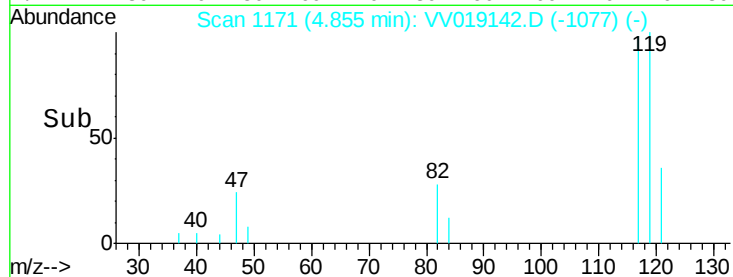
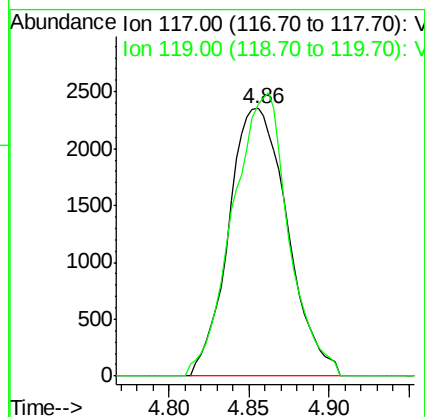
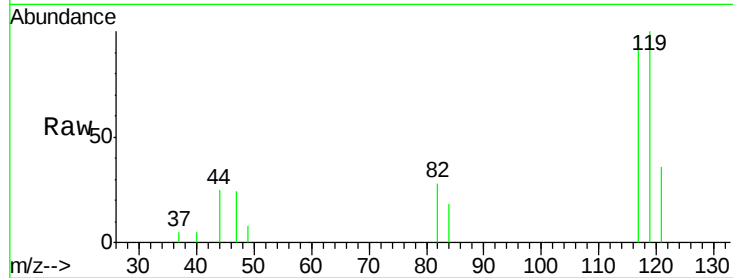
119 100.6 77.2 115.8

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#33

Benzene

Concen: 2.514 ug/L

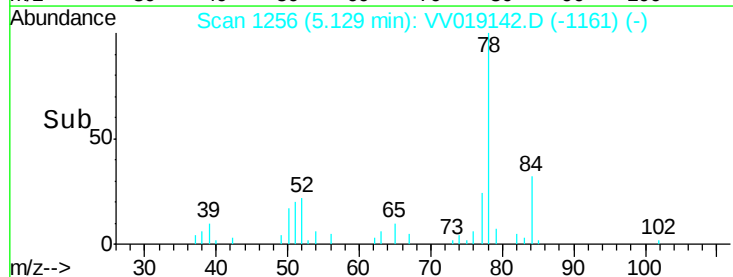
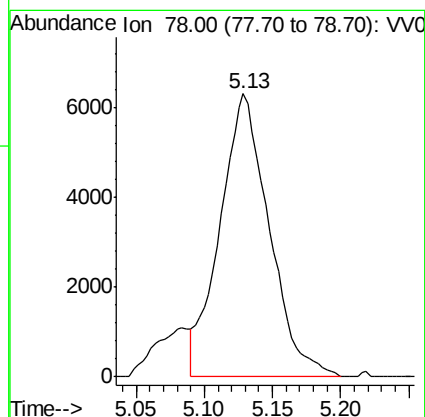
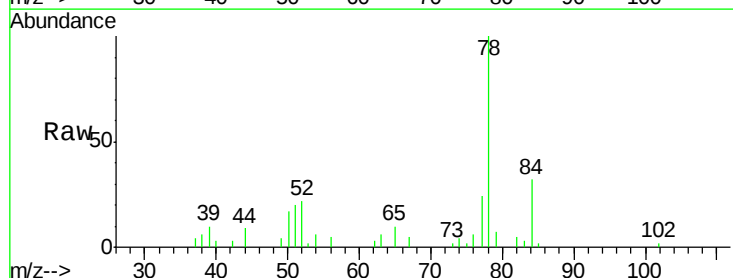
RT: 5.13 min Scan# 1256

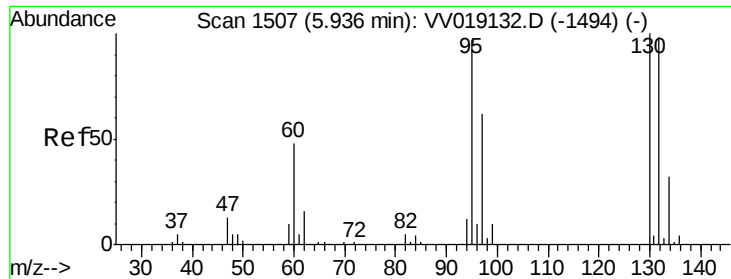
Delta R.T. 0.01 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion: 78 Resp: 15828





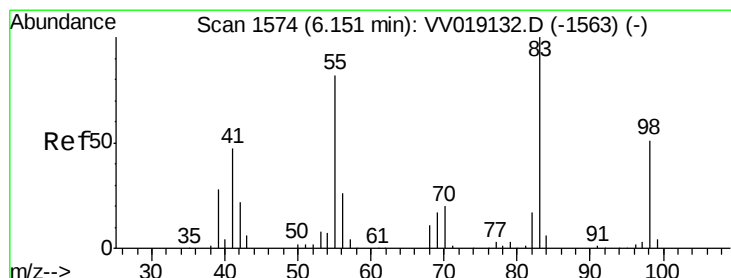
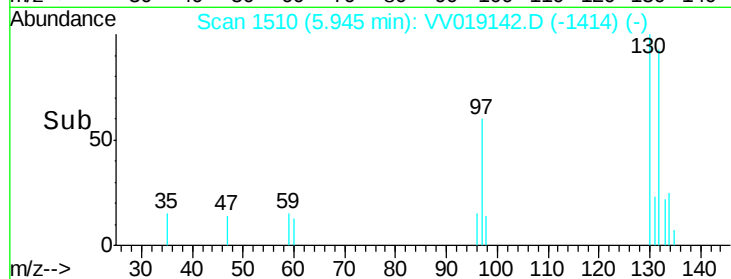
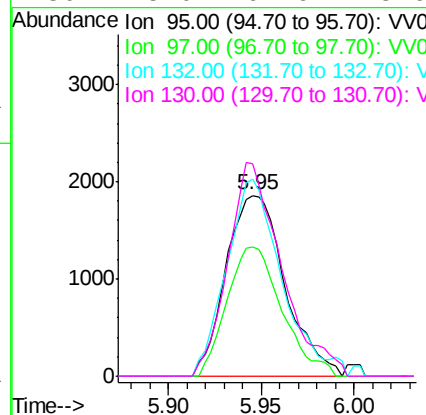
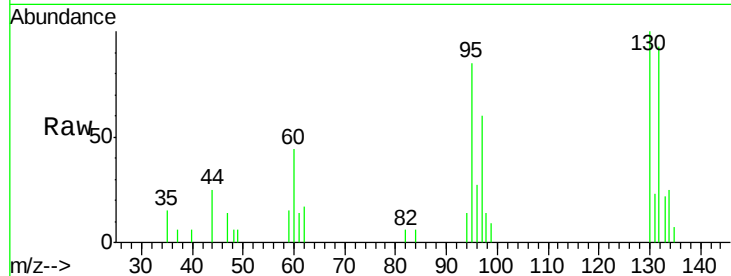
#34
 Trichloroethene
 Concen: 2.584 ug/L
 RT: 5.95 min Scan# 1510
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
95	100		
97	71.3	44.6	82.8
132	109.4	66.0	122.6
130	118.0	67.6	125.6

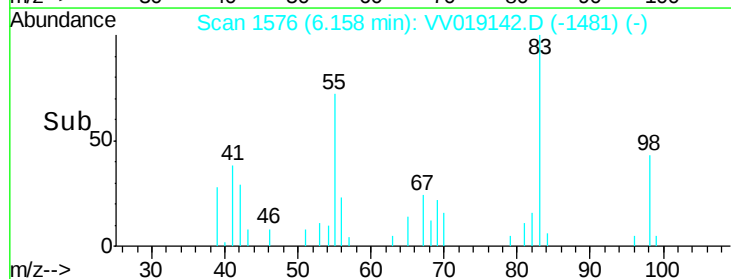
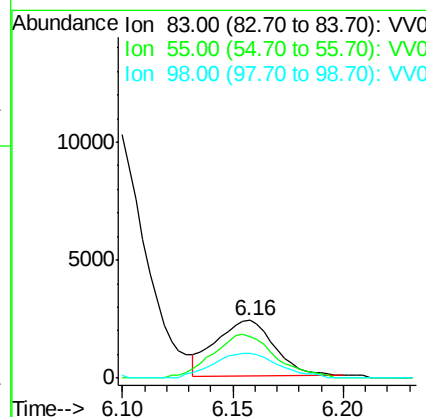
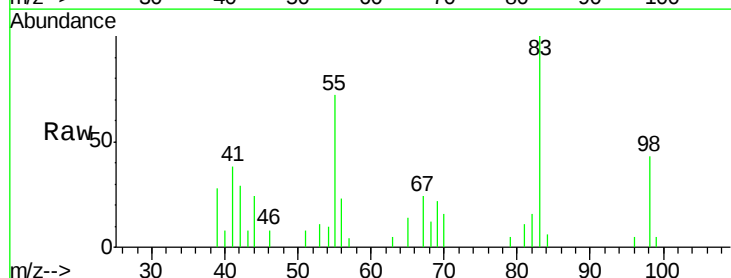
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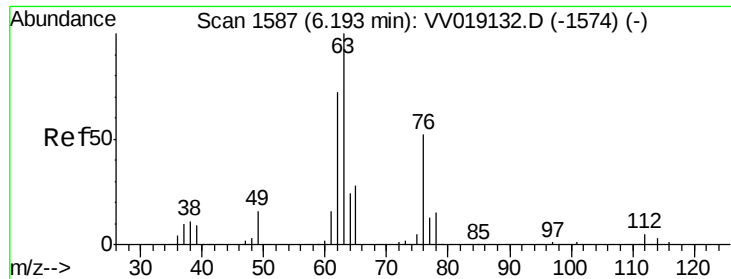
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#35
 Methylcyclohexane
 Concen: 2.032 ug/L
 RT: 6.16 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.1	68.1	102.1
98	49.5	37.9	56.9





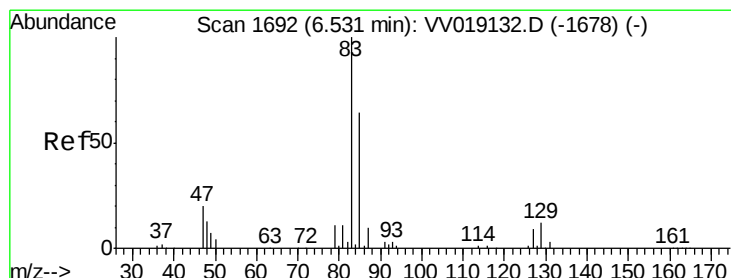
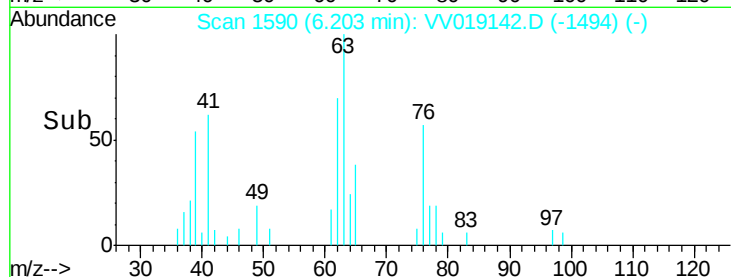
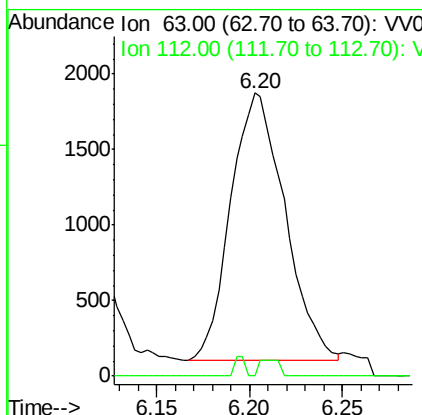
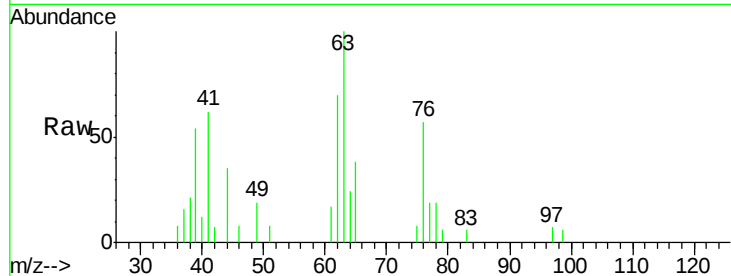
#37
 1,2-Dichloropropane
 Concen: 2.081 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion: 63 Resp: 3608
 Ion Ratio Lower Upper
 63 100
 112 1.7 3.5 5.3#

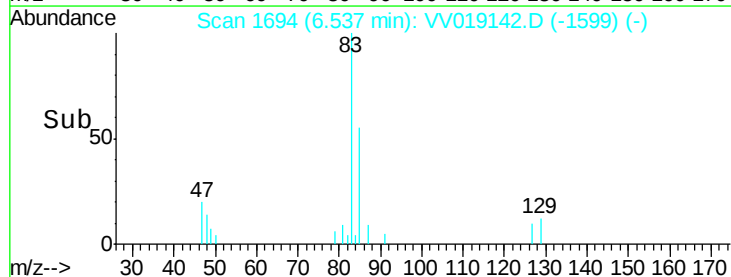
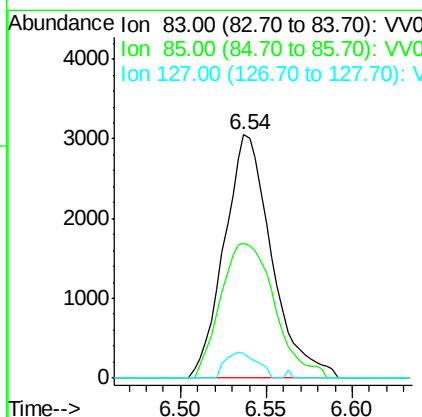
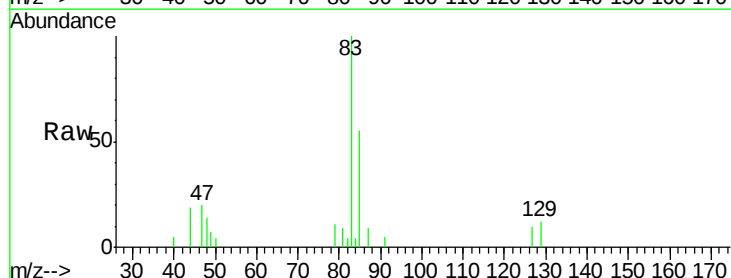
Manual Integrations
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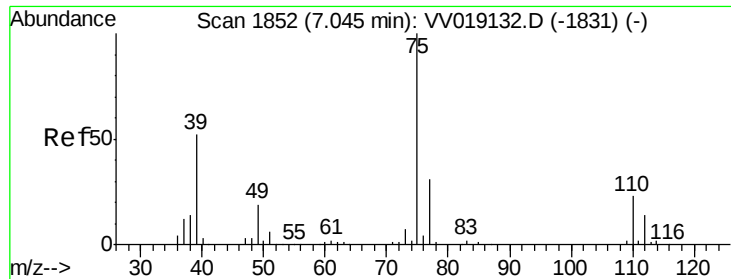
MMDadoda
 10/29/2020 2:58:38 PM



#38
 Bromodichloromethane
 Concen: 2.677 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion: 83 Resp: 5872
 Ion Ratio Lower Upper
 83 100
 85 55.4 44.9 83.3
 127 9.9 7.0 10.4





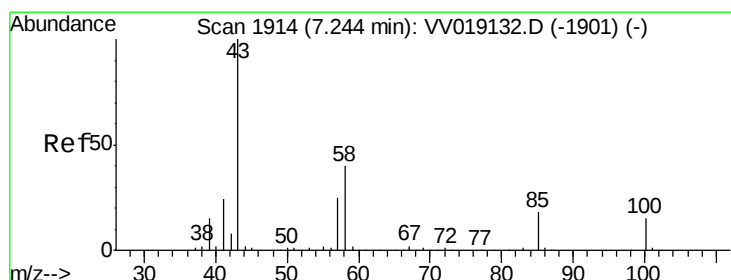
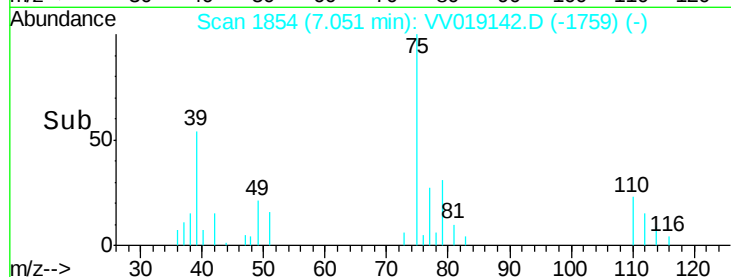
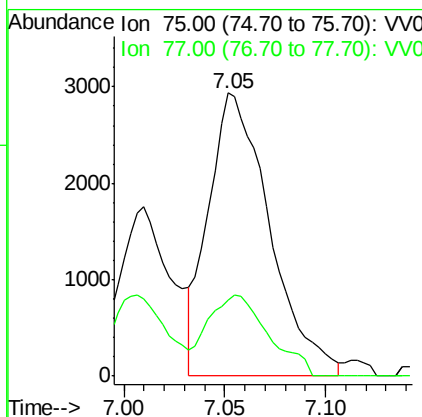
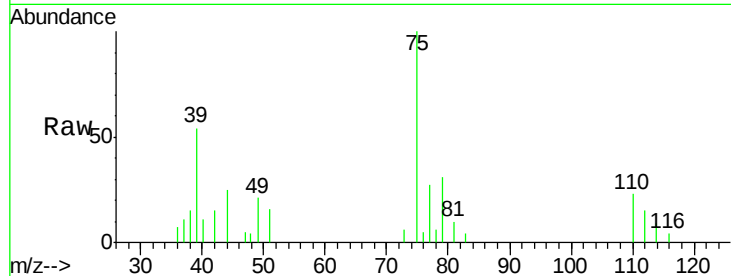
#39
 cis-1,3-Dichloropropene
 Concen: 2.421 ug/L
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 6203
 Ion Ratio Lower Upper
 75 100
 77 26.6 22.1 41.1

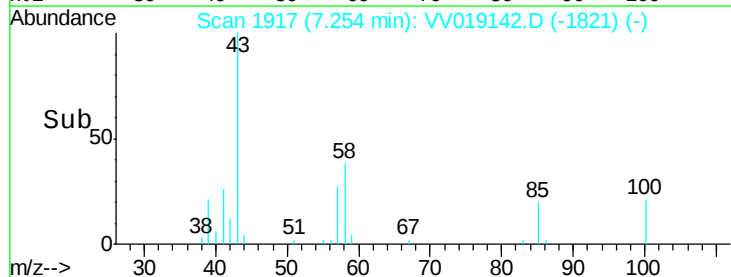
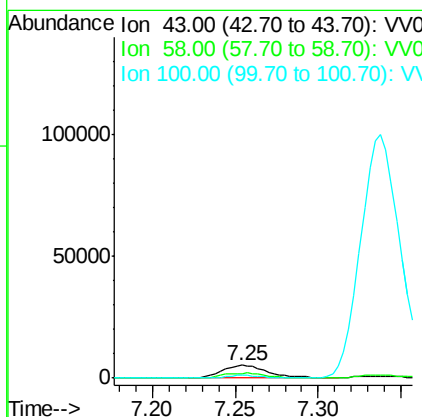
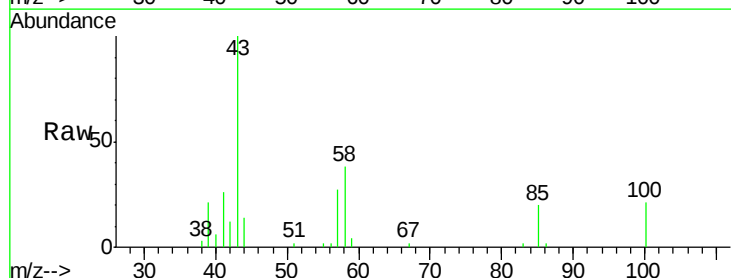
Manual Integrations
 APPROVED

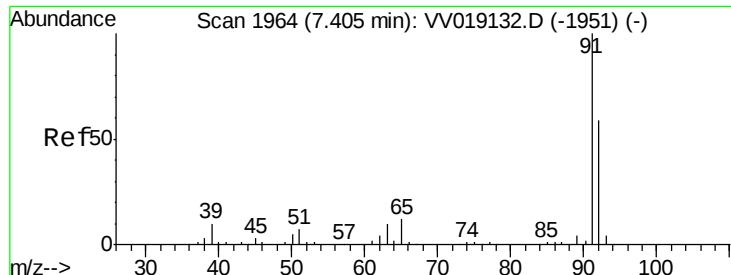
MMDadoda
 10/29/2020 2:58:38 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.340 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion: 43 Resp: 10150
 Ion Ratio Lower Upper
 43 100
 58 38.7 29.6 44.4
 100 16.2 10.9 16.3





#42

Toluene

Concen: 2.432 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 15720

Ion Ratio Lower Upper

91 100

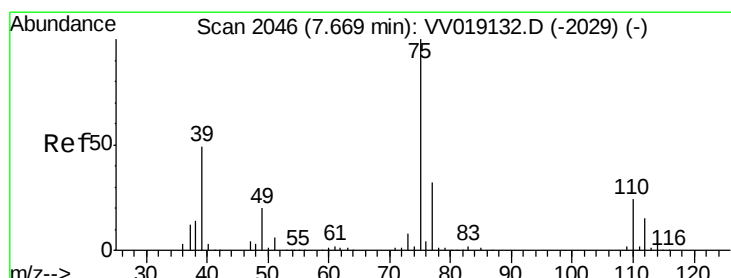
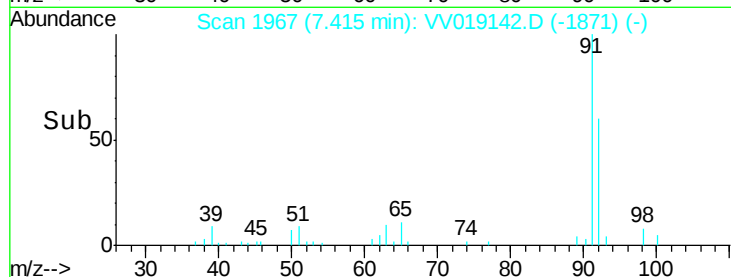
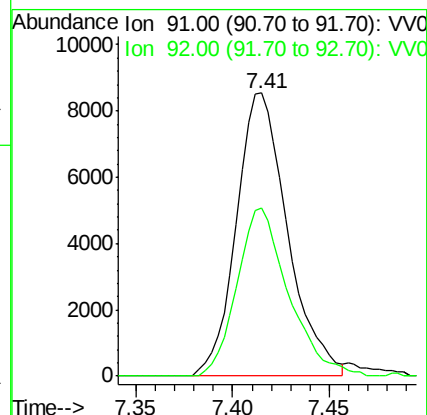
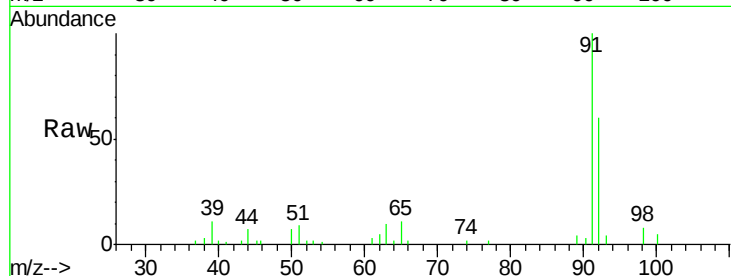
92 59.6 40.9 76.0

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:38 PM



#44

trans-1,3-Dichloropropene

Concen: 2.679 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019142.D

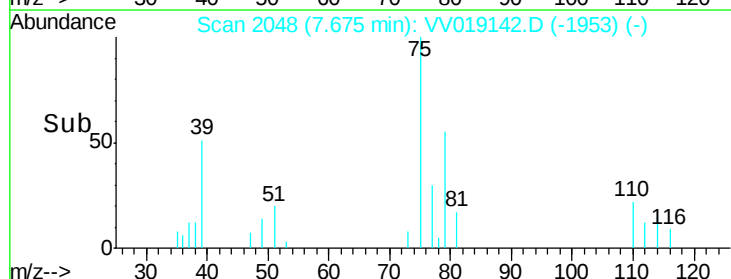
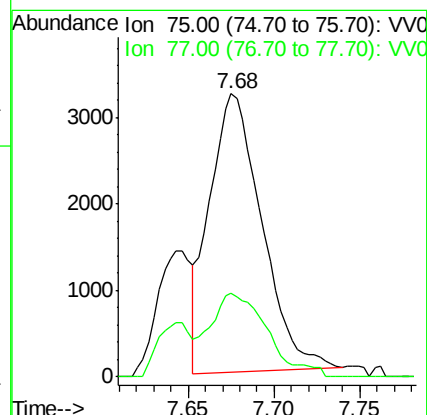
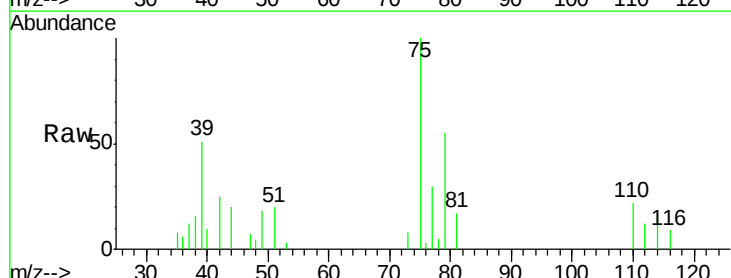
Acq: 28 Oct 2020 18:45

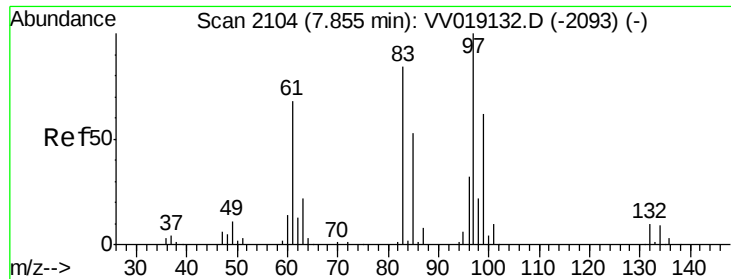
Tgt Ion: 75 Resp: 6809

Ion Ratio Lower Upper

75 100

77 29.5 21.5 39.9





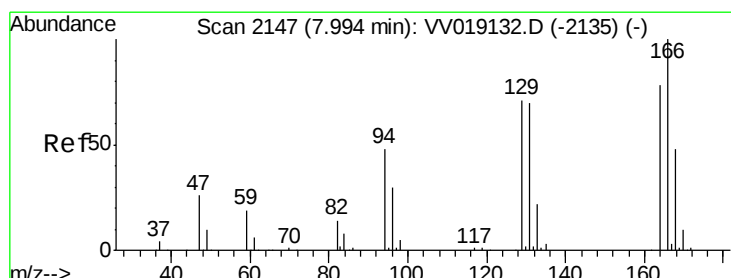
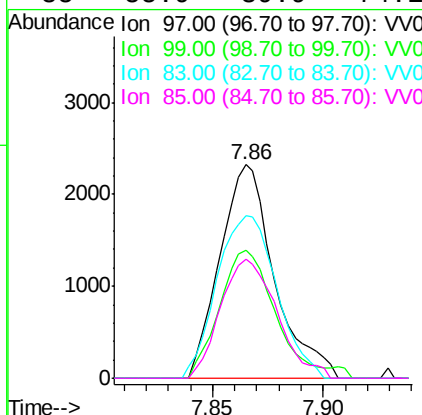
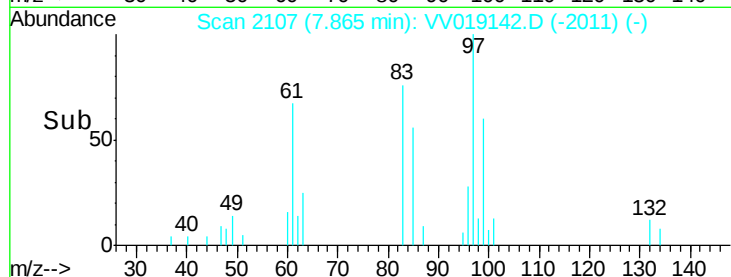
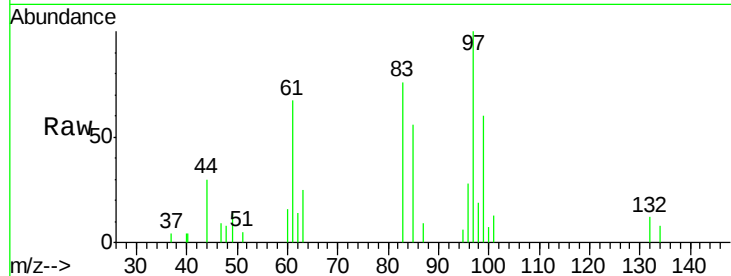
#45
1,1,2-Trichloroethane
Concen: 2.594 ug/L
RT: 7.86 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion:	97	Resp:	3972
Ion	Ratio	Lower	Upper
97	100		
99	59.7	43.5	80.9
83	75.9	62.2	115.4
85	55.9	39.9	74.1

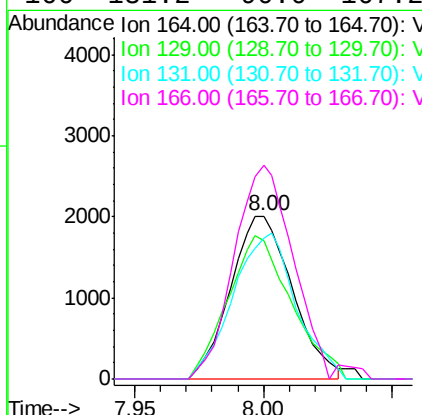
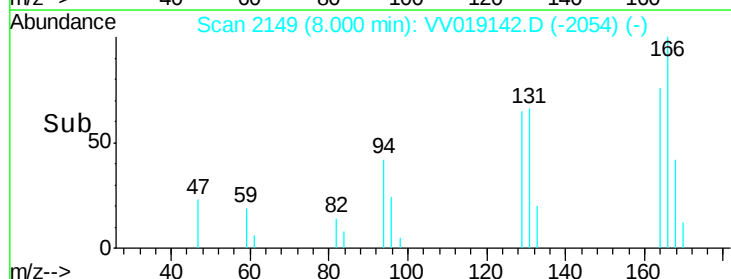
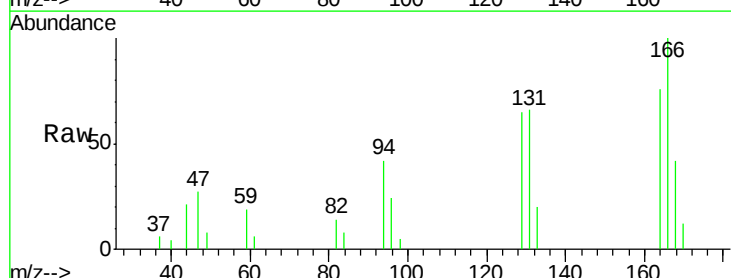
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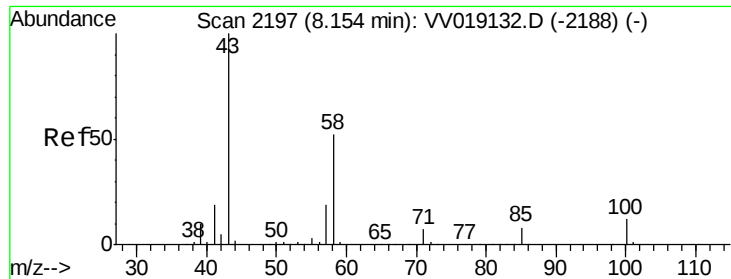
MMDadoda
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#46
Tetrachloroethene
Concen: 2.748 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion:	164	Resp:	3356
Ion	Ratio	Lower	Upper
164	100		
129	84.7	65.5	121.6
131	86.9	62.4	115.8
166	131.2	90.0	167.2





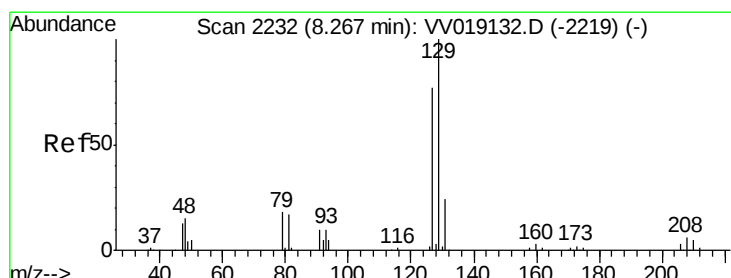
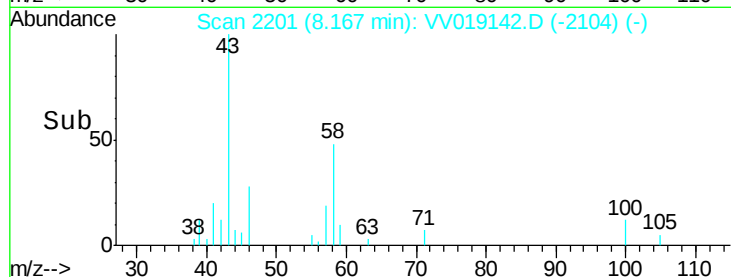
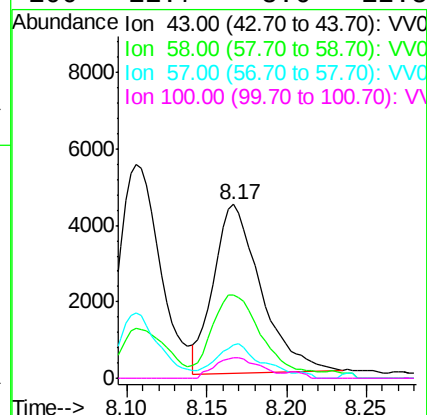
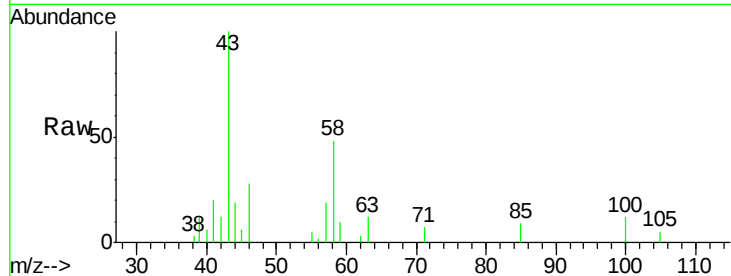
#48
2-Hexanone
Concen: 4.990 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampled :
MDL07

Tot Ion:	43	Resp:	9006
Ion	Ratio	Lower	Upper
43	100		
58	53.6	41.1	61.7
57	19.6	14.7	22.1
100	11.7	8.6	12.8

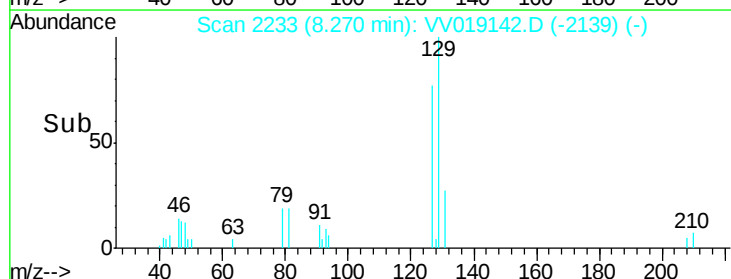
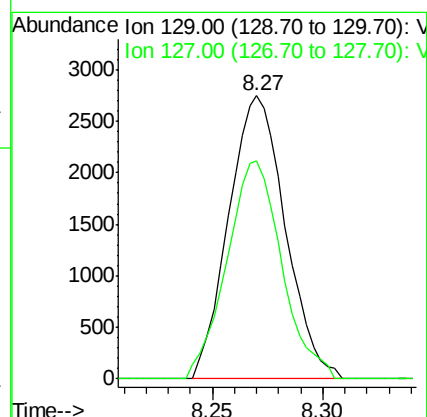
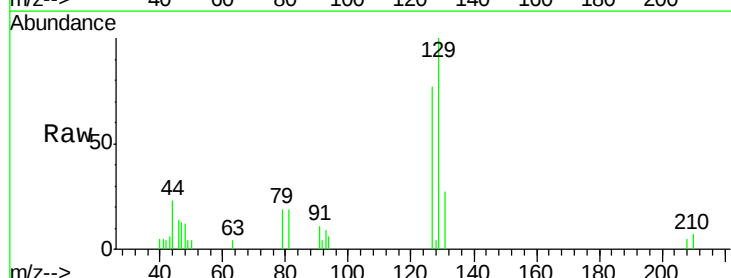
Manual Integrations
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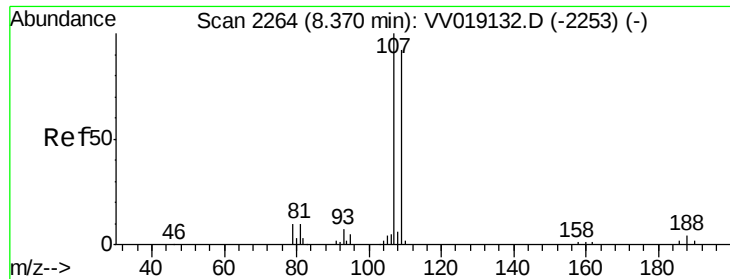
MMDadoda
10/29/2020 2:58:38 PM



#49
Dibromochloromethane
Concen: 2.920 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion:	129	Resp:	4886
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.7	99.7





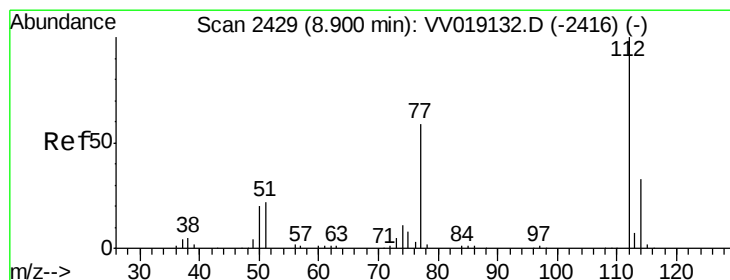
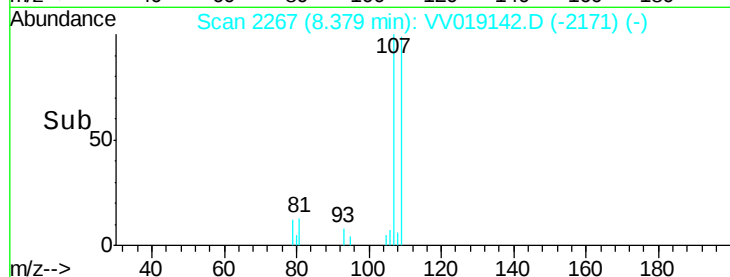
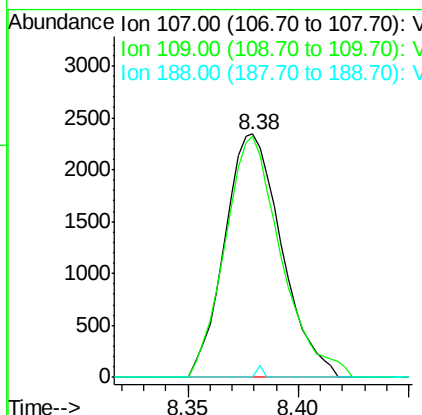
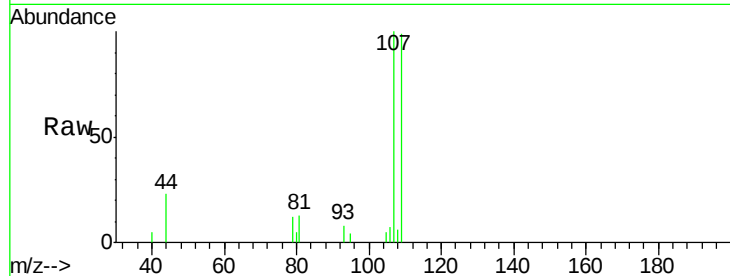
#50
1,2-Dibromoethane
Concen: 2.644 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.9	66.1	122.7
188	0.0	3.2	4.8#

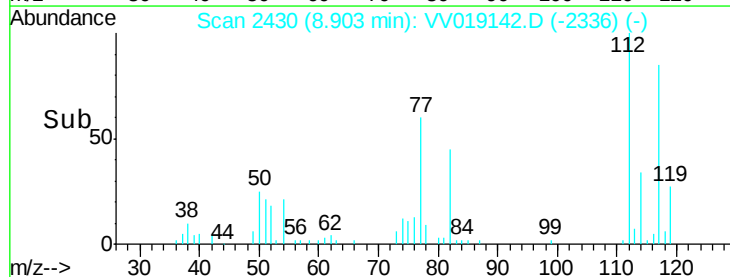
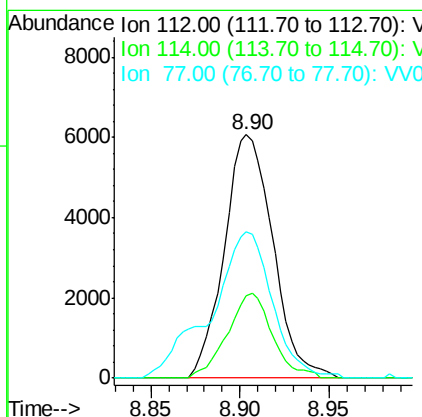
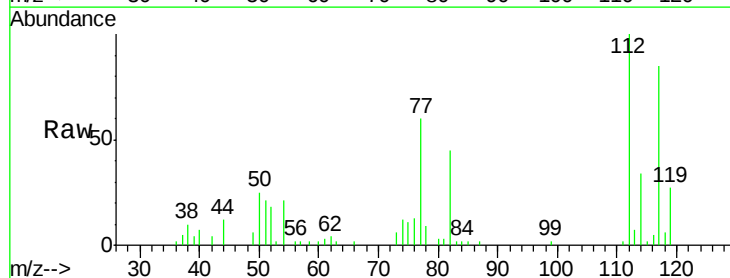
Manual Integrations
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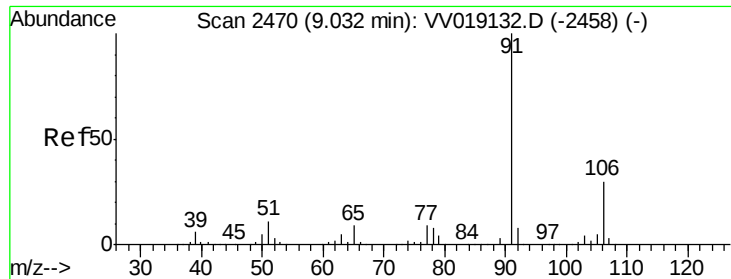
MMDadoda
10/29/2020 2:58:38 PM



#51
Chlorobenzene
Concen: 2.770 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.8	22.2	41.2
77	60.1	49.1	73.7





#52

Ethylbenzene

Concen: 2.370 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampled :

MDL07

Tot Ion: 91 Resp: 16562

Ion Ratio Lower Upper

91 100

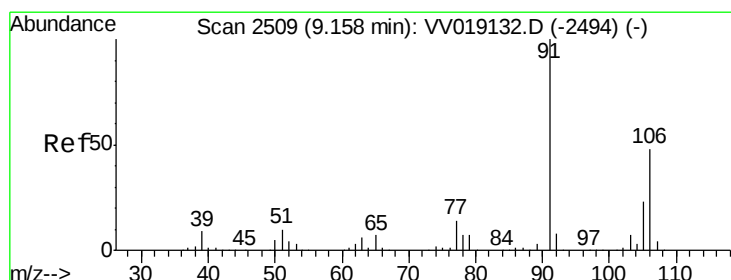
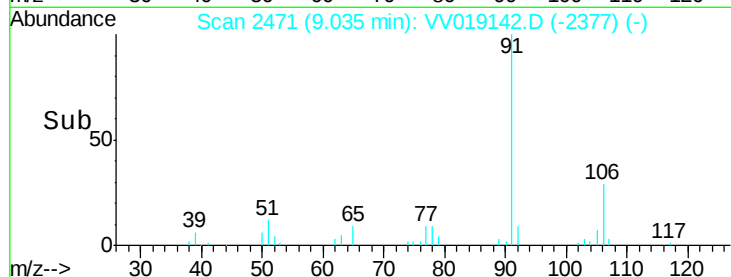
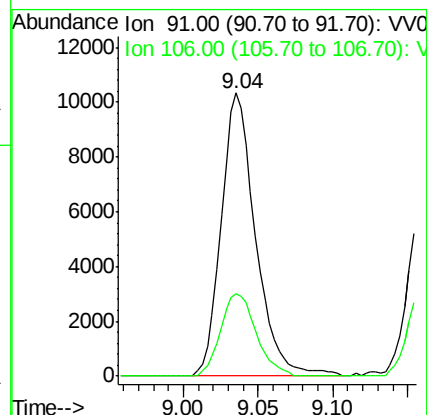
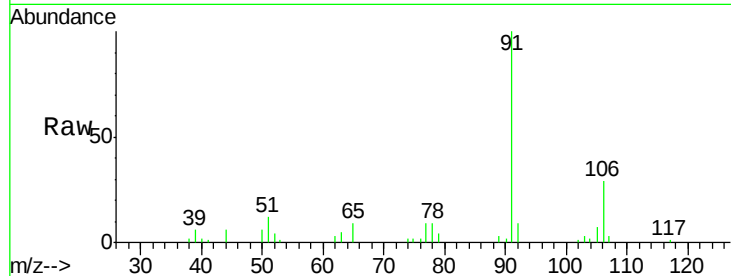
106 29.0 20.9 38.7

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#53

m,p-Xylene

Concen: 2.358 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019142.D

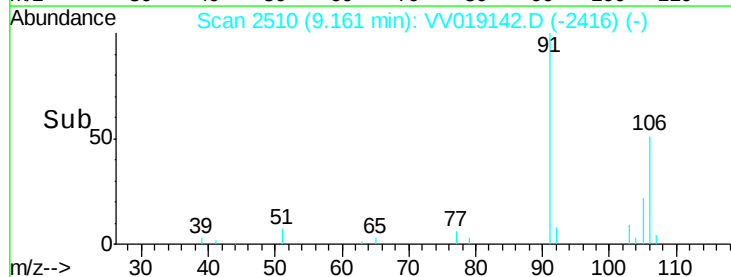
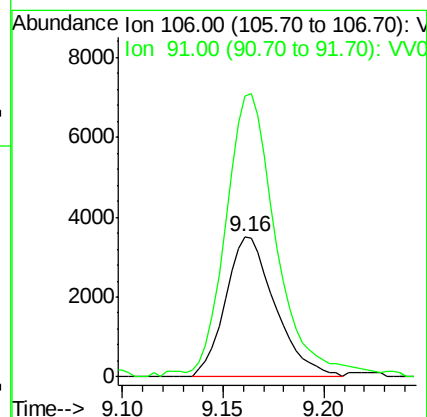
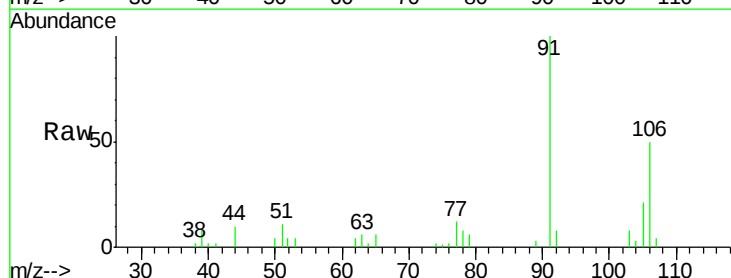
Acq: 28 Oct 2020 18:45

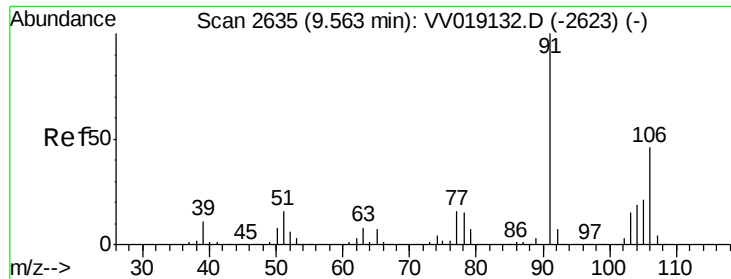
Tgt Ion: 106 Resp: 6032

Ion Ratio Lower Upper

106 100

91 200.4 143.4 266.2





#54

o-xylene

Concen: 2.491 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion:106 Resp: 6137

Ion Ratio Lower Upper

106 100

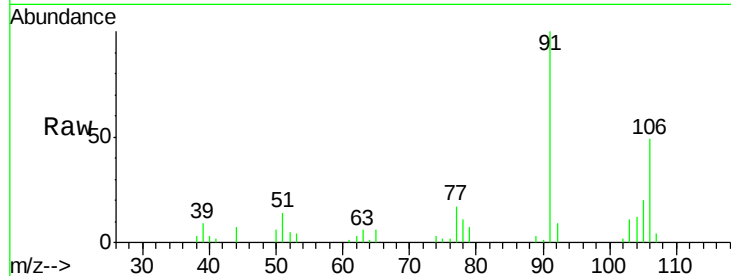
91 204.3 154.3 286.5

Manual Integrations

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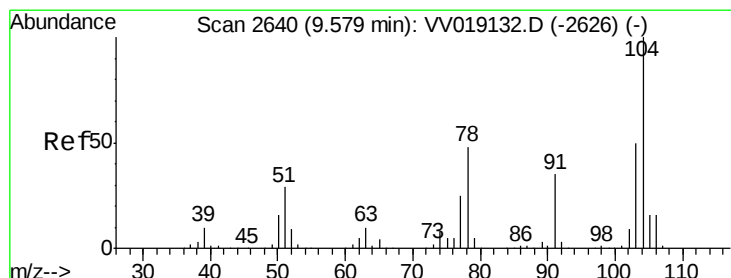
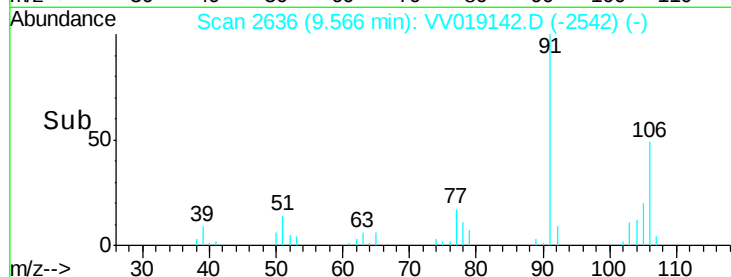
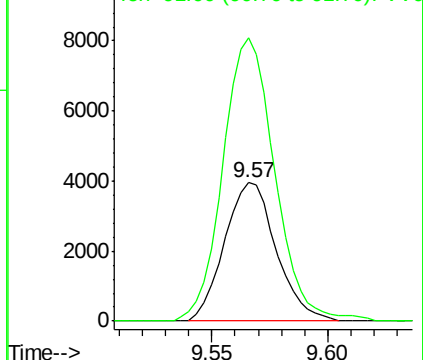
MMDadoda

10/29/2020 2:58:38 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.473 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019142.D

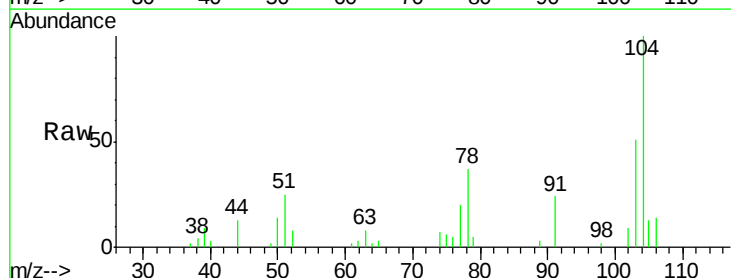
Acq: 28 Oct 2020 18:45

Tgt Ion:104 Resp: 10807

Ion Ratio Lower Upper

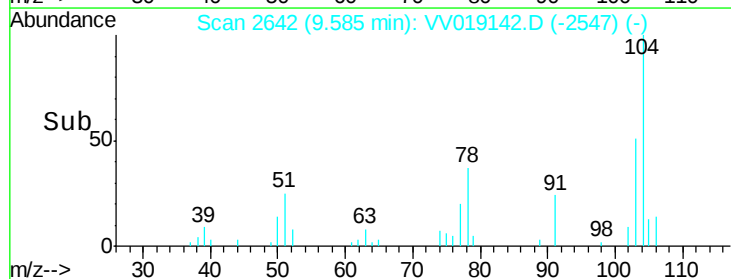
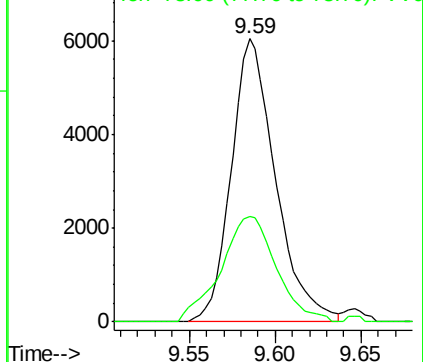
104 100

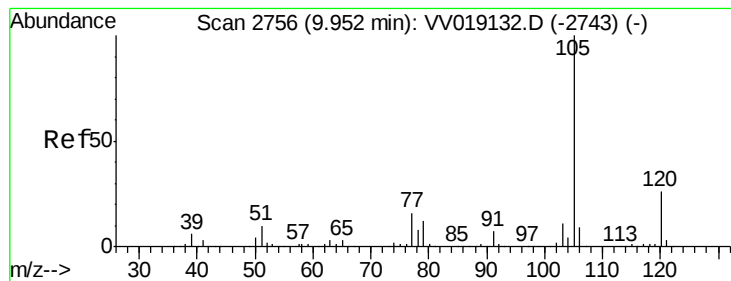
78 37.3 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 2.240 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

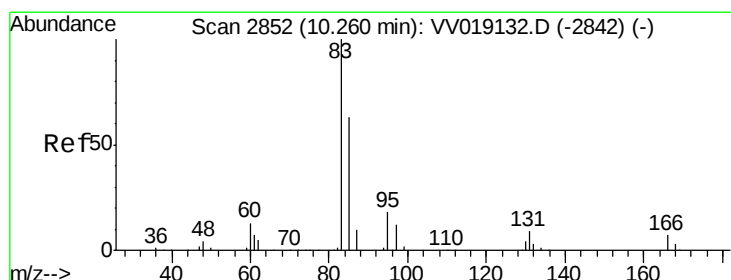
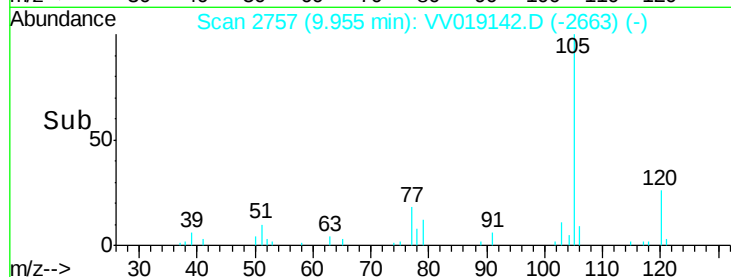
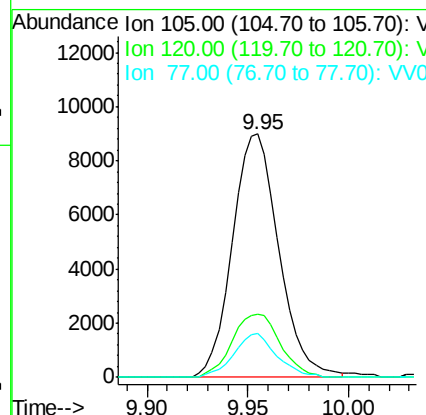
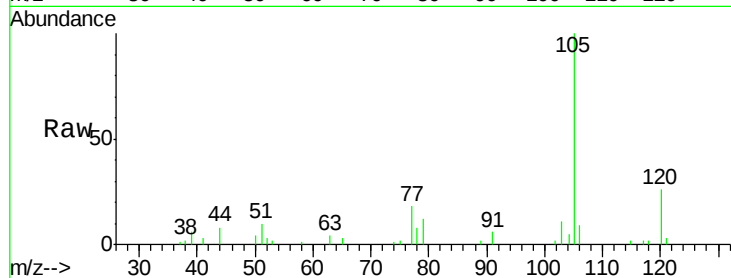
ClientSampleId :

MDL07

Tot Ion:	105	Resp:	14507
Ion Ratio	Lower	Upper	
105	100		
120	26.8	20.6	31.0
77	16.7	13.4	20.0

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.559 ug/L

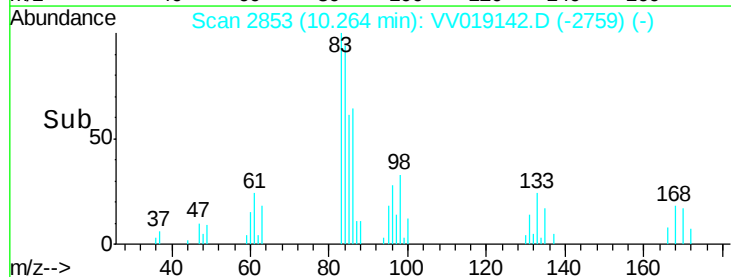
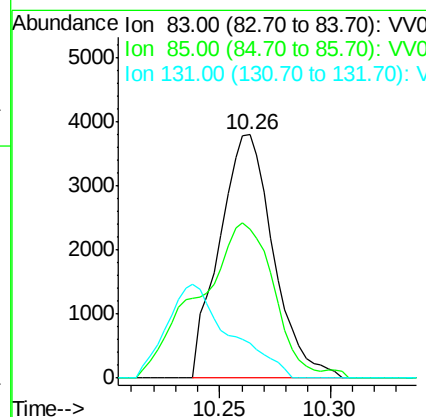
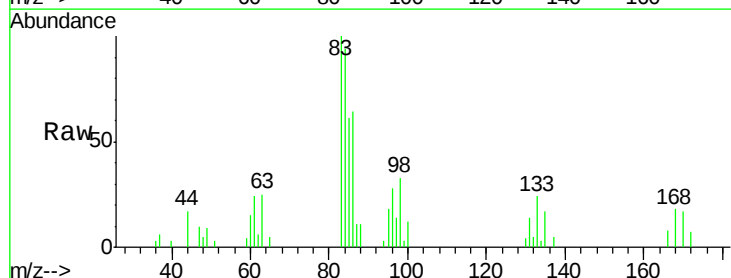
RT: 10.26 min Scan# 2853

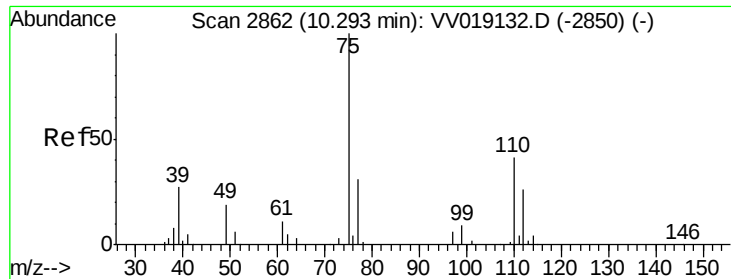
Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion:	83	Resp:	6446
Ion Ratio	Lower	Upper	
83	100		
85	61.3	44.2	82.2
131	14.2	7.4	11.2#





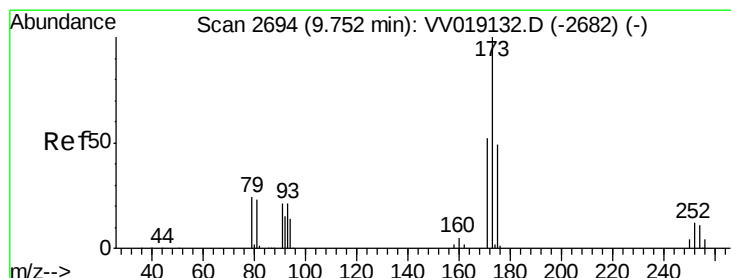
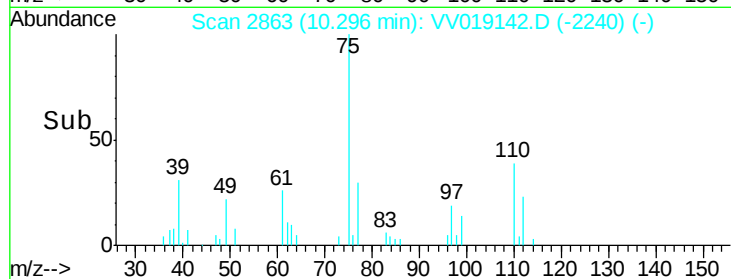
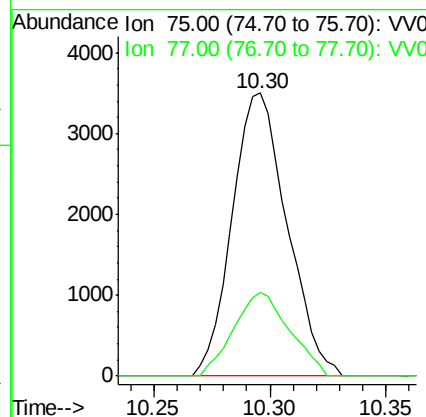
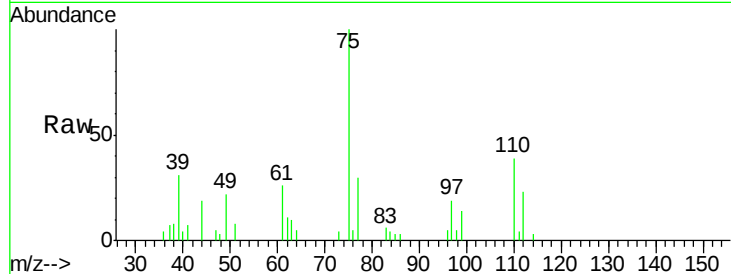
#59
1,2,3-Trichloropropane
Concen: 2.841 ug/L
RT: 10.30 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Instrument :
MSVOA_V
ClientSampled :
MDL07

Tot Ion: 75 Resp: 5758
Ion Ratio Lower Upper
75 100
77 30.1 25.9 38.9

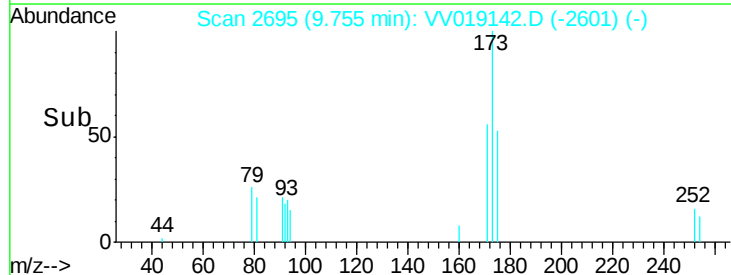
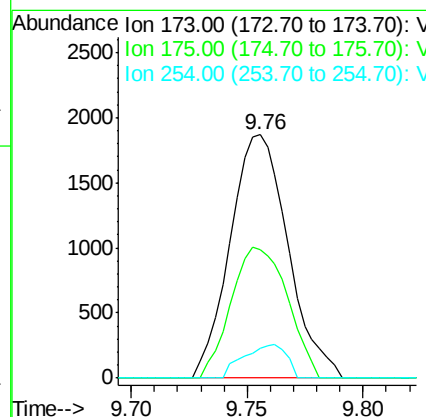
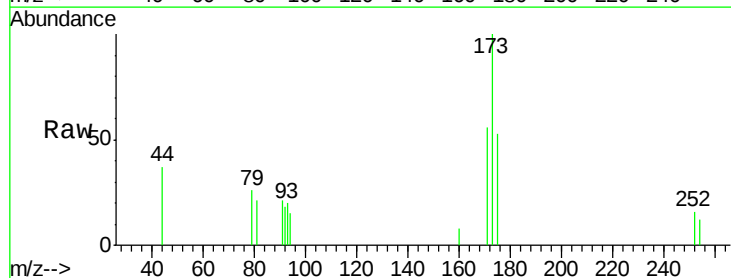
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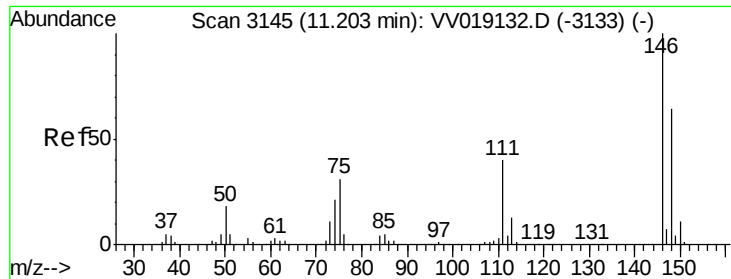
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#61
Bromoform
Concen: 2.765 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VV019142.D
Acq: 28 Oct 2020 18:45

Tgt Ion: 173 Resp: 3245
Ion Ratio Lower Upper
173 100
175 52.3 38.3 57.5
254 10.3 8.3 12.5





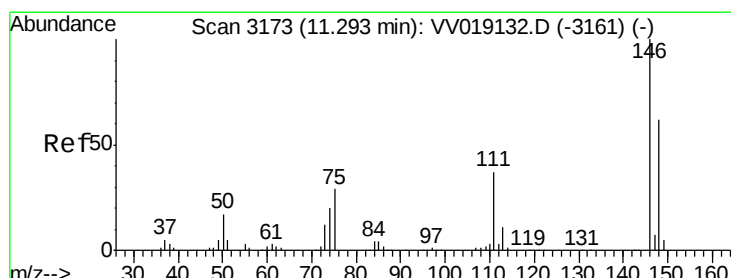
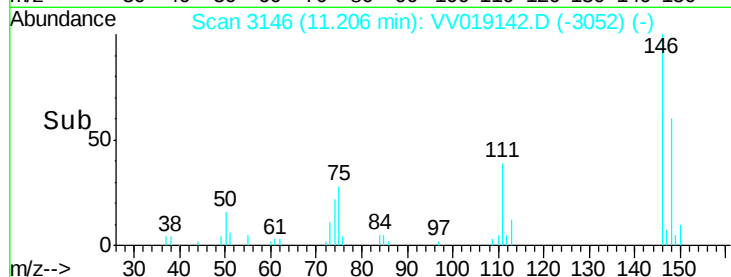
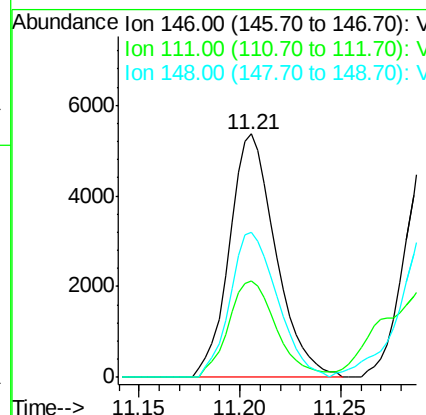
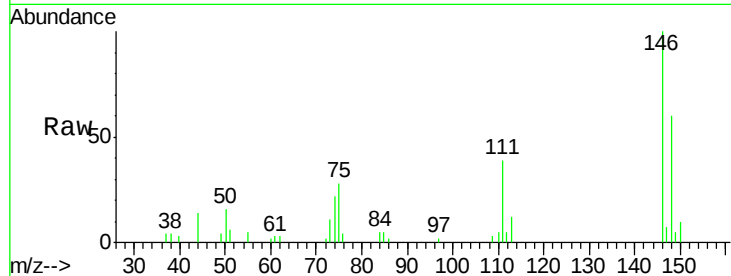
#62
 1,3-Dichlorobenzene
 Concen: 2.763 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	28.8	53.4
148	59.5	44.5	82.7

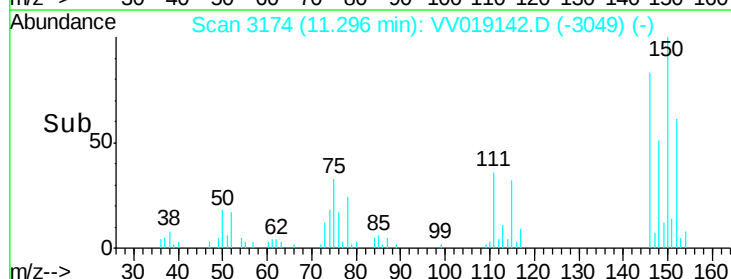
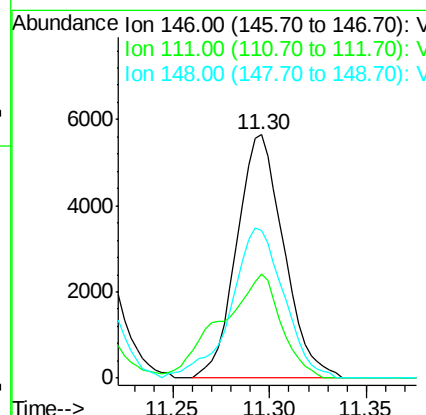
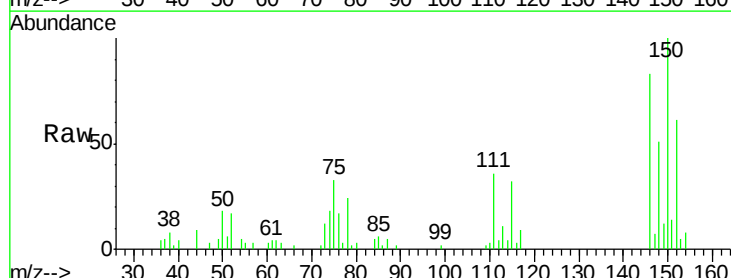
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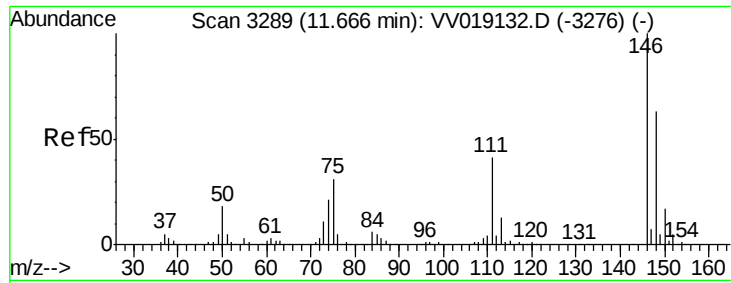
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#63
 1,4-Dichlorobenzene
 Concen: 2.927 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	27.8	51.6
148	60.6	45.1	83.9





#65

1,2-Dichlorobenzene

Concen: 2.909 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

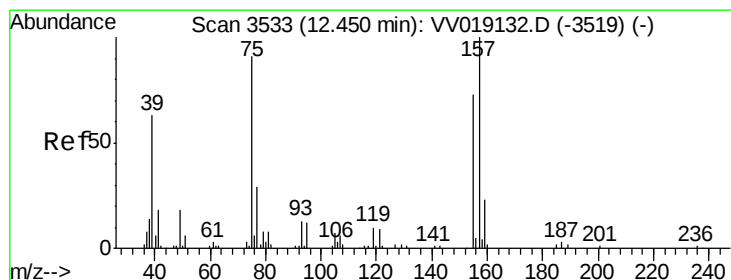
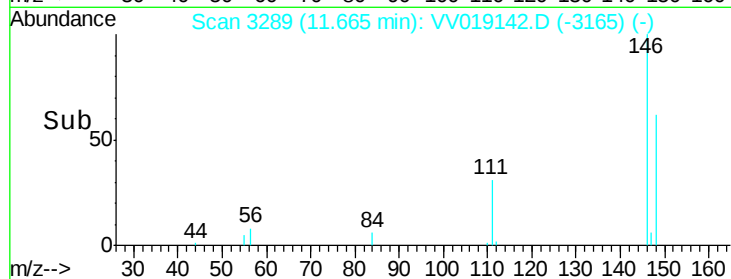
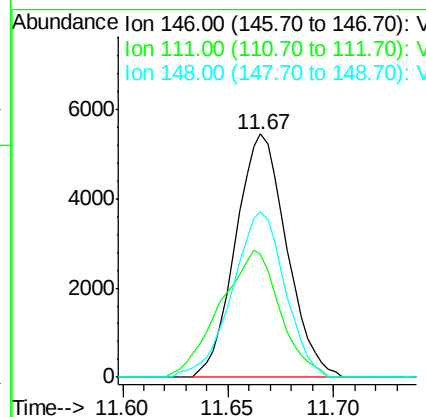
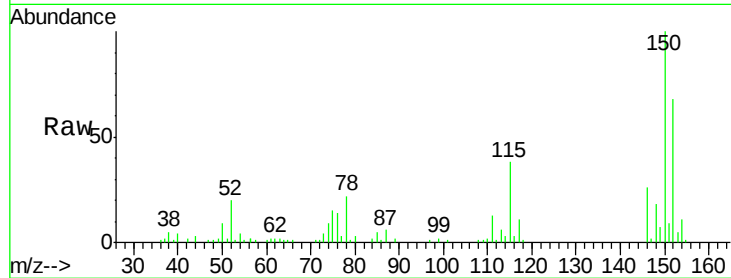
ClientSampleId :

MDL07

Tot Ion:	146	Resp:	9174
Ion Ratio	Lower	Upper	
146	100		
111	50.4	33.3	49.9#
148	68.2	51.1	76.7

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.621 ug/L

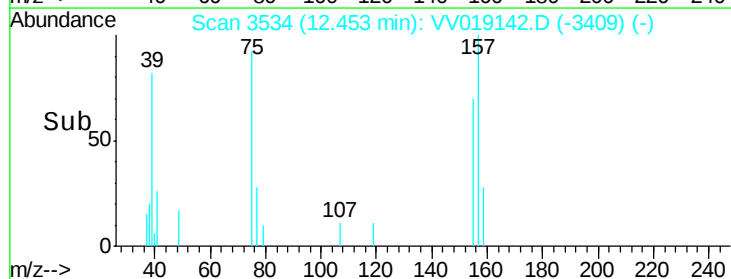
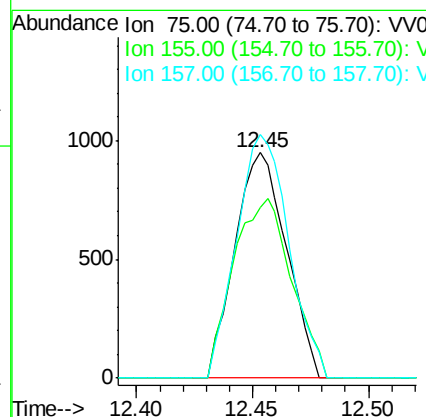
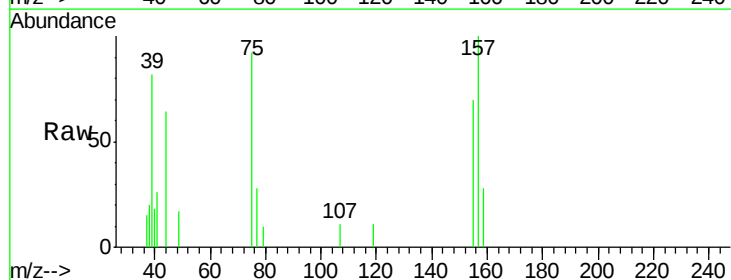
RT: 12.45 min Scan# 3534

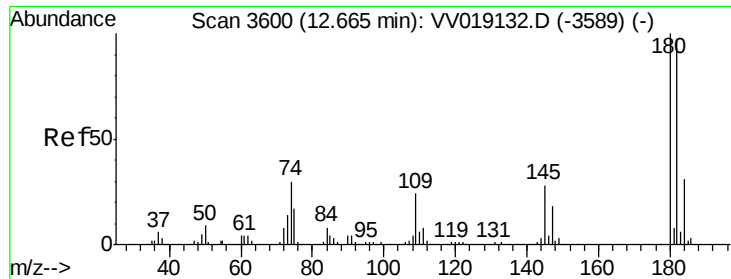
Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion:	75	Resp:	1460
Ion Ratio	Lower	Upper	
75	100		
155	75.5	62.2	93.4
157	108.1	79.9	119.9





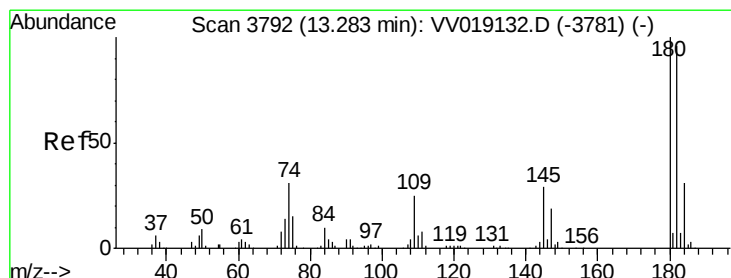
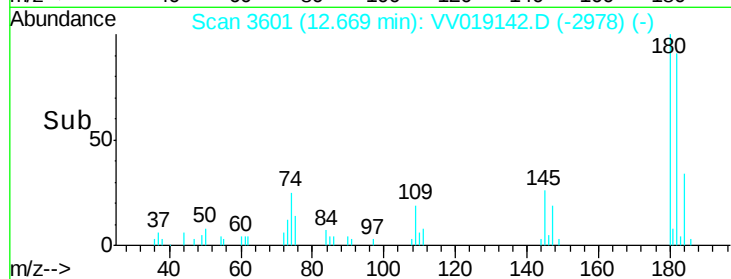
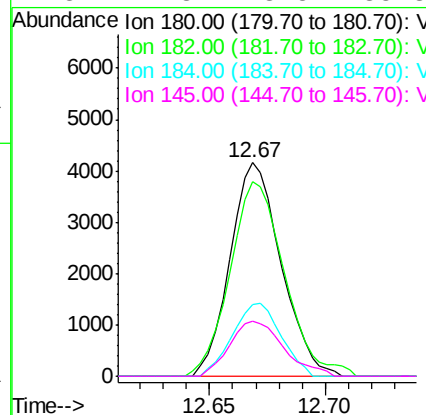
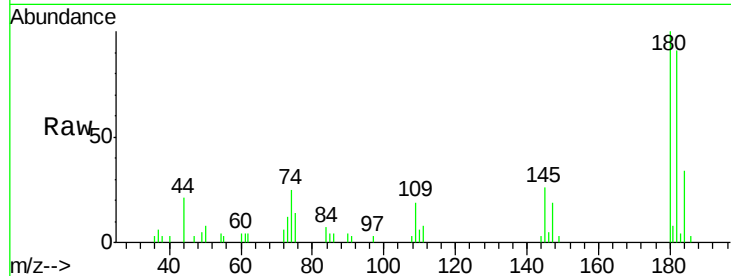
#67
 1,3,5-Trichlorobenzene
 Concen: 2.965 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	77.4	116.0
184	32.5	24.7	37.1
145	27.3	23.5	35.3

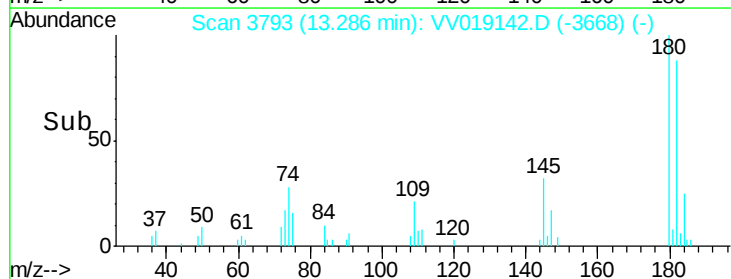
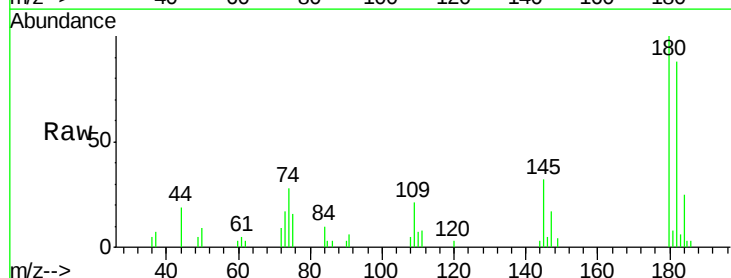
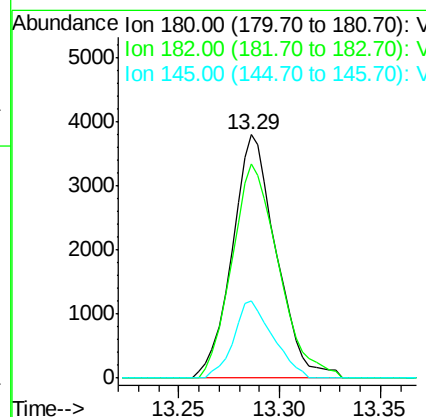
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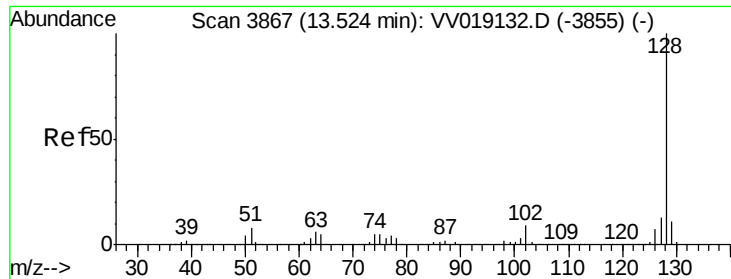
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#68
 1,2,4-trichlorobenzene
 Concen: 2.874 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019142.D
 Acq: 28 Oct 2020 18:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	77.4	116.2
145	28.2	23.7	35.5





#69

Naphthalene

Concen: 2.254 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Instrument :

MSVOA_V

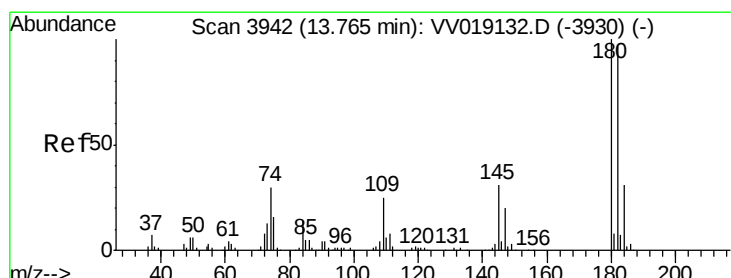
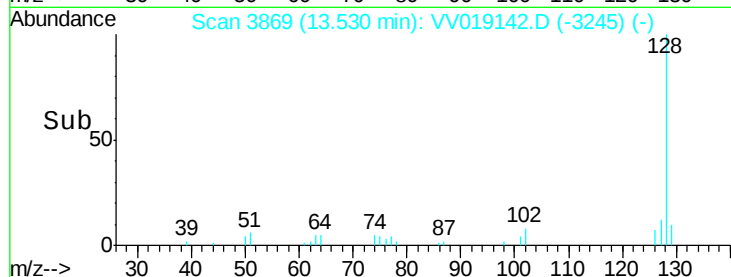
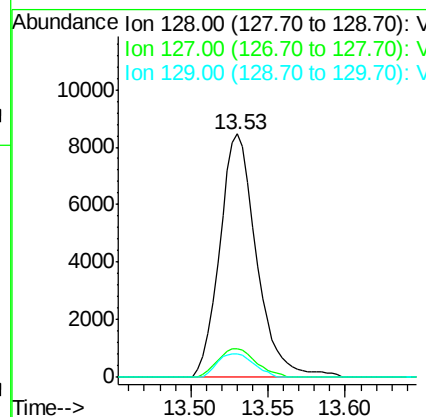
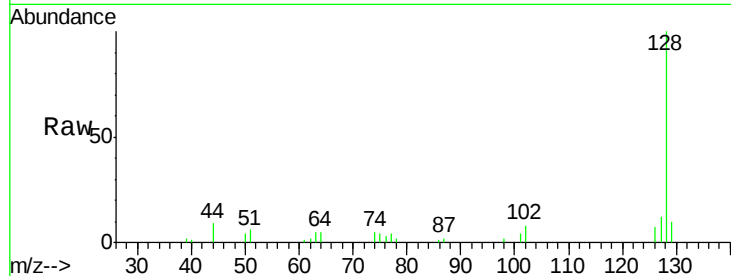
ClientSampleId :

MDL07

Tot Ion:	128	Resp:	13989
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.6	15.8
129	9.6	8.7	13.1

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#70

1,2,3-Trichlorobenzene

Concen: 2.648 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019142.D

Acq: 28 Oct 2020 18:45

Tgt Ion:	180	Resp:	5403
Ion Ratio	Lower	Upper	
180	100		
182	99.3	76.9	115.3
145	32.4	25.6	38.4

