

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021020\
 Data File : VV014551.D
 Acq On : 10 Feb 2020 14:56
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:06:31 PM

Quant Time: Feb 11 05:34:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 04:43:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	324348	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	303747	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	151094	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70446	40.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.10%
7) Chloroethane-d5	1.59	69	50835	41.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.88%
11) 1,1-Dichloroethene-d2	2.13	63	88749	33.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.44%
21) 2-Butanone-d5	3.92	46	130880	96.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.39%
24) Chloroform-d	4.40	84	194763	48.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.18%
26) 1,2-Dichloroethane-d4	5.08	65	126205	51.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.16%
32) Benzene-d6	5.10	84	409017	48.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.26%
36) 1,2-Dichloropropane-d6	6.11	67	126919	49.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.42%
41) Toluene-d8	7.36	98	388159	50.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.24%
43) trans-1,3-Dichloropropene-	7.66	79	67087	48.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.02%
47) 2-Hexanone-d5	8.13	63	106730	97.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.27%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	170227	50.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.66%
66) 1,2-Dichlorobenzene-d4	11.67	152	150108	51.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	6873	2.645	ug/L	99
3) Chloromethane	1.26	50	6712	2.551	ug/L	96
5) Vinyl chloride	1.32	62	4948	2.456	ug/L #	68
6) Bromomethane	1.54	94	2262	2.441	ug/L	89
8) Chloroethane	1.60	64	2583	2.580	ug/L	98
9) Trichlorofluoromethane	1.77	101	7361	2.712	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4314	3.310	ug/L #	79
12) 1,1-Dichloroethene	2.14	96	3834	3.076	ug/L #	1
13) Acetone	2.19	43	7371	6.484	ug/L	96
14) Carbon disulfide	2.32	76	14739	2.435	ug/L	98
15) Methyl Acetate	2.46	43	5244	2.399	ug/L	95
16) Methylene chloride	2.54	84	6706	2.832	ug/L	93
17) trans-1,2-Dichloroethene	2.79	96	5909	2.690	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	17998	2.588	ug/L	99
19) 1,1-Dichloroethane	3.23	63	9302	2.368	ug/L	93
20) cis-1,2-Dichloroethene	3.96	96	6371	2.578	ug/L	91
22) 2-Butanone	4.03	43	6853	4.076	ug/L	88

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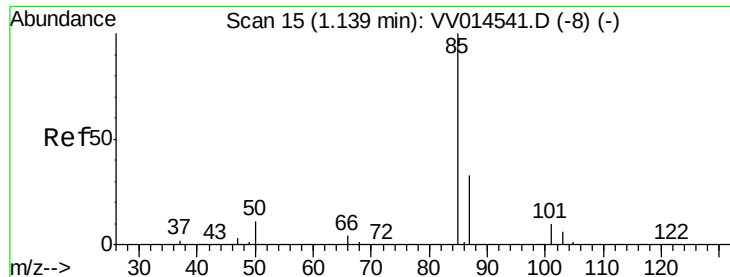
Manual Integrations
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Quant Time: Feb 11 05:34:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	3281m	2.803	ug/L	
25) Chloroform	4.42	83	15093	3.779	ug/L	99
27) 1,2-Dichloroethane	5.18	62	8845	2.972	ug/L	97
29) Cyclohexane	4.73	56	9326	2.497	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	9577	2.763	ug/L	97
31) Carbon tetrachloride	4.87	117	8683	2.839	ug/L	92
33) Benzene	5.15	78	24378	2.730	ug/L	100
34) Trichloroethene	5.96	95	6426	2.715	ug/L	95
35) Methylcyclohexane	6.18	83	9837	2.543	ug/L	95
37) 1,2-Dichloropropane	6.22	63	5571	2.449	ug/L	98
38) Bromodichloromethane	6.56	83	8133	2.664	ug/L #	95
39) cis-1,3-Dichloropropene	7.07	75	9885	2.605	ug/L	95
40) 4-Methyl-2-pentanone	7.27	43	13458	4.579	ug/L	99
42) Toluene	7.43	91	26239	2.740	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	9586	2.818	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	5985	2.743	ug/L	98
46) Tetrachloroethene	8.02	164	5222	2.892	ug/L	96
48) 2-Hexanone	8.18	43	11222	4.959	ug/L #	94
49) Dibromochloromethane	8.29	129	6279	2.549	ug/L	93
50) 1,2-Dibromoethane	8.40	107	6343	2.684	ug/L #	96
51) Chlorobenzene	8.92	112	17630	2.819	ug/L	98
52) Ethylbenzene	9.05	91	28949	2.696	ug/L	99
53) m,p-Xylene	9.18	106	10333	2.498	ug/L	98
54) o-Xylene	9.59	106	10519	2.657	ug/L	98
55) Styrene	9.60	104	17351	2.565	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	10548	3.084	ug/L	95
59) Bromoform	9.77	173	4200	2.492	ug/L #	93
60) Isopropylbenzene	9.97	105	27676	2.709	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	7627	2.850	ug/L	96
62) 1,3,5-Trimethylbenzene	10.58	105	22189	2.537	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	21163	2.454	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	13133	2.725	ug/L	100
65) 1,4-Dichlorobenzene	11.31	146	14246	2.871	ug/L	98
67) 1,2-Dichlorobenzene	11.68	146	13414	2.871	ug/L	90
68) 1,2-Dibromo-3-chloropropan	12.47	75	2271	3.031	ug/L	88
69) 1,3,5-Trichlorobenzene	12.69	180	9139	2.692	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	7688	2.466	ug/L	97
71) Naphthalene	13.55	128	25258	2.467	ug/L	98
72) 1,2,3-Trichlorobenzene	13.79	180	7221	2.384	ug/L	92

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



#2

Dichlorodifluoromethane

Concen: 2.645 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 6873

Ion Ratio Lower Upper

85 100

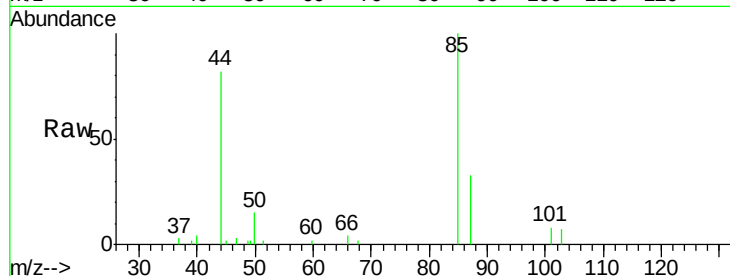
87 32.5 25.7 38.5

Manual Integrations

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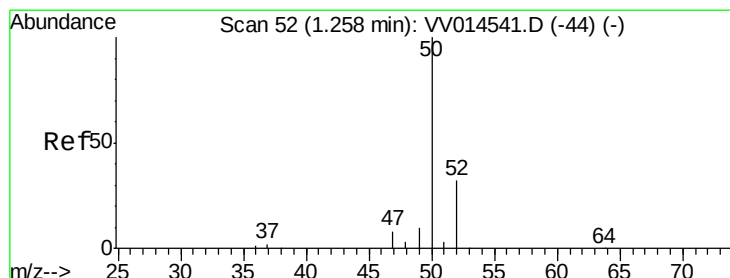
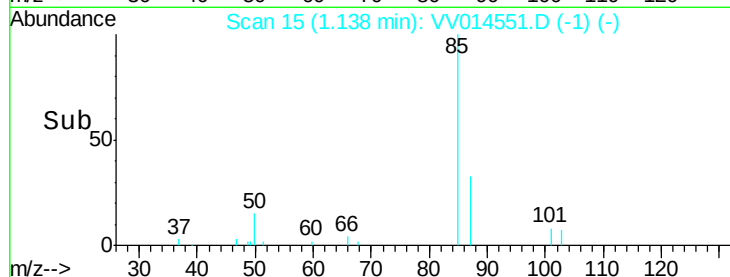
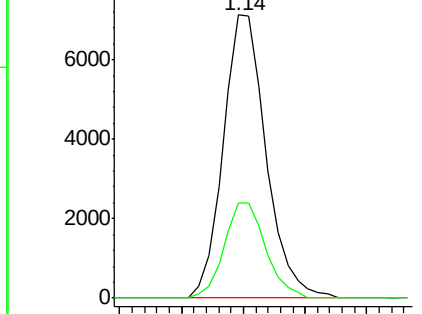
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Abundance Ion 85.00 (84.70 to 85.70): VV014551.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV014551.D (-1) (-)



#3

Chloromethane

Concen: 2.551 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014551.D

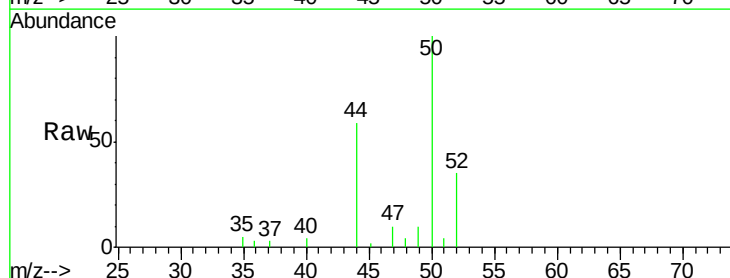
Acq: 10 Feb 2020 14:56

Tgt Ion: 50 Resp: 6712

Ion Ratio Lower Upper

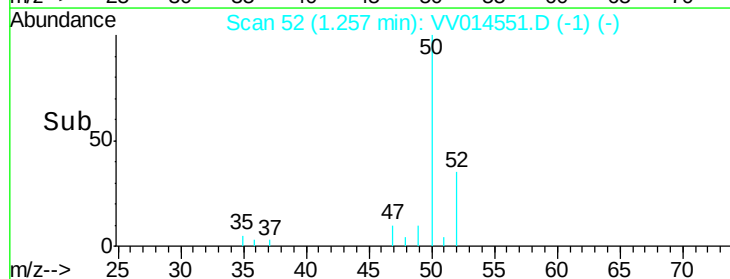
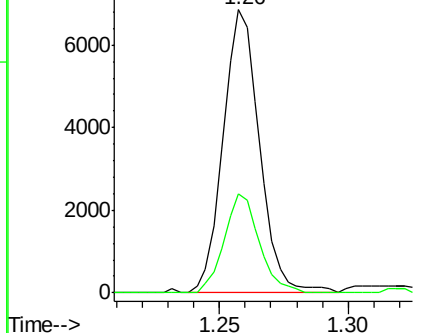
50 100

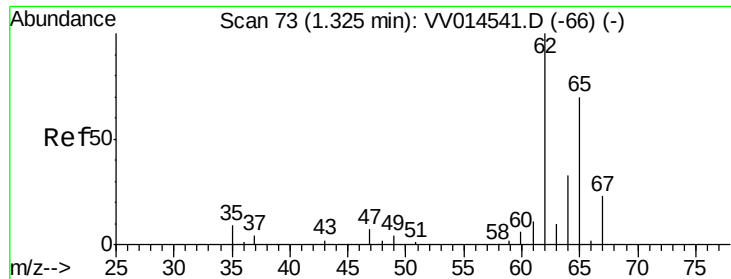
52 35.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014551.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV014551.D (-1) (-)





#5

Vinyl chloride

Concen: 2.456 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampled :

MDL07

Tot Ion: 62 Resp: 4948

Ion Ratio Lower Upper

62 100

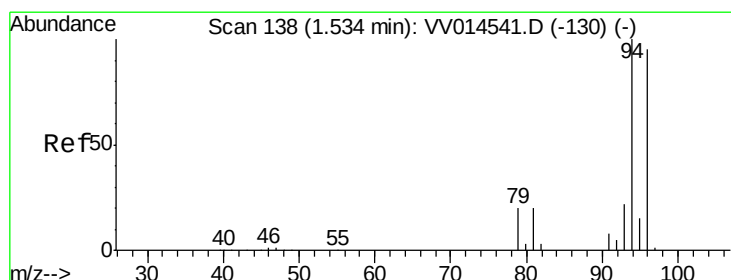
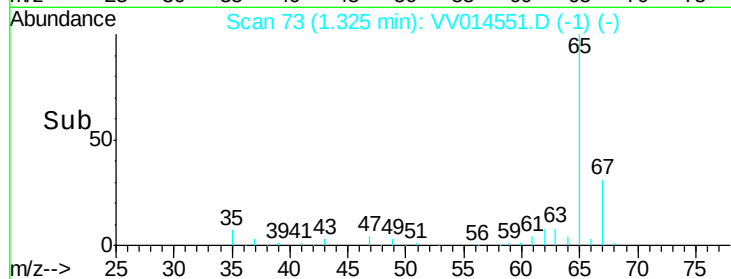
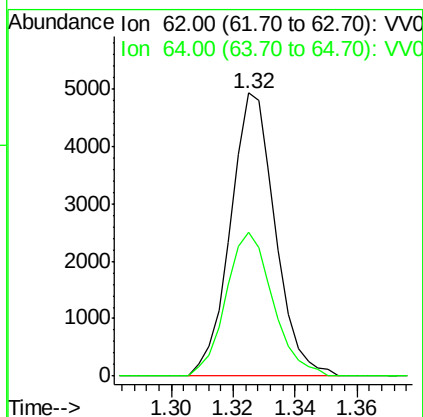
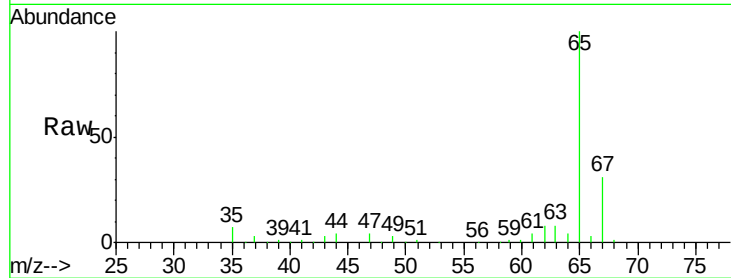
64 51.0 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 2.441 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014551.D

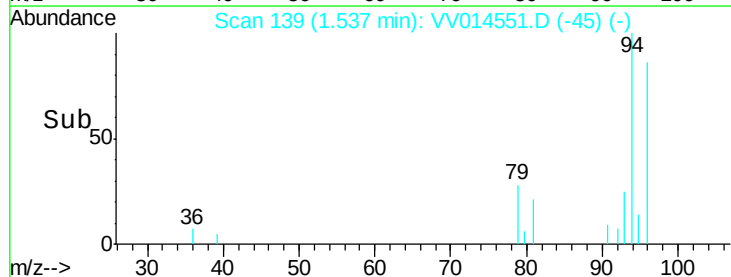
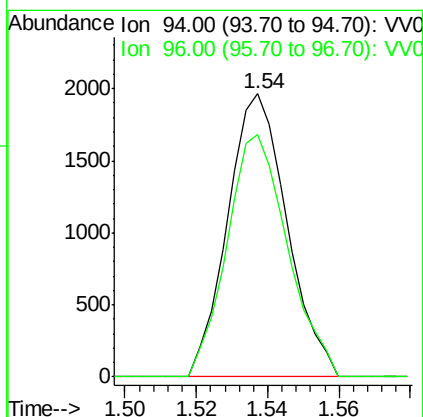
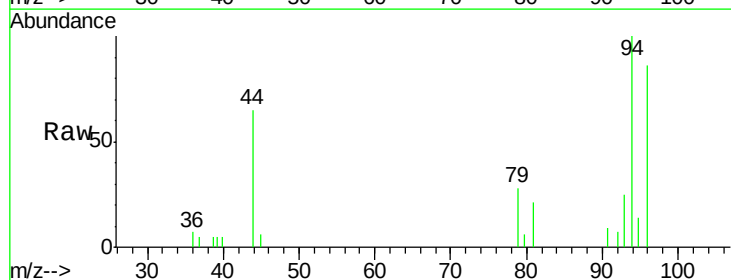
Acq: 10 Feb 2020 14:56

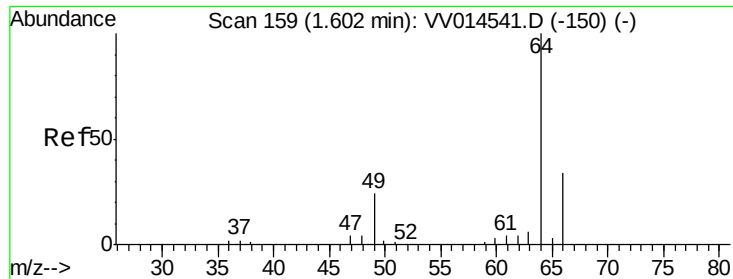
Tgt Ion: 94 Resp: 2262

Ion Ratio Lower Upper

94 100

96 85.6 67.3 124.9





#8

Chloroethane

Concen: 2.580 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 2583

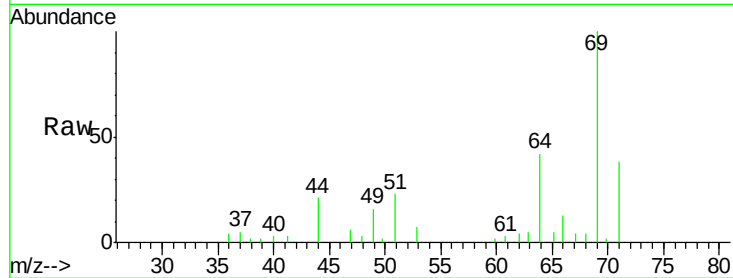
Ion Ratio Lower Upper

64 100

66 31.1 22.4 41.6

Manual Integrations
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Abundance Ion 64.00 (63.70 to 64.70): VV014541.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014541.D (-150) (-)

1.60

2000

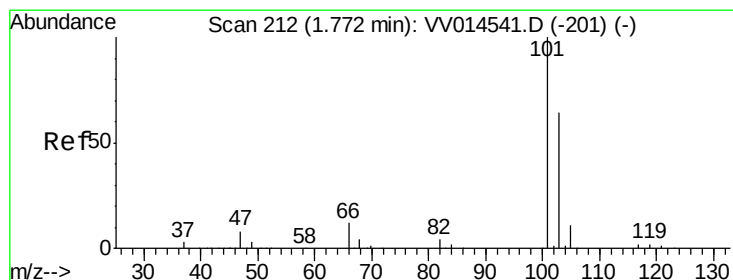
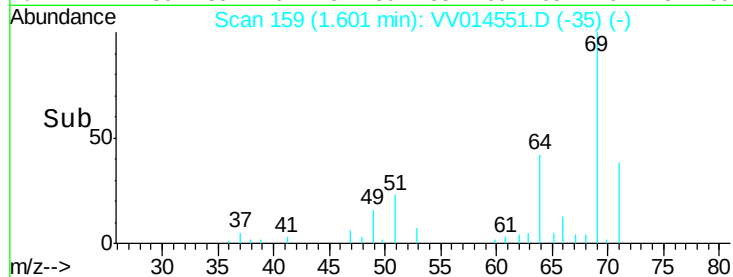
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.712 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV014551.D

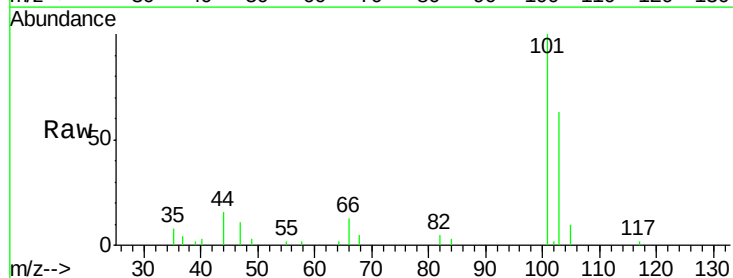
Acq: 10 Feb 2020 14:56

Tgt Ion: 101 Resp: 7361

Ion Ratio Lower Upper

101 100

103 64.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014541.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014541.D (-201) (-)

1.77

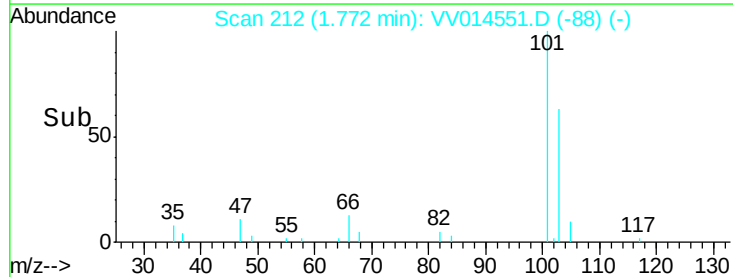
6000

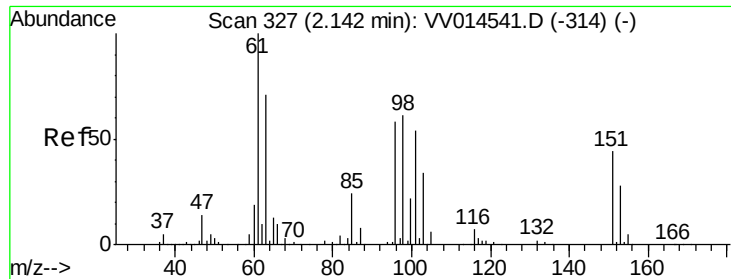
4000

2000

0

Time-->





#10

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

Concen: 3.310 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

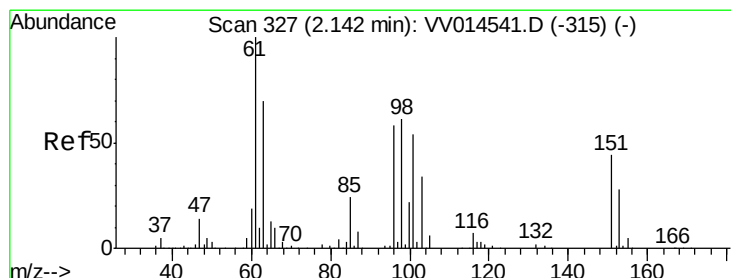
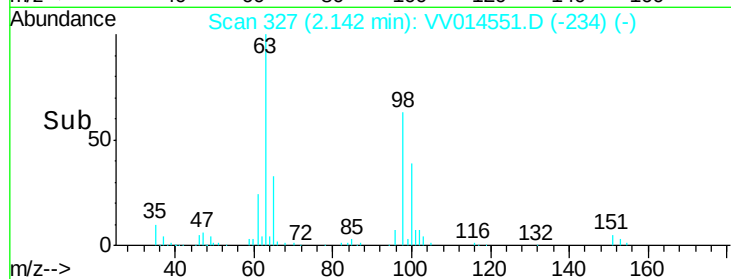
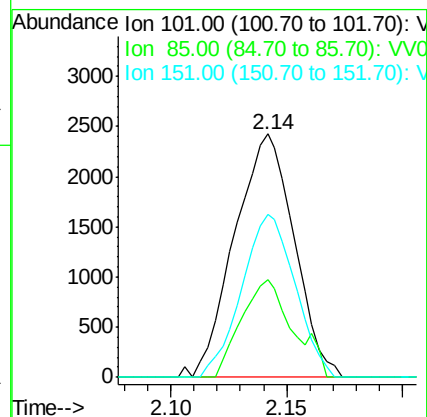
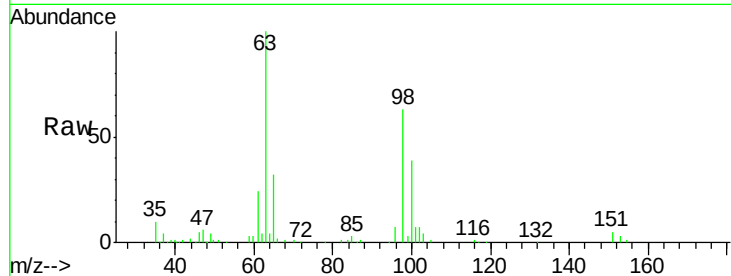
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	4314
Ion Ratio	Lower	Upper	
101	100		
85	31.8	35.0	52.6#
151	60.2	64.4	96.6#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.076 ug/L

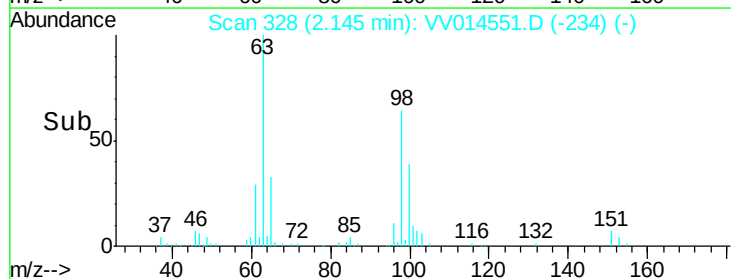
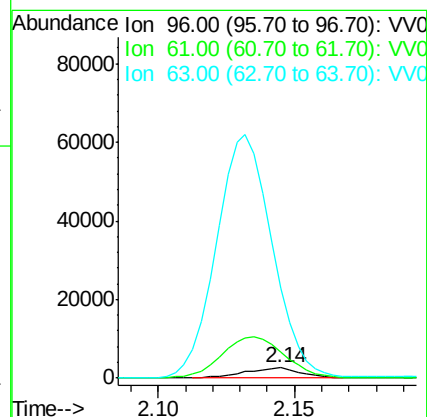
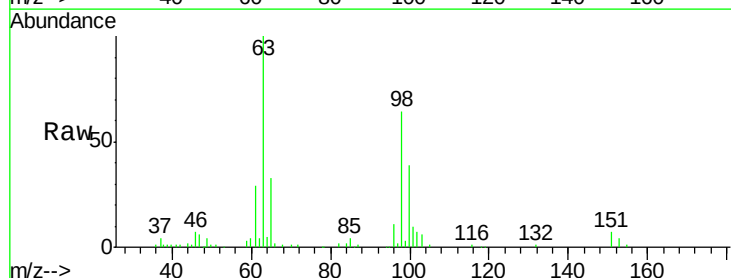
RT: 2.14 min Scan# 328

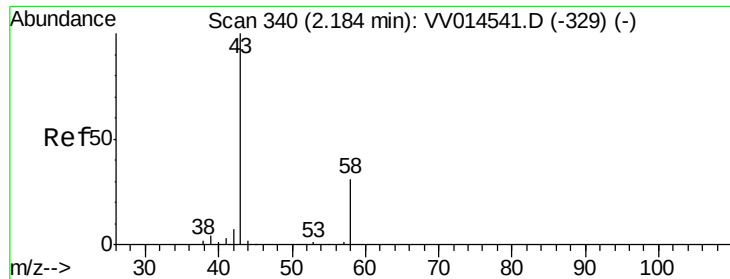
Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion:	96	Resp:	3834
Ion Ratio	Lower	Upper	
96	100		
61	254.5	125.0	232.2#
63	890.0	101.6	188.6#





#13

Acetone

Concen: 6.484 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampled :

MDL07

Tot Ion: 43 Resp: 7371

Ion Ratio Lower Upper

43 100

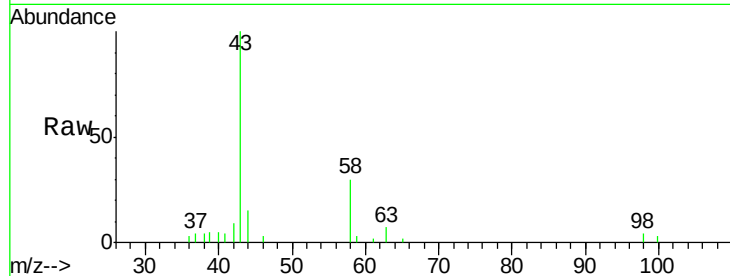
58 28.7 0.0 61.8

Manual Integrations

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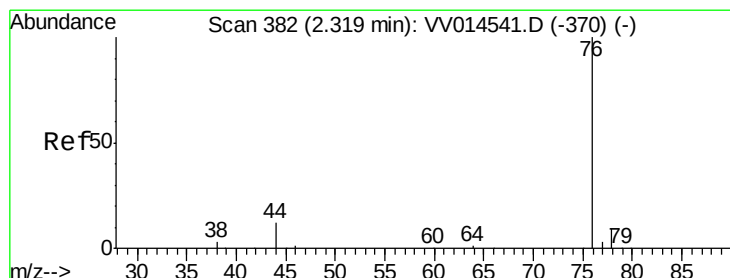
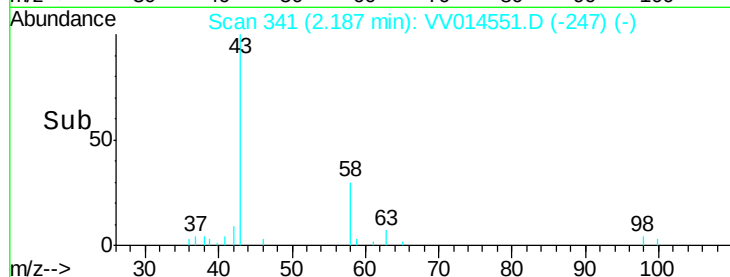
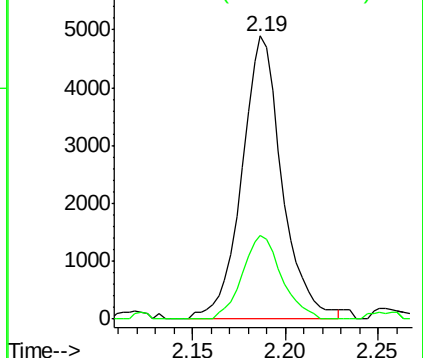
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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.435 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014551.D

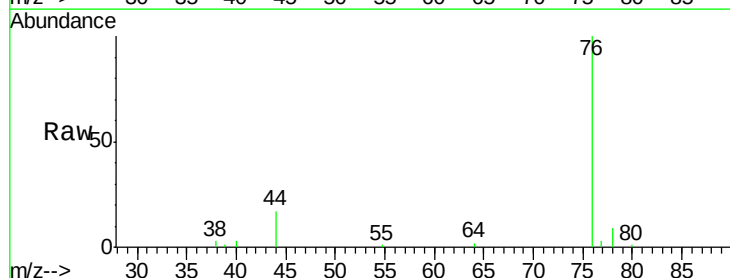
Acq: 10 Feb 2020 14:56

Tgt Ion: 76 Resp: 14739

Ion Ratio Lower Upper

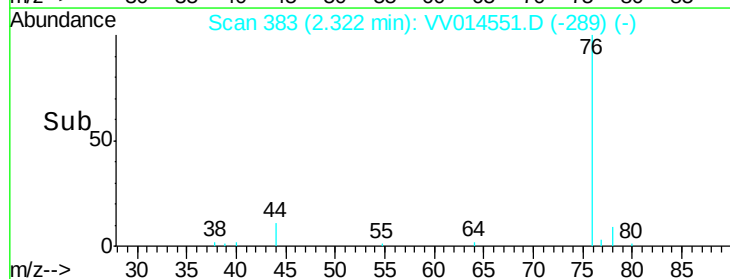
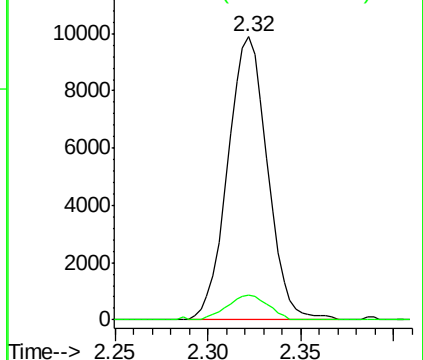
76 100

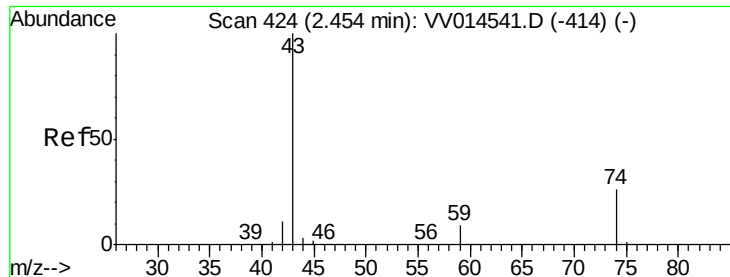
78 8.6 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





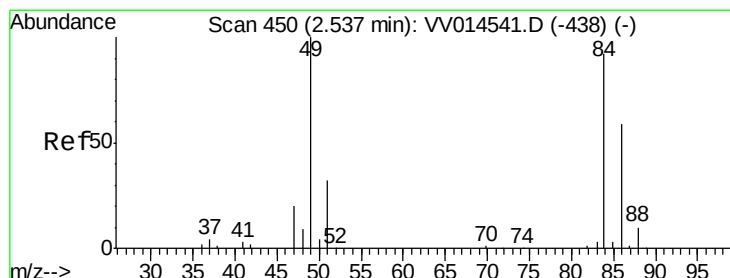
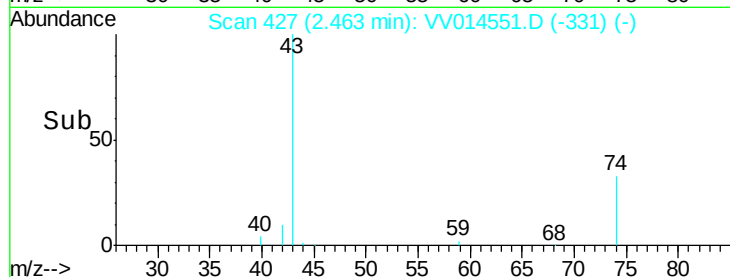
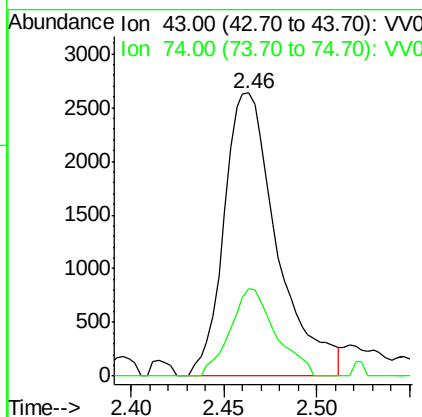
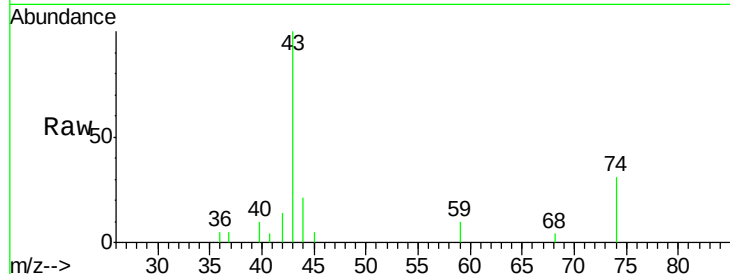
#15
Methvl Acetate
Concen: 2.399 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion: 43 Resp: 5244
Ion Ratio Lower Upper
43 100
74 26.5 19.4 29.0

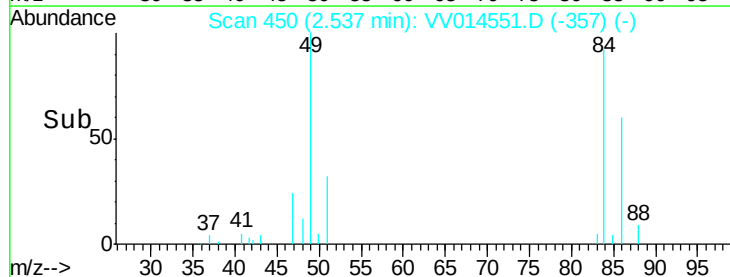
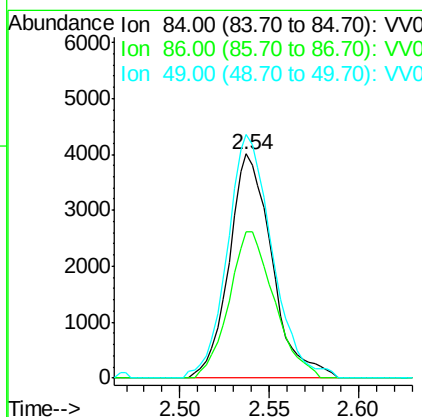
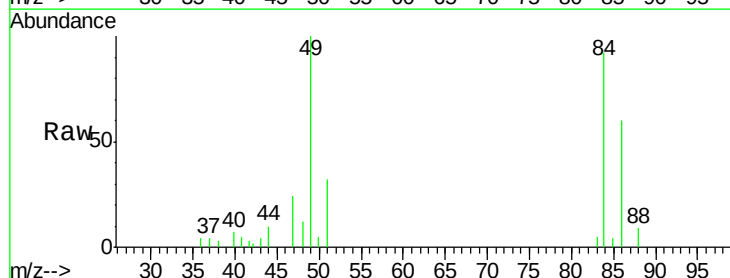
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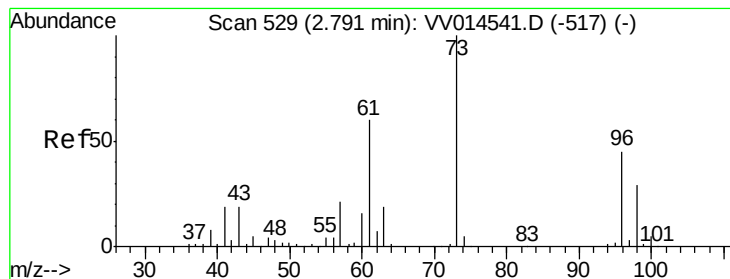
MMDadoda
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#16
Methylene chloride
Concen: 2.832 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Tgt Ion: 84 Resp: 6706
Ion Ratio Lower Upper
84 100
86 65.0 44.6 82.8
49 108.5 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.690 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

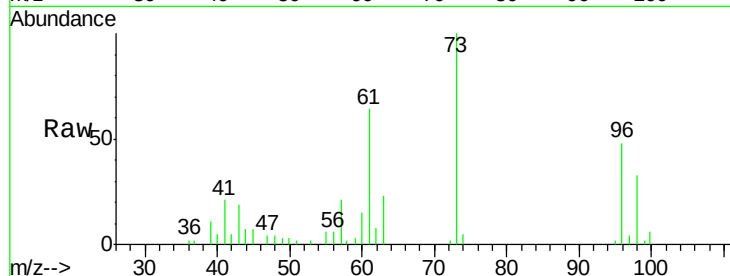
ClientSampleId :

MDL07

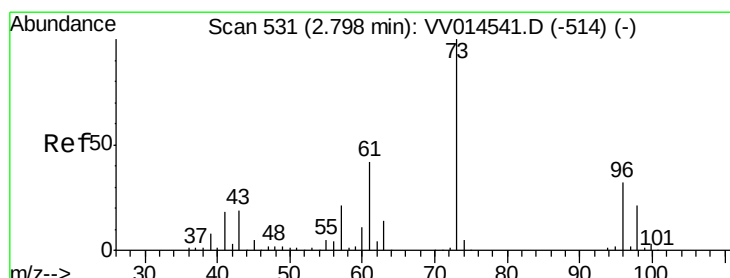
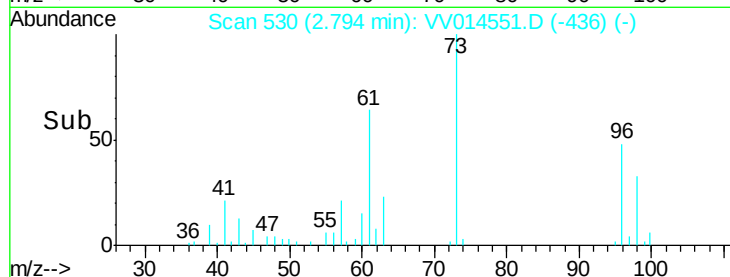
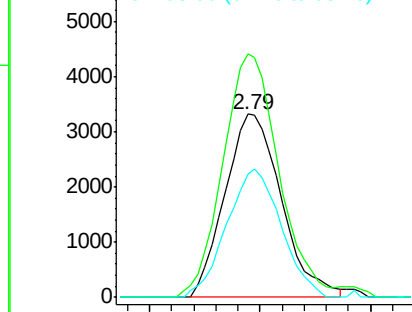
Tot Ion:	96	Resp:	5909
Ion	Ratio	Lower	Upper
96	100		
61	133.1	95.8	178.0
98	67.7	45.1	83.7

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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: 2.588 ug/L

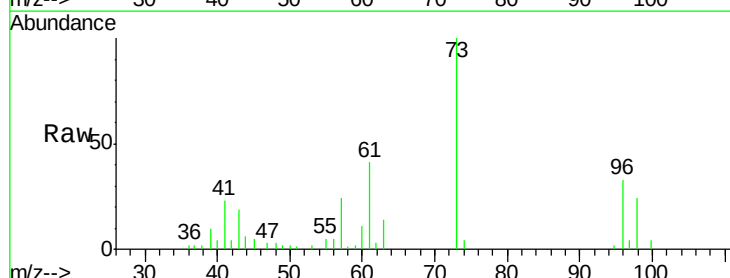
RT: 2.80 min Scan# 533

Delta R.T. 0.01 min

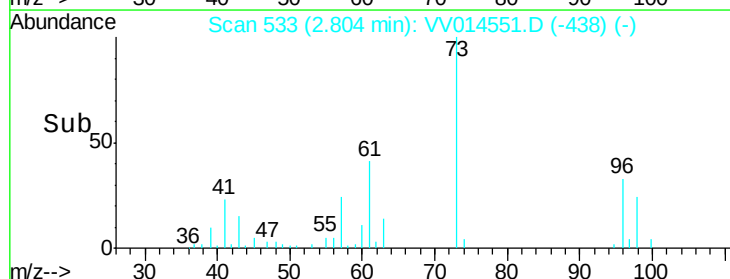
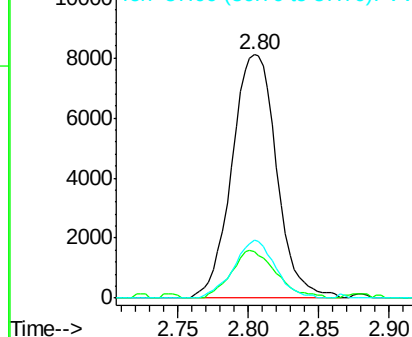
Lab File: VV014551.D

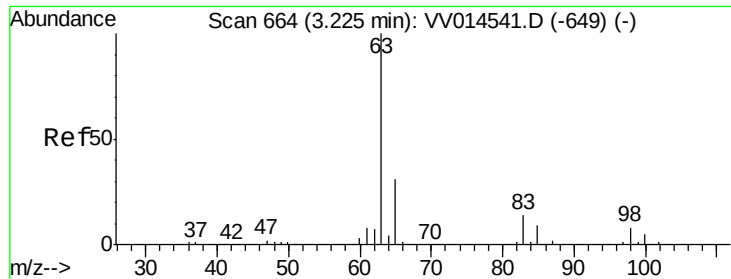
Acq: 10 Feb 2020 14:56

Tgt Ion:	73	Resp:	17998
Ion	Ratio	Lower	Upper
73	100		
43	19.5	14.9	22.3
57	22.1	17.5	26.3



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





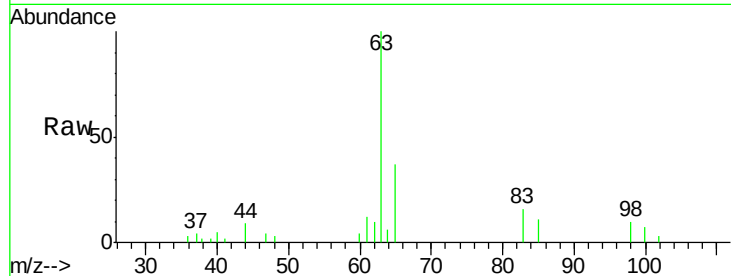
#19
 1,1-Dichloroethane
 Concen: 2.368 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampled :
 MDL07

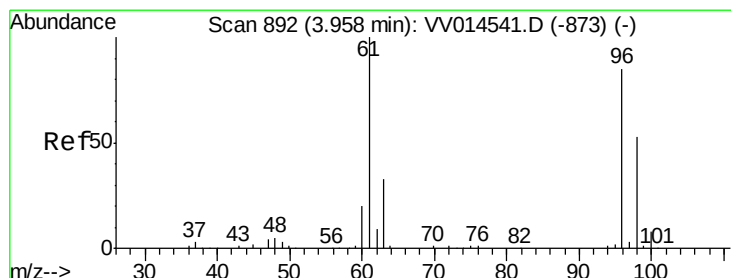
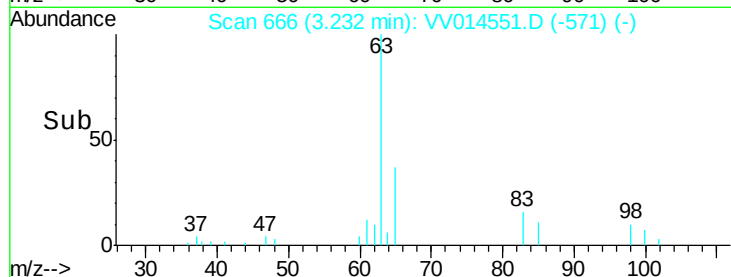
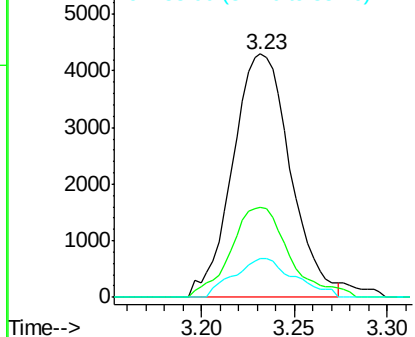
Tot Ion:	63	Resp:	9302
Ion	Ratio	Lower	Upper
63	100		
65	36.9	22.5	41.7
83	15.7	9.7	18.1

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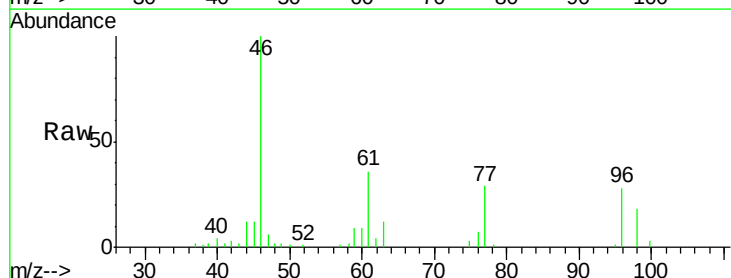


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

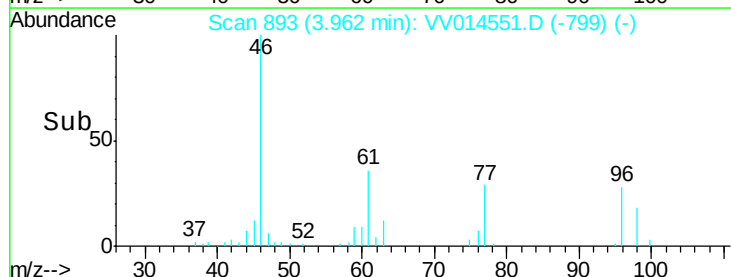
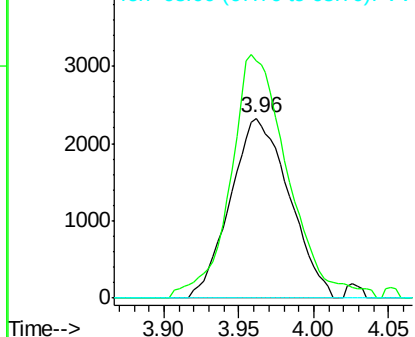


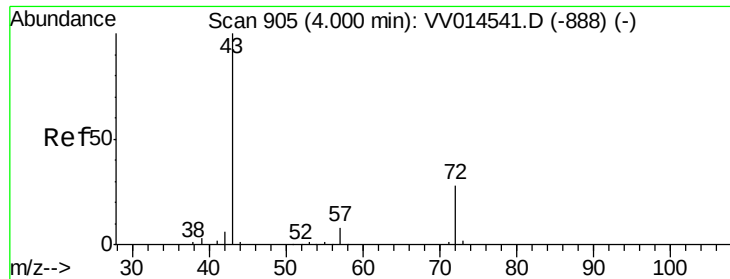
#20
 cis-1,2-Dichloroethene
 Concen: 2.578 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion:	96	Resp:	6371
Ion	Ratio	Lower	Upper
96	100		
61	132.0	85.2	158.2
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 4.076 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.03 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 6853

Ion Ratio Lower Upper

43 100

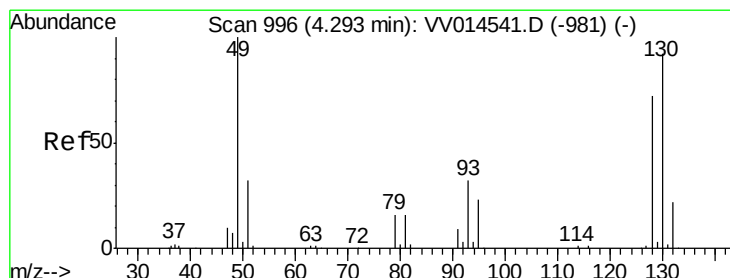
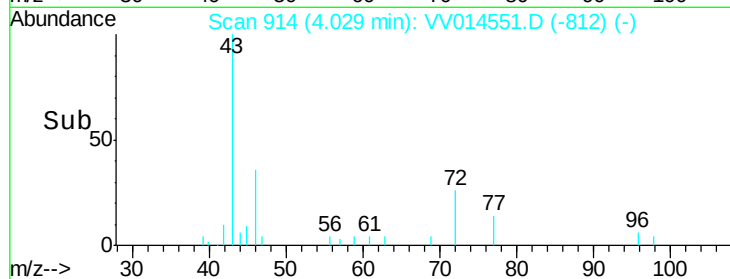
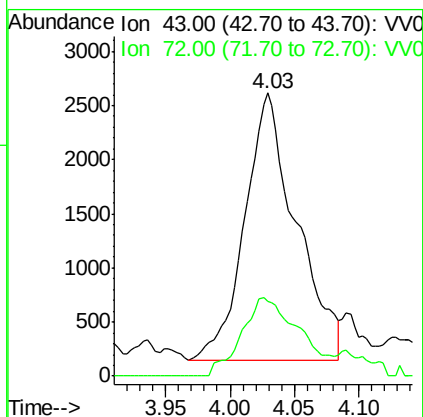
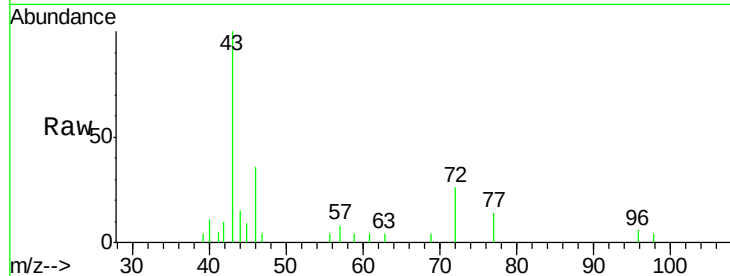
72 31.7 12.7 38.1

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#23

Bromochloromethane

Concen: 2.803 ug/L m

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion: 128 Resp: 3281

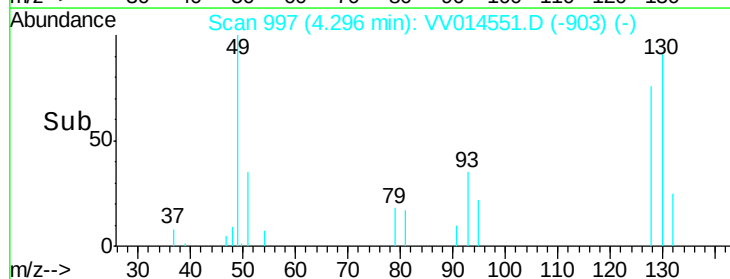
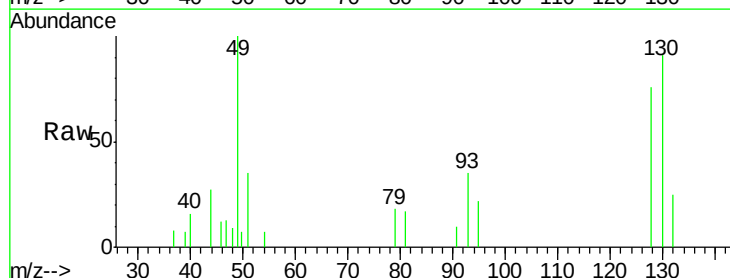
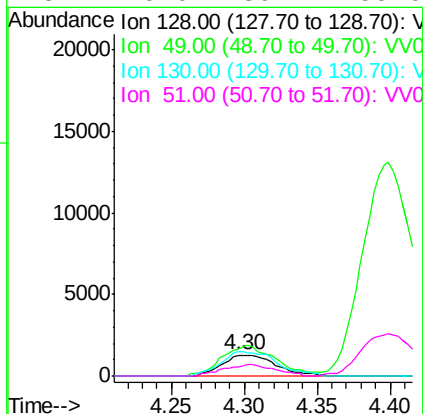
Ion Ratio Lower Upper

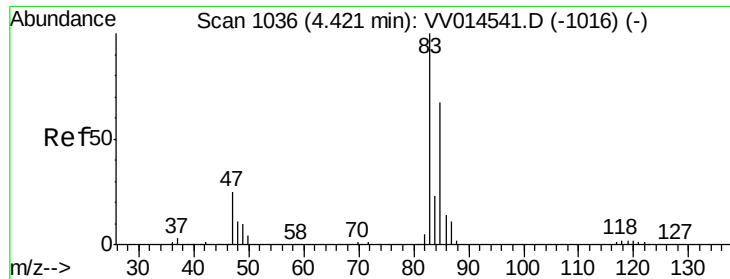
128 100

49 132.1 110.1 204.5

130 119.9 88.5 164.4

51 46.0 39.4 59.0





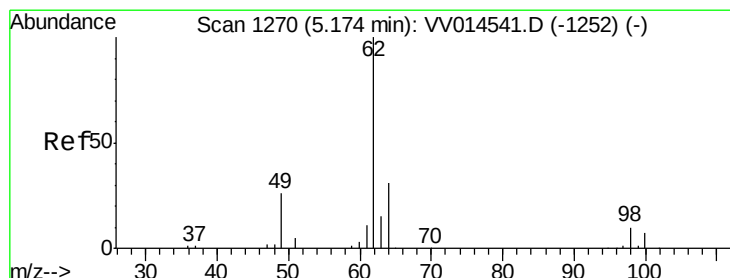
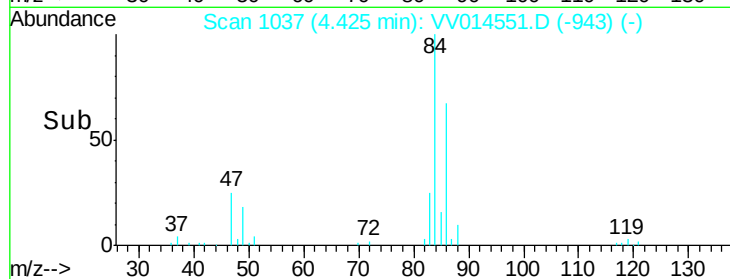
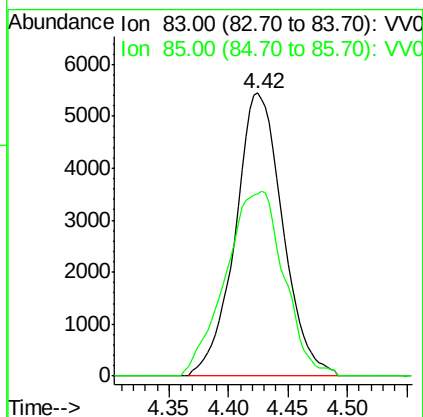
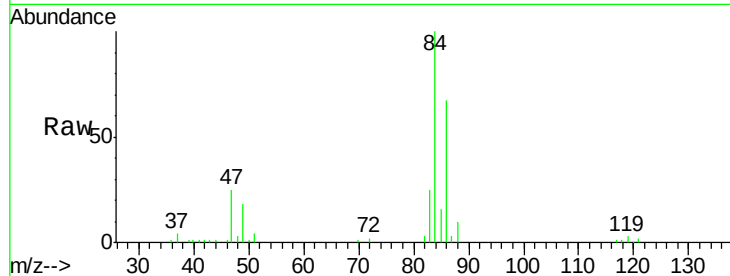
#25
Chloroform
Concen: 3.779 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion	83	Resp	15093
Ion Ratio	100	Lower	Upper
85	64.5	45.8	85.0

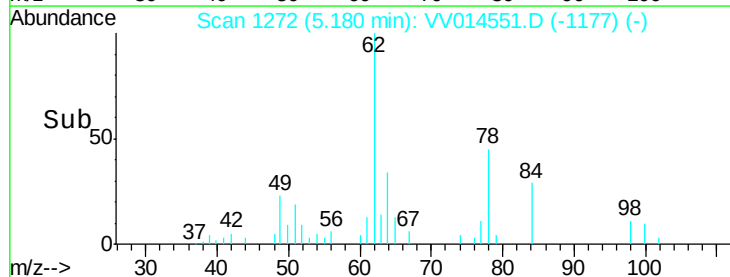
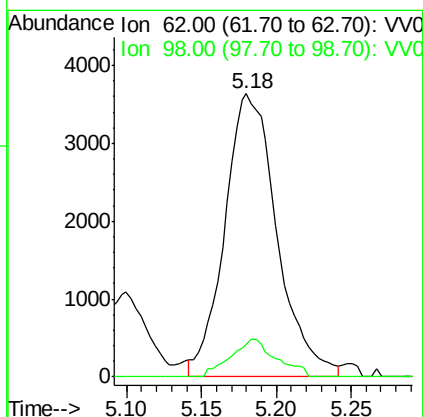
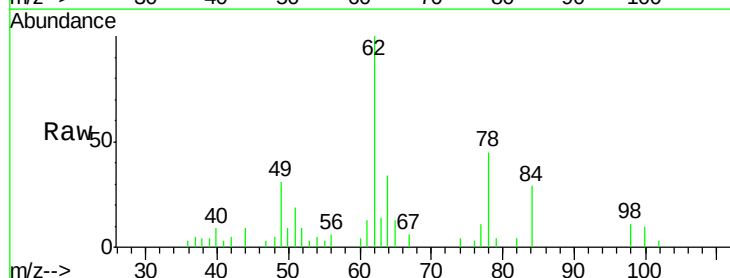
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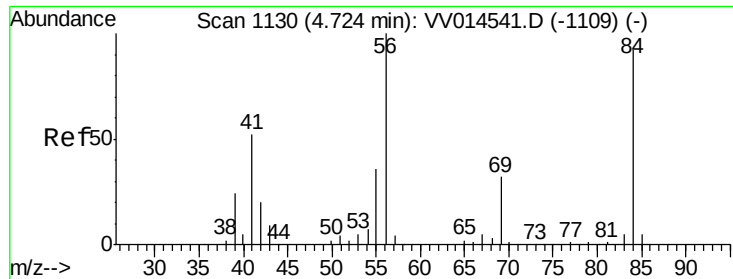
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#27
1,2-Dichloroethane
Concen: 2.972 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Tgt Ion	62	Resp	8845
Ion Ratio	100	Lower	Upper
98	11.5	8.2	12.4





#29

Cyclohexane

Concen: 2.497 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

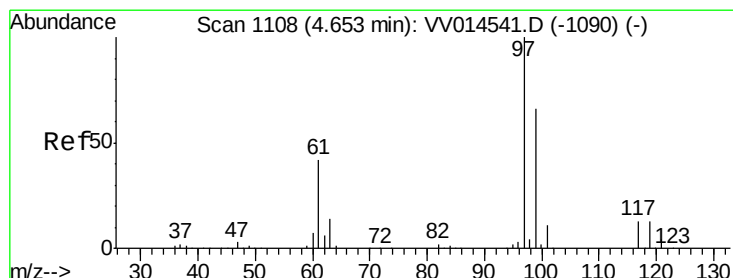
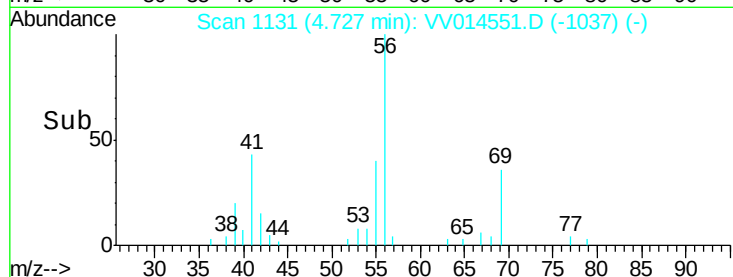
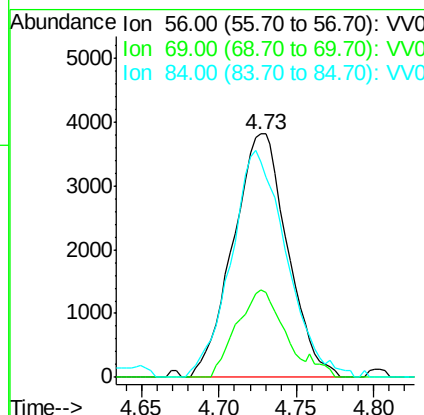
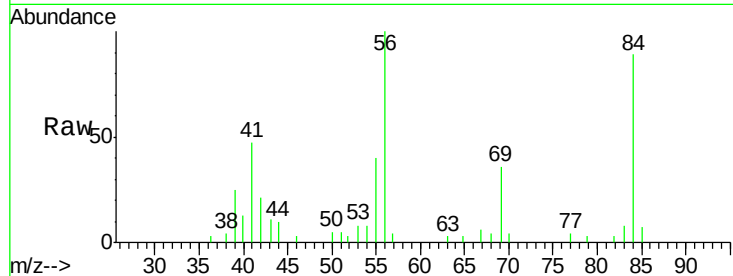
ClientSampled :

MDL07

Tot Ion:	56	Resp:	9326
Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.2	37.8
84	93.1	69.8	104.8

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#30

1,1,1-Trichloroethane

Concen: 2.763 ug/L

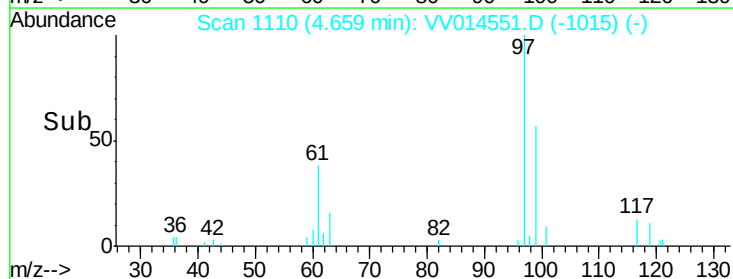
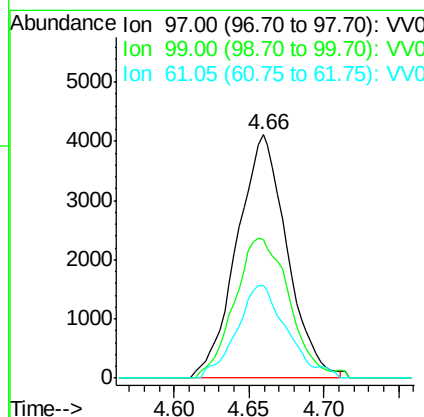
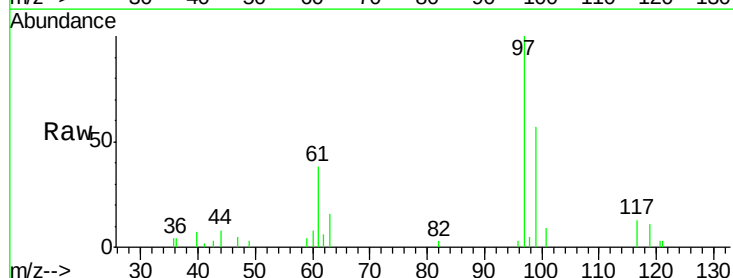
RT: 4.66 min Scan# 1110

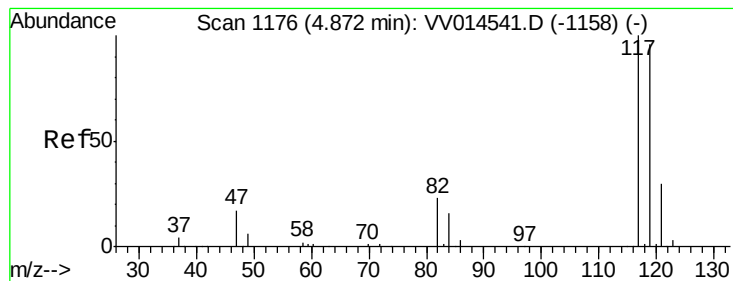
Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion:	97	Resp:	9577
Ion	Ratio	Lower	Upper
97	100		
99	62.5	50.6	76.0
61	37.2	33.0	49.4





#31

Carbon tetrachloride

Concen: 2.839 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion:117 Resp: 8683

Ion Ratio Lower Upper

117 100

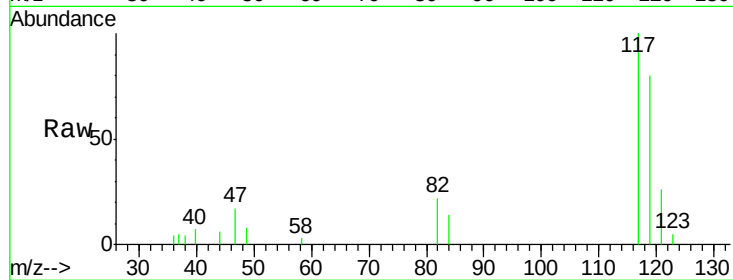
119 88.3 76.7 115.1

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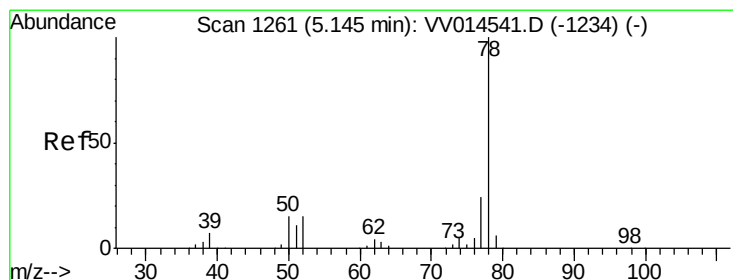
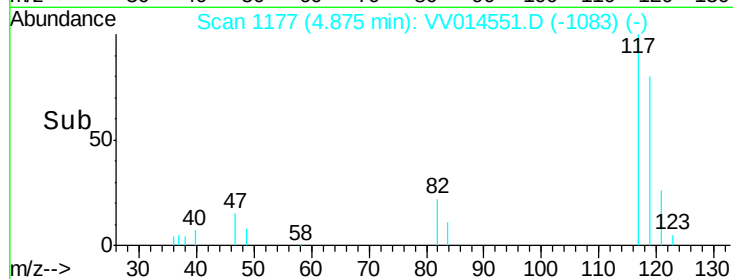
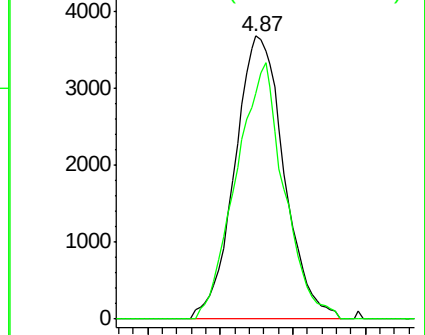
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.730 ug/L

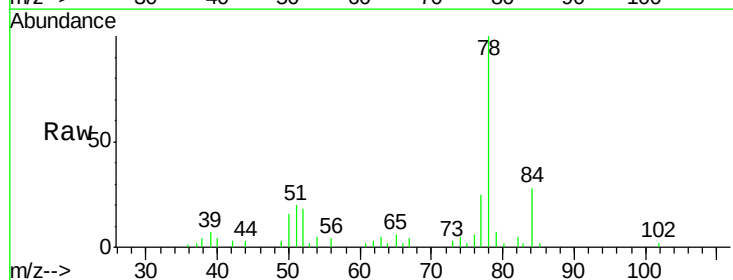
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

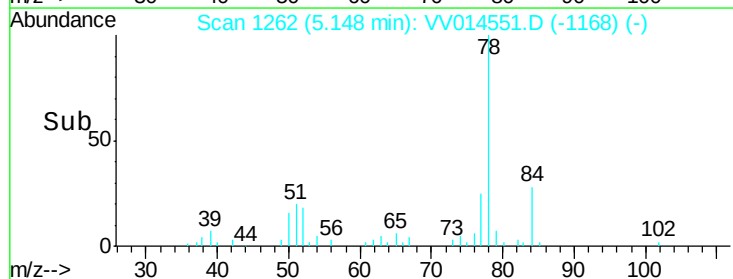
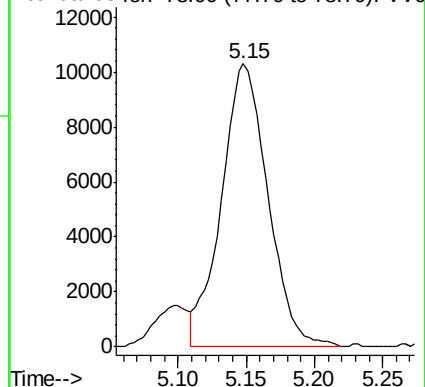
Lab File: VV014551.D

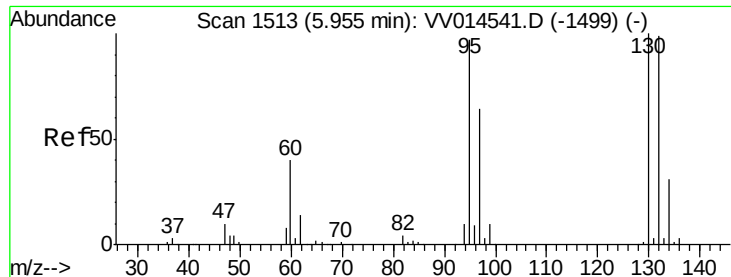
Acq: 10 Feb 2020 14:56

Tgt Ion: 78 Resp: 24378



Abundance Ion 78.00 (77.70 to 78.70): VV0





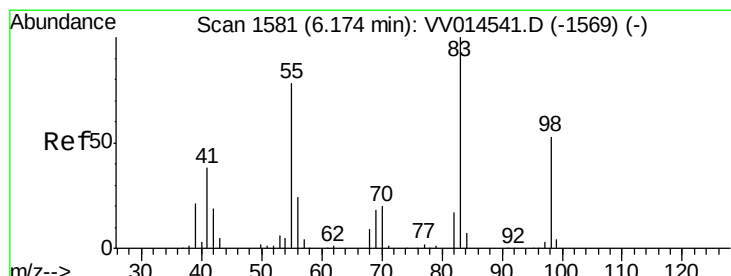
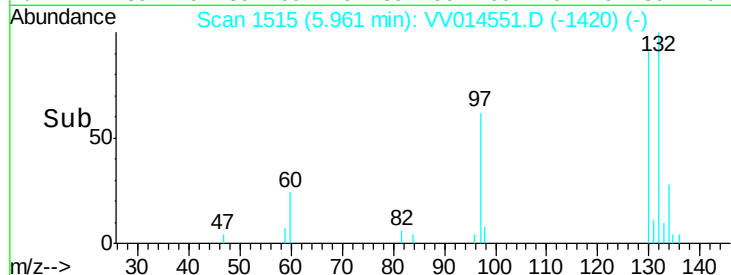
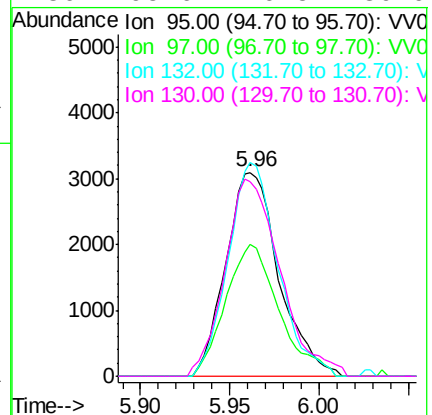
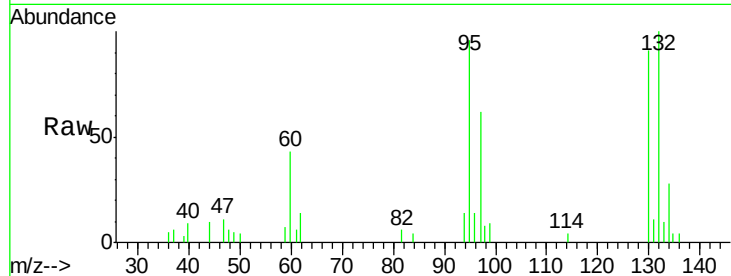
#34
 Trichloroethene
 Concen: 2.715 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampled :
 MDL07

Tot Ion: 95 Resp: 6426
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.1 83.7
 132 104.6 67.7 125.7
 130 95.6 70.5 130.9

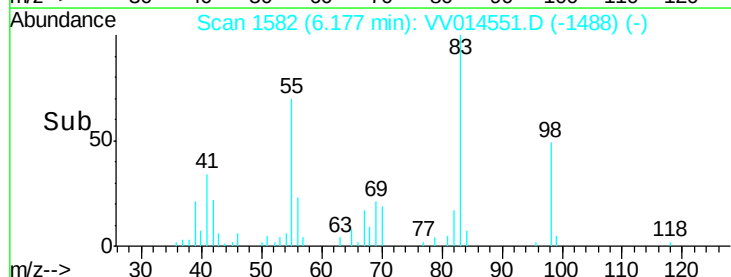
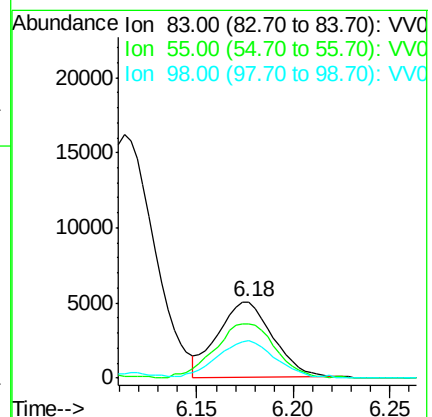
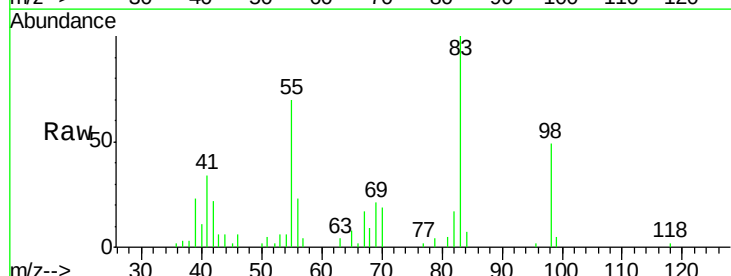
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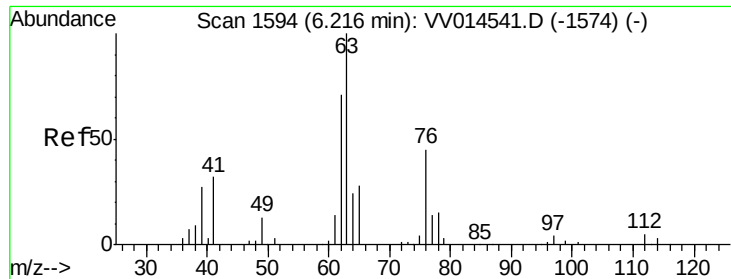
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#35
 Methylcyclohexane
 Concen: 2.543 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion: 83 Resp: 9837
 Ion Ratio Lower Upper
 83 100
 55 79.7 60.7 91.1
 98 52.7 39.4 59.0





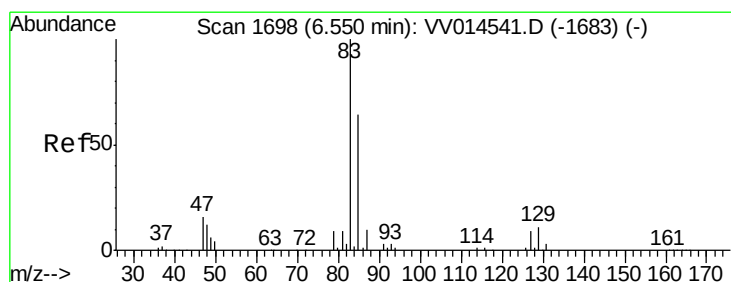
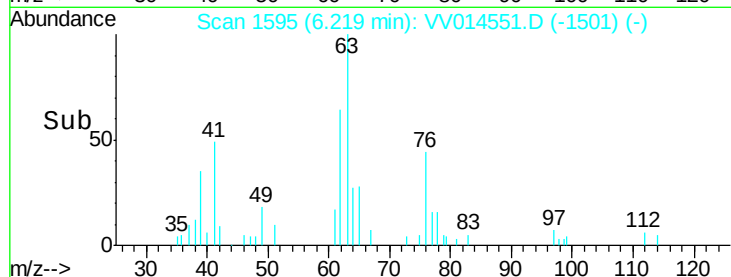
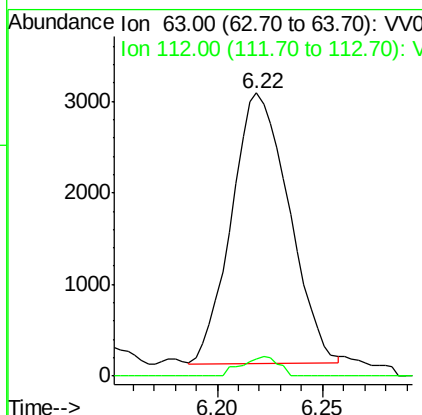
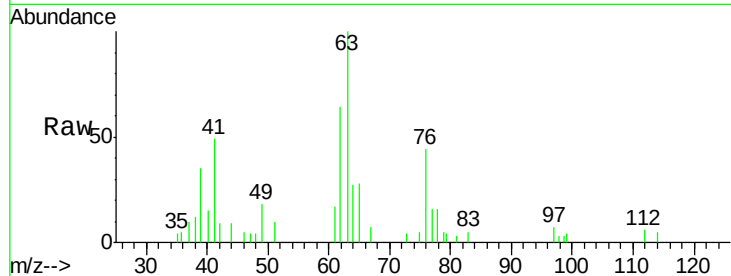
#37
 1,2-Dichloropropane
 Concen: 2.449 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion: 63 Resp: 5571
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.7 5.5

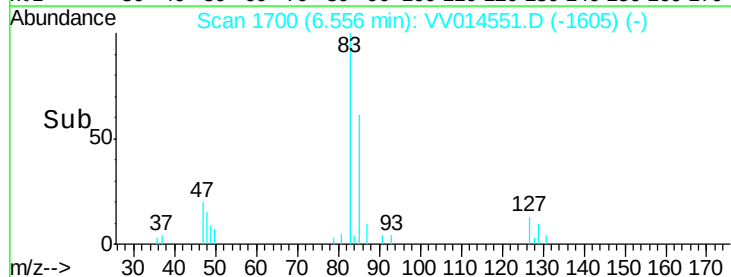
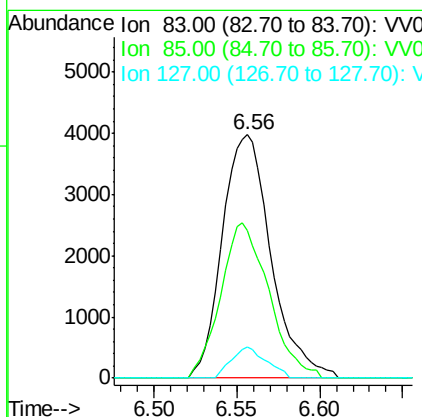
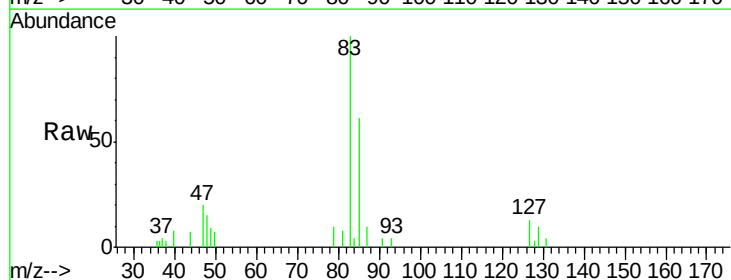
Manual Integrations
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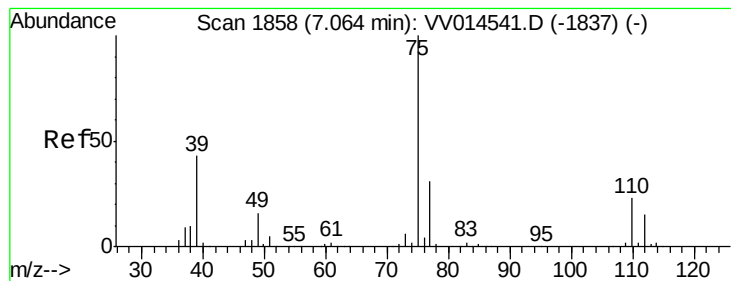
MMDadoda
 2/12/2020 3:06:31 PM



#38
 Bromodichloromethane
 Concen: 2.664 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.01 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion: 83 Resp: 8133
 Ion Ratio Lower Upper
 83 100
 85 60.5 44.4 82.4
 127 12.8 6.7 10.1#





#39

cis-1,3-Dichloropropene

Concen: 2.605 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampled :

MDL07

Tot Ion: 75 Resp: 9885

Ion Ratio Lower Upper

75 100

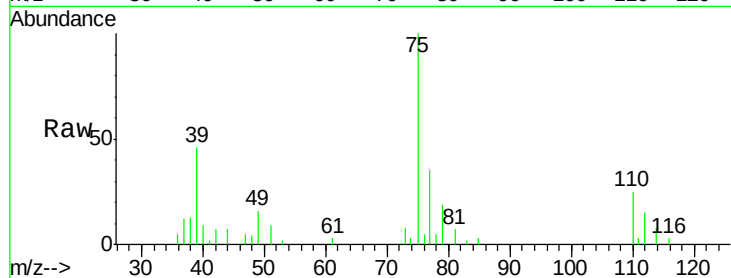
77 35.1 22.7 42.1

Manual Integrations

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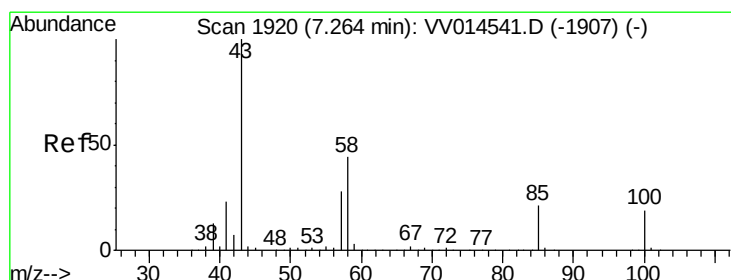
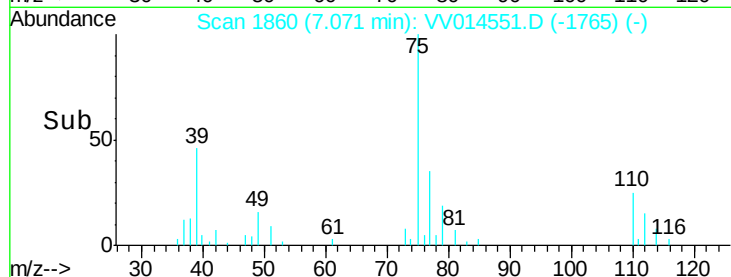
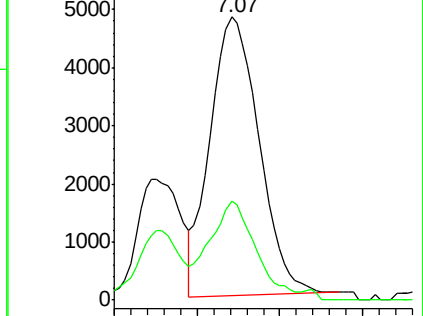
MMDadoda

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Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#40

4-Methyl-2-pentanone

Concen: 4.579 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

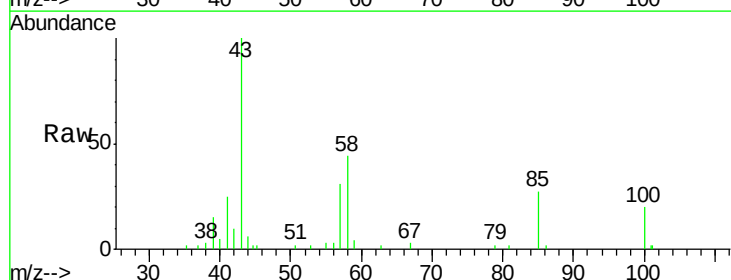
Tgt Ion: 43 Resp: 13458

Ion Ratio Lower Upper

43 100

58 41.4 33.2 49.8

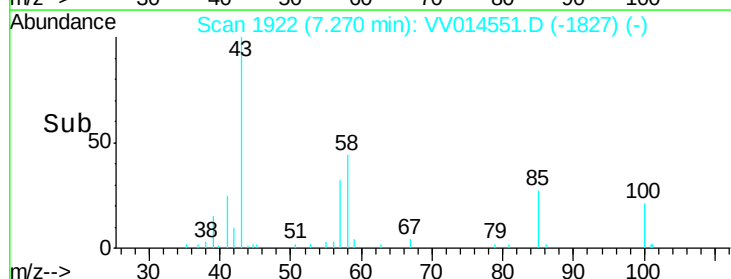
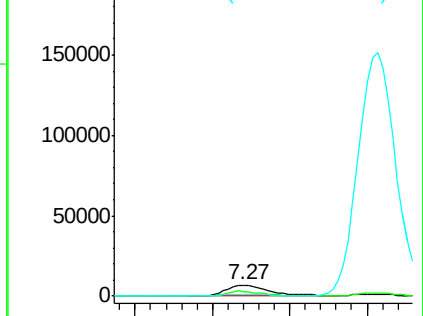
100 19.0 13.9 20.9

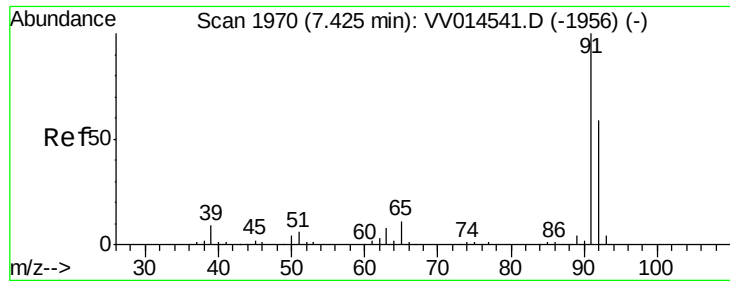


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#42

Toluene

Concen: 2.740 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 26239

Ion Ratio Lower Upper

91 100

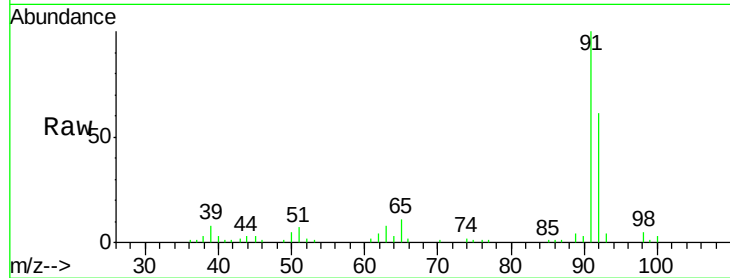
92 60.9 41.6 77.2

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

15000

10000

5000

0

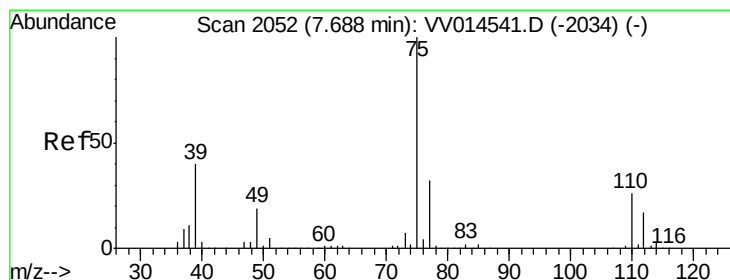
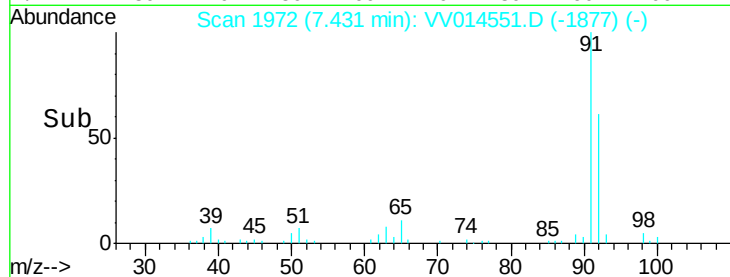
Time-->

7.35

7.40

7.45

7.50



#44

trans-1,3-Dichloropropene

Concen: 2.818 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VV014551.D

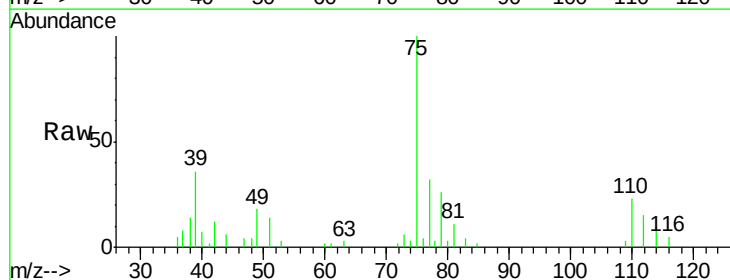
Acq: 10 Feb 2020 14:56

Tgt Ion: 75 Resp: 9586

Ion Ratio Lower Upper

75 100

77 31.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

6000

5000

4000

3000

2000

1000

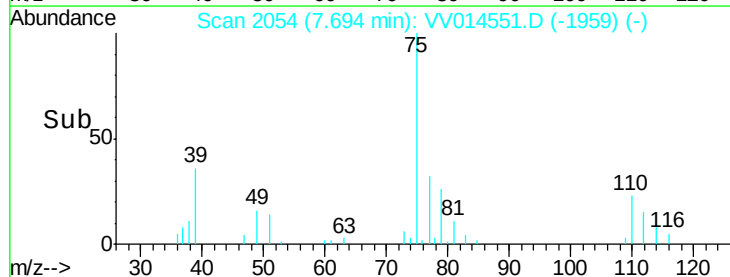
0

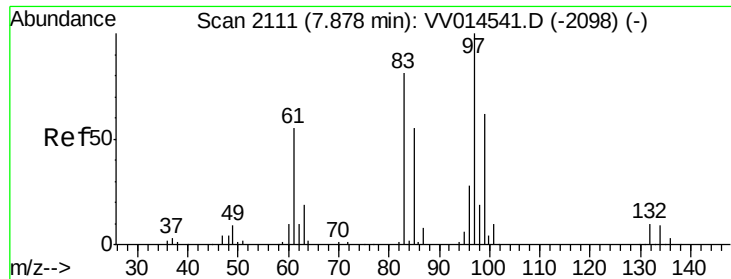
Time-->

7.65

7.70

7.75





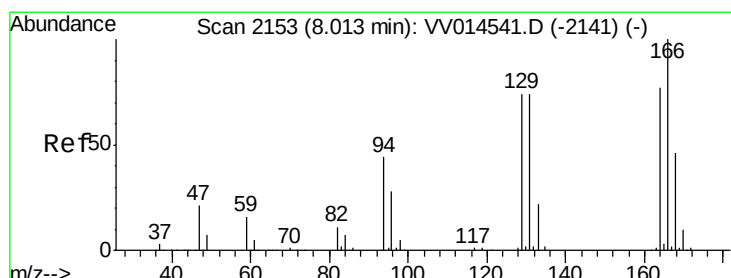
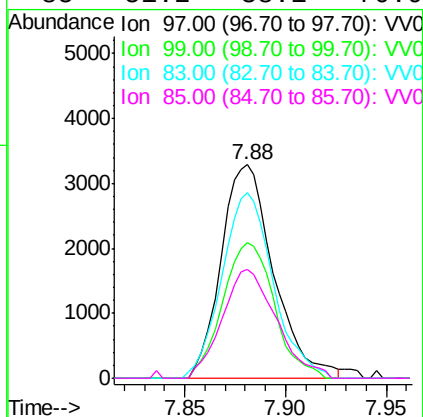
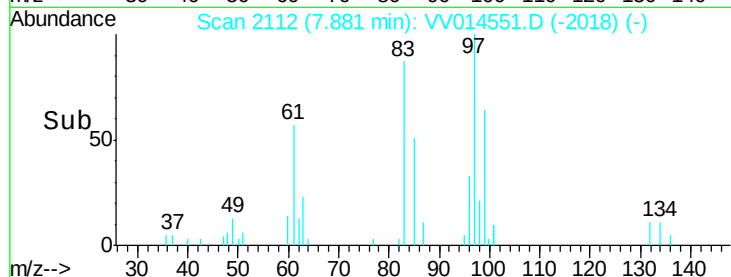
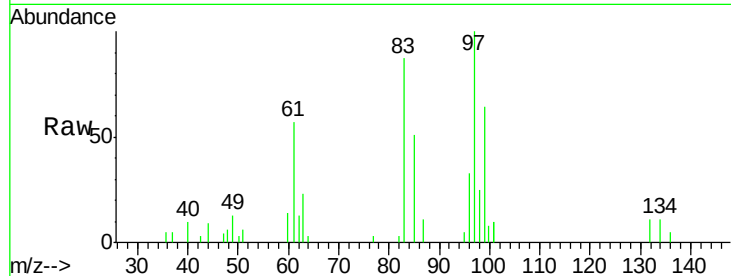
#45
1,1,2-Trichloroethane
Concen: 2.743 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Instrument :
MSVOA_V
ClientSampled :
MDL07

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		5985		
99	63.8	44.5	82.7		
83	86.8	60.1	111.5		
85	51.2	38.1	70.9		

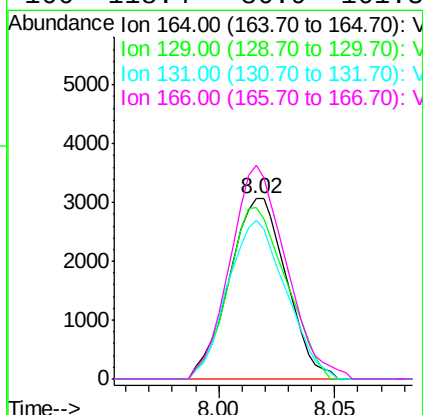
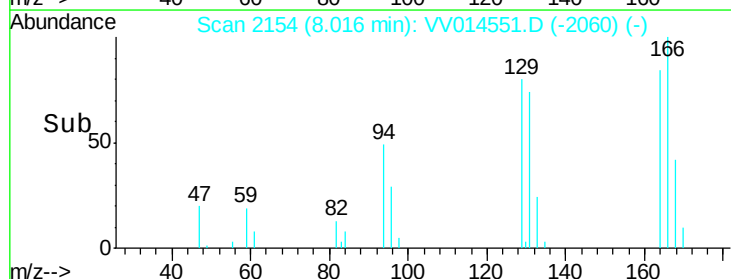
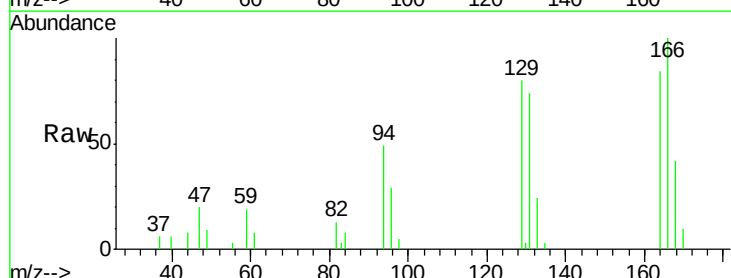
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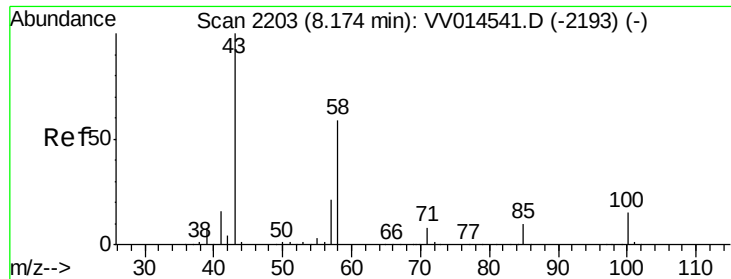
MMDadoda
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#46
Tetrachloroethene
Concen: 2.892 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		5222		
129	95.0	68.0	126.4		
131	87.6	63.4	117.8		
166	118.4	86.9	161.3		





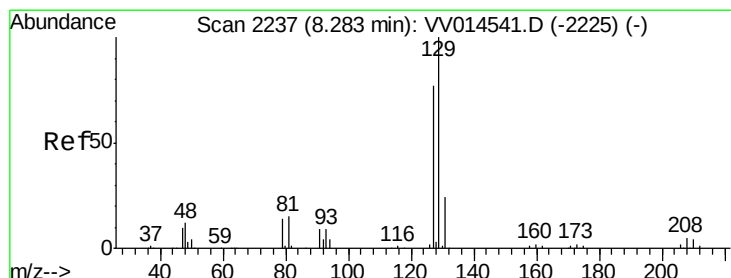
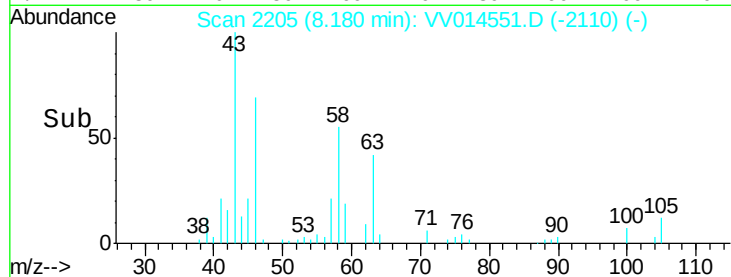
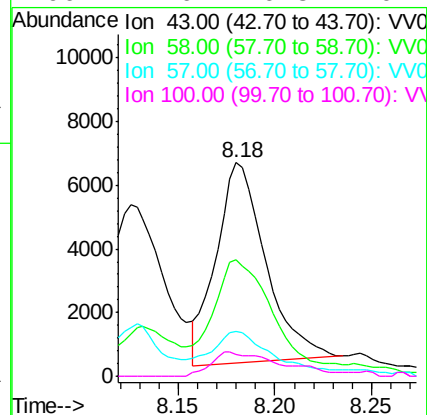
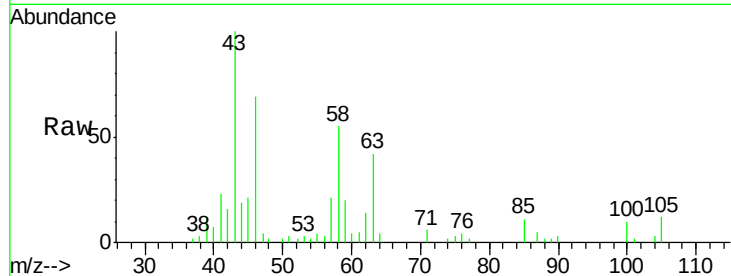
#48
2-Hexanone
Concen: 4.959 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Instrument :
MSVOA_V
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	60.5	45.5	68.3
57	20.9	15.8	23.6
100	7.6	10.8	16.2

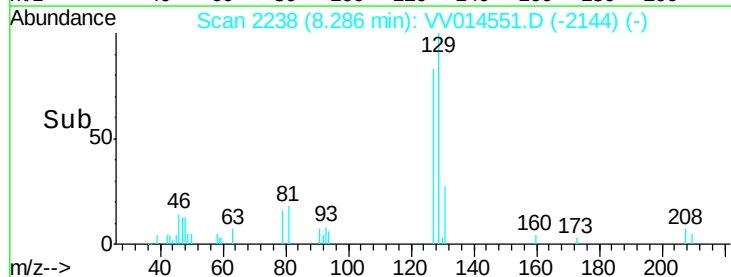
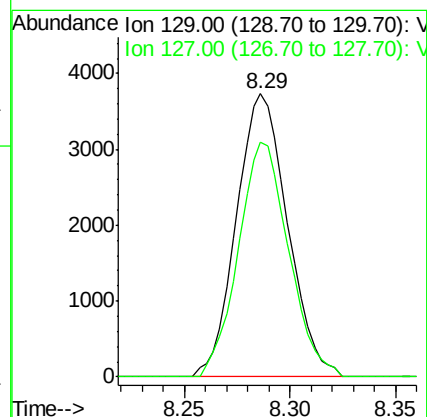
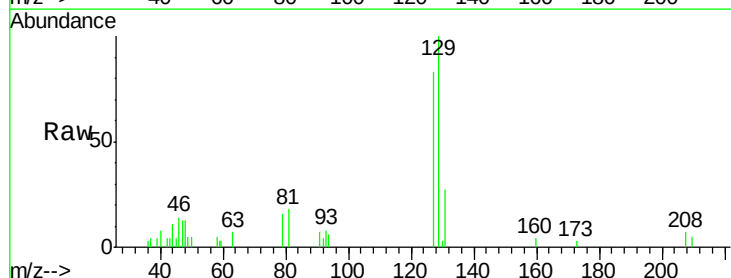
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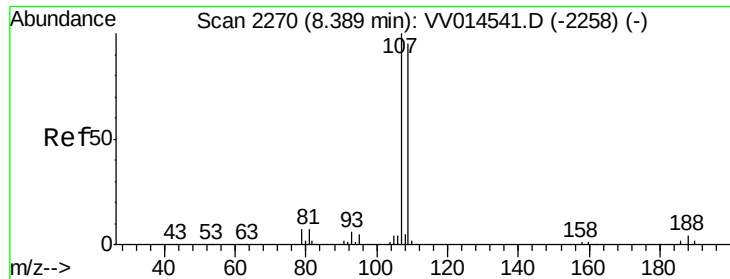
MMDadoda
2/12/2020 3:06:31 PM



#49
Dibromochloromethane
Concen: 2.549 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	83.0	54.1	100.5





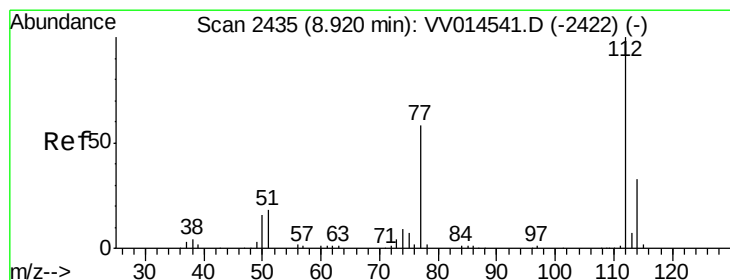
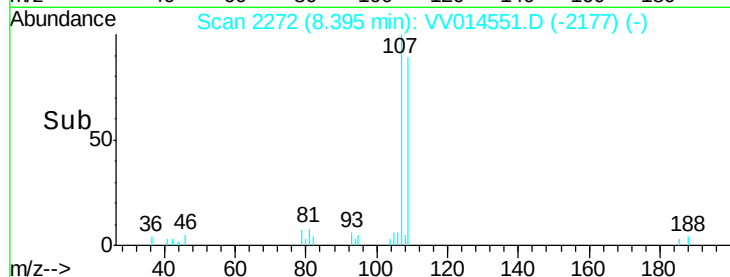
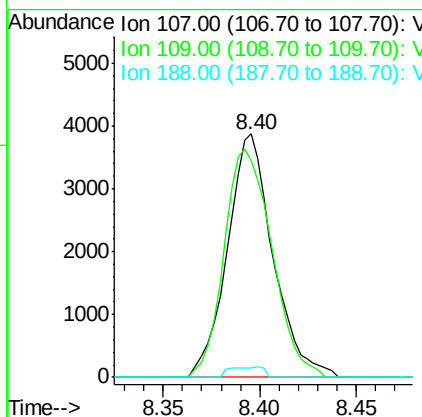
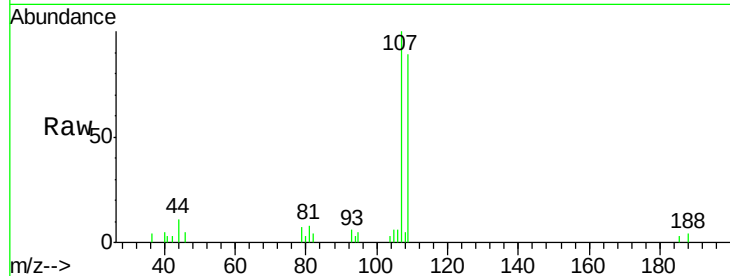
#50
 1,2-Dibromoethane
 Concen: 2.684 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.9	65.2	121.2
188	4.1	2.6	4.0#

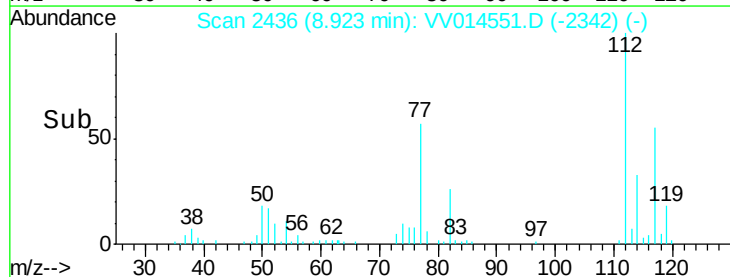
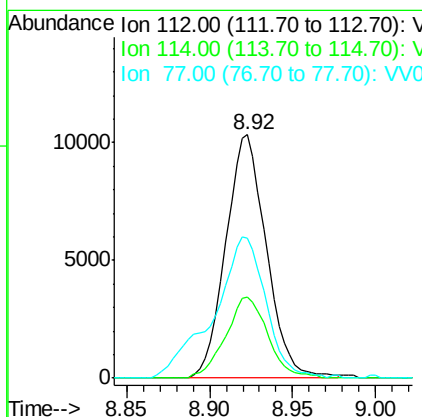
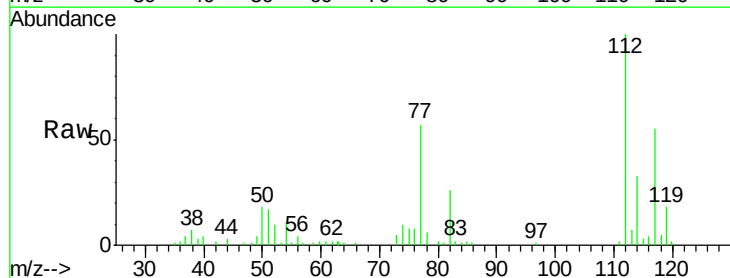
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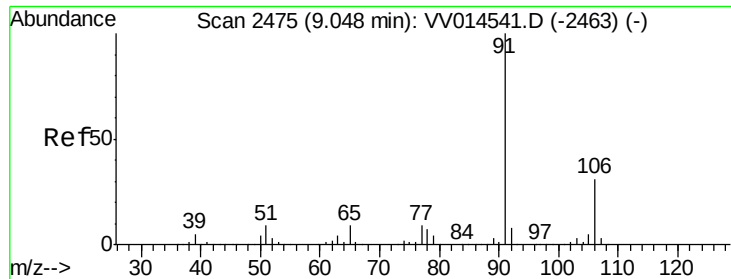
MMDadoda
 2/12/2020 3:06:31 PM



#51
 Chlorobenzene
 Concen: 2.819 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.1	22.3	41.5
77	57.4	47.3	70.9





#52

Ethylbenzene

Concen: 2.696 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 28949

Ion Ratio Lower Upper

91 100

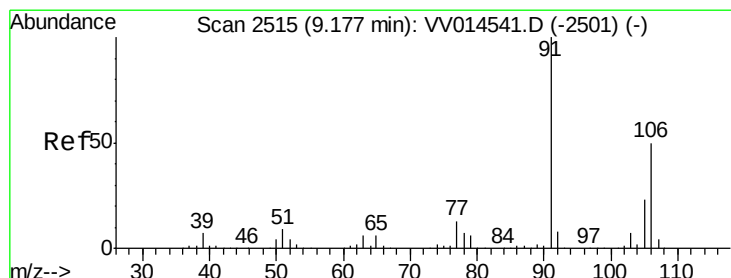
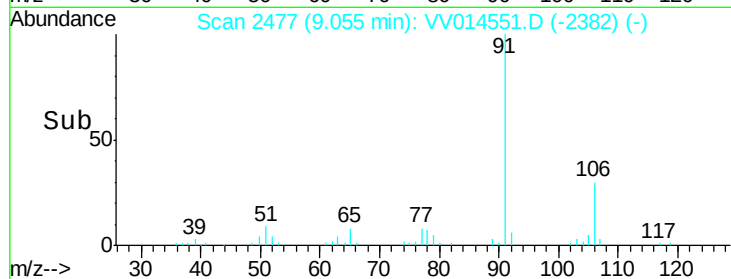
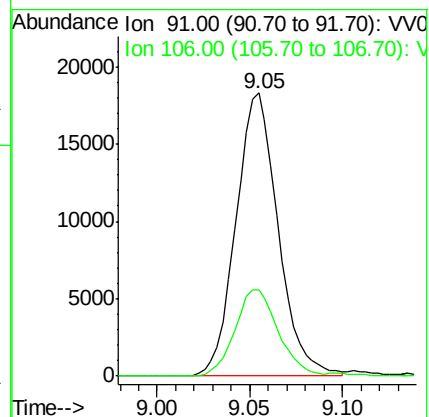
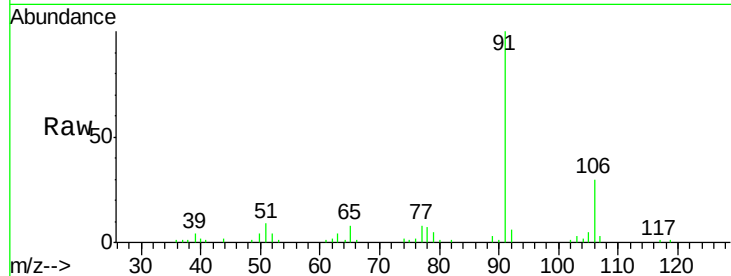
106 30.4 21.5 39.9

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#53

m,p-Xylene

Concen: 2.498 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014551.D

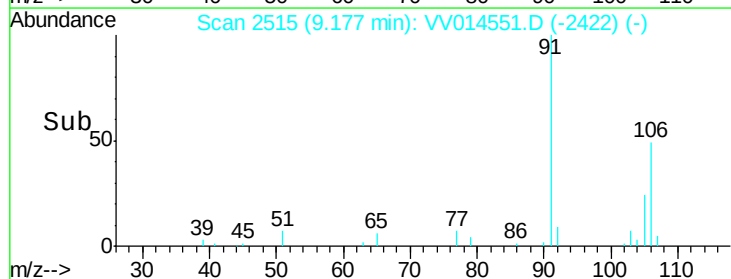
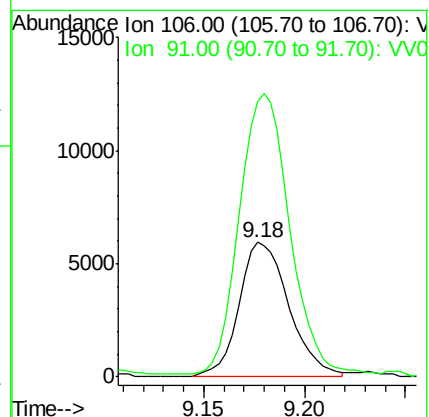
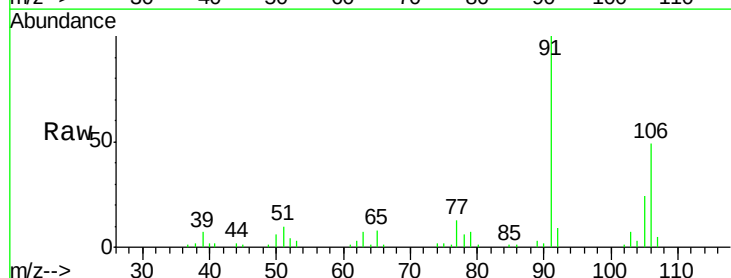
Acq: 10 Feb 2020 14:56

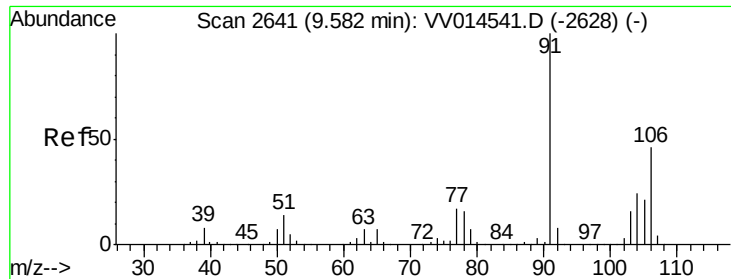
Tgt Ion: 106 Resp: 10333

Ion Ratio Lower Upper

106 100

91 204.8 141.4 262.6





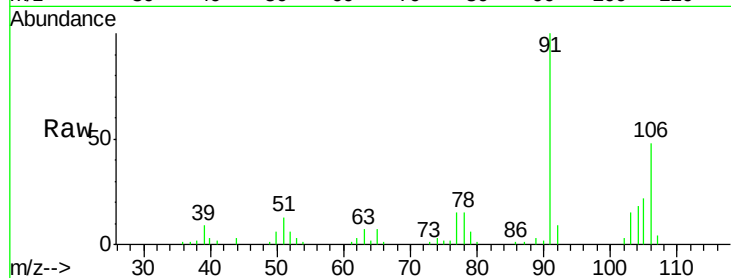
#54
o-Xylene
Concen: 2.657 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Instrument :
MSVOA_V
ClientSampleId :
MDL07

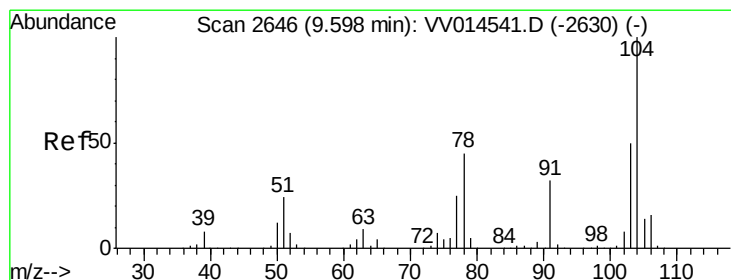
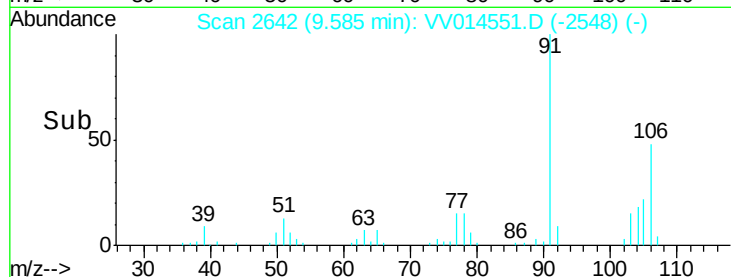
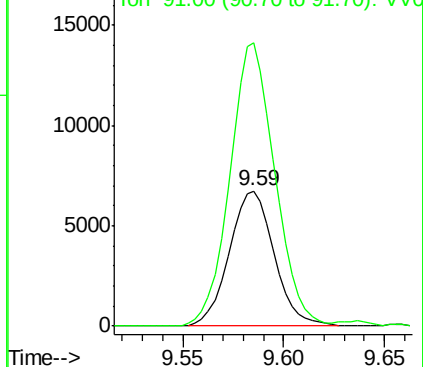
Tot Ion:106 Resp: 10519
Ion Ratio Lower Upper
106 100
91 209.6 149.4 277.4

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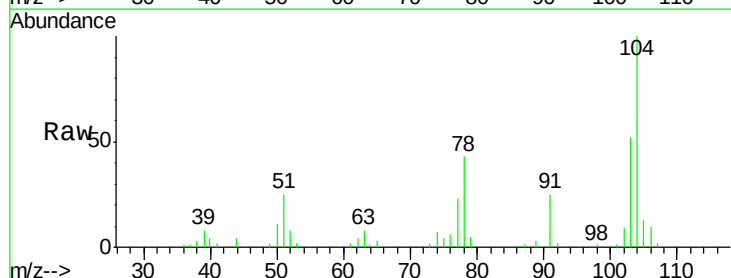


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

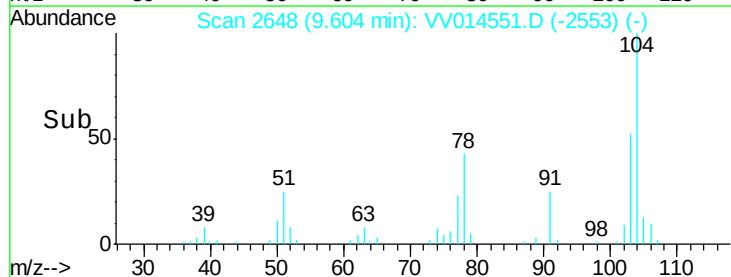
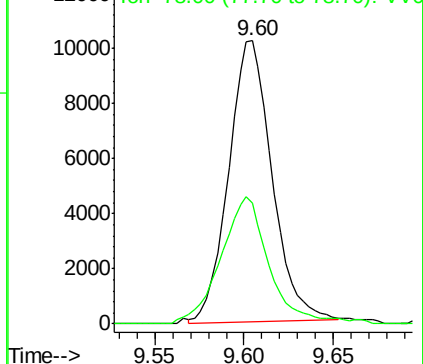


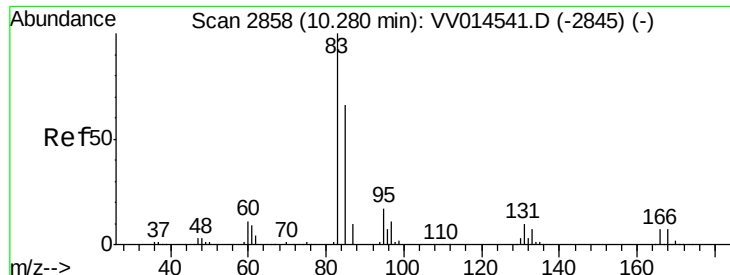
#55
Styrene
Concen: 2.565 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.01 min
Lab File: VV014551.D
Acq: 10 Feb 2020 14:56

Tgt Ion:104 Resp: 17351
Ion Ratio Lower Upper
104 100
78 42.6 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 3.084 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

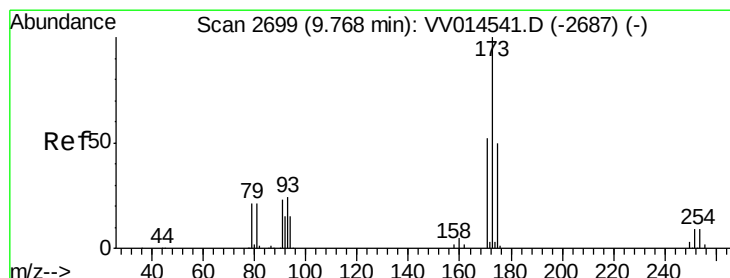
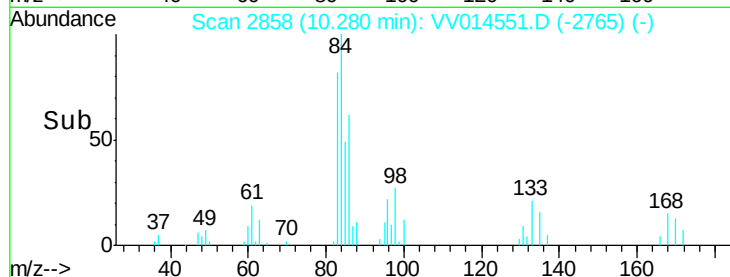
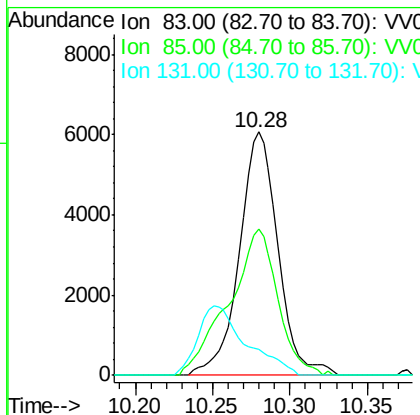
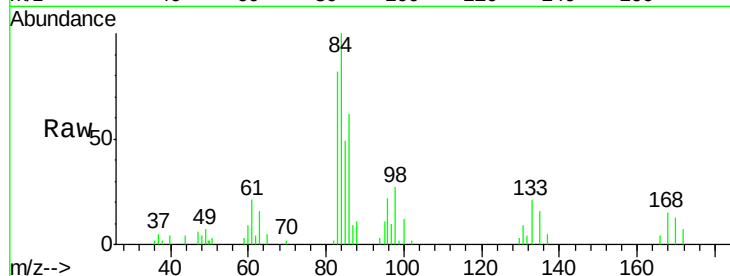
ClientSampleId :

MDL07

Tot Ion:	83	Resp:	10548
Ion Ratio	Lower	Upper	
83	100		
85	59.9	45.2	84.0
131	10.4	7.8	11.8

Manual Integrations
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#59

Bromoform

Concen: 2.492 ug/L

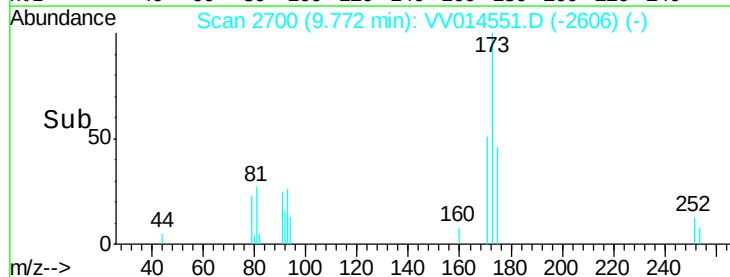
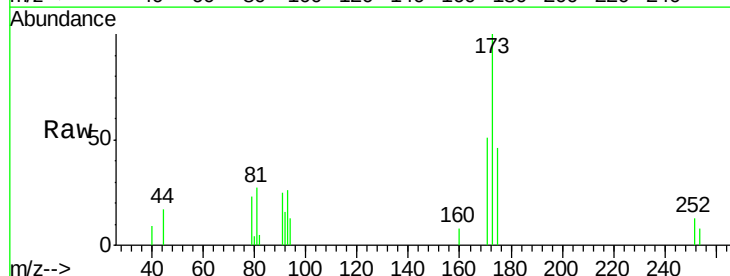
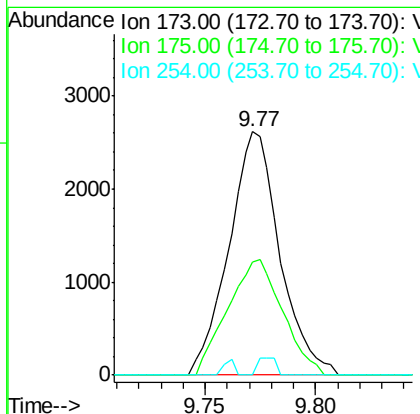
RT: 9.77 min Scan# 2700

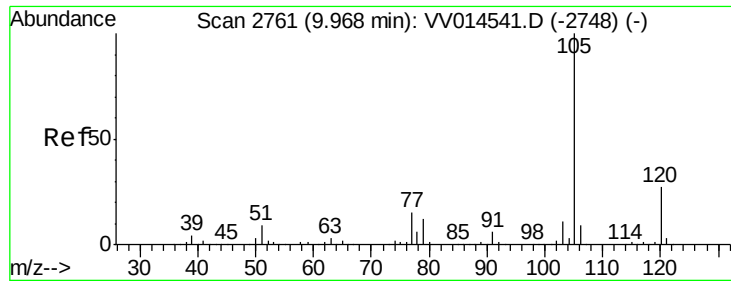
Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion:	173	Resp:	4200
Ion Ratio	Lower	Upper	
173	100		
175	51.0	37.8	56.8
254	2.5	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.709 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

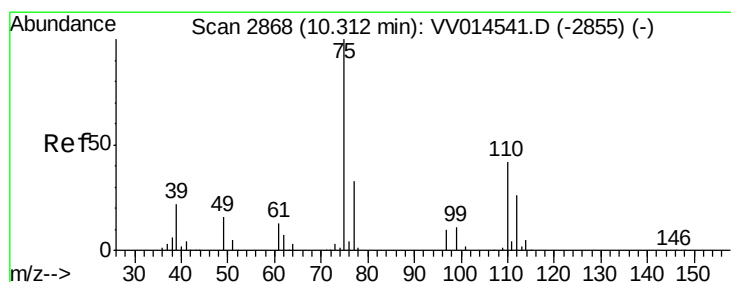
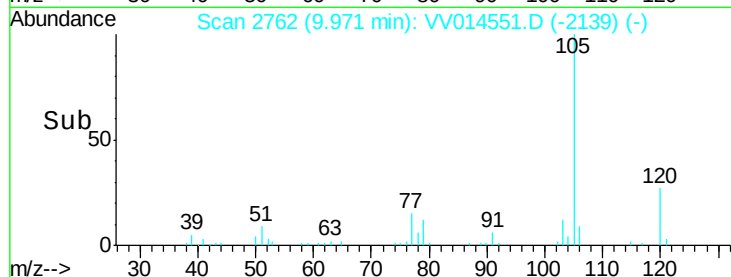
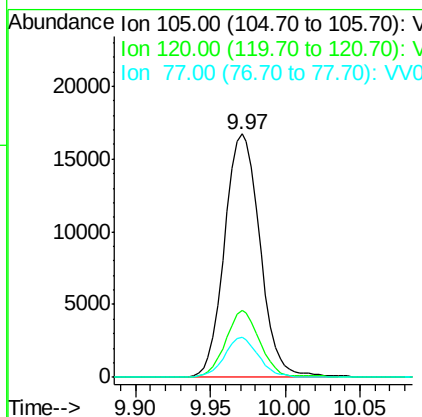
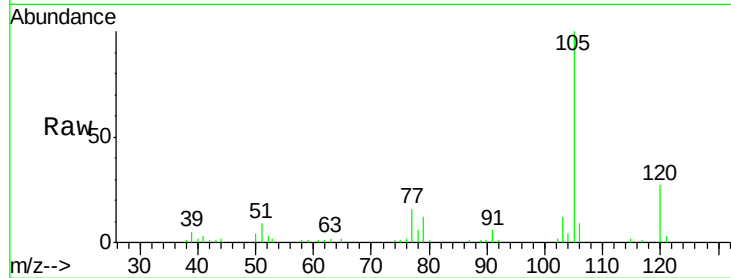
ClientSampled :

MDL07

Tot Ion:	105	Resp:	27676
Ion Ratio	Lower	Upper	
105	100		
120	26.3	21.5	32.3
77	15.7	12.2	18.4

Manual Integrations
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#61

1,2,3-Trichloropropane

Concen: 2.850 ug/L

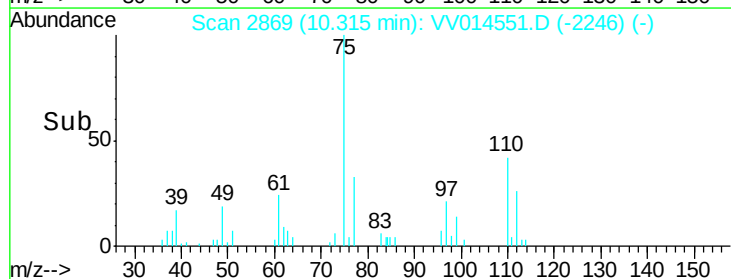
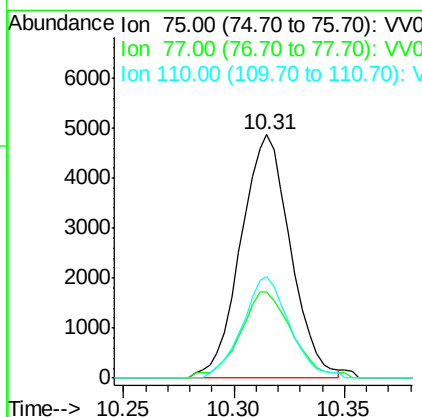
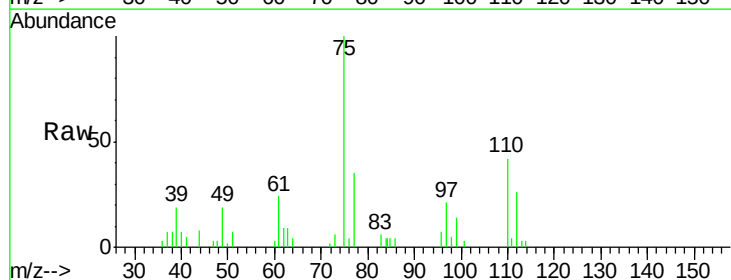
RT: 10.31 min Scan# 2869

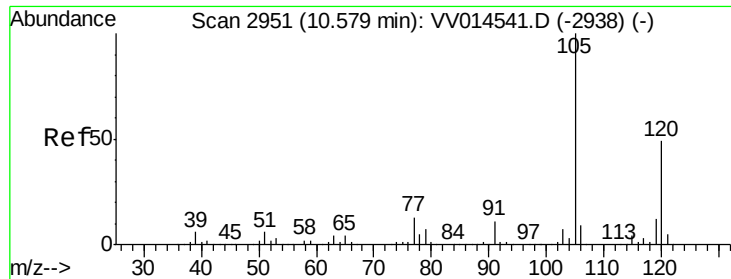
Delta R.T. 0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion:	75	Resp:	7627
Ion Ratio	Lower	Upper	
75	100		
77	36.2	25.8	38.8
110	39.3	32.4	48.6





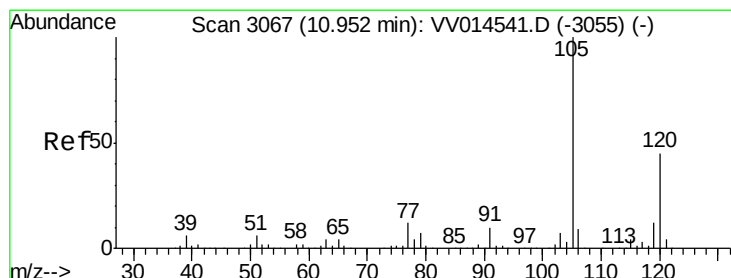
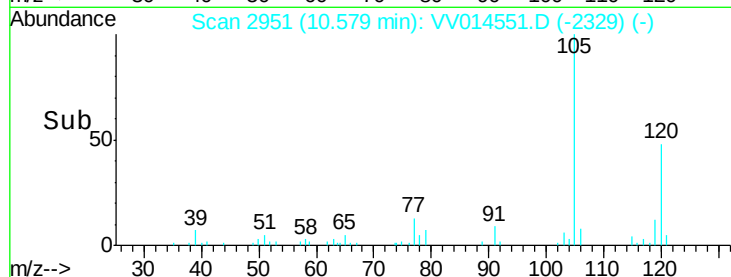
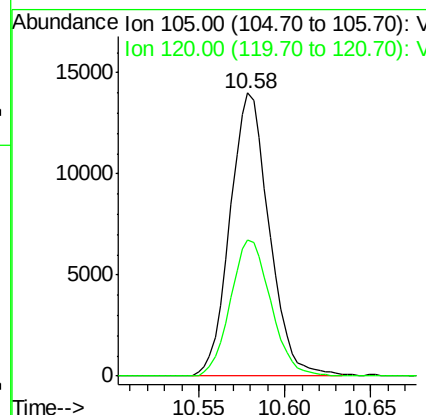
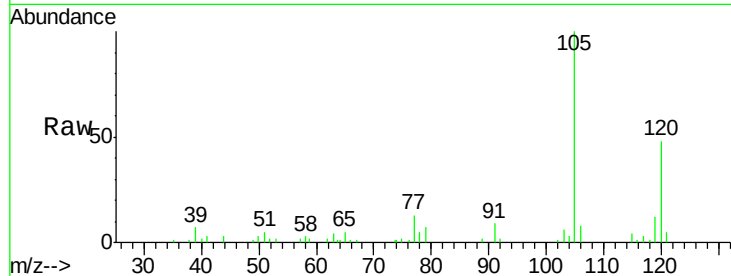
#62
 1,3,5-Trimethylbenzene
 Concen: 2.537 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion:105 Resp: 22189
 Ion Ratio Lower Upper
 105 100
 120 49.6 39.0 58.6

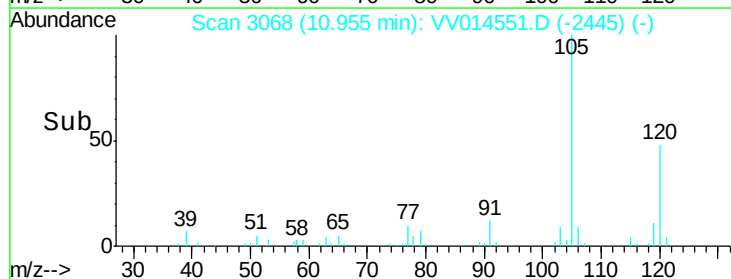
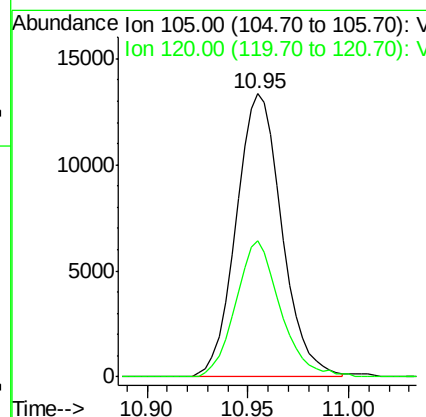
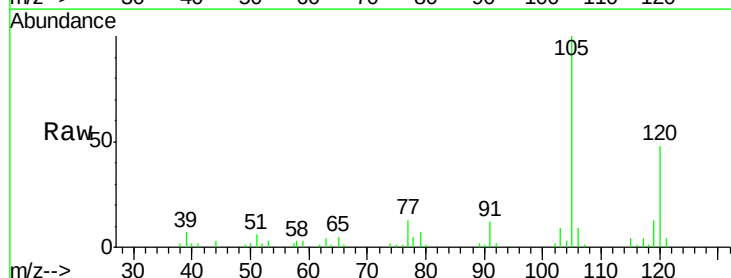
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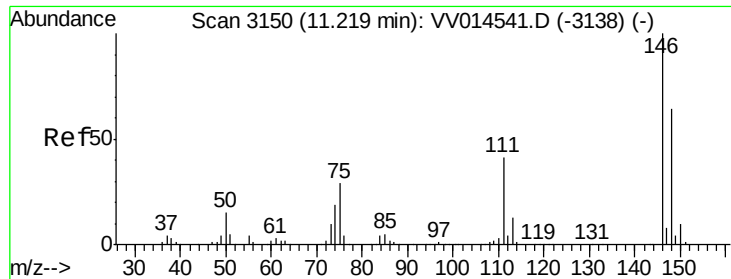
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.454 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion:105 Resp: 21163
 Ion Ratio Lower Upper
 105 100
 120 46.2 36.2 54.4





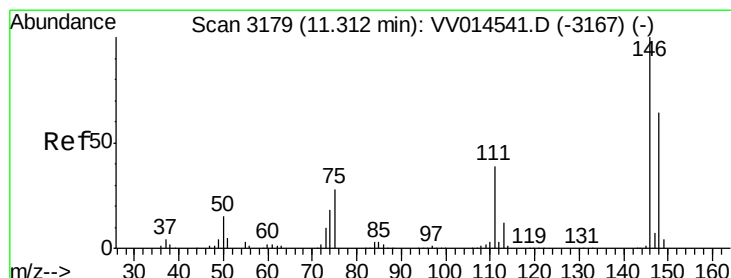
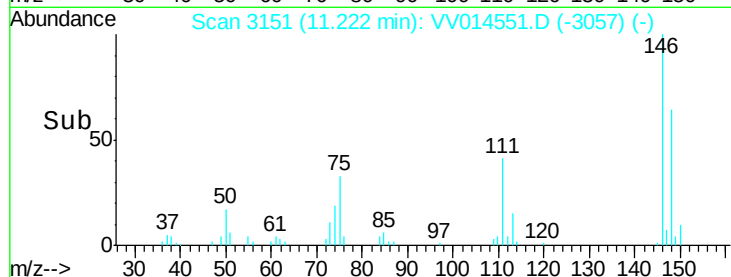
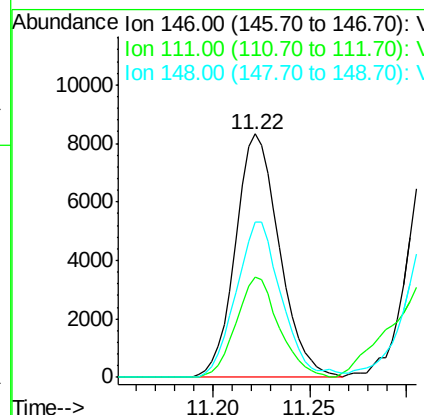
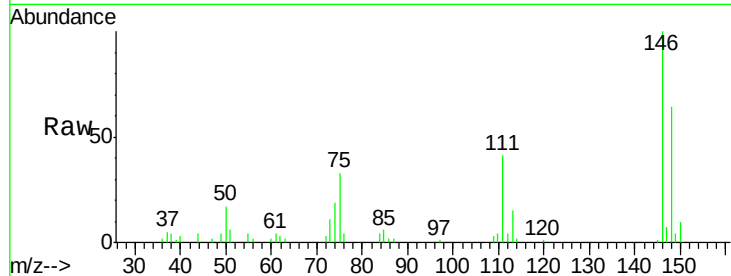
#64
 1,3-Dichlorobenzene
 Concen: 2.725 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampled :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	28.9	53.7
148	63.7	44.4	82.5

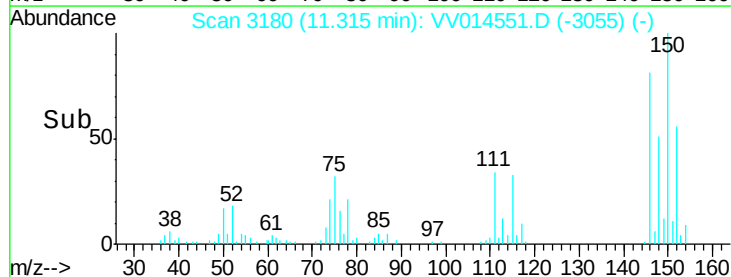
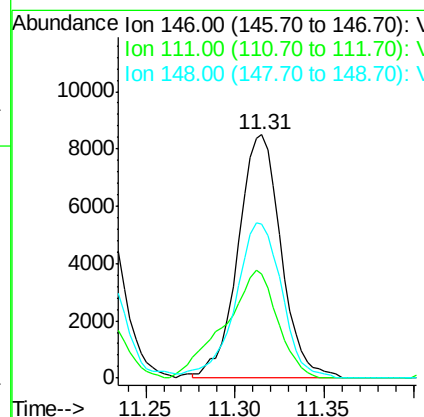
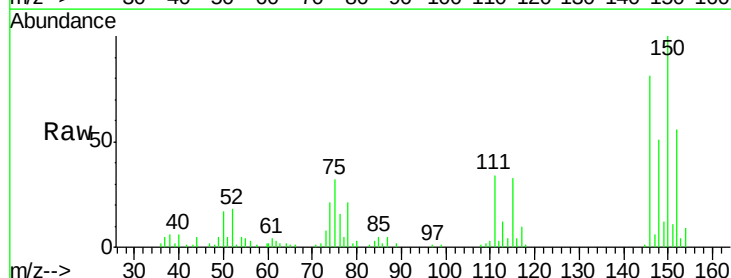
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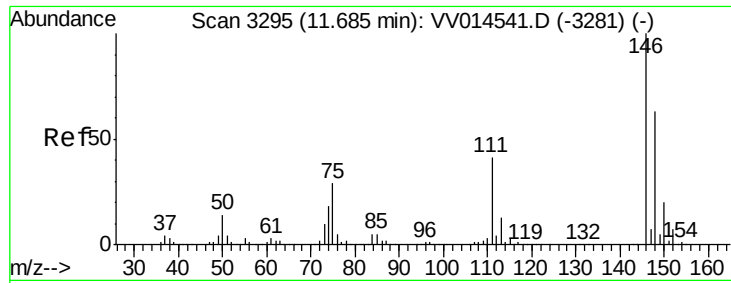
MMDadoda
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#65
 1,4-Dichlorobenzene
 Concen: 2.871 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	28.1	52.3
148	63.1	44.4	82.4





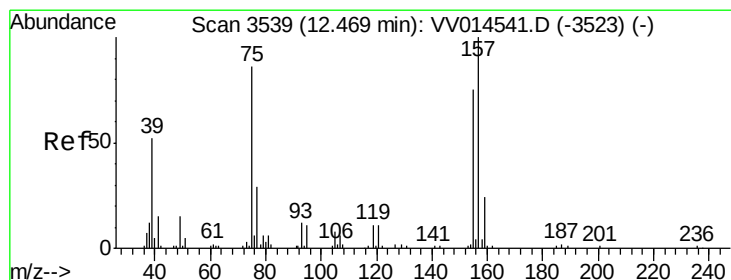
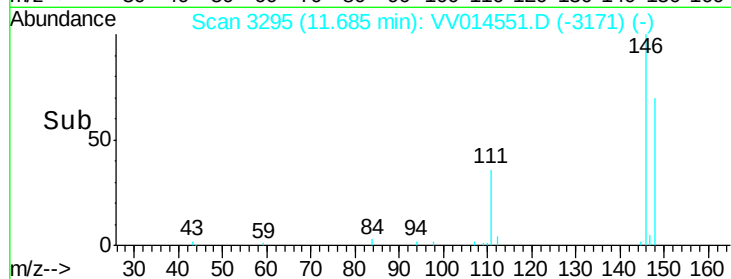
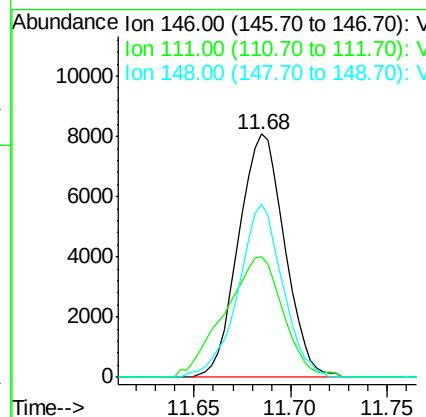
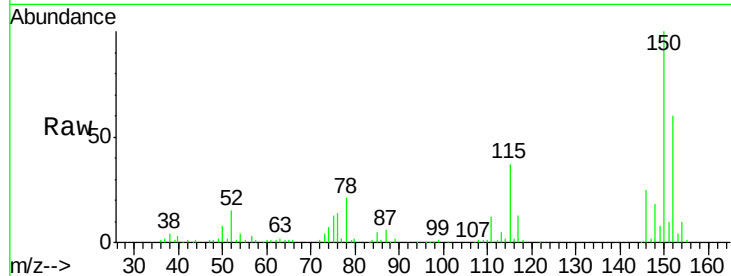
#67
 1,2-Dichlorobenzene
 Concen: 2.871 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampled :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	34.6	51.8
148	70.9	50.2	75.4

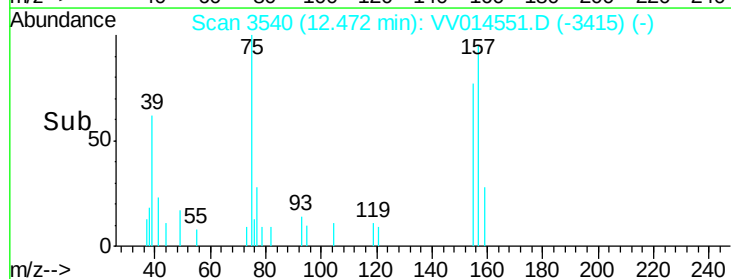
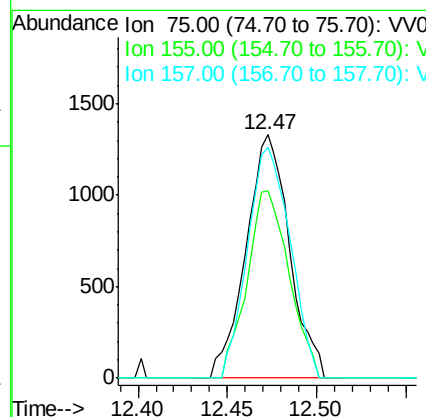
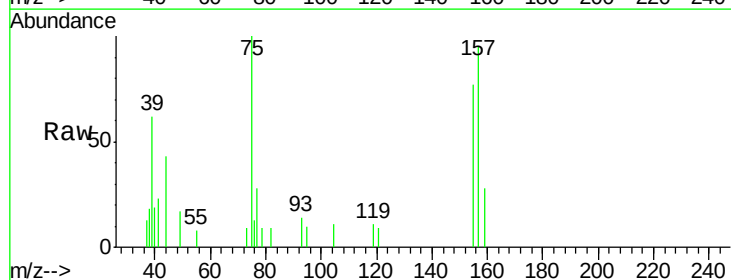
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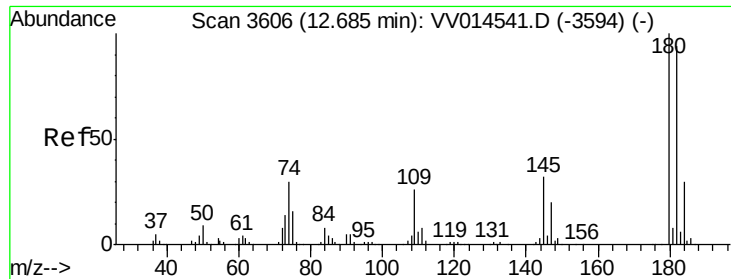
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 3.031 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.0	68.3	102.5
157	94.9	87.1	130.7





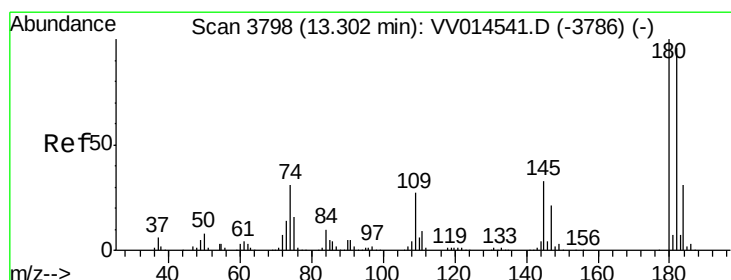
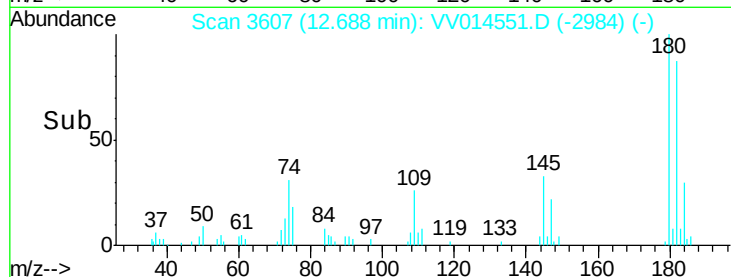
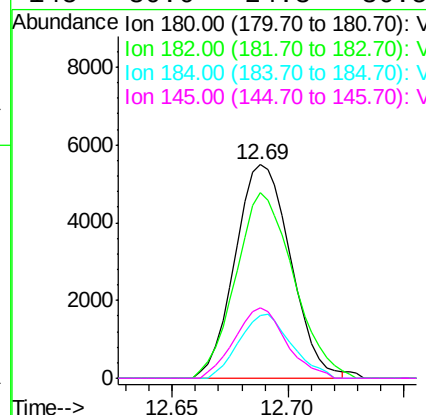
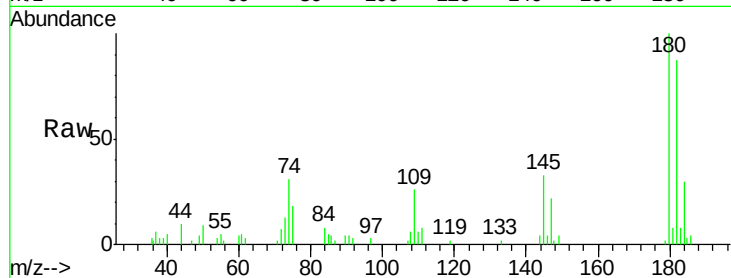
#69
 1,3,5-Trichlorobenzene
 Concen: 2.692 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.4	75.0	112.4
184	28.2	24.2	36.2
145	30.6	24.3	36.5

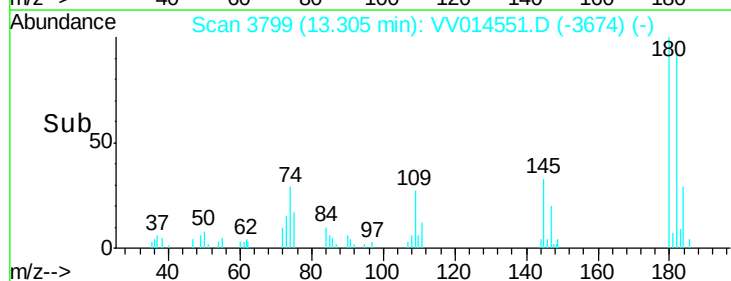
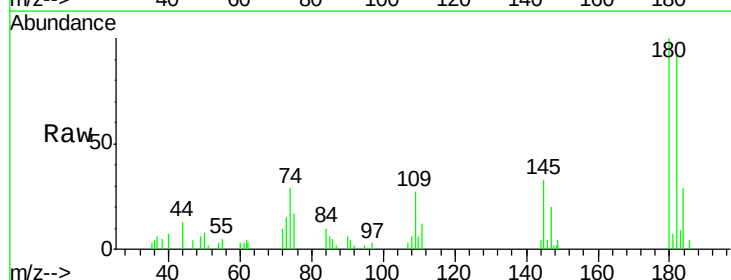
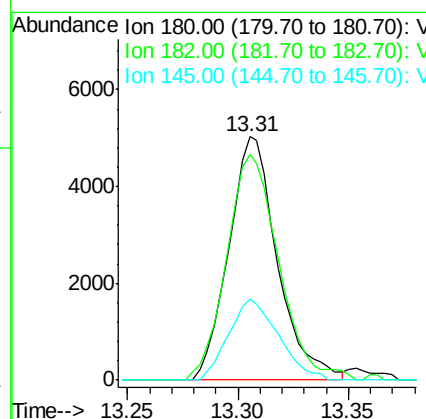
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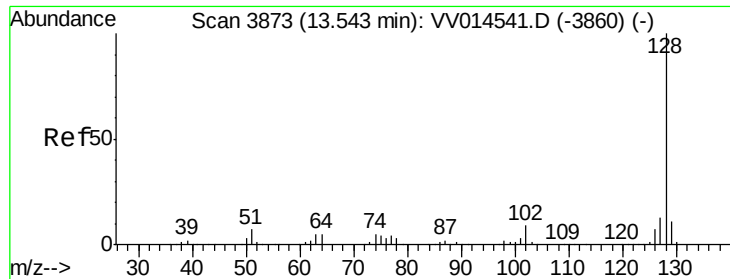
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#70
 1,2,4-trichlorobenzene
 Concen: 2.466 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014551.D
 Acq: 10 Feb 2020 14:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	34.1	25.3	37.9





#71

Naphthalene

Concen: 2.467 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.01 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Instrument :

MSVOA_V

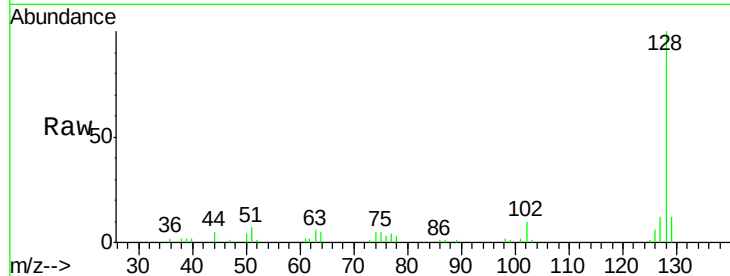
ClientSampleId :

MDL07

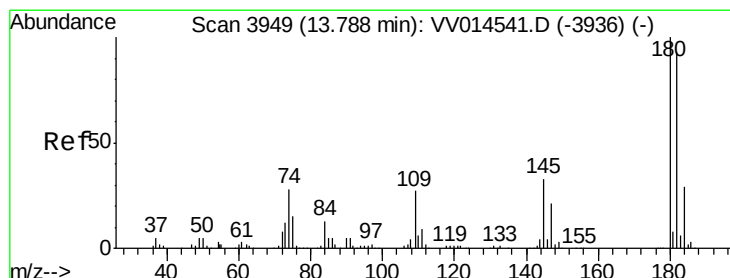
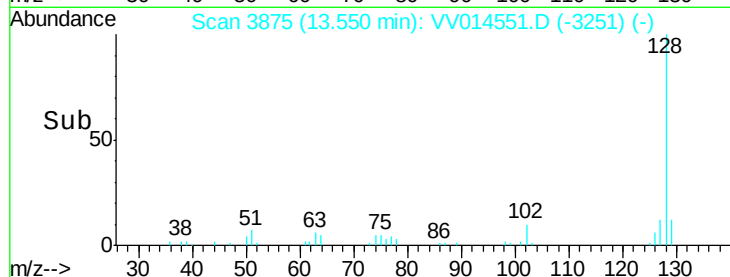
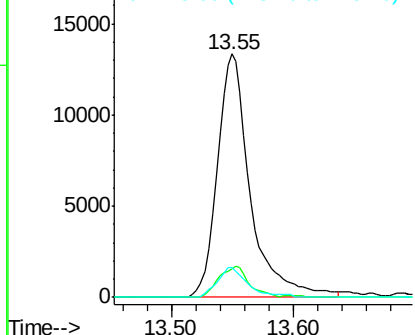
Tot Ion:	128	Resp:	25258
Ion Ratio	Lower	Upper	
128	100		
127	11.7	10.3	15.5
129	10.9	8.7	13.1

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



#72

1,2,3-Trichlorobenzene

Concen: 2.384 ug/L

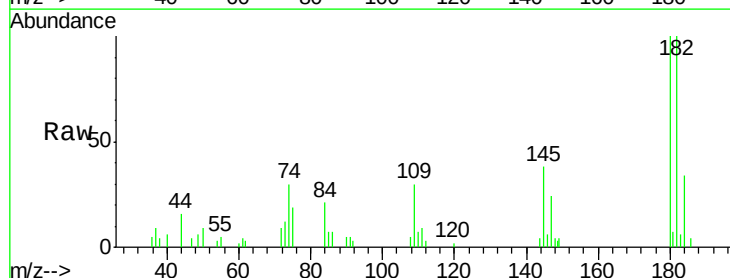
RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV014551.D

Acq: 10 Feb 2020 14:56

Tgt Ion:	180	Resp:	7221
Ion Ratio	Lower	Upper	
180	100		
182	101.6	75.2	112.8
145	37.8	27.1	40.7



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

