

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020620\
 Data File : VU036687.D
 Acq On : 06 Feb 2020 15:43
 Operator : JC/MD
 Sample : MDL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:21:53 PM

Quant Time: Feb 07 05:33:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 04:51:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	271345	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	252198	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	113304	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	85460	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.44%
7) Chloroethane-d5	1.93	69	78782	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.90%
11) 1,1-Dichloroethene-d2	2.59	63	122606	35.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.78%
21) 2-Butanone-d5	4.68	46	159156	103.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.09%
24) Chloroform-d	5.11	84	155794	47.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.14%
26) 1,2-Dichloroethane-d4	5.75	65	110473	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
32) Benzene-d6	5.77	84	332171	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	6.73	67	109065	49.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.10%
41) Toluene-d8	7.93	98	301220	49.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.22%
43) trans-1,3-Dichloropropene-	8.21	79	50667	48.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.16%
47) 2-Hexanone-d5	8.67	63	125904	100.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.23%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	156413	48.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.44%
66) 1,2-Dichlorobenzene-d4	12.21	152	103676	50.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4462	2.380 ug/L	99
3) Chloromethane	1.54	50	5434	2.446 ug/L	98
5) Vinyl chloride	1.62	62	6262	2.618 ug/L #	77
6) Bromomethane	1.87	94	3853	2.569 ug/L	99
8) Chloroethane	1.95	64	4167	2.745 ug/L	91
9) Trichlorofluoromethane	2.16	101	7056	2.482 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	5199	3.054 ug/L #	86
12) 1,1-Dichloroethene	2.61	96	4986	3.008 ug/L #	1
13) Acetone	2.67	43	11608	7.078 ug/L	99
14) Carbon disulfide	2.82	76	12619	2.548 ug/L #	93
15) Methyl Acetate	2.99	43	5596	2.360 ug/L	98
16) Methylene chloride	3.08	84	5953	2.910 ug/L	90
17) trans-1,2-Dichloroethene	3.39	96	4335	2.458 ug/L	98
18) Methyl tert-butyl Ether	3.41	73	14981	2.448 ug/L	99
19) 1,1-Dichloroethane	3.92	63	8710	2.479 ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	5093	2.534 ug/L	85
22) 2-Butanone	4.76	43	9863	5.067 ug/L	99

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

23) Bromochloromethane	5.02	128	2206m	2.343	ug/L	
25) Chloroform	5.13	83	9873	2.889	ug/L	92
27) 1,2-Dichloroethane	5.84	62	7671	2.669	ug/L #	93
29) Cyclohexane	5.43	56	7666	2.366	ug/L	93
30) 1,1,1-Trichloroethane	5.36	97	6921	2.583	ug/L	96
31) Carbon tetrachloride	5.57	117	5267	2.428	ug/L	99
33) Benzene	5.82	78	19296	2.530	ug/L	100
34) Trichloroethene	6.58	95	4673	2.477	ug/L	93
35) Methylcyclohexane	6.80	83	7755	2.334	ug/L	97
37) 1,2-Dichloropropane	6.83	63	4994	2.428	ug/L #	92
38) Bromodichloromethane	7.14	83	5851	2.341	ug/L	95
39) cis-1,3-Dichloropropene	7.64	75	7710	2.346	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	15913	4.896	ug/L	97
42) Toluene	8.00	91	20959	2.543	ug/L	95
44) trans-1,3-Dichloropropene	8.24	75	6944m	2.419	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	4587	2.444	ug/L	96
46) Tetrachloroethene	8.58	164	3491	2.637	ug/L	87
48) 2-Hexanone	8.72	43	14807	5.585	ug/L	98
49) Dibromochloromethane	8.84	129	4289	2.337	ug/L	98
50) 1,2-Dibromoethane	8.95	107	4688	2.378	ug/L #	91
51) Chlorobenzene	9.47	112	12229	2.464	ug/L	96
52) Ethylbenzene	9.60	91	21439	2.367	ug/L	100
53) m,p-Xylene	9.72	106	8038	2.406	ug/L	97
54) o-xylene	10.12	106	7606	2.298	ug/L	95
55) Styrene	10.14	104	12486	2.264	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.81	83	8253	2.441	ug/L	97
59) Bromoform	10.32	173	2631	2.102	ug/L #	96
60) 1,2,3-Trichloropropane	10.85	75	6603	2.477	ug/L	97
61) Isopropylbenzene	10.51	105	19989	2.369	ug/L	97
62) 1,3,5-Trimethylbenzene	11.11	105	16380	2.264	ug/L	97
63) 1,2,4-Trimethylbenzene	11.49	105	16289	2.255	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	9174	2.586	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	9241	2.587	ug/L	97
67) 1,2-Dichlorobenzene	12.23	146	9143	2.545	ug/L	95
68) 1,2-Dibromo-3-chloropropan	13.02	75	1649	2.165	ug/L	96
69) 1,3,5-Trichlorobenzene	13.24	180	5779	2.349	ug/L	97
70) 1,2,4-trichlorobenzene	13.85	180	4866	2.372	ug/L	97
71) Naphthalene	14.10	128	13689	1.893	ug/L	98
72) 1,2,3-Trichlorobenzene	14.34	180	4185	2.048	ug/L	97

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

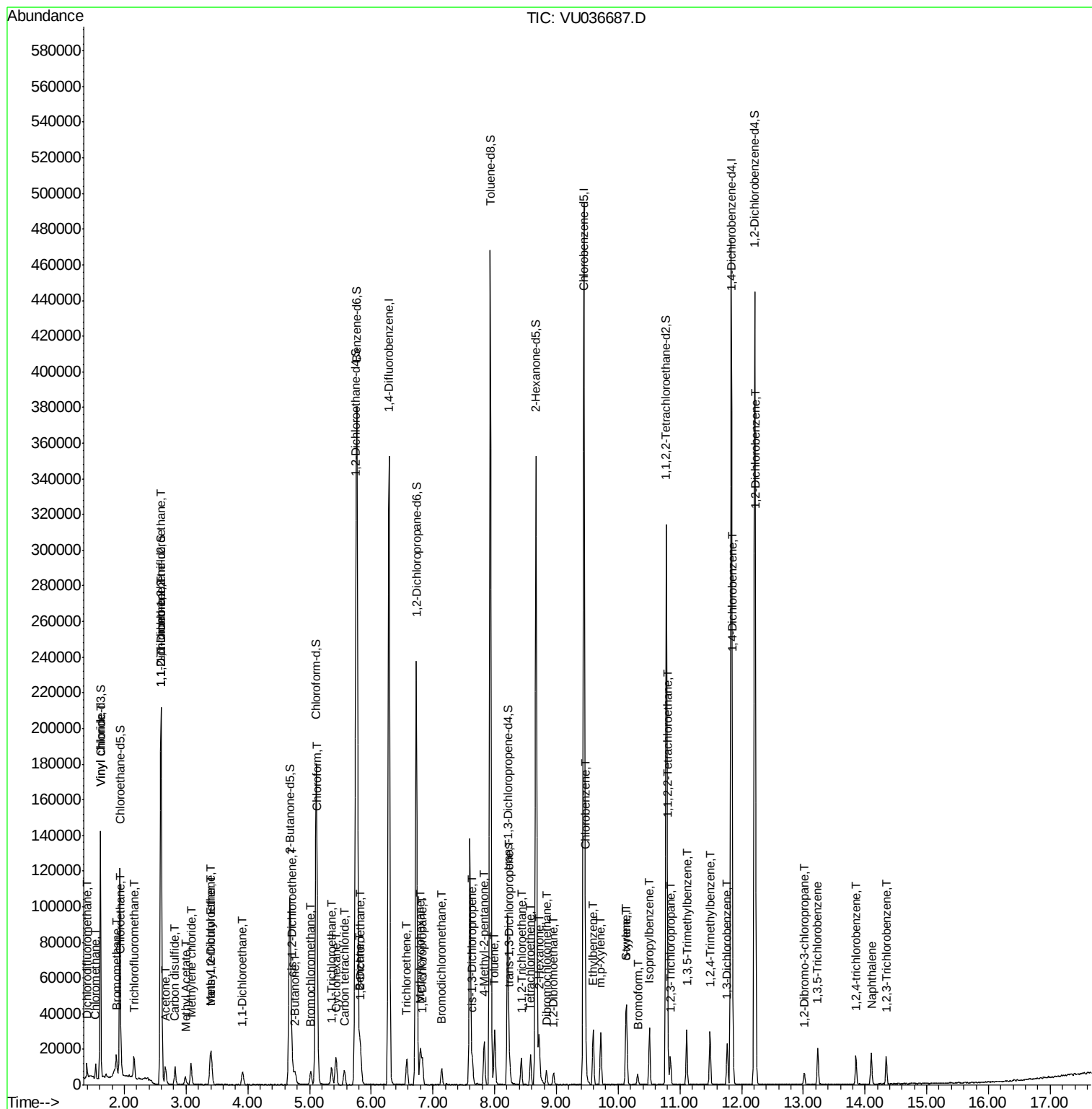
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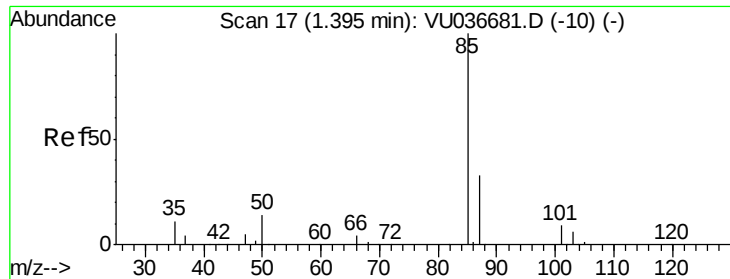
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MSVOA_U
ClientSampleID :
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#2

Dichlorodifluoromethane

Concen: 2.380 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 85 Resp: 4462

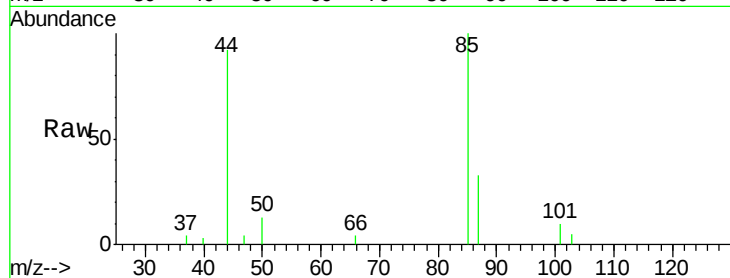
Ion Ratio Lower Upper

85 100

87 32.1 25.9 38.9

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Abundance Ion 85.00 (84.70 to 85.70): VU036687.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036687.D (-10) (-)

1.39

4000

3000

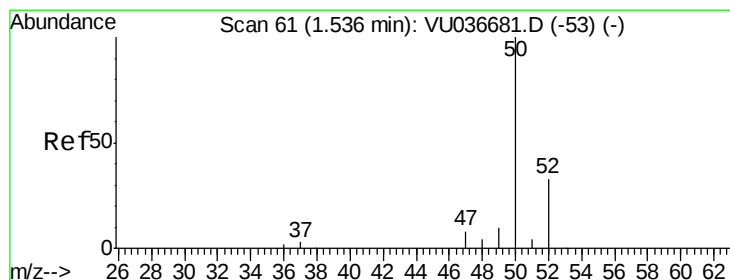
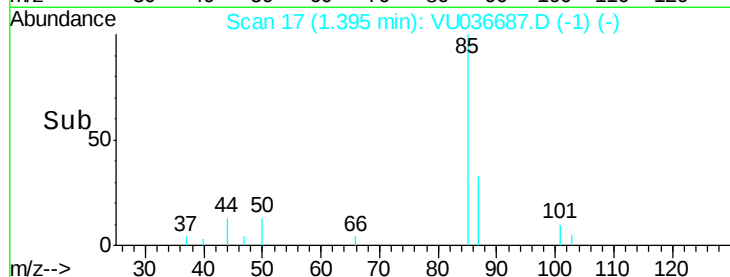
2000

1000

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 2.446 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036687.D

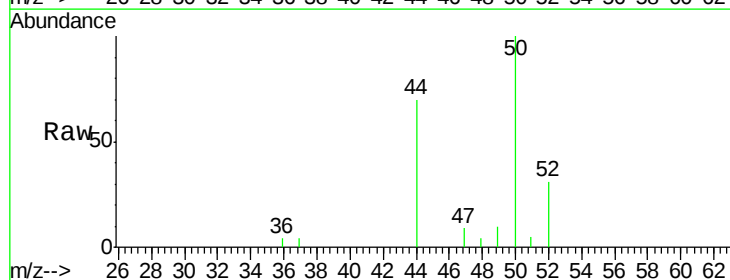
Acq: 06 Feb 2020 15:43

Tgt Ion: 50 Resp: 5434

Ion Ratio Lower Upper

50 100

52 31.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036687.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036687.D (-53) (-)

1.54

5000

4000

3000

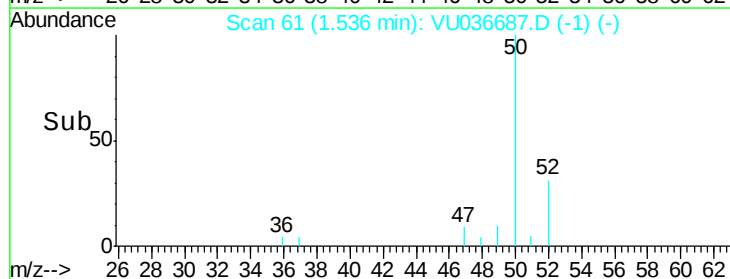
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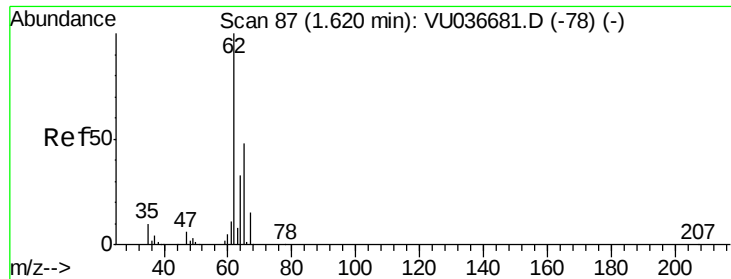
1000

0

1.50 1.52 1.54 1.56

Time-->





#5

Vinyl chloride

Concen: 2.618 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 6262

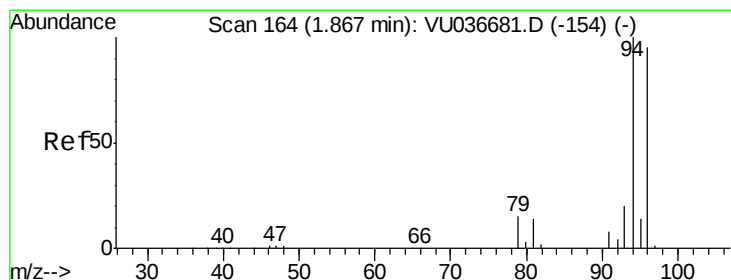
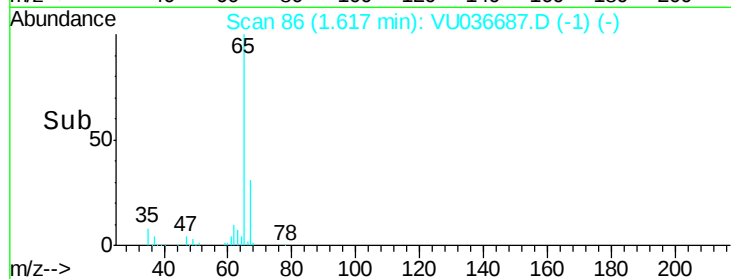
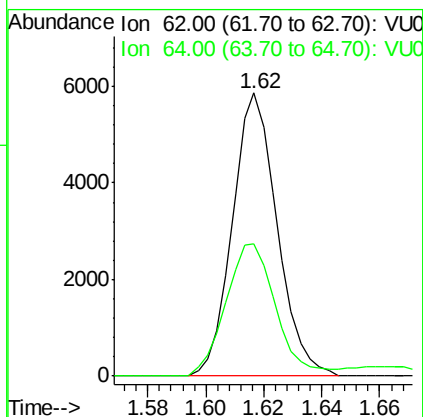
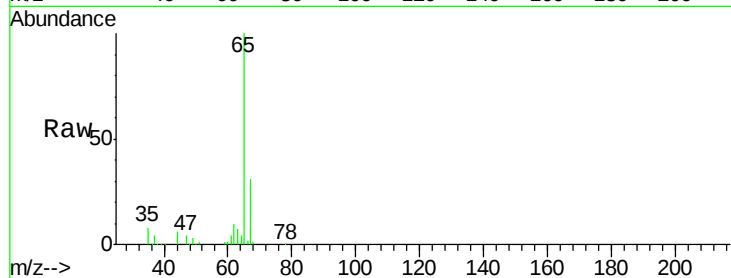
Ion Ratio Lower Upper

62 100

64 46.6 23.4 43.6#

Manual Integrations
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#6

Bromomethane

Concen: 2.569 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU036687.D

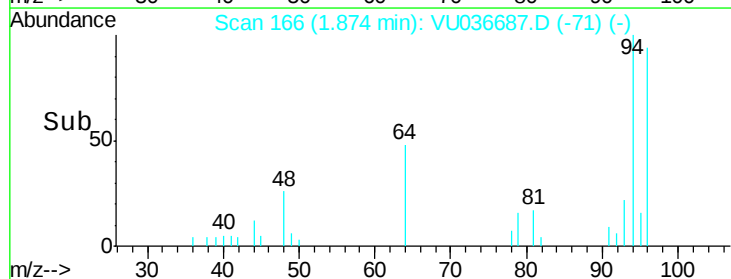
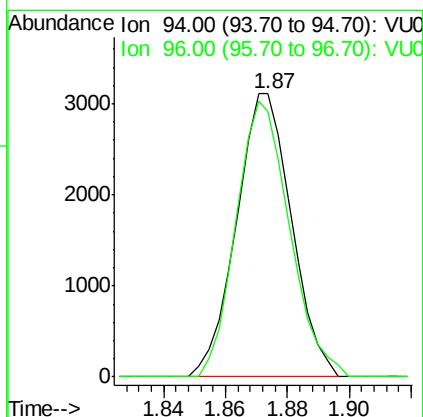
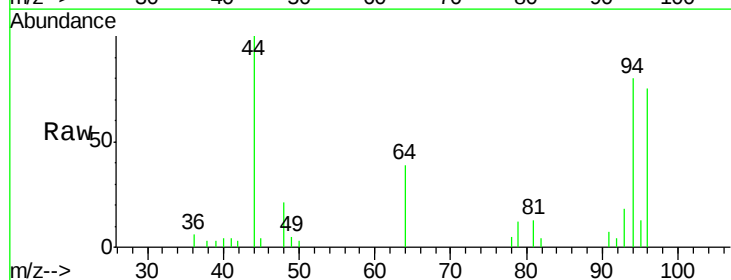
Acq: 06 Feb 2020 15:43

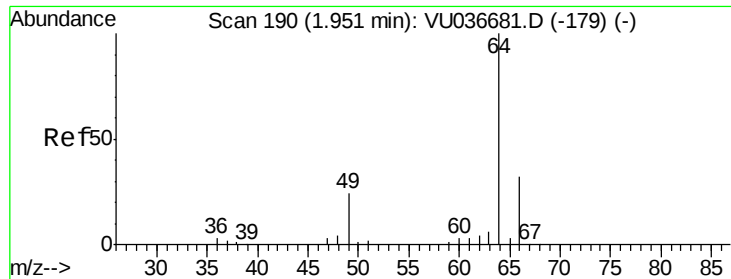
Tgt Ion: 94 Resp: 3853

Ion Ratio Lower Upper

94 100

96 93.9 66.3 123.1





#8

Chloroethane

Concen: 2.745 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 4167

Ion Ratio Lower Upper

64 100

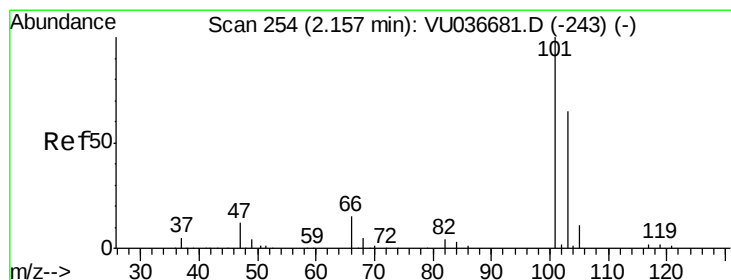
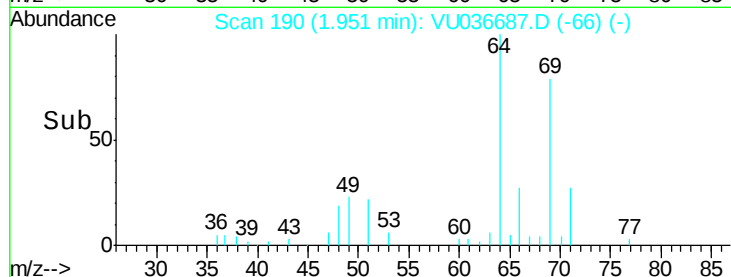
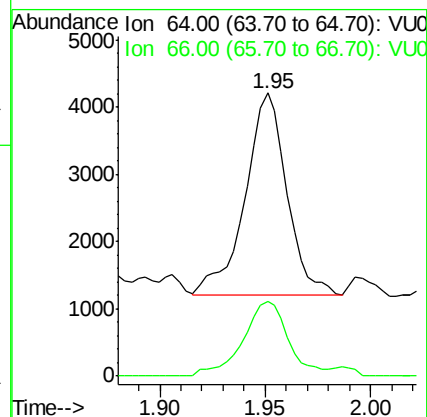
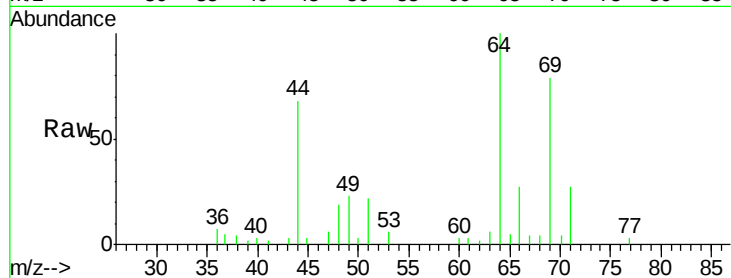
66 26.6 22.1 41.1

Manual Integrations

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2/7/2020 1:21:53 PM



#9

Trichlorofluoromethane

Concen: 2.482 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036687.D

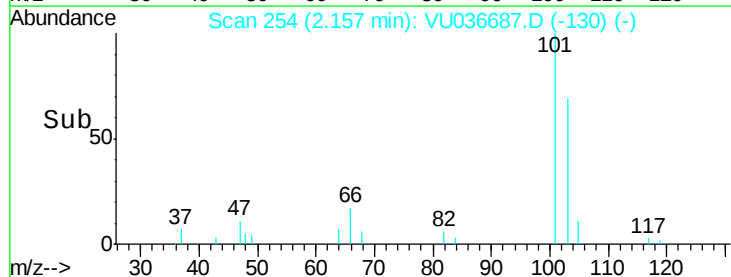
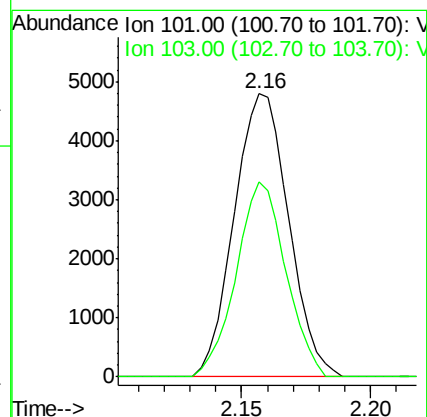
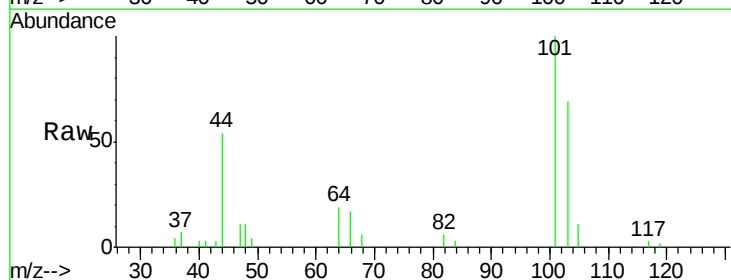
Acq: 06 Feb 2020 15:43

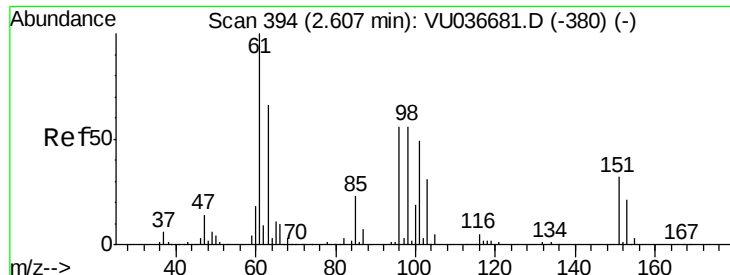
Tgt Ion: 101 Resp: 7056

Ion Ratio Lower Upper

101 100

103 62.8 51.6 77.4





#10

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

Concen: 3.054 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

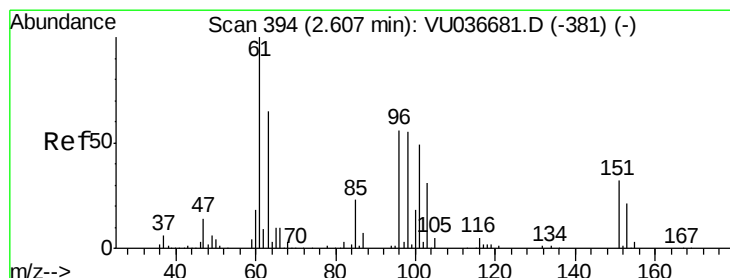
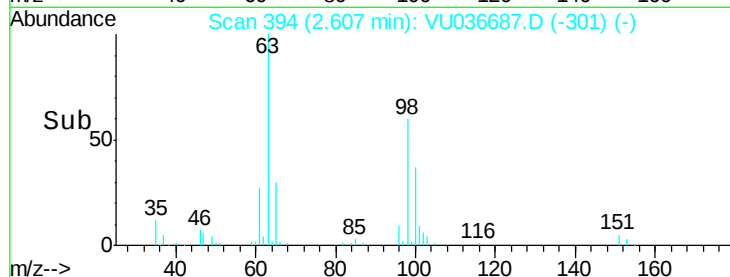
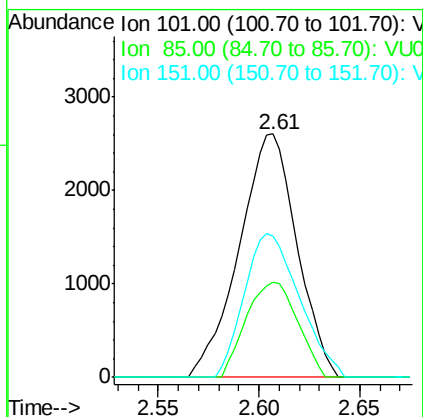
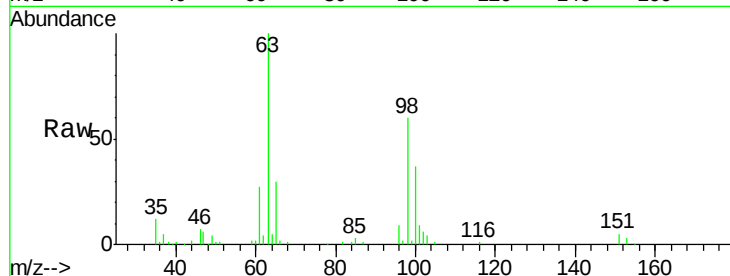
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	5199
Ion Ratio	Lower	Upper	
101	100		
85	34.9	36.5	54.7#
151	56.4	52.6	78.8

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.008 ug/L

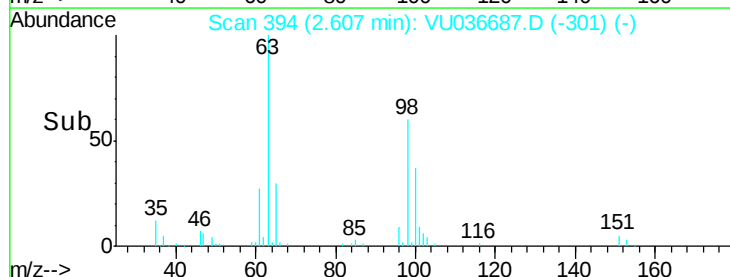
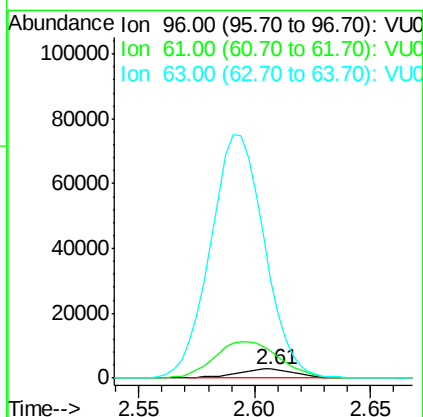
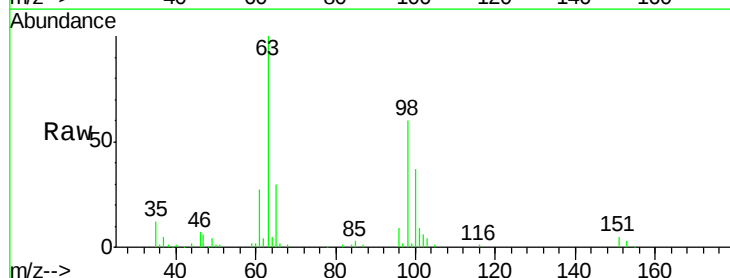
RT: 2.61 min Scan# 394

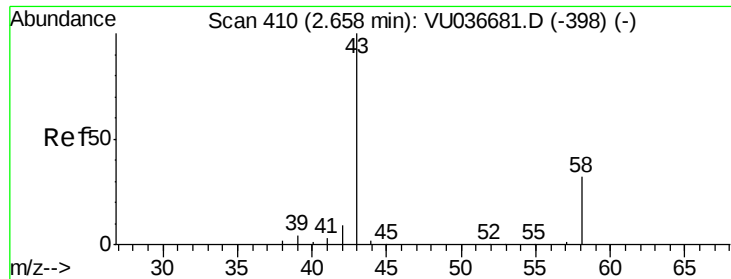
Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion:	96	Resp:	4986
Ion Ratio	Lower	Upper	
96	100		
61	290.6	124.4	231.0#
63	1069.9	83.4	155.0#





#13

Acetone

Concen: 7.078 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.01 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 11608

Ion Ratio Lower Upper

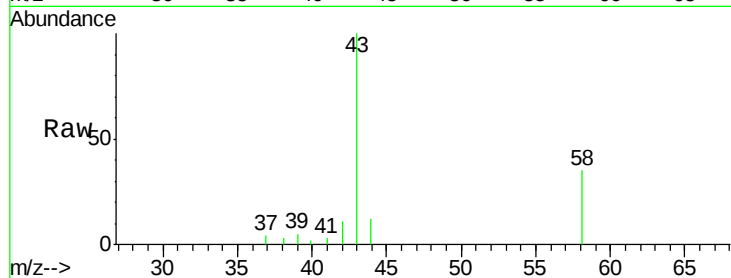
43 100

58 32.7 0.0 64.0

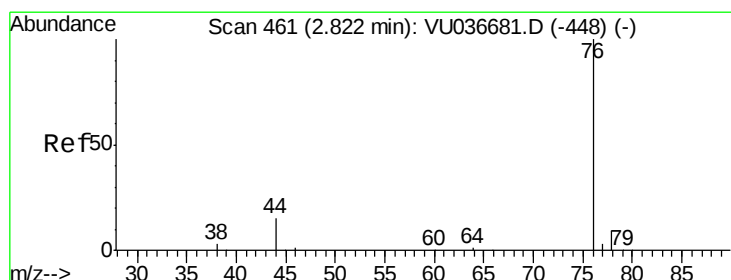
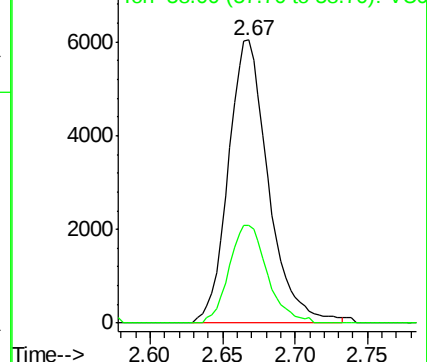
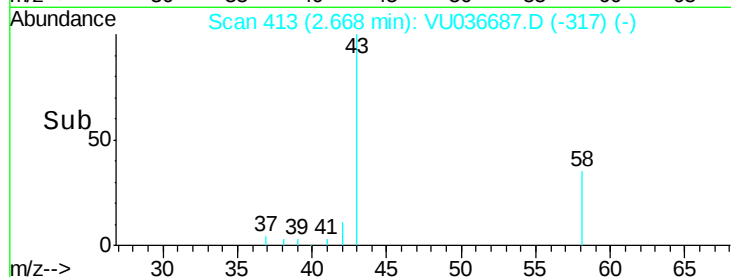
Manual Integrations
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2/7/2020 1:21:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VU036687.D (-317) (-)



#14

Carbon disulfide

Concen: 2.548 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036687.D

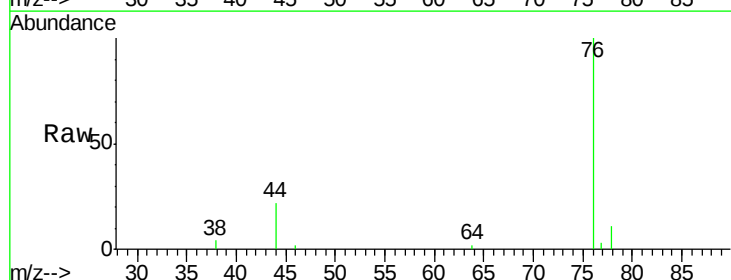
Acq: 06 Feb 2020 15:43

Tgt Ion: 76 Resp: 12619

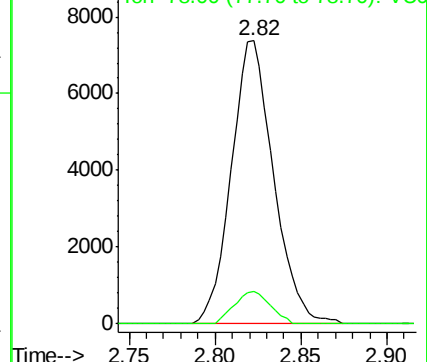
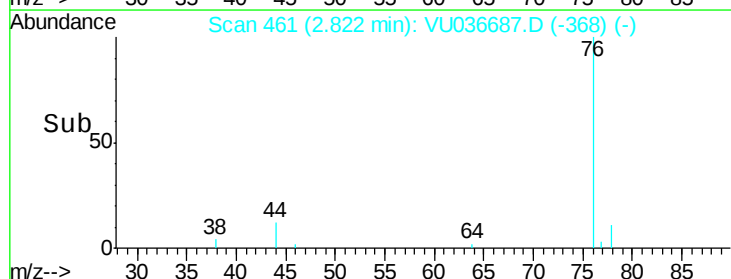
Ion Ratio Lower Upper

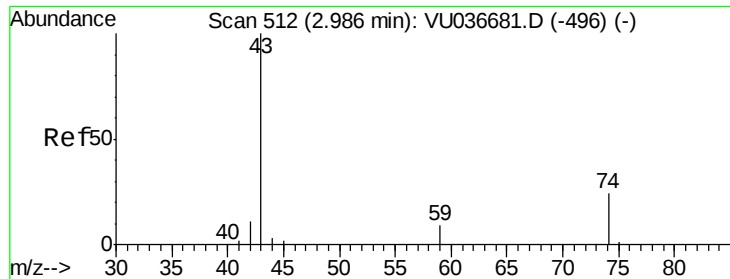
76 100

78 11.5 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VU036687.D (-368) (-)





#15

Methvl Acetate

Concen: 2.360 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 5596

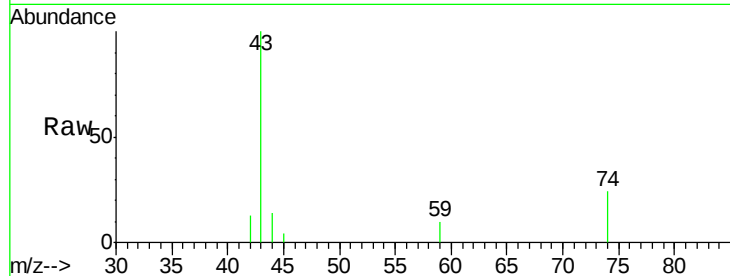
Ion Ratio Lower Upper

43 100

74 22.6 18.7 28.1

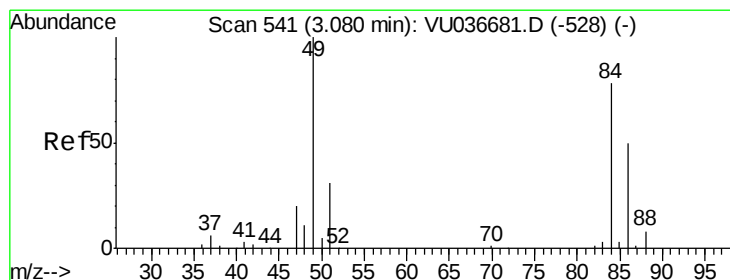
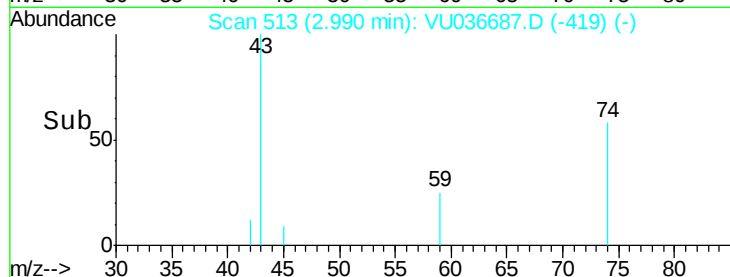
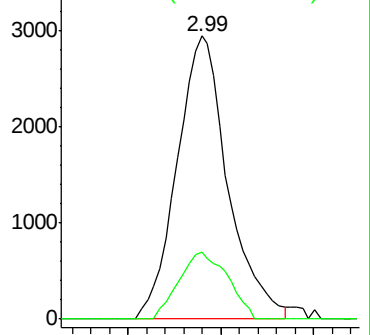
Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VU036687.D (-419) (-)

Ion 74.00 (73.70 to 74.70): VU036687.D (-419) (-)



#16

Methylene chloride

Concen: 2.910 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

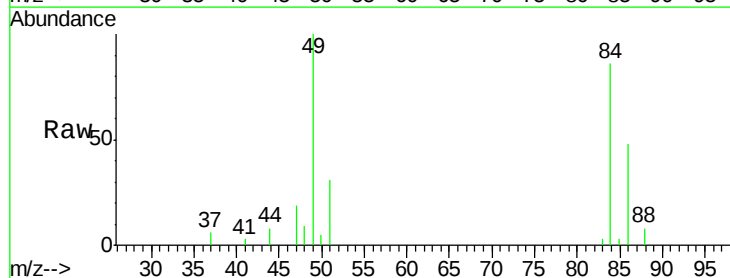
Tgt Ion: 84 Resp: 5953

Ion Ratio Lower Upper

84 100

86 55.4 44.4 82.5

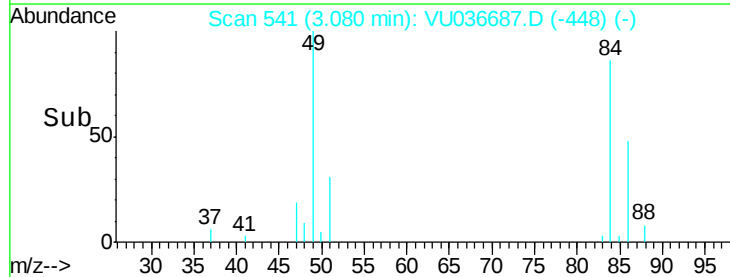
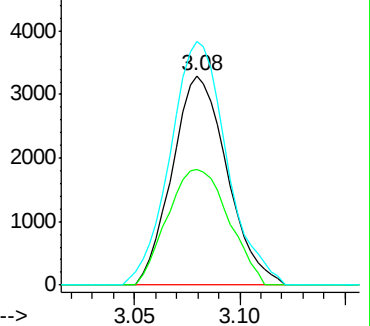
49 116.4 89.2 165.8

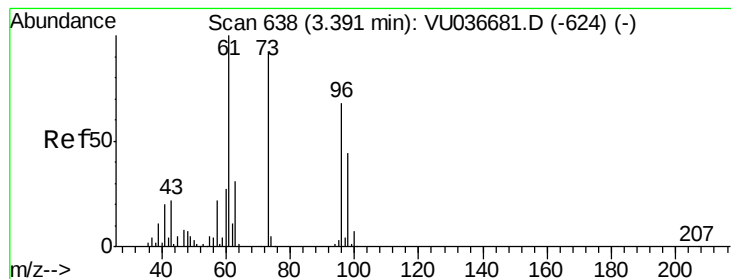


Abundance Ion 84.00 (83.70 to 84.70): VU036687.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU036687.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU036687.D (-448) (-)





#17

trans-1,2-Dichloroethene

Concen: 2.458 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

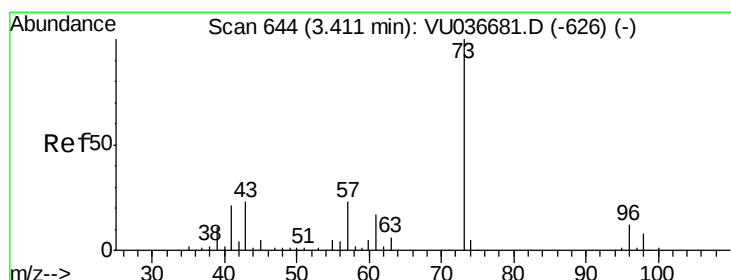
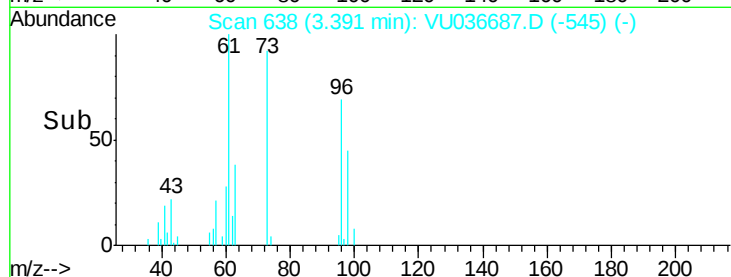
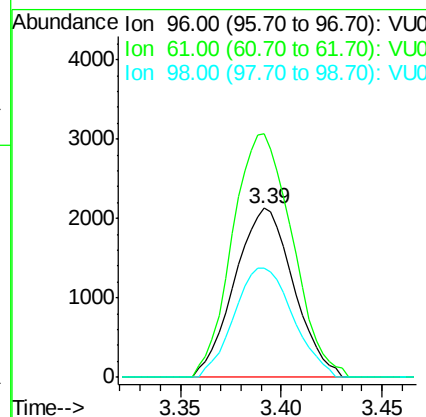
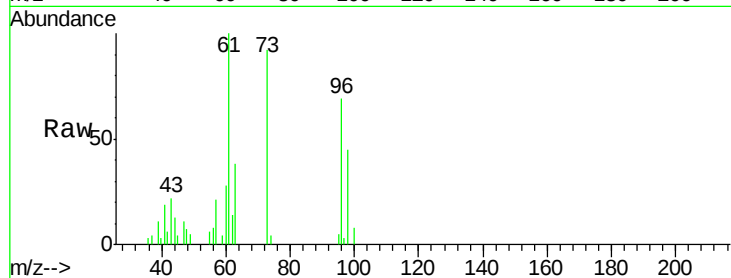
ClientSampleId :

MDL01

Tot Ion:	96	Resp:	4335
Ion	Ratio	Lower	Upper
96	100		
61	144.2	103.4	192.0
98	65.0	45.4	84.2

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#18

Methyl tert-butyl Ether

Concen: 2.448 ug/L

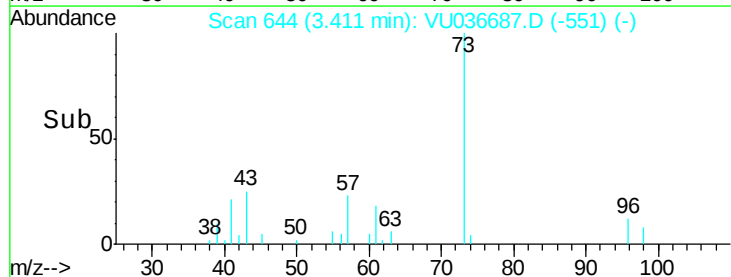
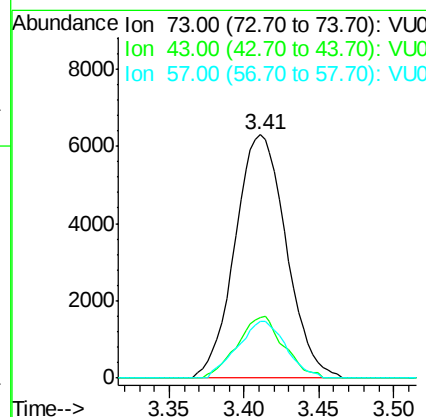
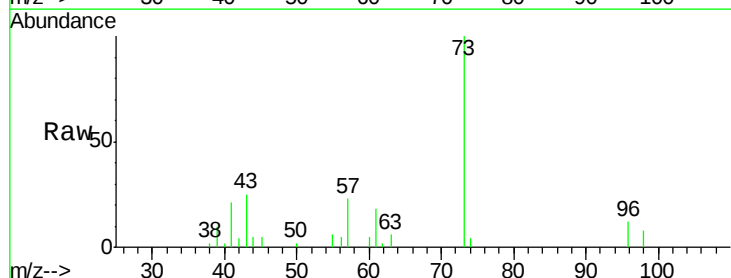
RT: 3.41 min Scan# 644

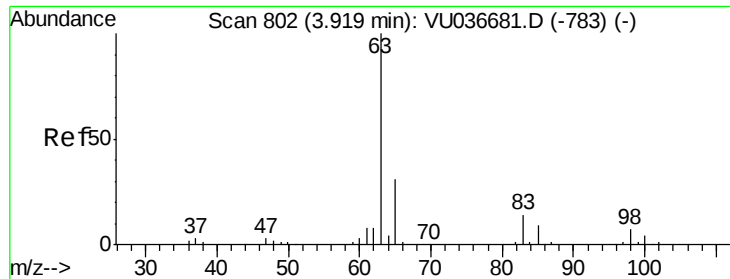
Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion:	73	Resp:	14981
Ion	Ratio	Lower	Upper
73	100		
43	23.0	18.6	28.0
57	22.0	18.3	27.5





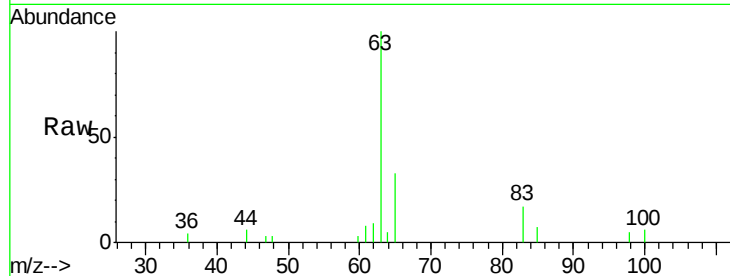
#19
 1,1-Dichloroethane
 Concen: 2.479 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

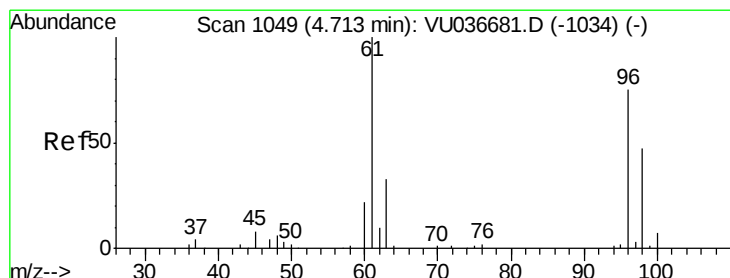
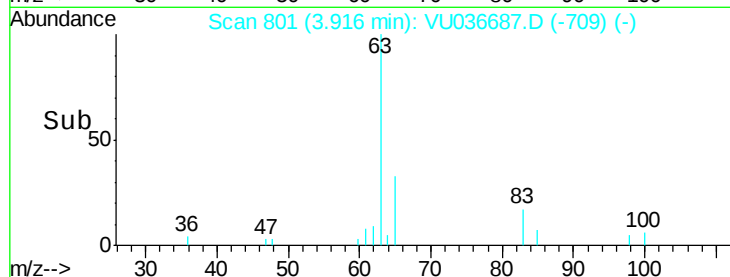
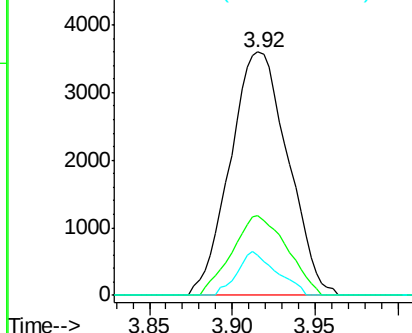
Tot Ion:	63	Resp:	8710
Ion	Ratio	Lower	Upper
63	100		
65	32.8	22.0	40.8
83	16.7	10.1	18.7

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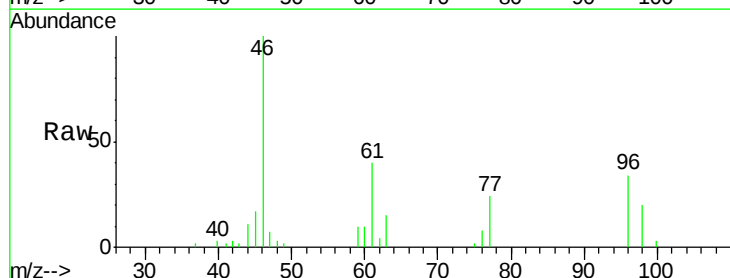


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

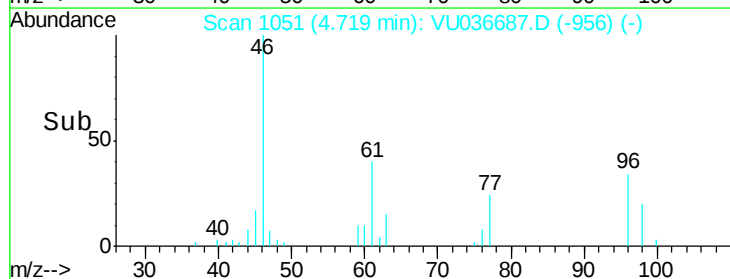
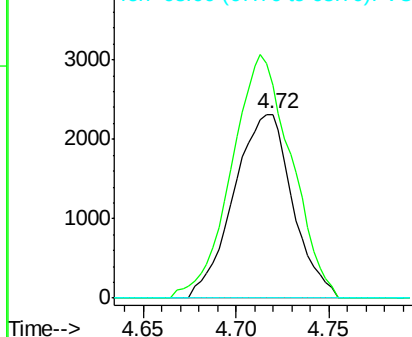


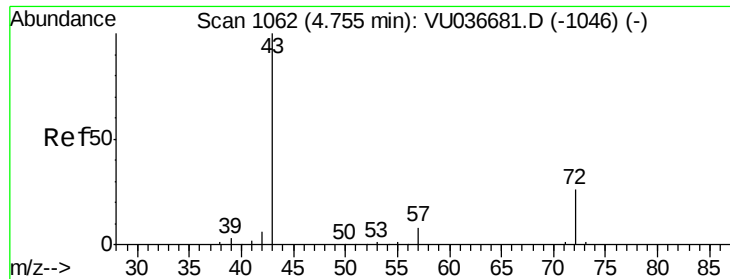
#20
 cis-1,2-Dichloroethene
 Concen: 2.534 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion:	96	Resp:	5093
Ion	Ratio	Lower	Upper
96	100		
61	116.0	93.3	173.3
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 5.067 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 9863

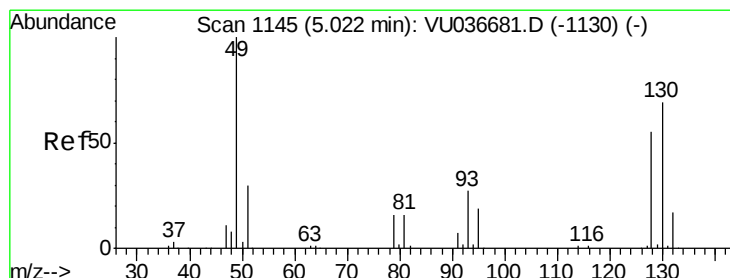
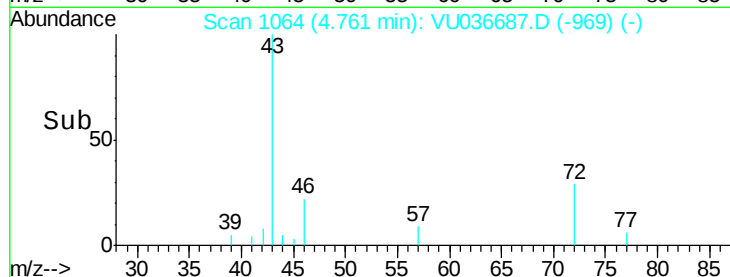
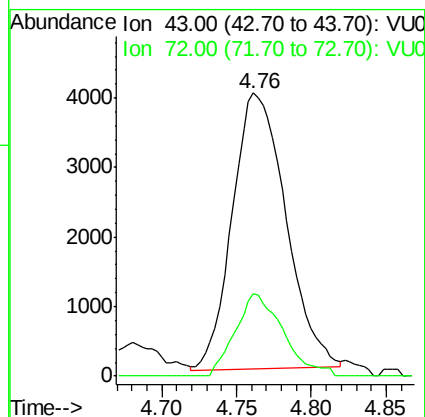
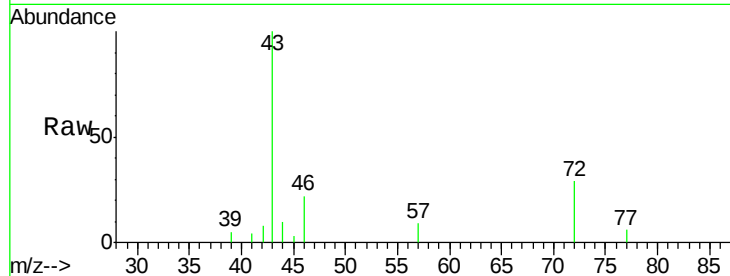
Ion Ratio Lower Upper

43 100

72 26.6 13.6 40.7

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2/7/2020 1:21:53 PM



#23

Bromochloromethane

Concen: 2.343 ug/L m

RT: 5.02 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion: 128 Resp: 2206

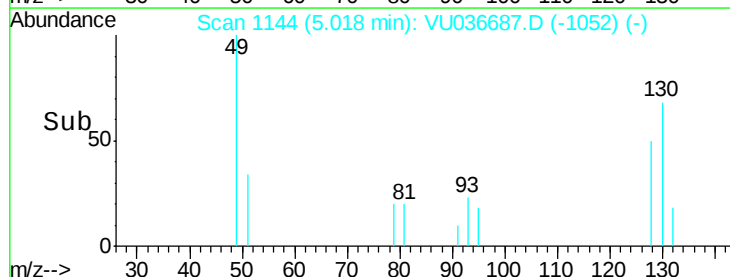
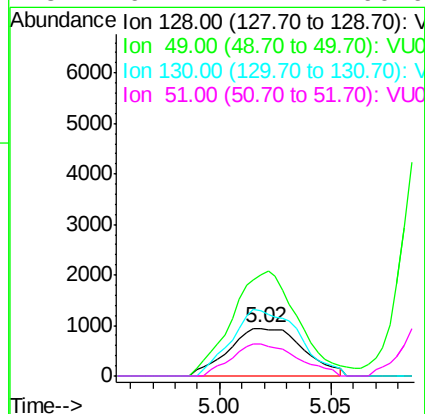
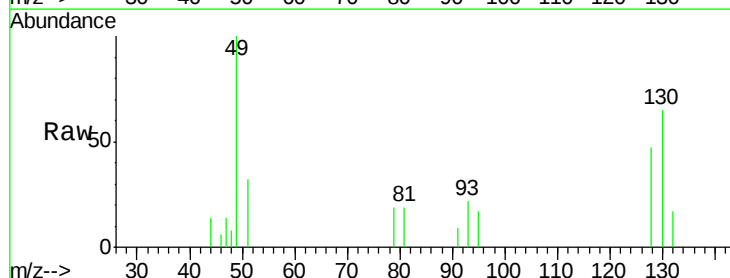
Ion Ratio Lower Upper

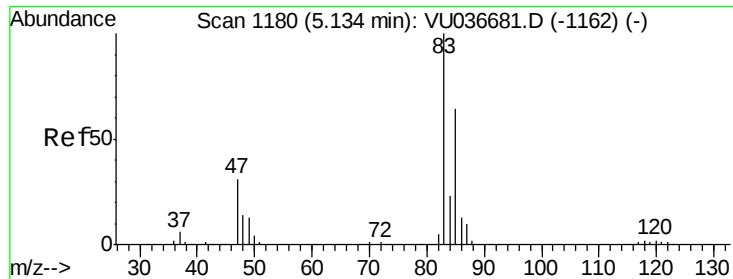
128 100

49 211.1 127.3 236.5

130 136.4 88.5 164.3

51 67.1 44.4 66.6#





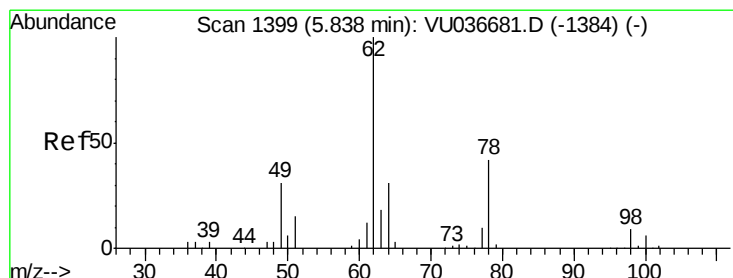
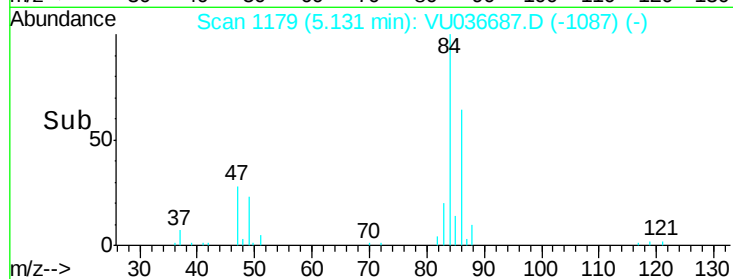
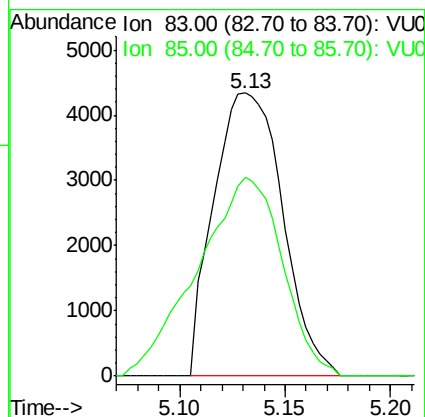
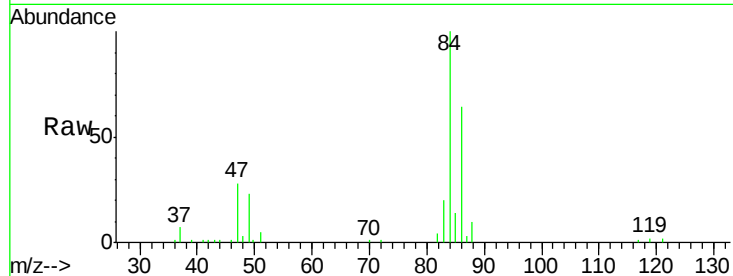
#25
Chloroform
Concen: 2.889 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 83 Resp: 9873
Ion Ratio Lower Upper
83 100
85 70.2 44.6 82.8

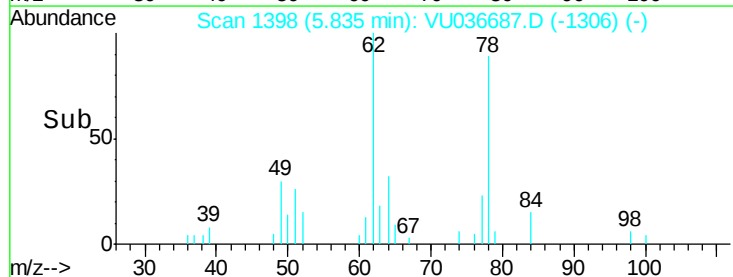
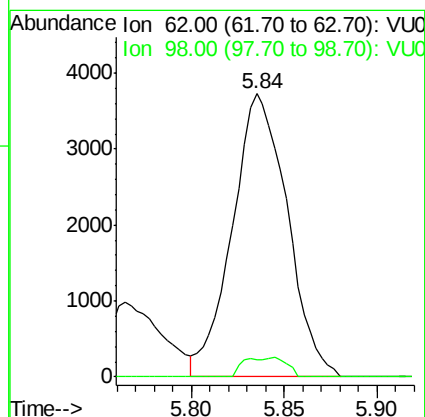
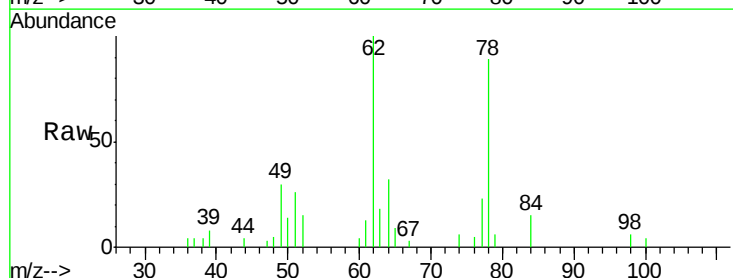
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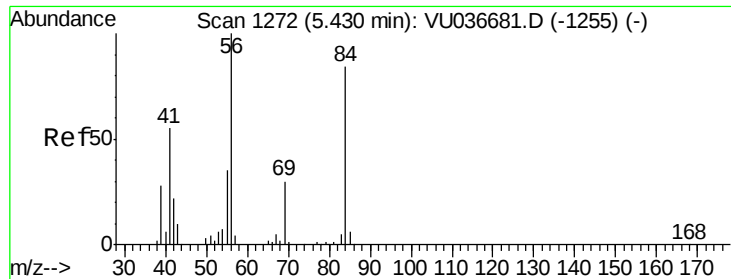
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#27
1,2-Dichloroethane
Concen: 2.669 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. -0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion: 62 Resp: 7671
Ion Ratio Lower Upper
62 100
98 6.2 7.0 10.4#





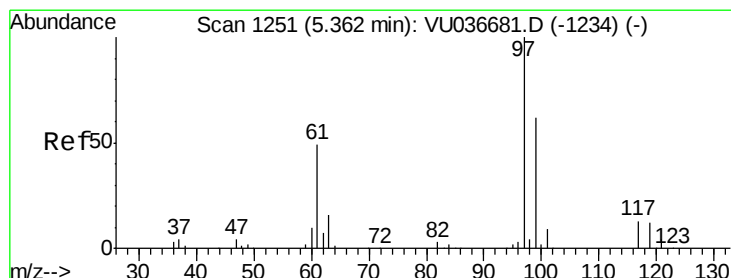
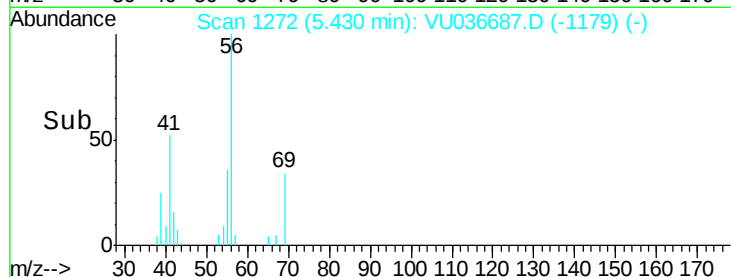
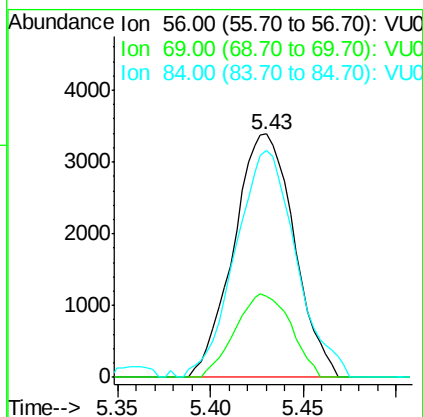
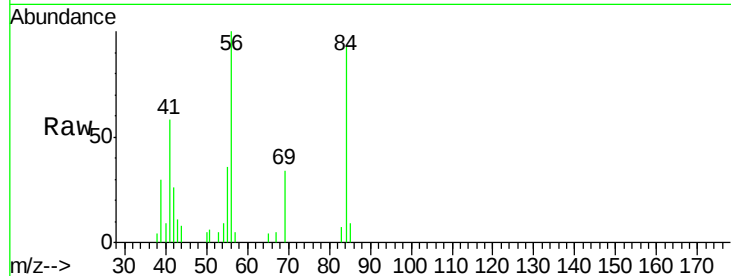
#29
Cyclohexane
Concen: 2.366 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.0	37.4
84	93.6	68.2	102.2

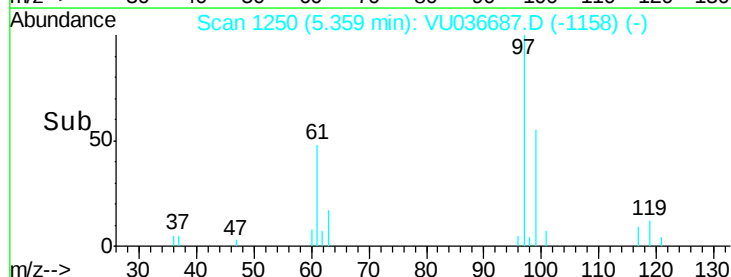
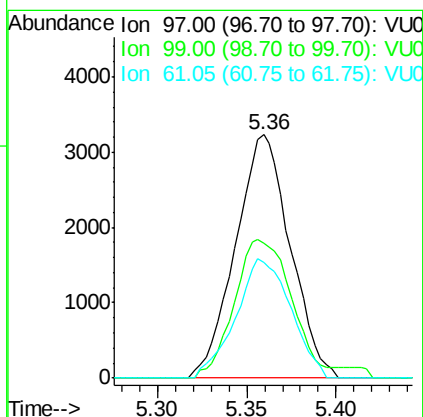
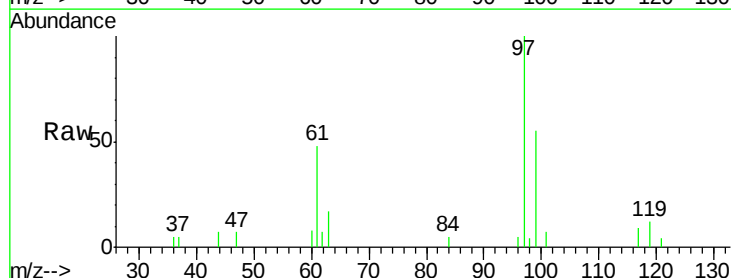
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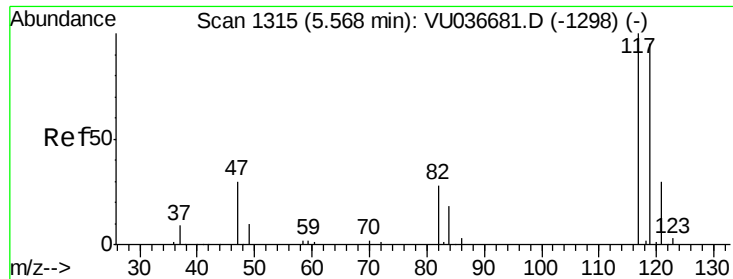
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.583 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.2	50.9	76.3
61	49.1	40.2	60.2





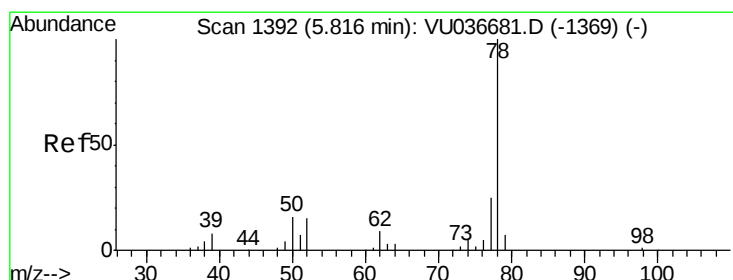
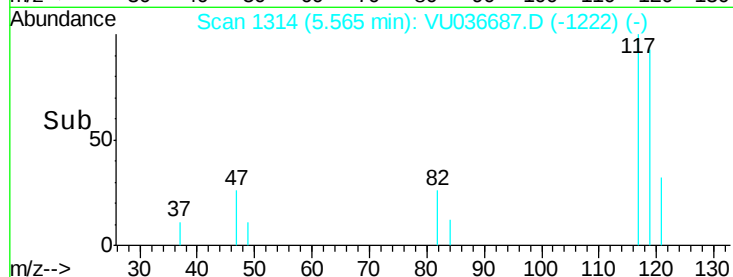
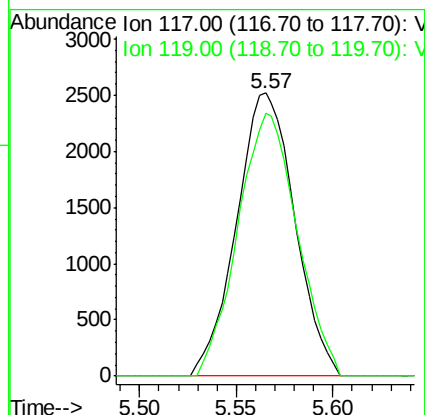
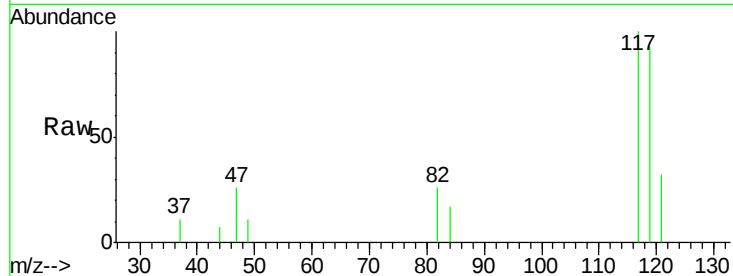
#31
Carbon tetrachloride
Concen: 2.428 ug/L
RT: 5.57 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:117 Resp: 5267
Ion Ratio Lower Upper
117 100
119 94.3 76.2 114.4

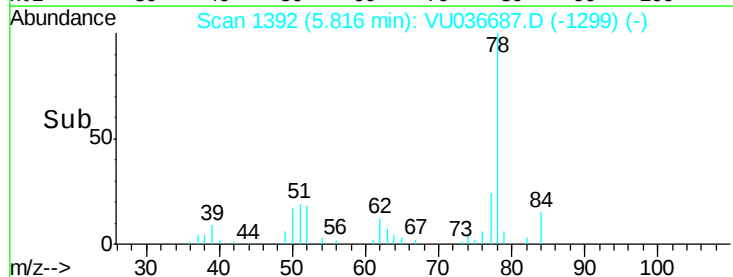
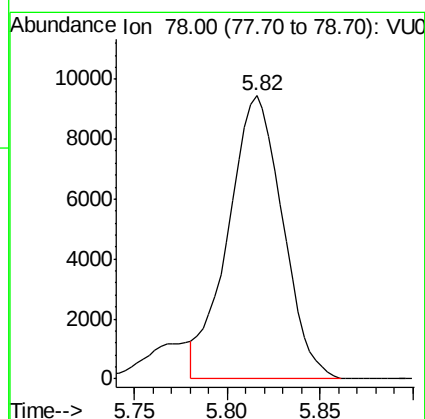
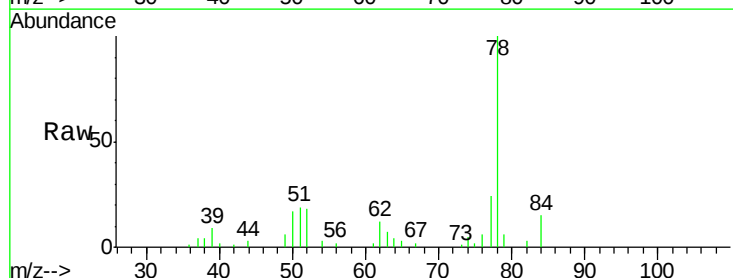
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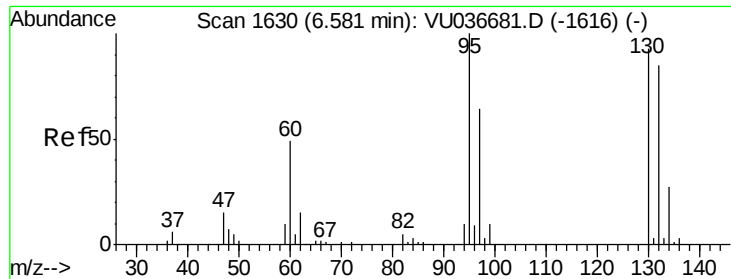
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#33
Benzene
Concen: 2.530 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion: 78 Resp: 19296





#34

Trichloroethene

Concen: 2.477 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

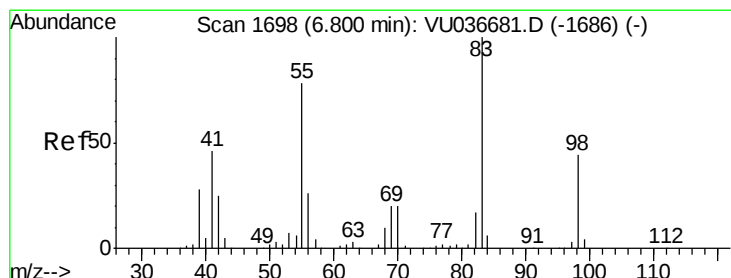
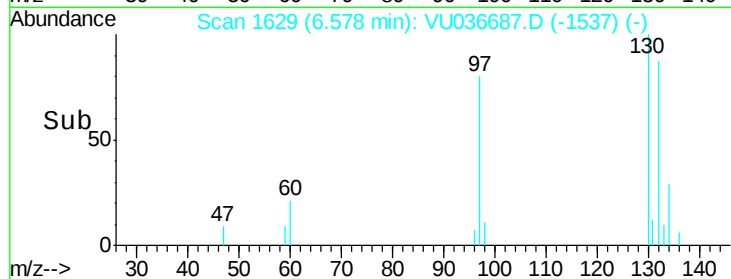
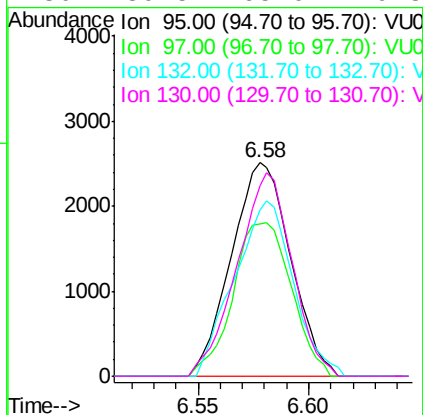
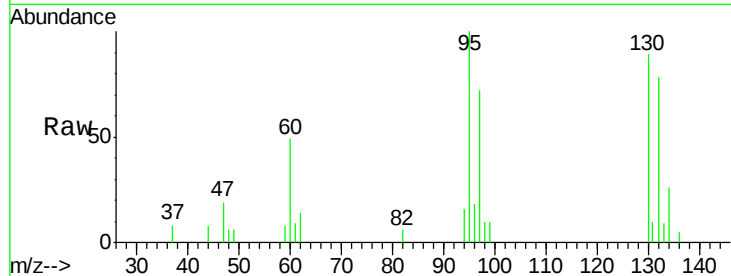
ClientSampleId :

MDL01

Tot Ion:	95	Resp:	4673
Ion	Ratio	Lower	Upper
95	100		
97	71.6	44.5	82.7
132	77.8	59.6	110.8
130	89.5	65.0	120.8

Manual Integrations
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#35

Methylcyclohexane

Concen: 2.334 ug/L

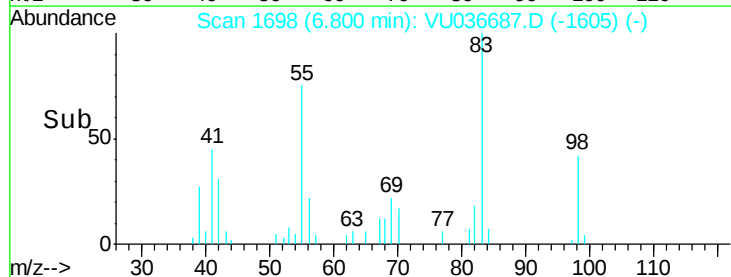
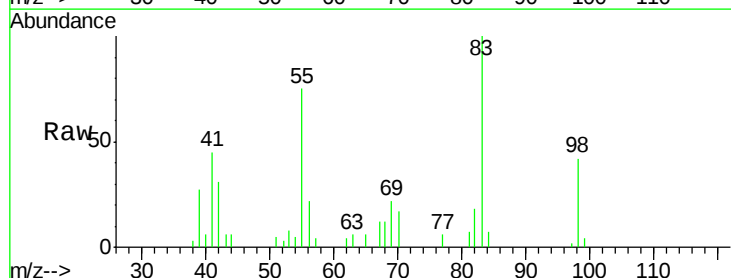
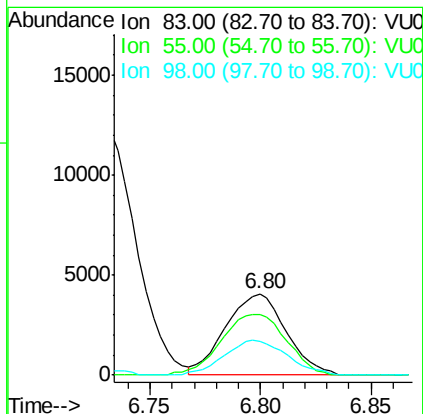
RT: 6.80 min Scan# 1698

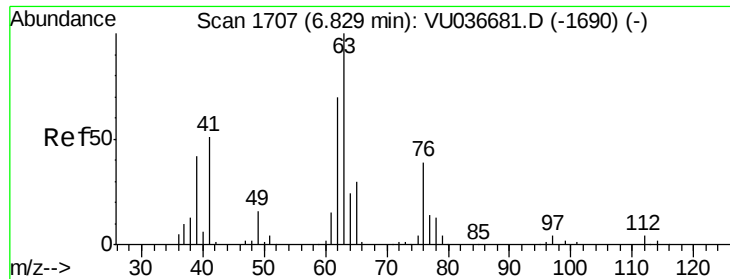
Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion:	83	Resp:	7755
Ion	Ratio	Lower	Upper
83	100		
55	80.5	61.2	91.8
98	44.2	35.4	53.0





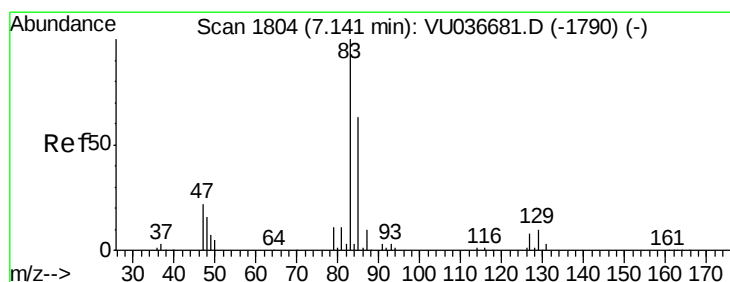
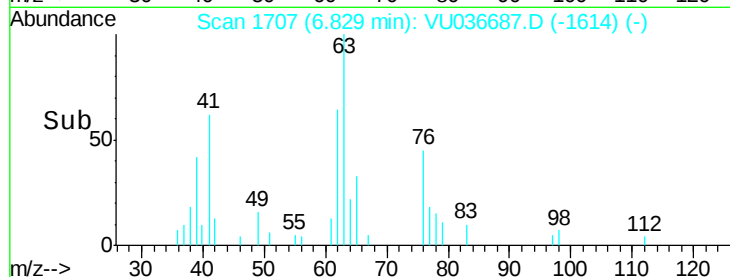
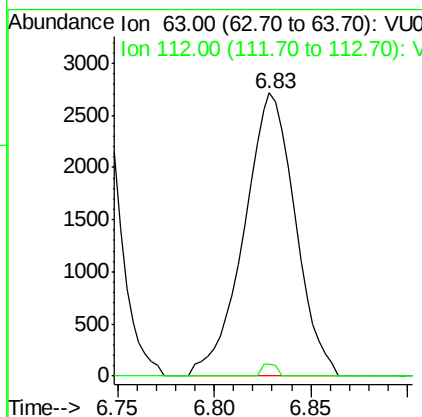
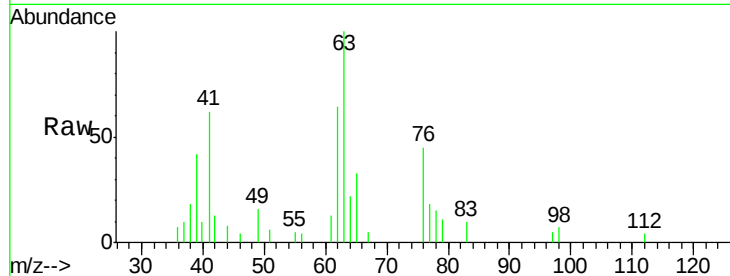
#37
 1,2-Dichloropropane
 Concen: 2.428 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 63 Resp: 4994
 Ion Ratio Lower Upper
 63 100
 112 1.3 3.1 4.7#

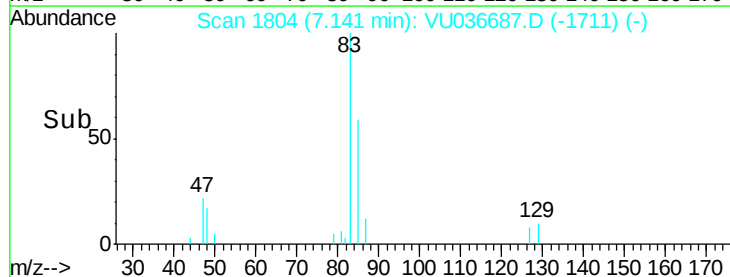
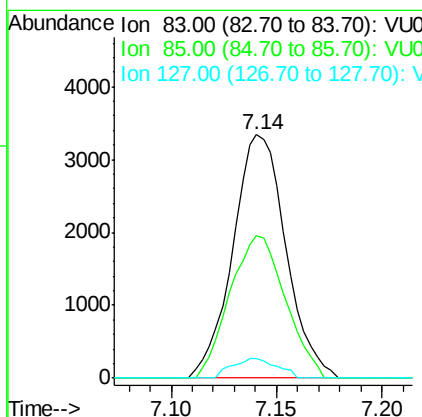
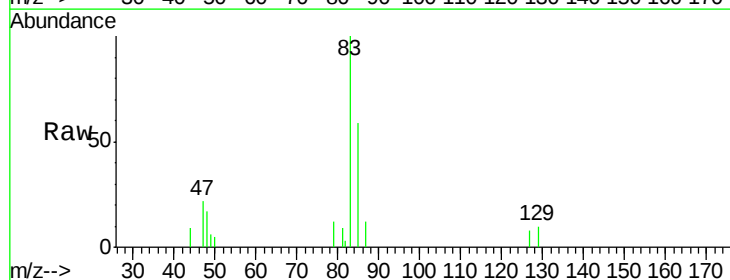
Manual Integrations
 APPROVED

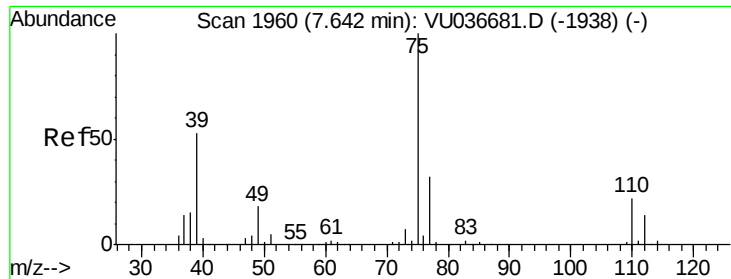
MMDadoda
 2/7/2020 1:21:53 PM



#38
 Bromodichloromethane
 Concen: 2.341 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion: 83 Resp: 5851
 Ion Ratio Lower Upper
 83 100
 85 58.8 43.9 81.5
 127 8.3 6.0 9.0





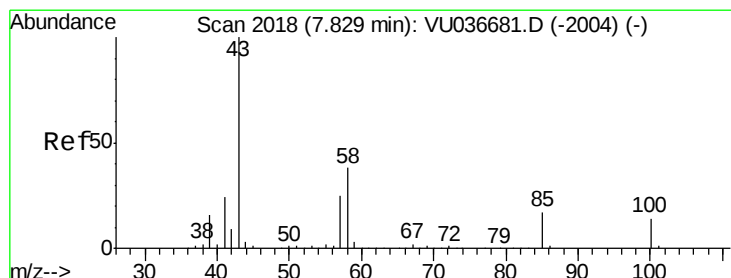
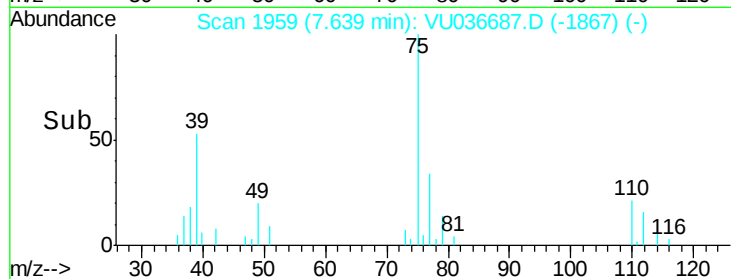
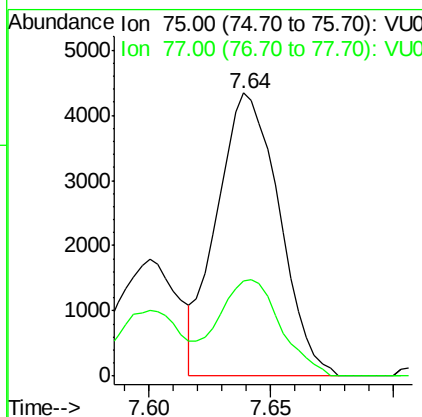
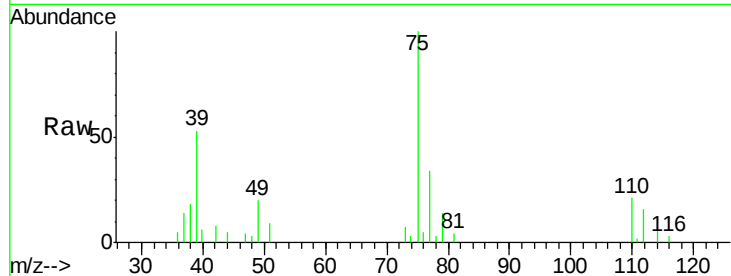
#39
 cis-1,3-Dichloropropene
 Concen: 2.346 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.5	22.3	41.5

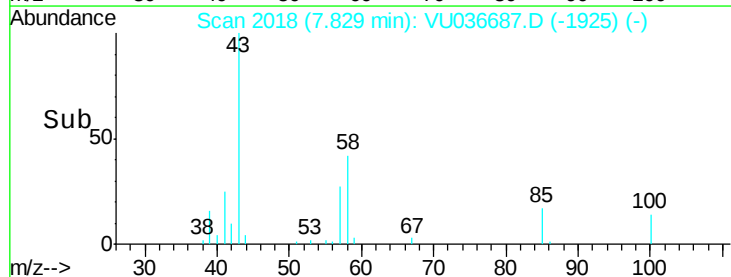
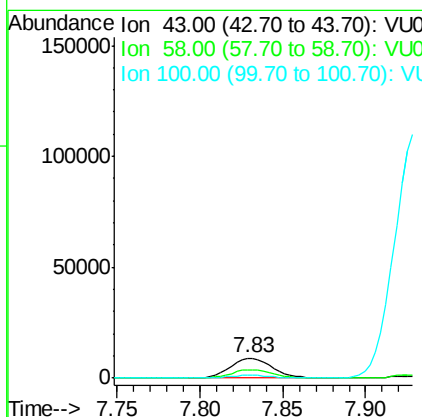
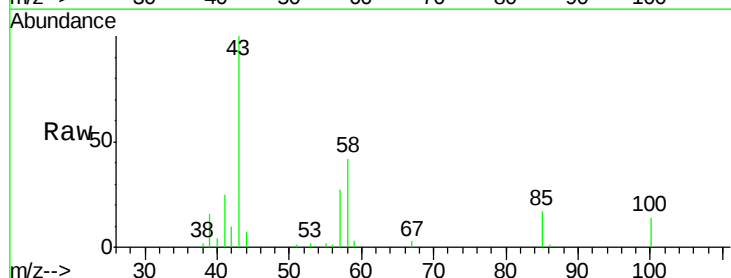
Manual Integrations
 APPROVED

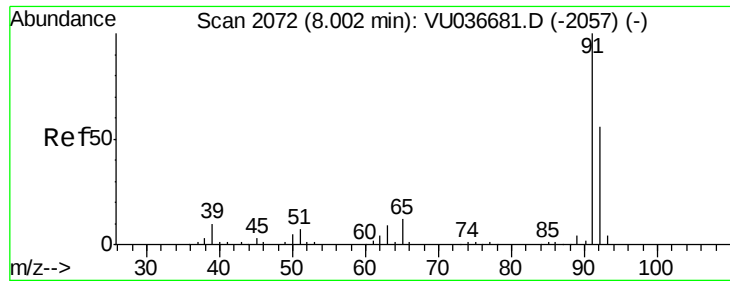
MMDadoda
 2/7/2020 1:21:53 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.896 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.0	31.0	46.6
100	13.8	11.4	17.2





#42

Toluene

Concen: 2.543 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 20959

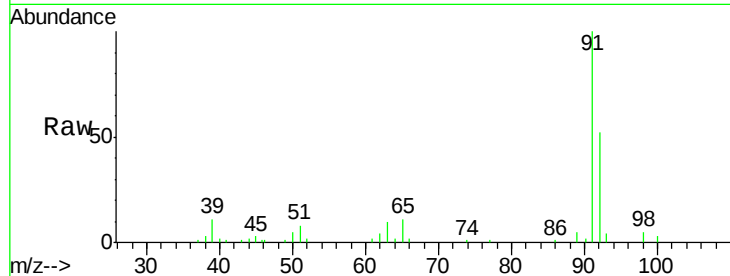
Ion Ratio Lower Upper

91 100

92 52.4 39.5 73.3

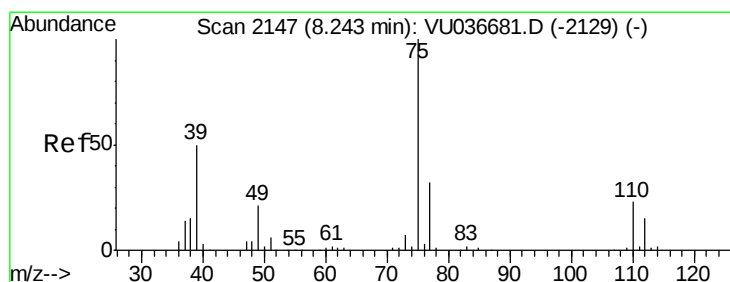
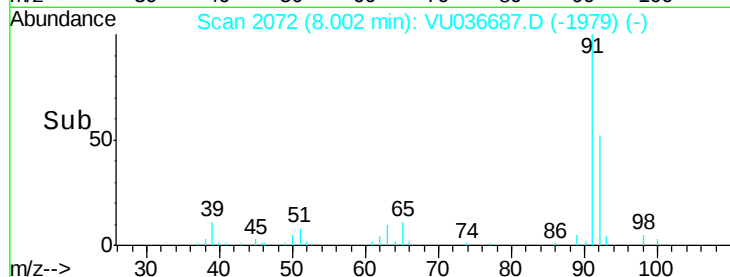
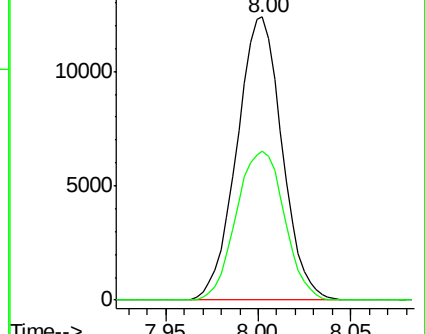
Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:21:53 PM



Abundance Ion 91.00 (90.70 to 91.70): VU036681.D (-2057) (-)

Ion 92.00 (91.70 to 92.70): VU036681.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.419 ug/L m

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036687.D

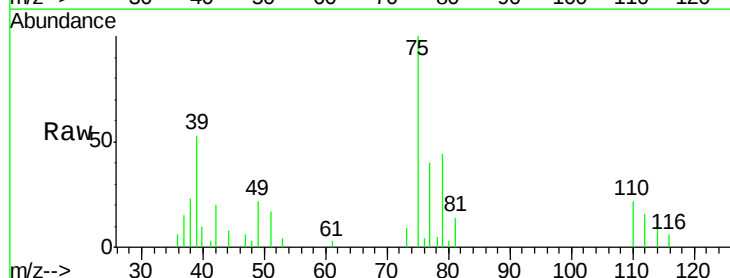
Acq: 06 Feb 2020 15:43

Tgt Ion: 75 Resp: 6944

Ion Ratio Lower Upper

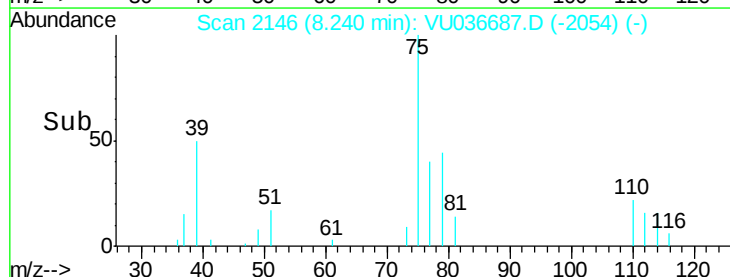
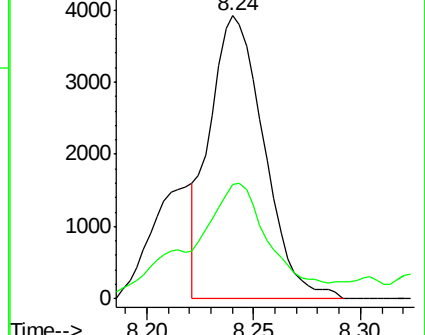
75 100

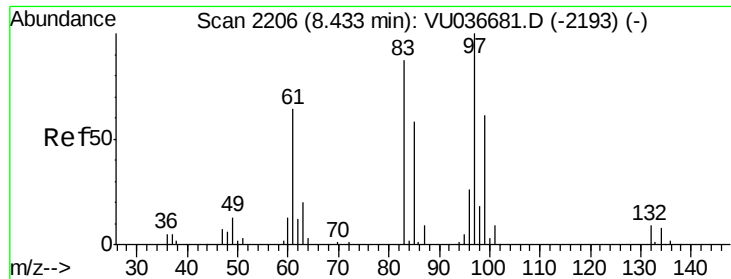
77 40.2 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036681.D (-2129) (-)

Ion 77.00 (76.70 to 77.70): VU036681.D (-2129) (-)





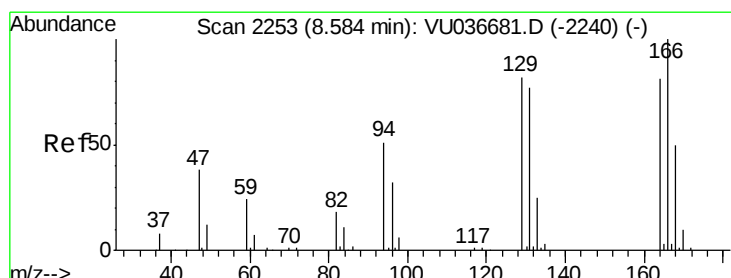
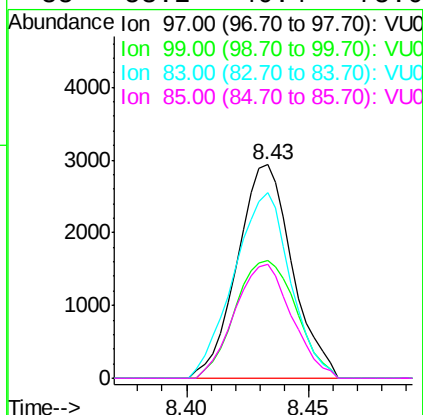
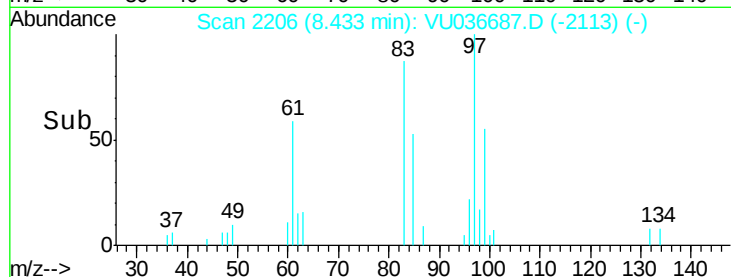
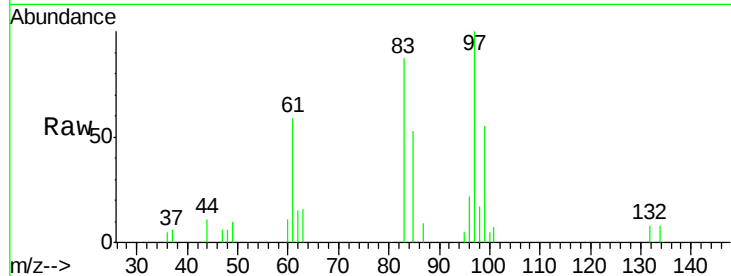
#45
1,1,2-Trichloroethane
Concen: 2.444 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:	97	Resp:	4587
Ion	Ratio	Lower	Upper
97	100		
99	54.9	42.6	79.0
83	86.8	61.1	113.5
85	53.2	40.4	75.0

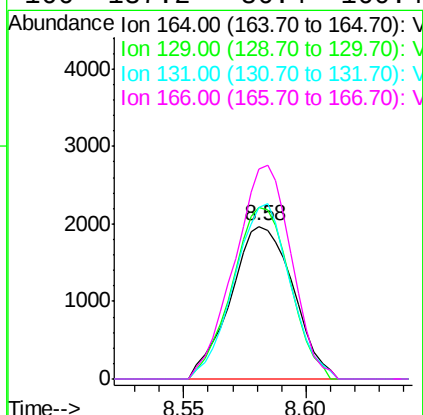
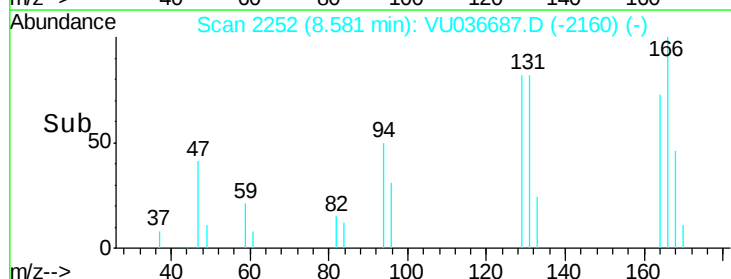
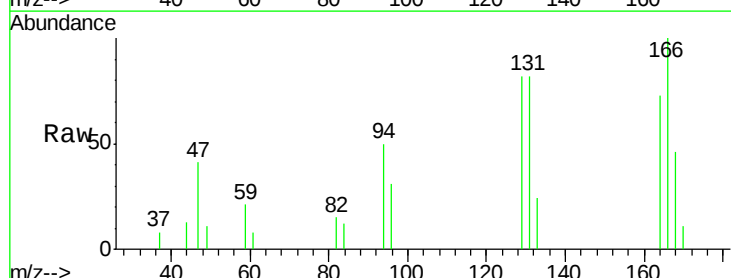
Manual Integrations
APPROVED

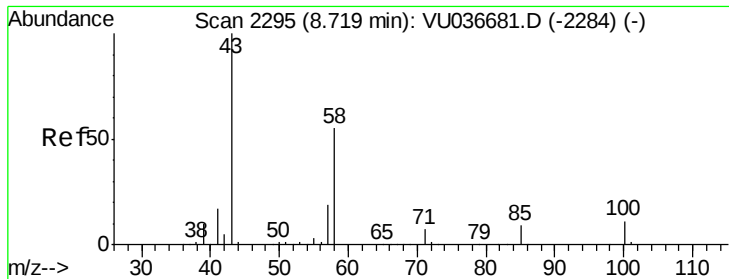
MMDadoda
2/7/2020 1:21:53 PM



#46
Tetrachloroethene
Concen: 2.637 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion:	164	Resp:	3491
Ion	Ratio	Lower	Upper
164	100		
129	112.4	71.0	131.9
131	111.9	66.6	123.6
166	137.2	86.4	160.4





#48

2-Hexanone

Concen: 5.585 ug/L

RT: 8.72 min Scan# 2295

Delta R.T. 0.00 min

Lab File: VU036687.D

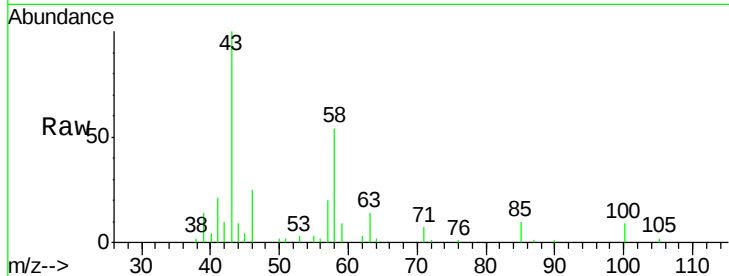
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampled :
MDL01

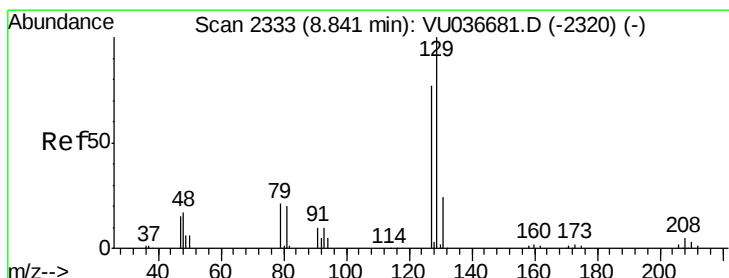
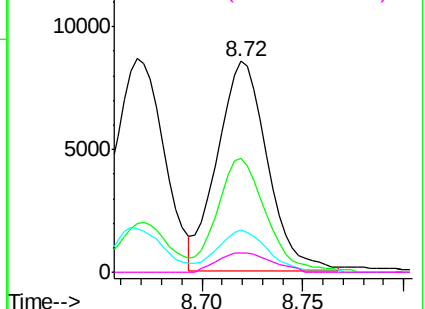
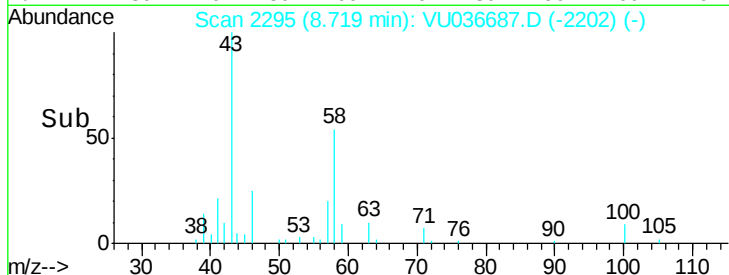
Tot Ion:	43	Resp:	14807
Ion	Ratio	Lower	Upper
43	100		
58	53.2	43.6	65.4
57	18.1	15.5	23.3
100	10.0	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
2/7/2020 1:21:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VU036687.D (-2284) (-)



#49

Dibromochloromethane

Concen: 2.337 ug/L

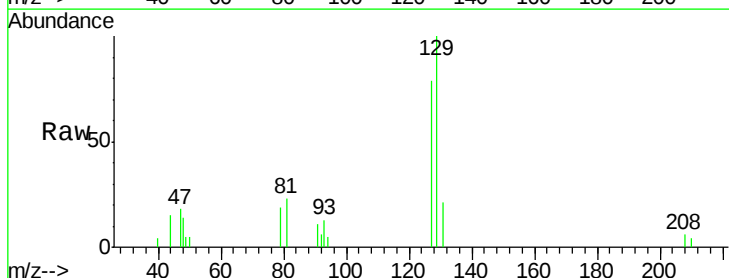
RT: 8.84 min Scan# 2332

Delta R.T. -0.00 min

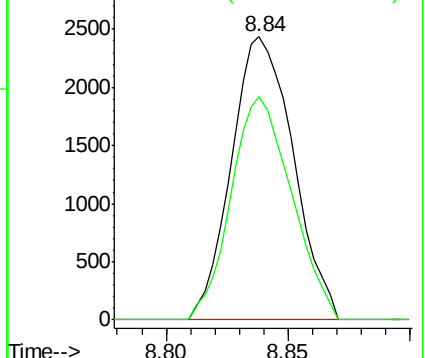
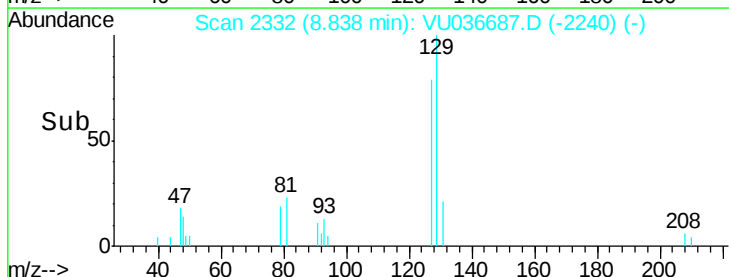
Lab File: VU036687.D

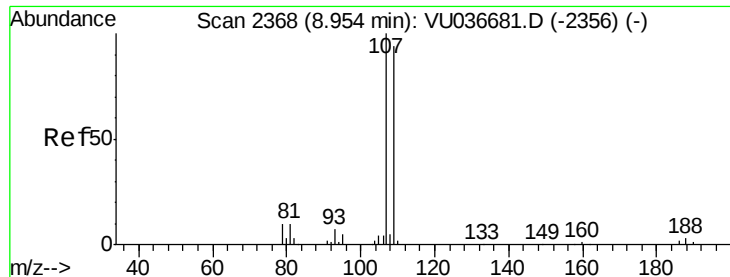
Acq: 06 Feb 2020 15:43

Tgt Ion:	129	Resp:	4289
Ion	Ratio	Lower	Upper
129	100		
127	78.6	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036687.D (-2320) (-)





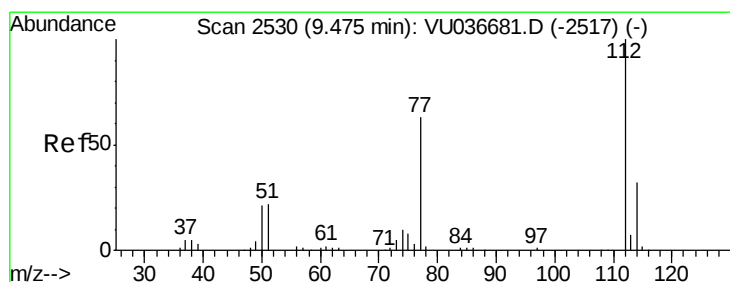
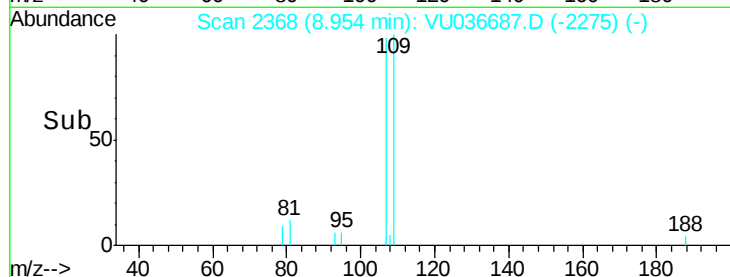
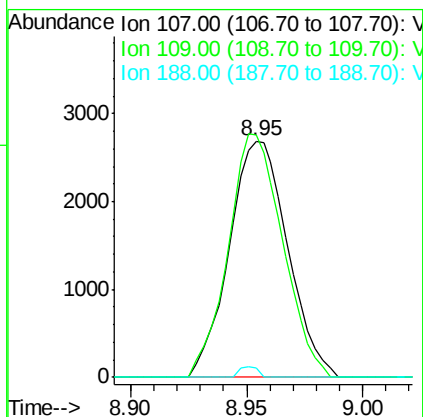
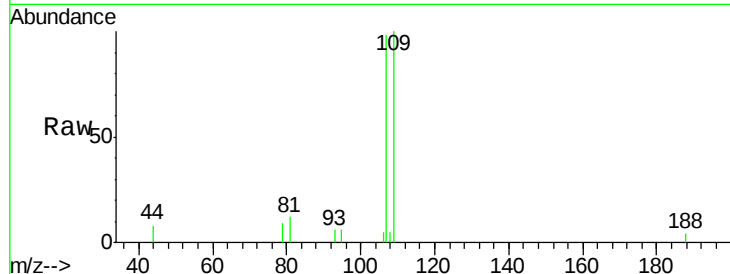
#50
1,2-Dibromoethane
Concen: 2.378 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	102.5	65.8	122.2
188	4.0	2.5	3.7#

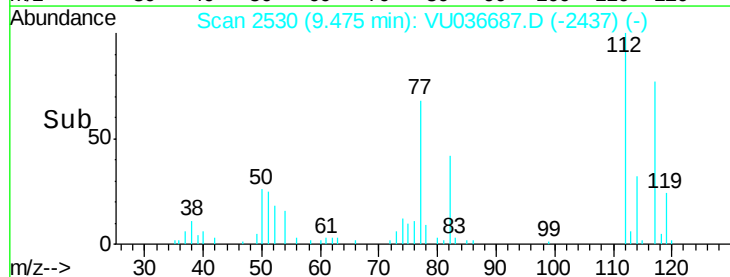
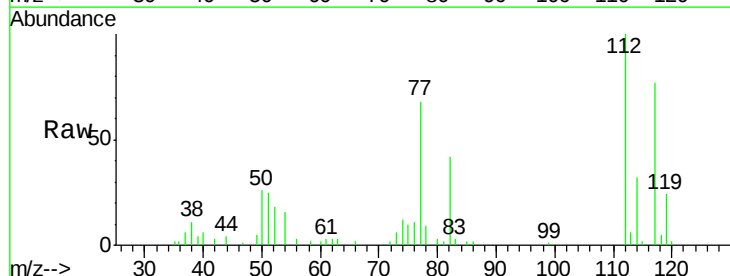
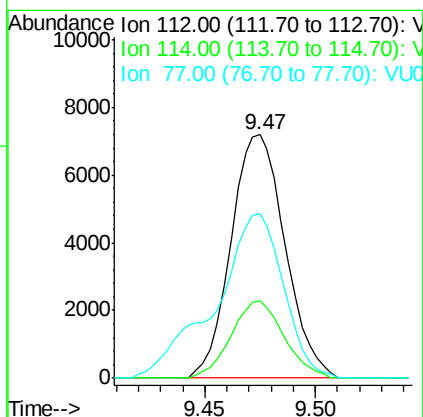
Manual Integrations
APPROVED

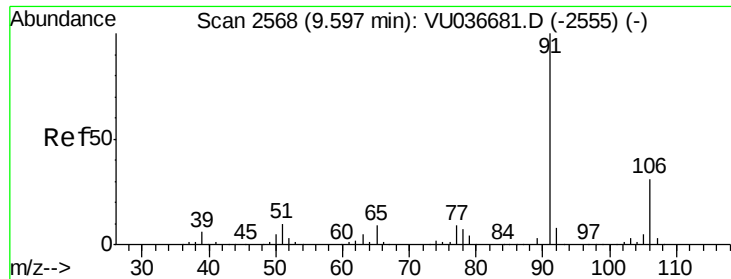
MMDadoda
2/7/2020 1:21:53 PM



#51
Chlorobenzene
Concen: 2.464 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.7	42.1
77	67.6	50.6	75.8





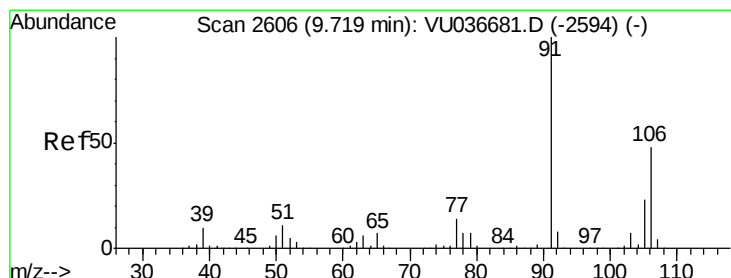
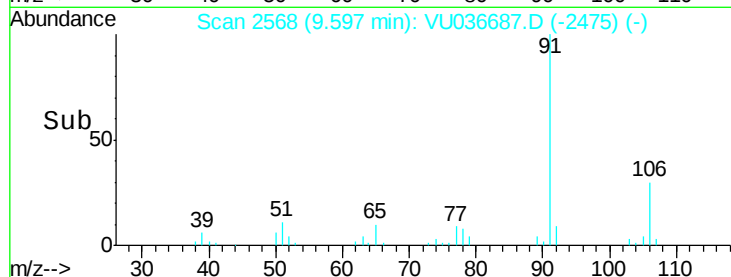
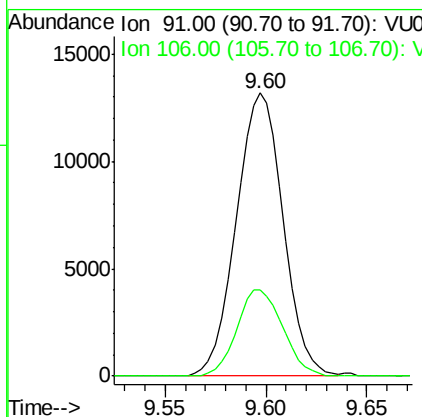
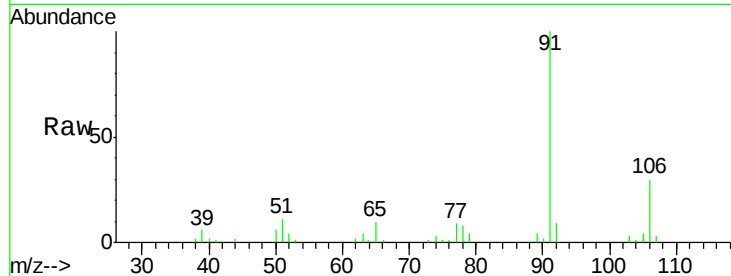
#52
Ethylbenzene
Concen: 2.367 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 91 Resp: 21439
Ion Ratio Lower Upper
91 100
106 30.3 21.3 39.6

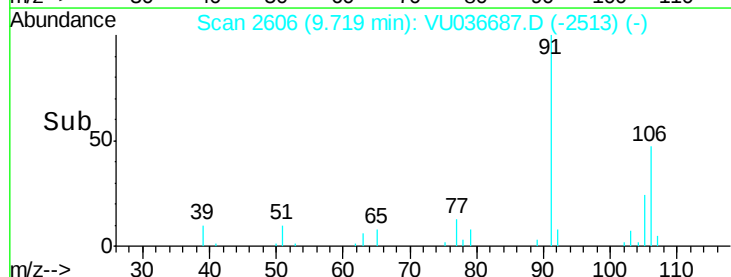
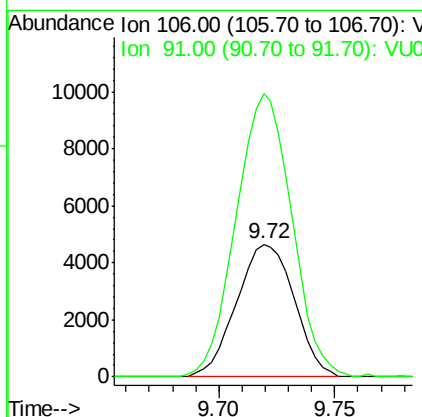
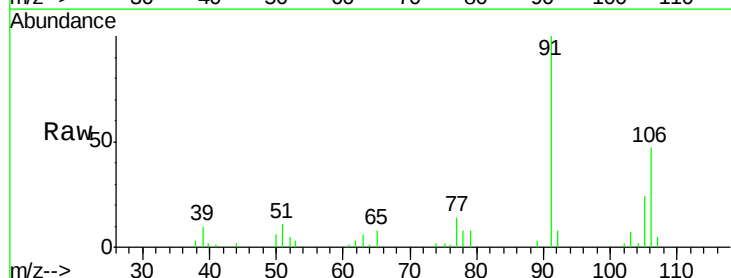
Manual Integrations
APPROVED

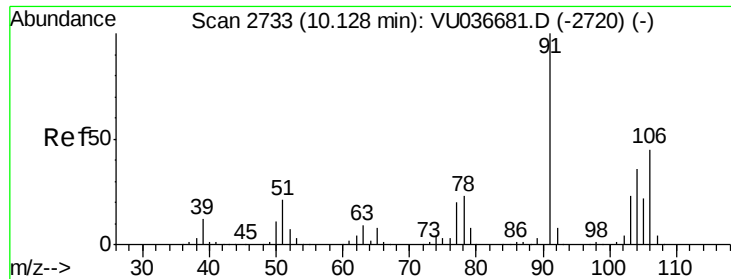
MMDadoda
2/7/2020 1:21:53 PM



#53
m,p-Xylene
Concen: 2.406 ug/L
RT: 9.72 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VU036687.D
Acq: 06 Feb 2020 15:43

Tgt Ion: 106 Resp: 8038
Ion Ratio Lower Upper
106 100
91 212.9 145.9 270.9





#54

o-xylene

Concen: 2.298 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:106 Resp: 7606

Ion Ratio Lower Upper

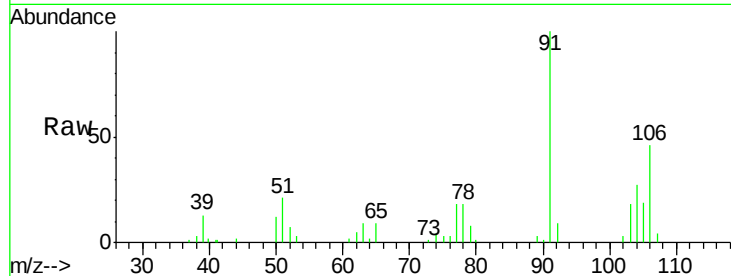
106 100

91 215.3 156.0 289.6

Manual Integrations
APPROVED

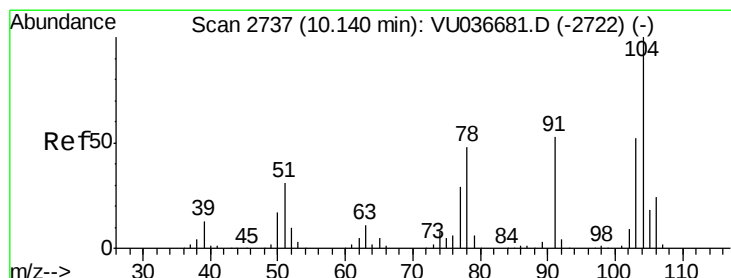
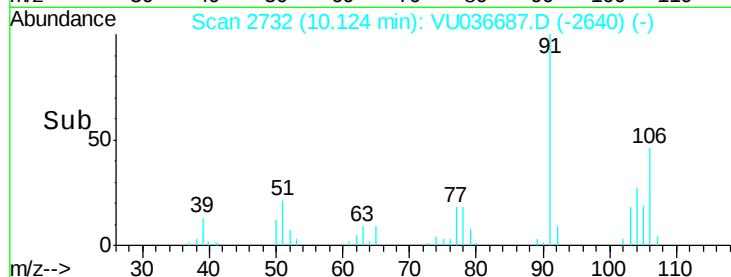
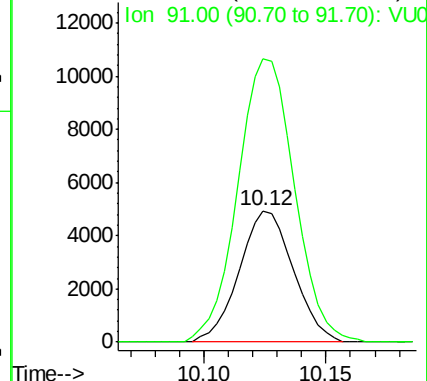
MMDadoda

2/7/2020 1:21:53 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.264 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036687.D

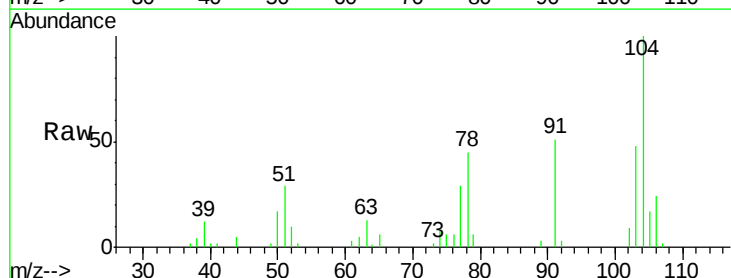
Acq: 06 Feb 2020 15:43

Tgt Ion:104 Resp: 12486

Ion Ratio Lower Upper

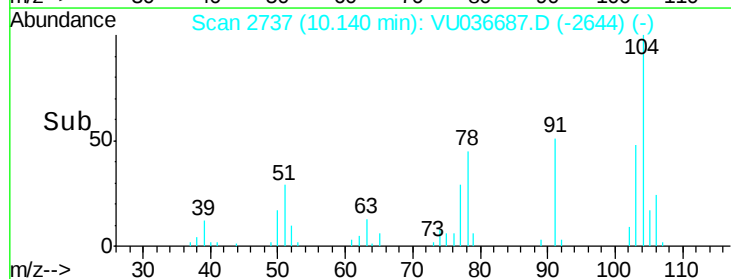
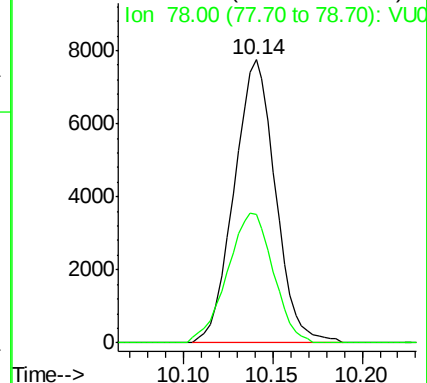
104 100

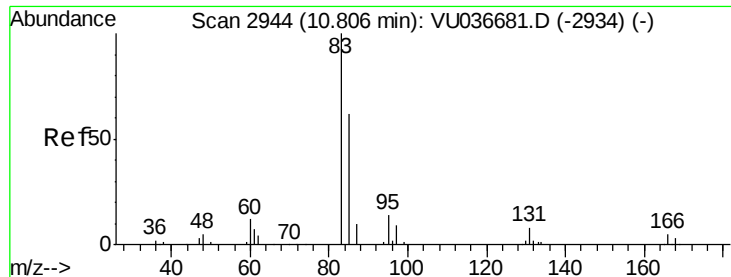
78 45.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.441 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

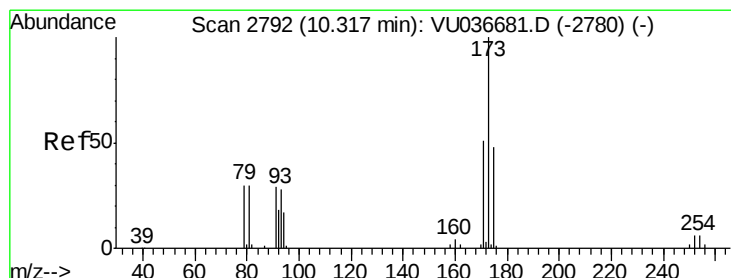
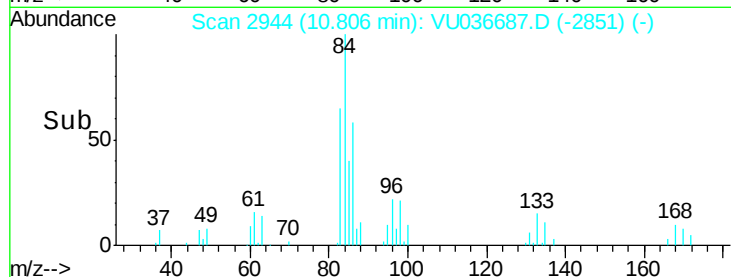
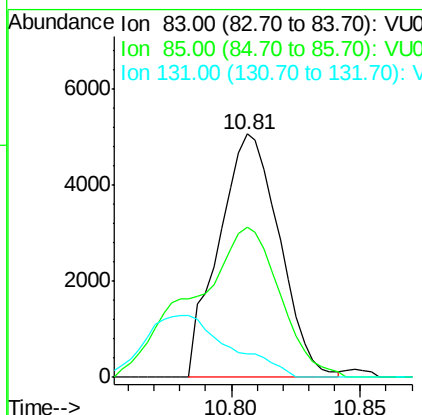
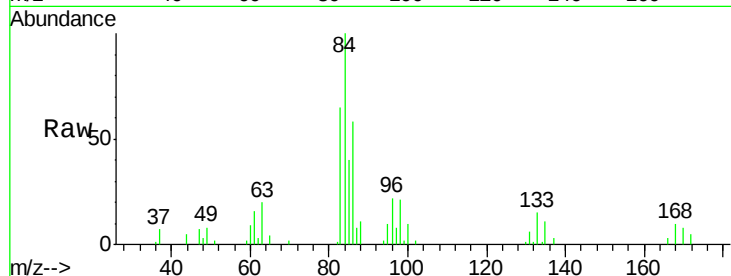
ClientSampleId :

MDL01

Tot Ion:	83	Resp:	8253
Ion	Ratio	Lower	Upper
83	100		
85	61.9	44.7	82.9
131	9.8	6.8	10.2

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2/7/2020 1:21:53 PM



#59

Bromoform

Concen: 2.102 ug/L

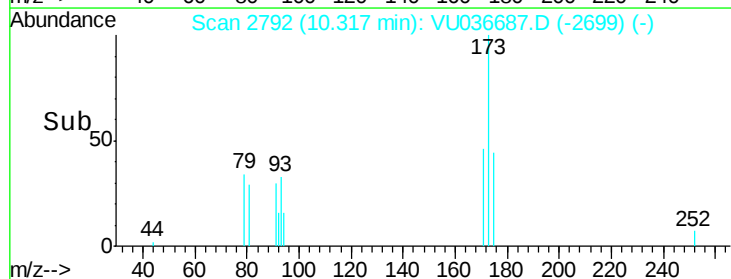
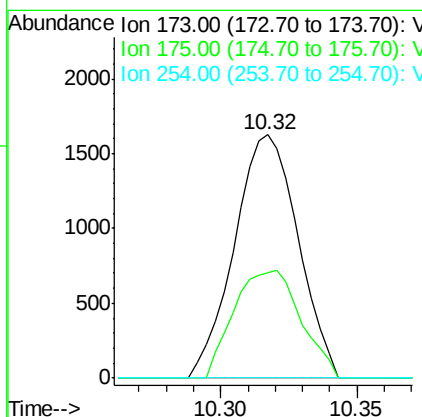
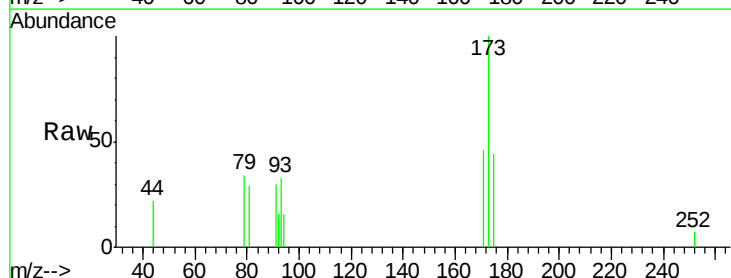
RT: 10.32 min Scan# 2792

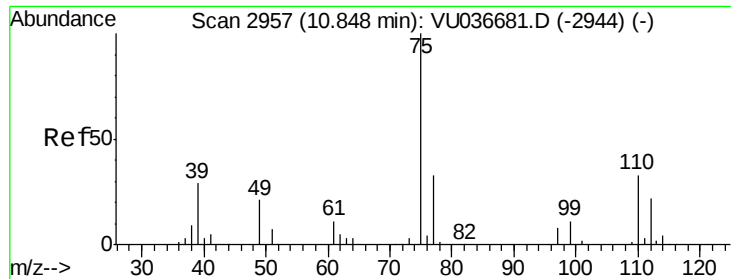
Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion:	173	Resp:	2631
Ion	Ratio	Lower	Upper
173	100		
175	46.6	38.2	57.4
254	0.0	4.8	7.2#





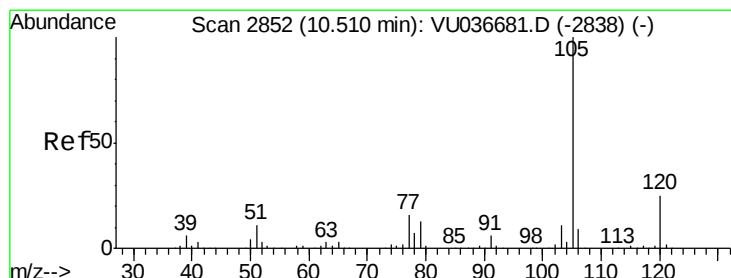
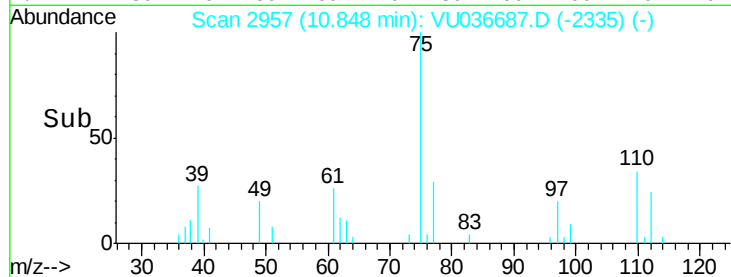
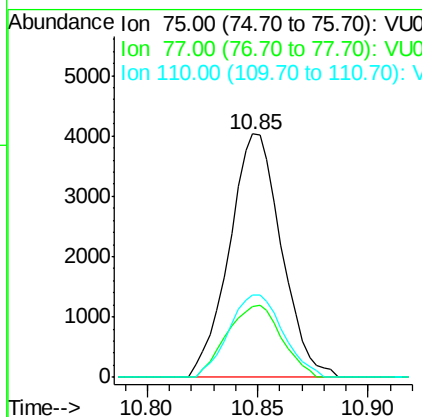
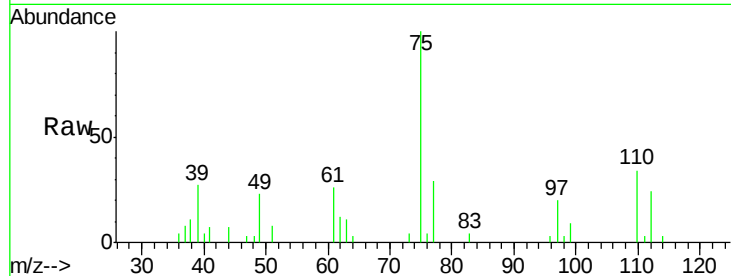
#60
 1,2,3-Trichloropropane
 Concen: 2.477 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.1	39.1
110	35.1	26.9	40.3

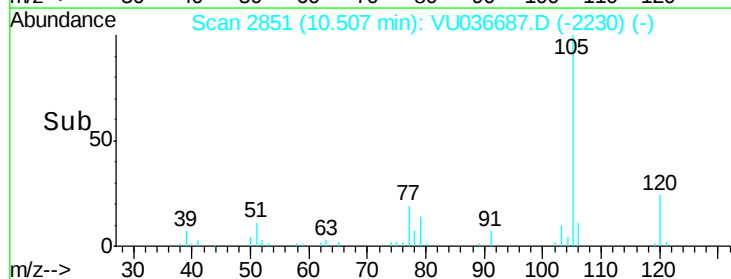
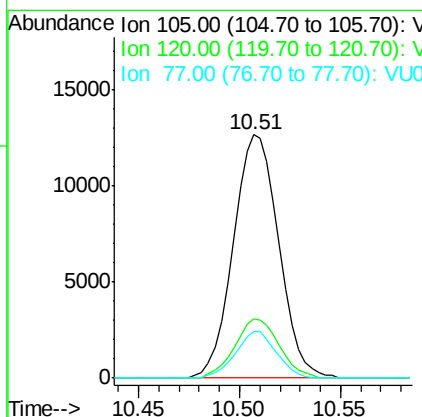
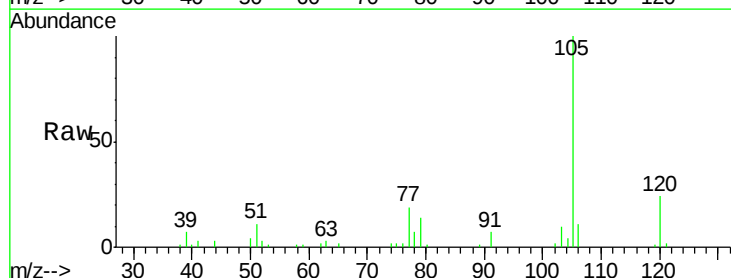
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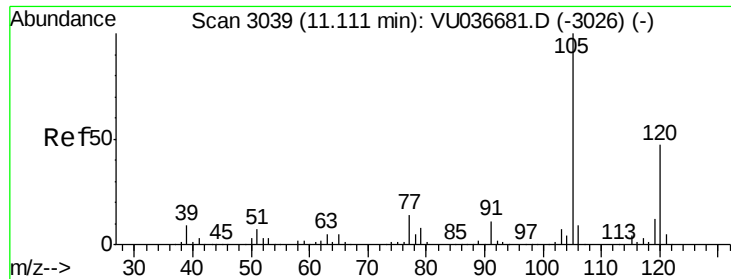
MMDadoda
 2/7/2020 1:21:53 PM



#61
 Isopropylbenzene
 Concen: 2.369 ug/L
 RT: 10.51 min Scan# 2851
 Delta R.T. -0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.8	20.2	30.4
77	17.3	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.264 ug/L

RT: 11.11 min Scan# 3038

Delta R.T. -0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:105 Resp: 16380

Ion Ratio Lower Upper

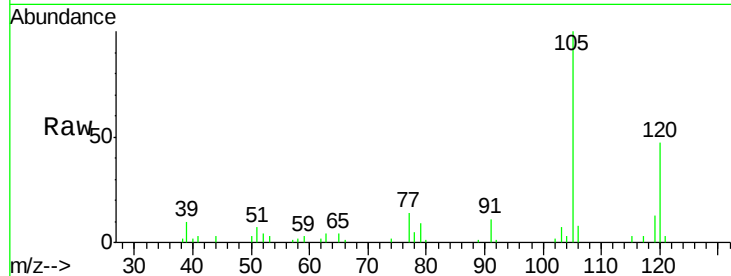
105 100

120 48.4 37.1 55.7

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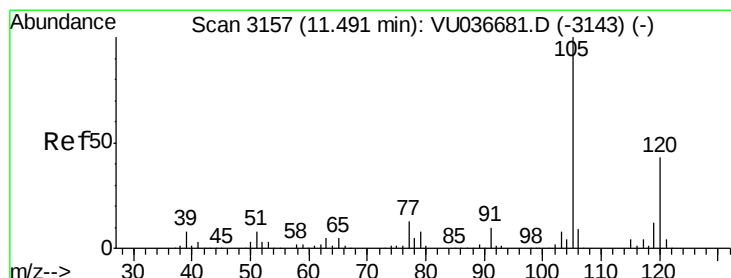
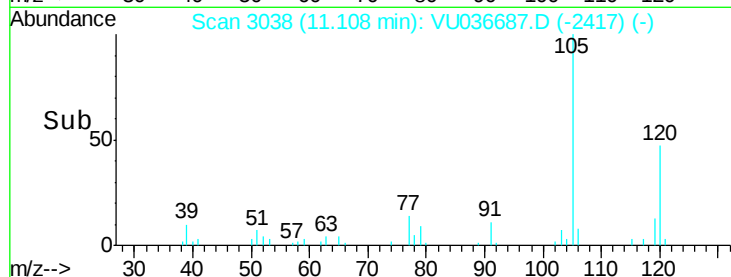
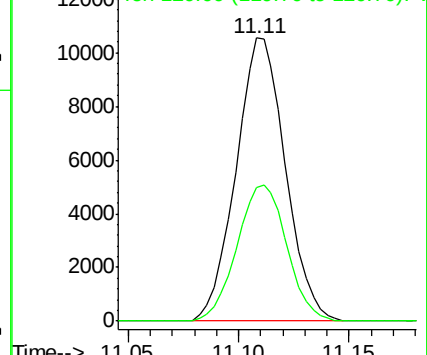
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.255 ug/L

RT: 11.49 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU036687.D

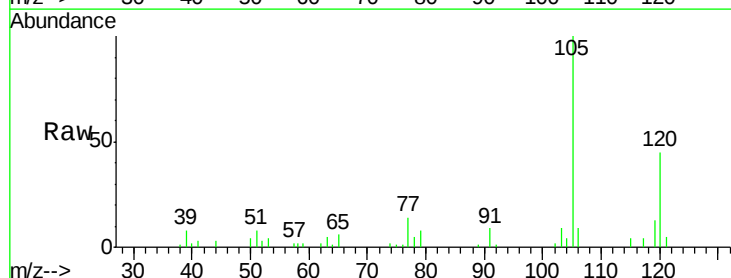
Acq: 06 Feb 2020 15:43

Tgt Ion:105 Resp: 16289

Ion Ratio Lower Upper

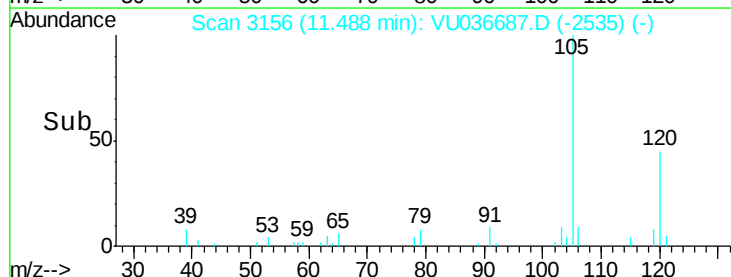
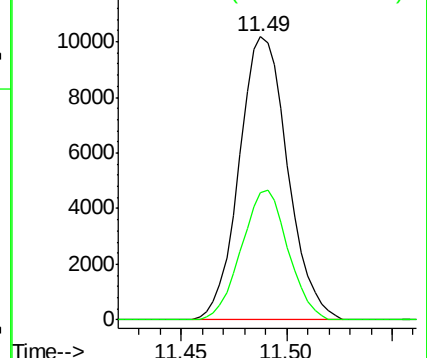
105 100

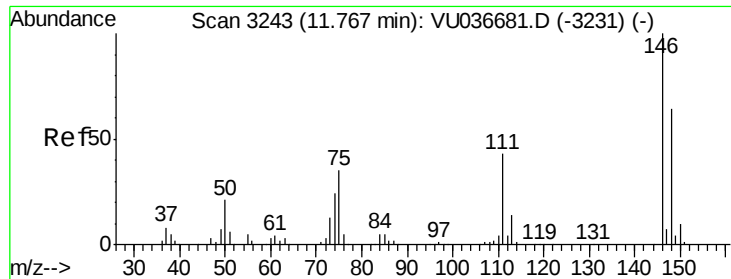
120 43.9 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





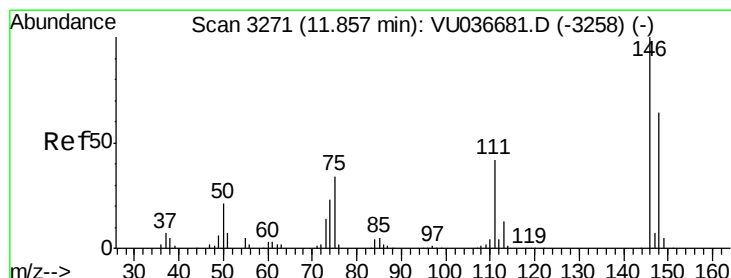
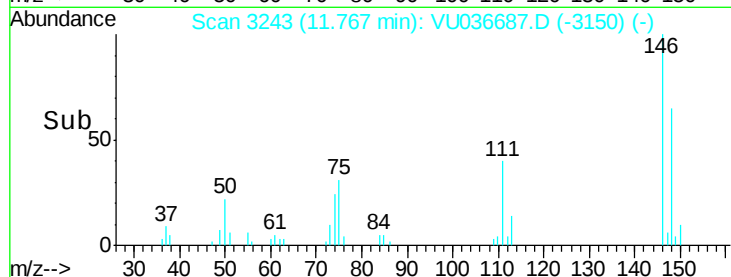
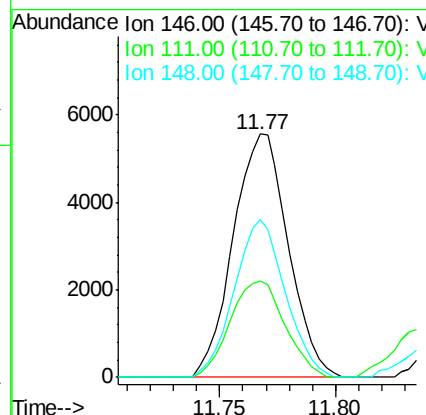
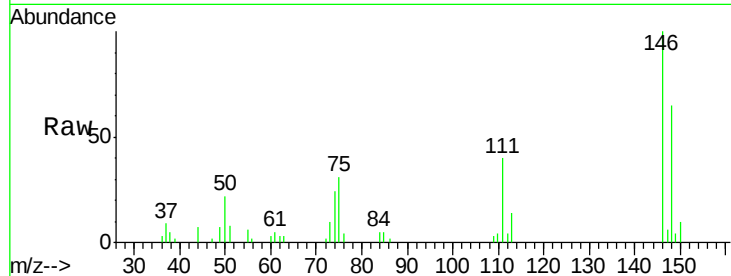
#64
 1,3-Dichlorobenzene
 Concen: 2.586 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	30.4	56.4
148	64.8	44.5	82.7

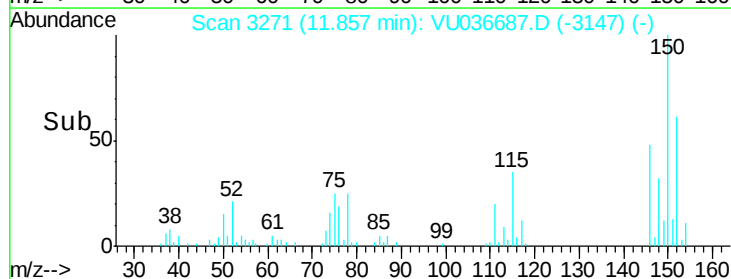
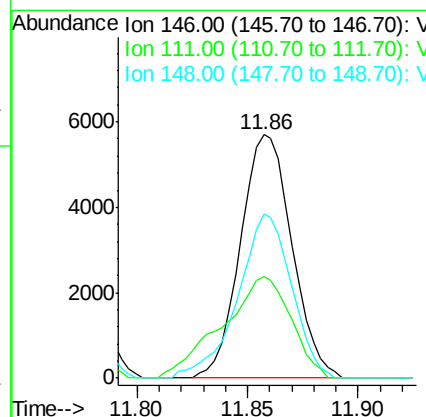
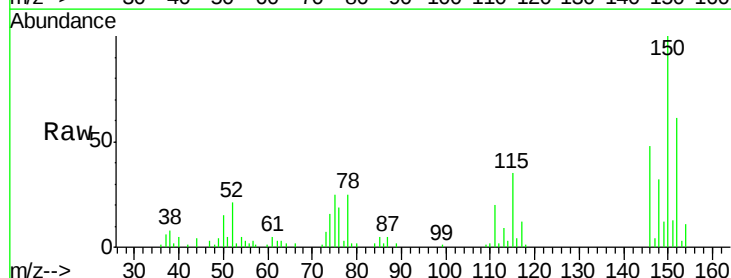
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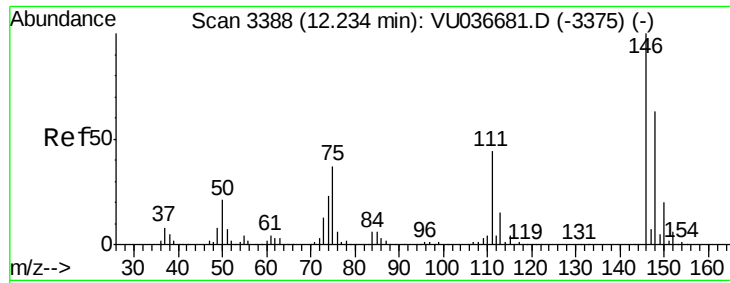
MMDadoda
 2/7/2020 1:21:53 PM



#65
 1,4-Dichlorobenzene
 Concen: 2.587 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	29.3	54.3
148	67.3	44.8	83.2





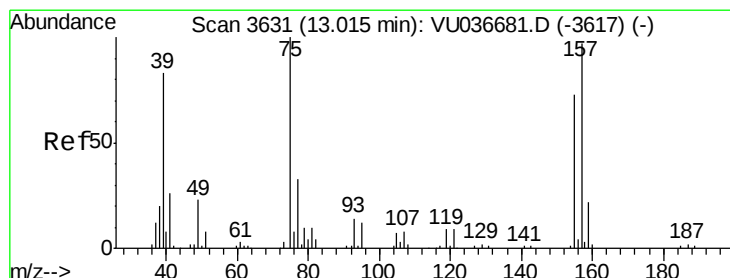
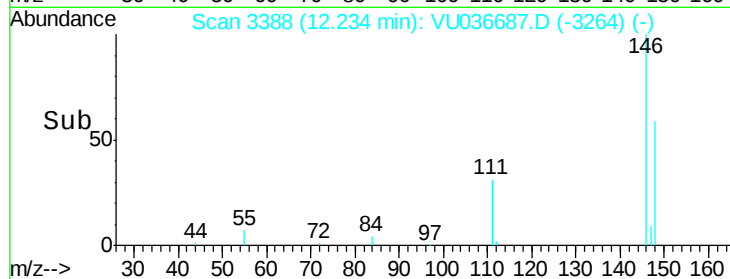
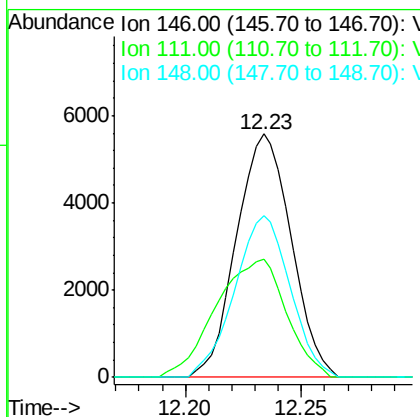
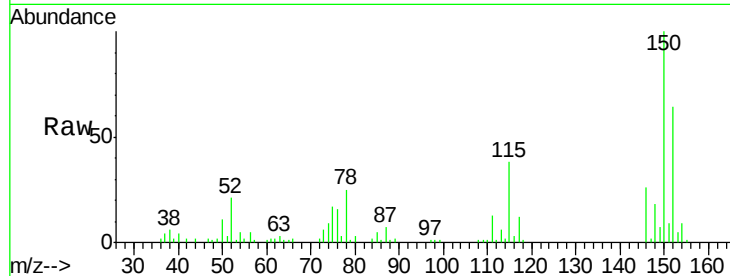
#67
 1,2-Dichlorobenzene
 Concen: 2.545 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.3	35.4	53.0
148	66.2	50.4	75.6

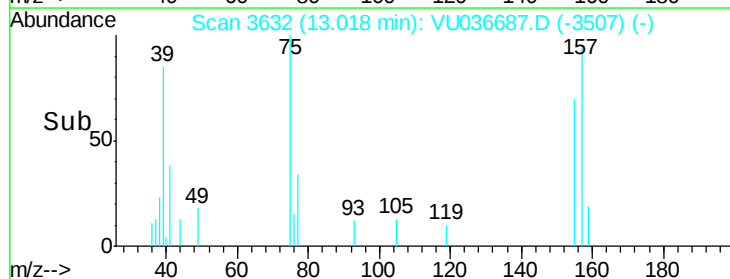
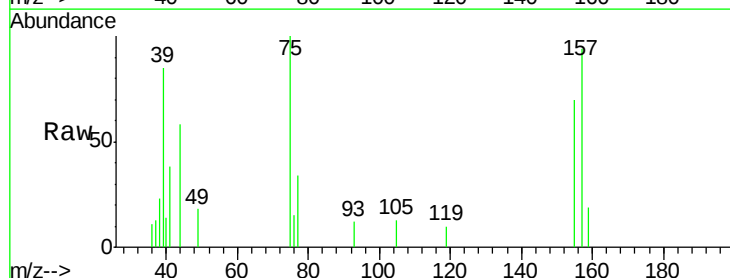
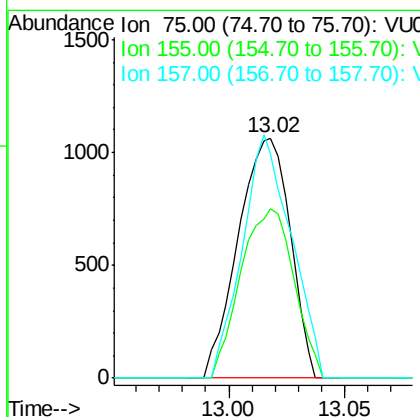
Manual Integrations
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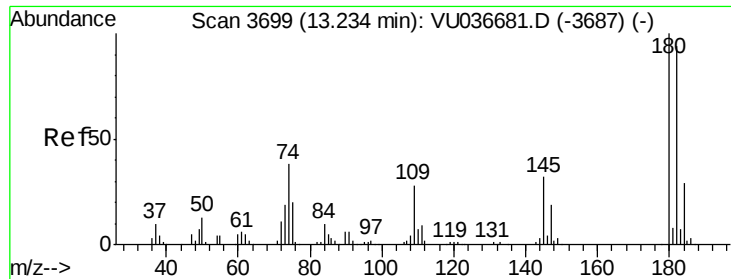
MMDadoda
 2/7/2020 1:21:53 PM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.165 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.5	58.7	88.1
157	93.5	77.8	116.6





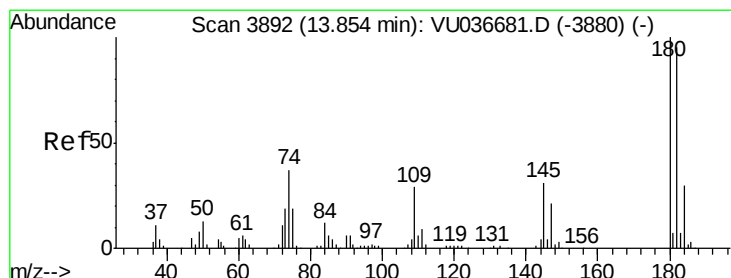
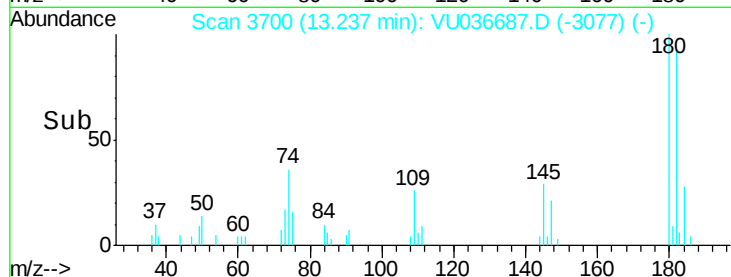
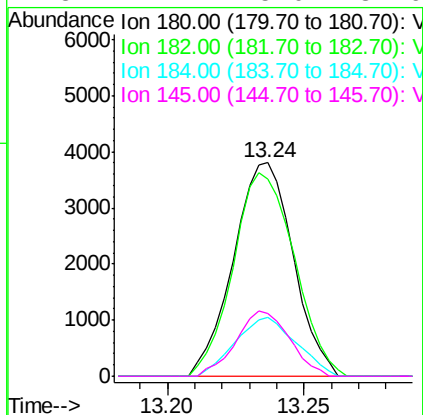
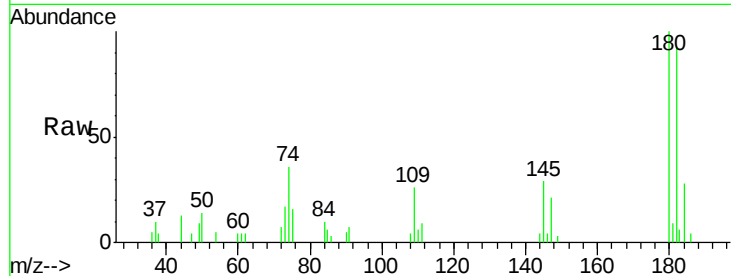
#69
 1,3,5-Trichlorobenzene
 Concen: 2.349 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.2	114.4
184	28.3	23.8	35.6
145	27.4	25.0	37.6

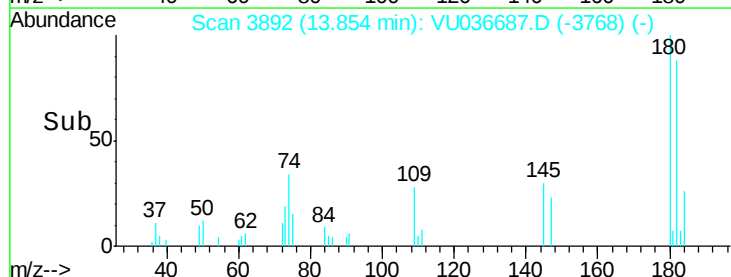
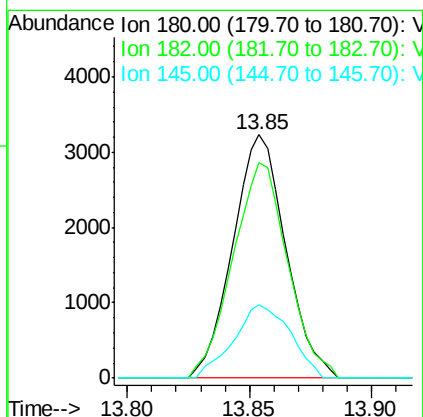
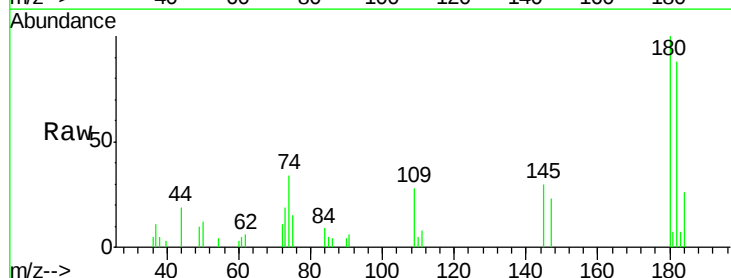
Manual Integrations
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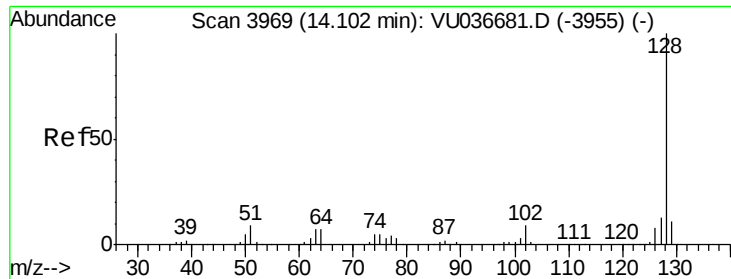
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#70
 1,2,4-trichlorobenzene
 Concen: 2.372 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036687.D
 Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.5	76.1	114.1
145	32.2	25.7	38.5





#71

Naphthalene

Concen: 1.893 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Instrument :

MSVOA_U

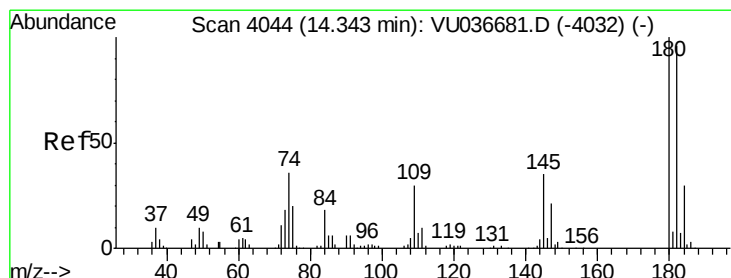
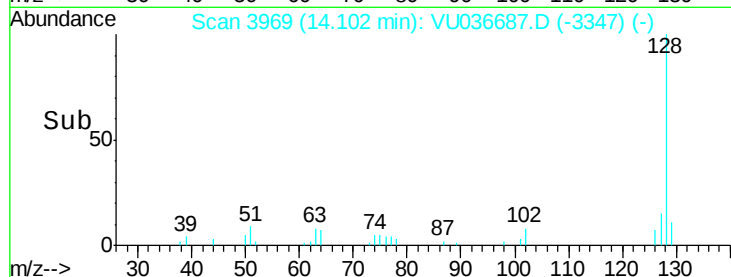
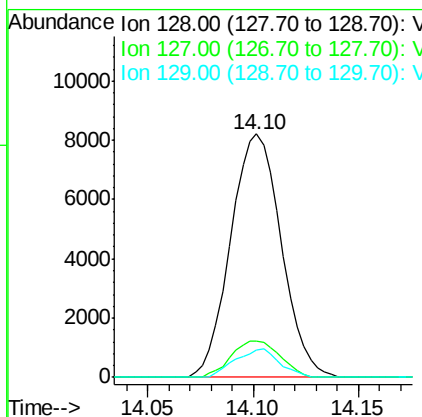
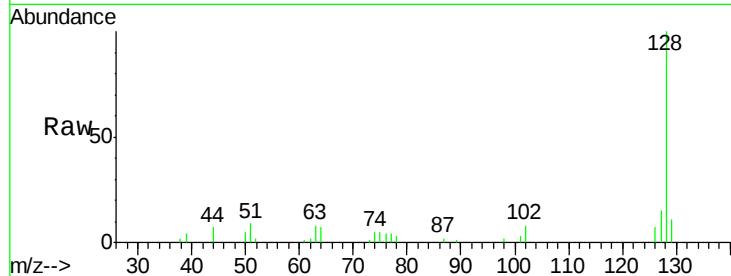
ClientSampled :

MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	16.0
129	10.3	8.5	12.7

Manual Integrations
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2/7/2020 1:21:53 PM



#72

1,2,3-Trichlorobenzene

Concen: 2.048 ug/L

RT: 14.34 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VU036687.D

Acq: 06 Feb 2020 15:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	76.8	115.2
145	36.2	27.5	41.3

