

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\
 Data File : VU036031.D
 Acq On : 06 Dec 2019 18:34
 Operator : JC/SP
 Sample : K6168-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

Manual Integrations
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Quant Time: Dec 07 00:40:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 06 22:30:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	287225	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	305618	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	88494	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	110939	3.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.80%
7) Chloroethane-d5	1.93	69	122153	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.00%
11) 1,1-Dichloroethene-d2	2.60	63	340603	7.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	144.80%#
20) 2-Butanone-d5	4.68	46	279977	48.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.58%
24) Chloroform-d	5.11	84	202814	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
26) 1,2-Dichloroethane-d4	5.75	65	111026	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
32) Benzene-d6	5.77	84	388123	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.73	67	123384	4.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.20%
41) Toluene-d8	7.93	98	324107	3.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.80%
43) trans-1,3-Dichloropropene-	8.21	79	43769	3.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.00%
46) 2-Hexanone-d5	8.67	63	253146	54.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.74%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	111566	4.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	93414	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

					Ovalue
3) Chloromethane	1.54	50	8011	0.236	ug/L 86
6) Bromomethane	1.87	94	2144	0.109	ug/L 85
9) Trichlorofluoromethane	2.16	101	13039	0.324	ug/L 89
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	209699	9.499	ug/L 92
12) 1,1-Dichloroethene	2.61	96	423674	20.582	ug/L # 68
13) Acetone	2.66	43	6179	1.179	ug/L 94
16) Methylene chloride	3.08	84	3414	0.107	ug/L 94
17) Methyl tert-butyl Ether	3.41	73	146068	3.029	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	5100	0.234	ug/L 86
19) 1,1-Dichloroethane	3.92	63	176358	4.139	ug/L 96
22) cis-1,2-Dichloroethene	4.72	96	854239	37.096	ug/L 89
25) Chloroform	5.14	83	40696	0.947	ug/L 98
27) 1,2-Dichloroethane	5.84	62	9754	0.355	ug/L # 93
29) 1,1,1-Trichloroethane	5.36	97	132540	3.586	ug/L 98
31) Carbon tetrachloride	5.57	117	3762m	0.115	ug/L
33) Benzene	5.82	78	17720	0.184	ug/L 100
34) Trichloroethene	6.58	95	5811247	239.105	ug/L 95

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 06 22:30:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.44	97	13818	0.780	ug/L	95
47) Tetrachloroethene	8.58	164	22664741m	1147.379	ug/L	
62) 1,3-Dichlorobenzene	11.77	146	1833	0.062	ug/L #	75
63) 1,4-Dichlorobenzene	11.86	146	3562	0.122	ug/L	90
65) 1,2-Dichlorobenzene	12.24	146	2893	0.103	ug/L #	86

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

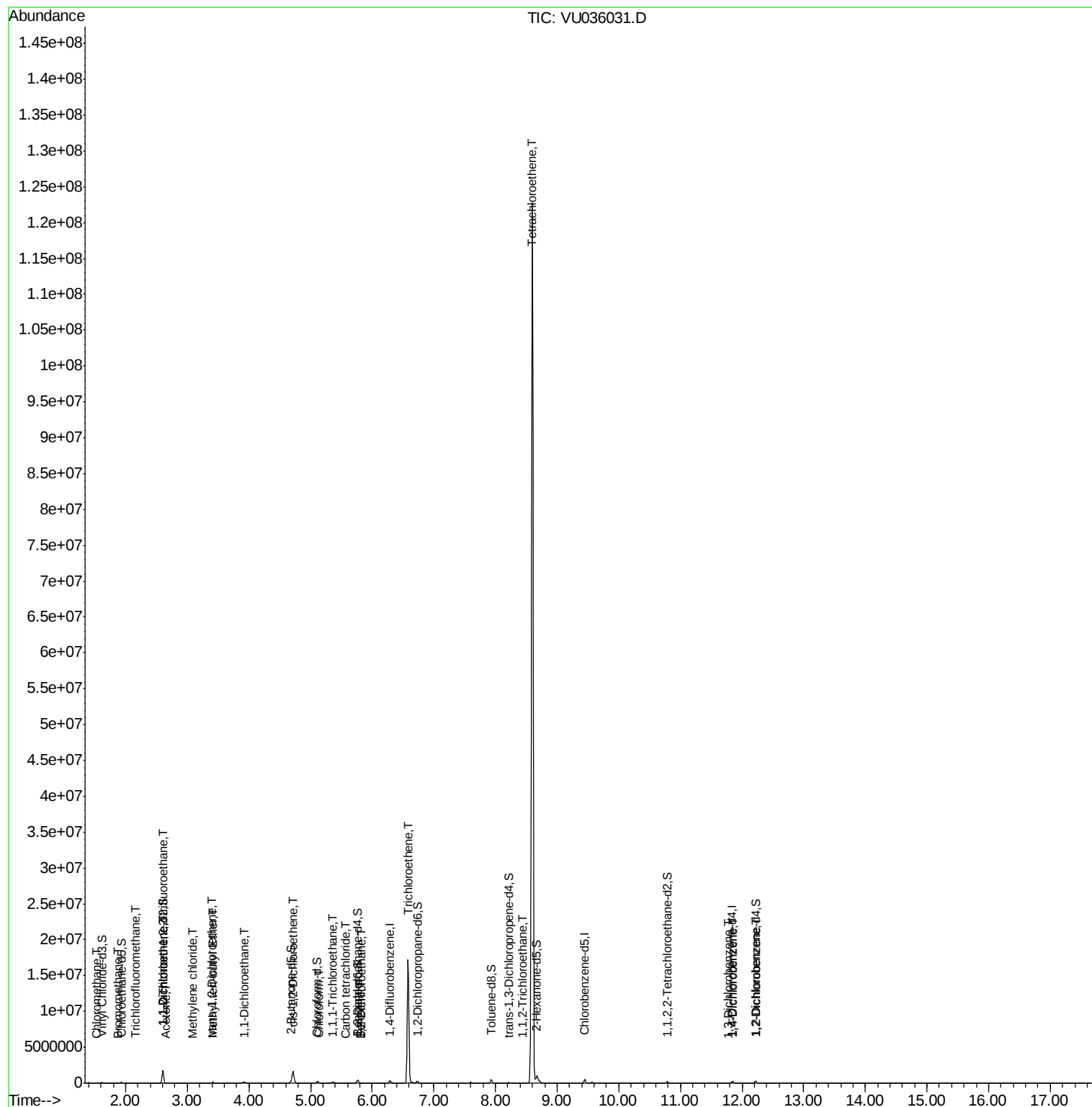
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Data File : VU036031.D
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Operator : JC/SP
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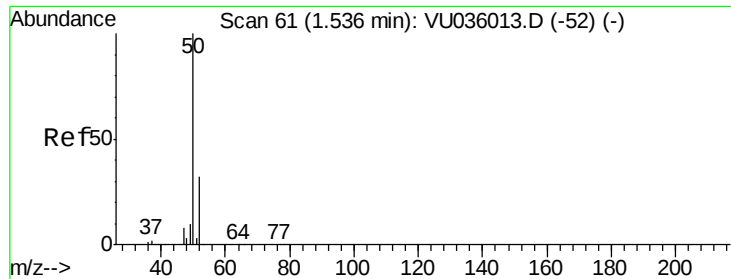
Instrument :
MSVOA_U
ClientSampleId :
BFE40

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Quant Time: Dec 07 00:40:45 2019
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#3

Chloromethane

Concen: 0.236 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

Tot Ion: 50 Resp: 8011

Ion Ratio Lower Upper

50 100

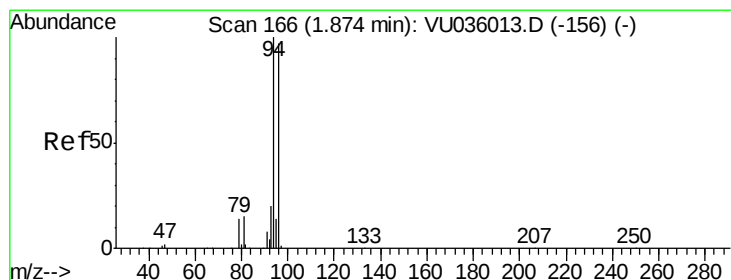
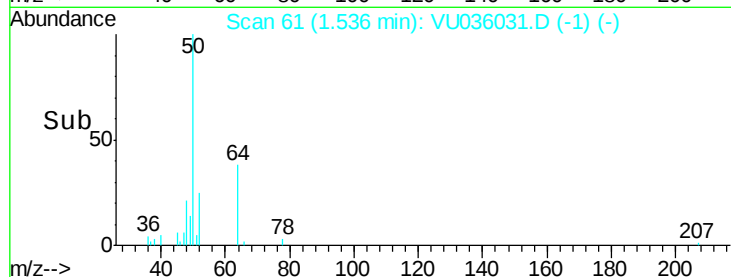
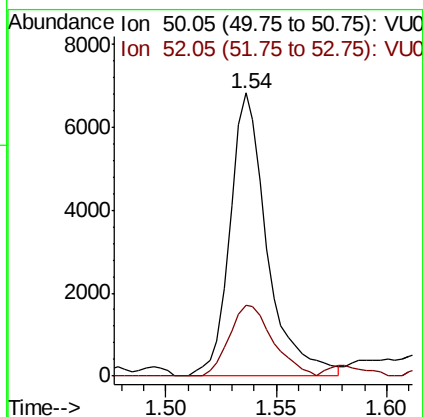
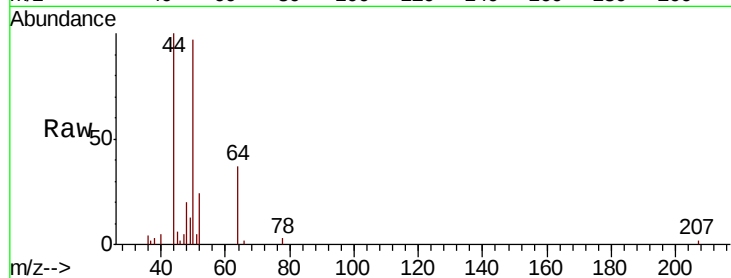
52 25.1 23.1 42.9

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#6

Bromomethane

Concen: 0.109 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU036031.D

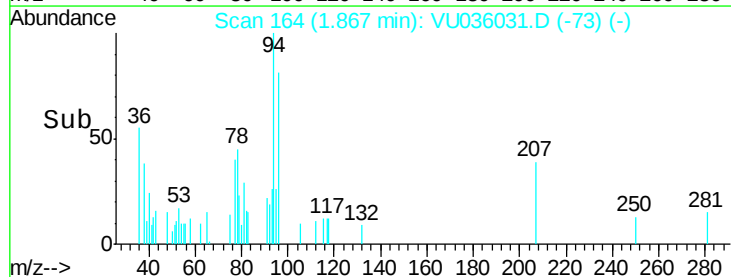
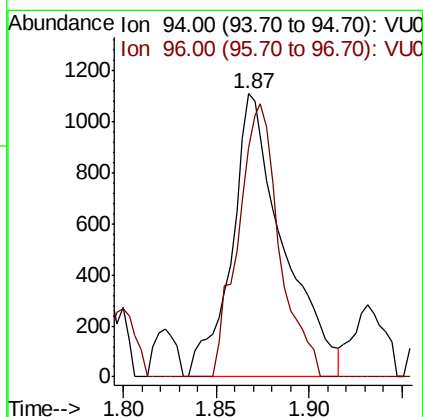
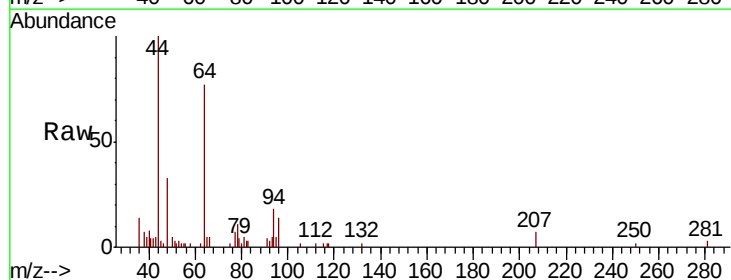
Acq: 06 Dec 2019 18:34

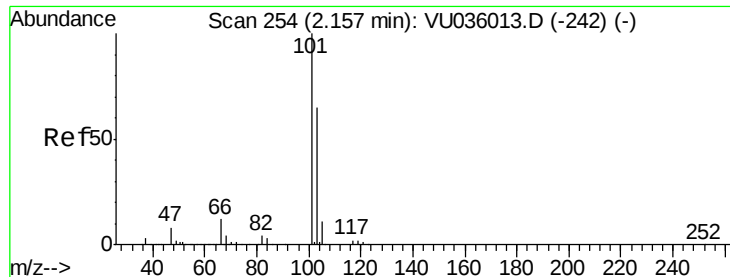
Tgt Ion: 94 Resp: 2144

Ion Ratio Lower Upper

94 100

96 81.2 67.3 124.9





#9

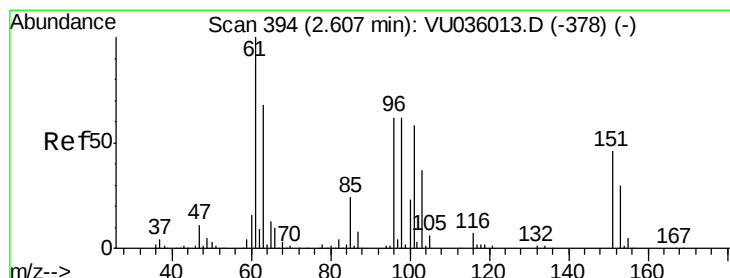
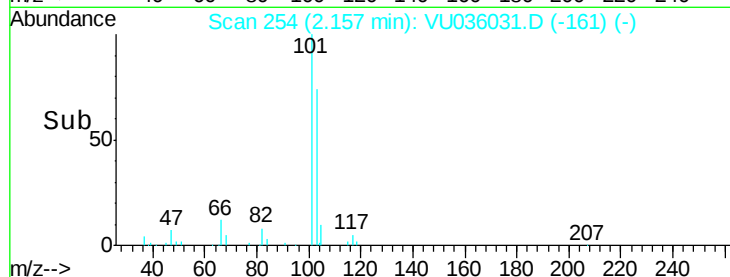
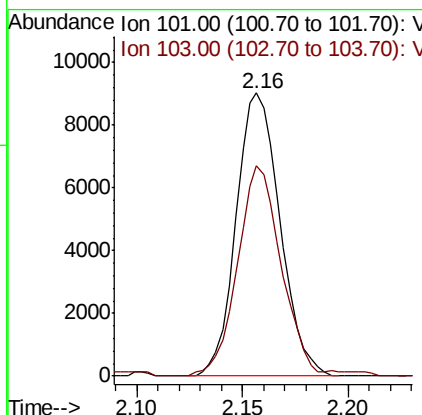
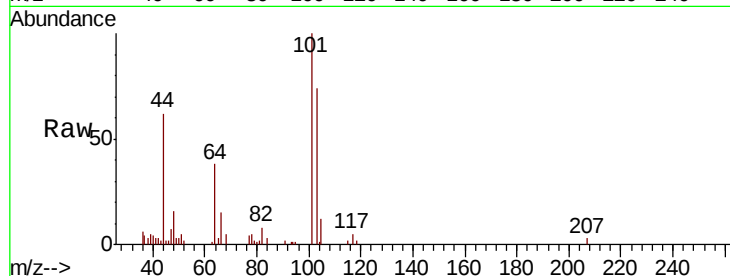
Trichlorofluoromethane
 Concen: 0.324 ug/L
 RT: 2.16 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		13039		
103	73.8	51.8	77.8		

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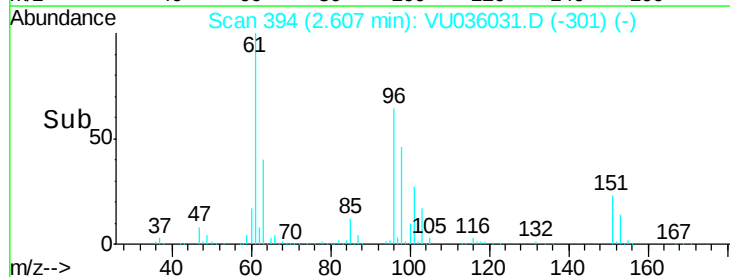
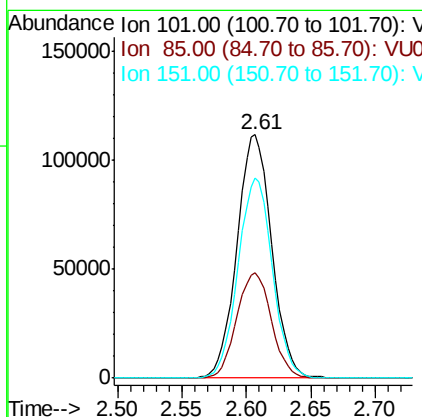
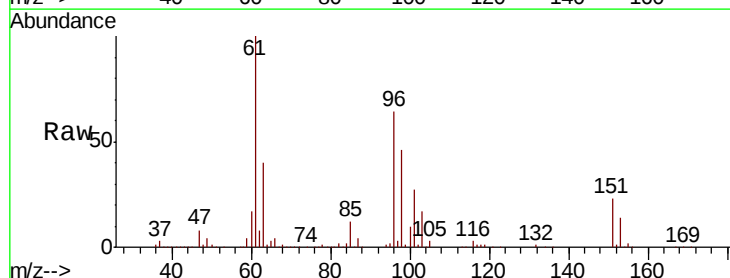
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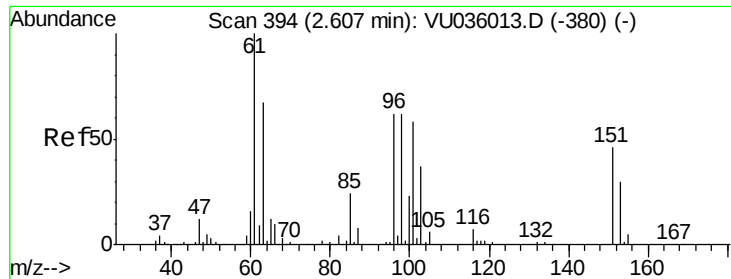


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 9.499 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		209699		
85	43.0	35.5	53.3		
151	81.3	57.5	86.3		





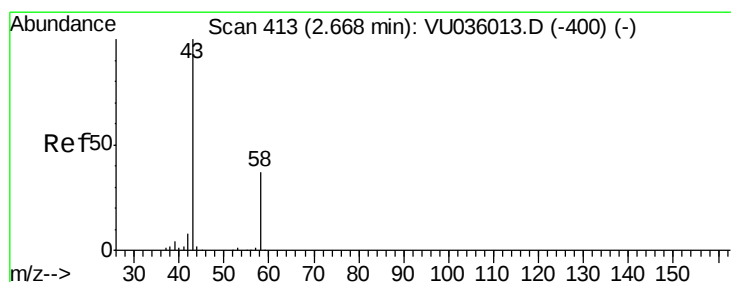
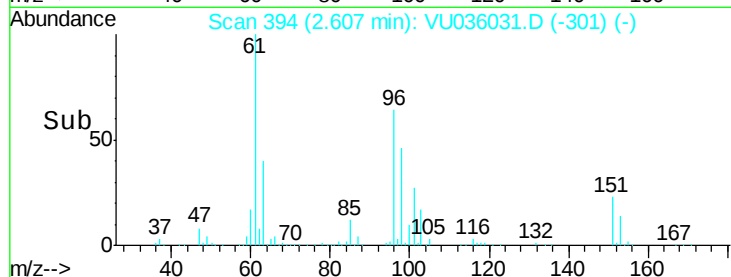
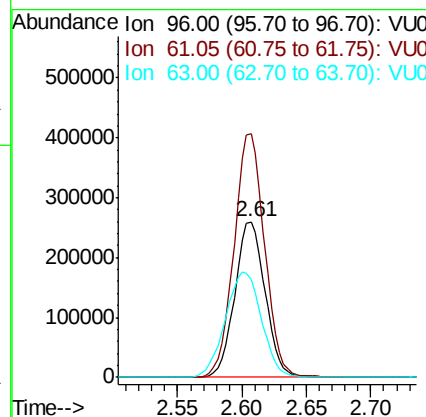
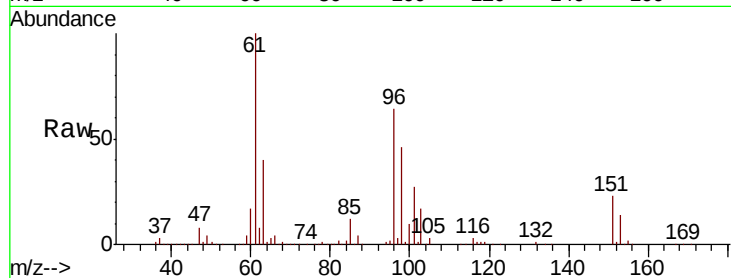
#12
 1,1-Dichloroethene
 Concen: 20.582 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Instrument :
 MSVOA_U
 ClientSampled :
 BFE40

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.3	127.1	236.1
63	62.6	86.0	159.8

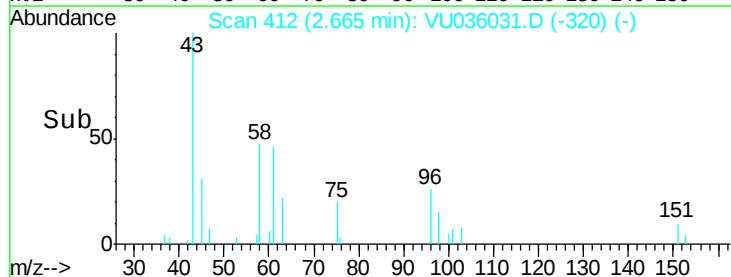
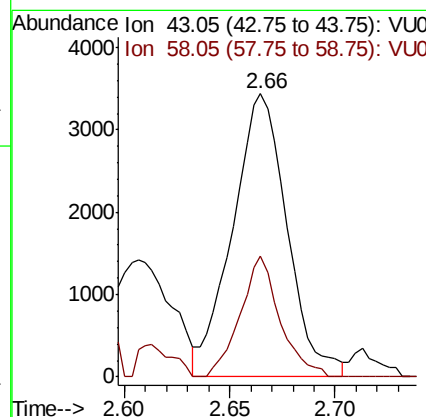
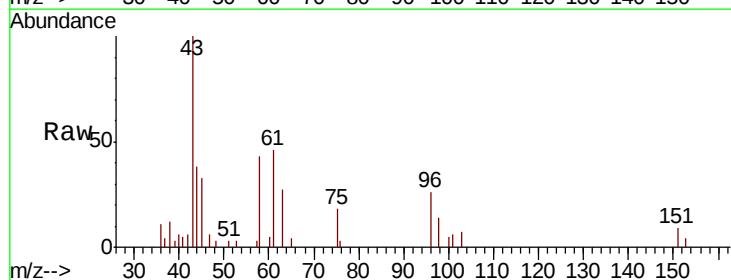
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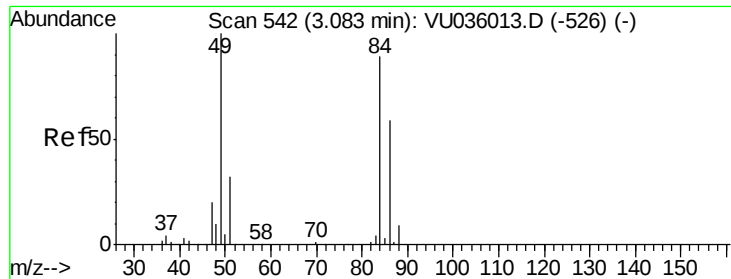
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#13
 Acetone
 Concen: 1.179 ug/L
 RT: 2.66 min Scan# 412
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.1	0.0	68.6





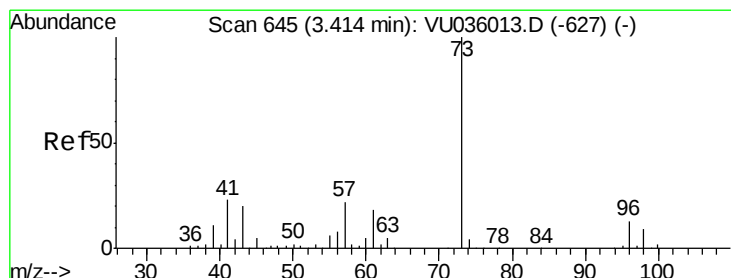
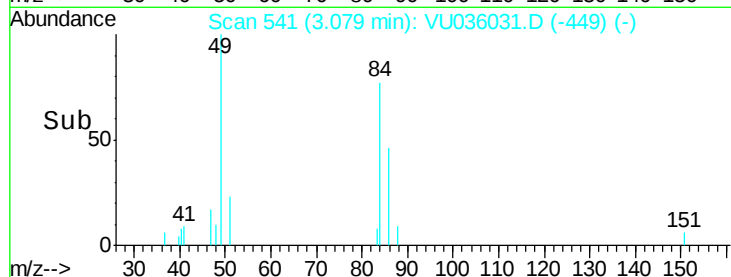
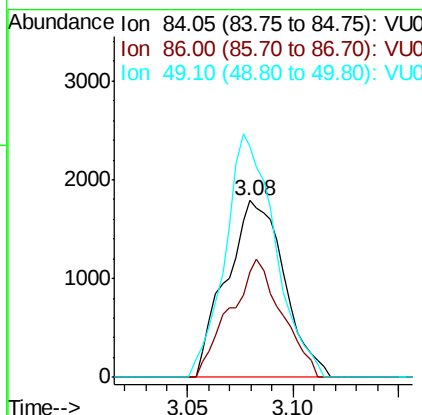
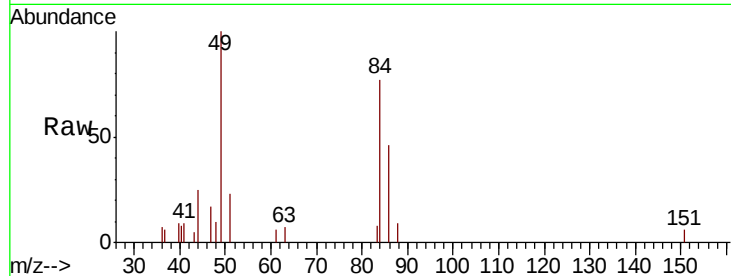
#16
Methvlene chloride
Concen: 0.107 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036031.D
Acq: 06 Dec 2019 18:34

Instrument :
MSVOA_U
ClientSampled :
BFE40

Tot Ion: 84 Resp: 3414
Ion Ratio Lower Upper
84 100
86 59.8 44.7 82.9
49 130.4 86.2 160.2

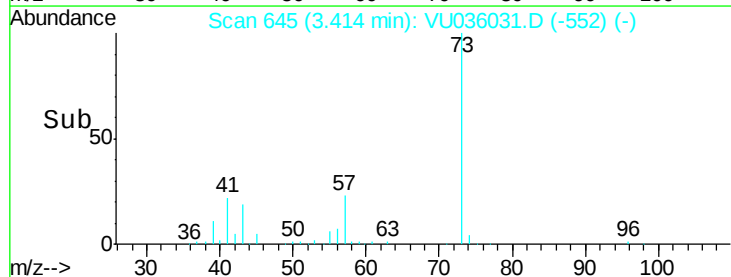
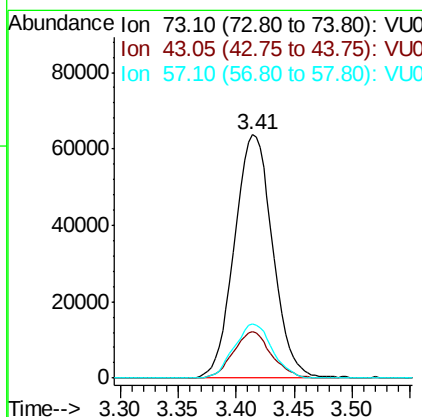
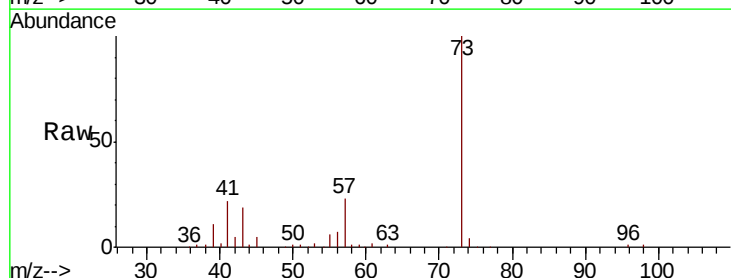
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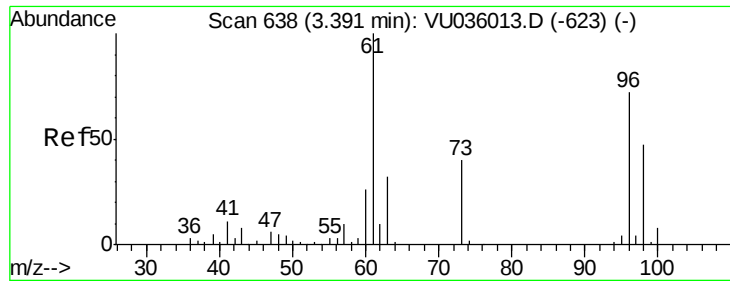
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#17
Methyl tert-butyl Ether
Concen: 3.029 ug/L
RT: 3.41 min Scan# 645
Delta R.T. -0.00 min
Lab File: VU036031.D
Acq: 06 Dec 2019 18:34

Tgt Ion: 73 Resp: 146068
Ion Ratio Lower Upper
73 100
43 19.3 15.9 23.9
57 22.3 18.8 28.2





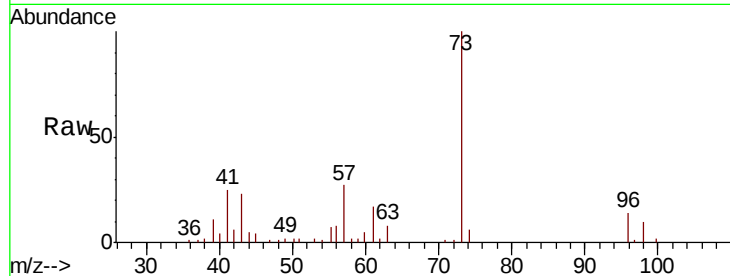
#18
trans-1,2-Dichloroethene
Concen: 0.234 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU036031.D
Acq: 06 Dec 2019 18:34

Instrument :
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ClientSampleId :
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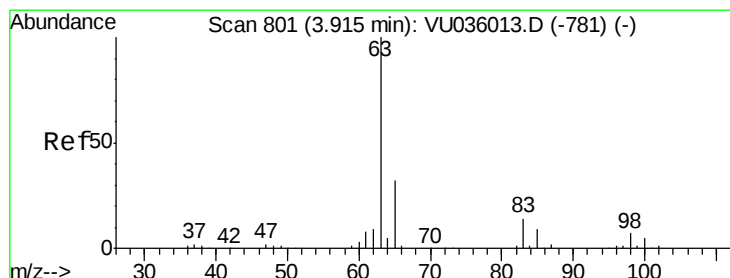
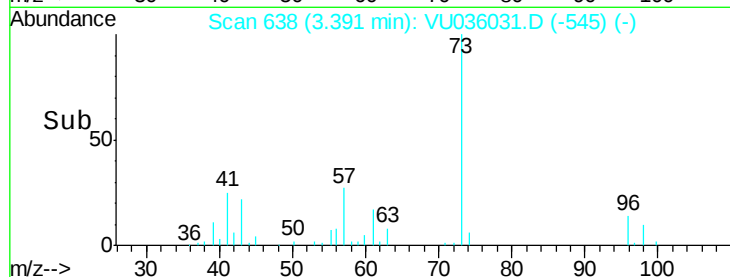
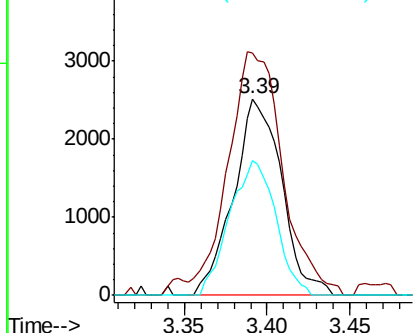
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.0	101.2	187.8
98	68.7	45.0	83.6

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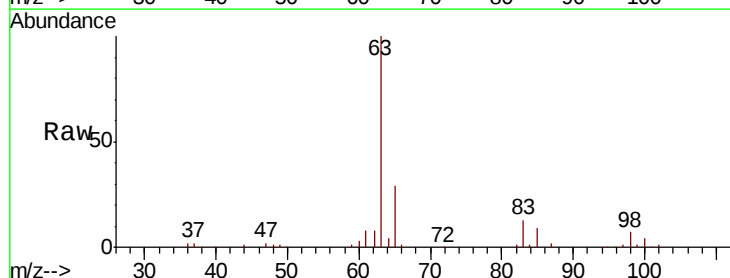


Abundance Ion 96.00 (95.70 to 96.70): VU036031.D (-623) (-)
Ion 61.05 (60.75 to 61.75): VU036031.D (-623) (-)
Ion 97.95 (97.65 to 98.65): VU036031.D (-623) (-)

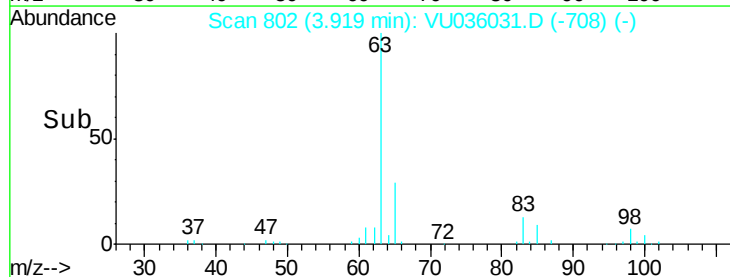
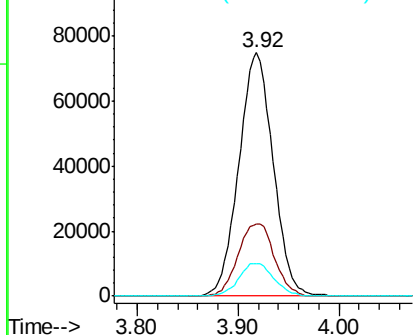


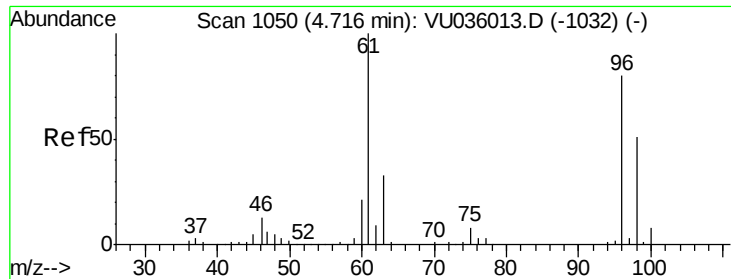
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1,1-Dichloroethane
Concen: 4.139 ug/L
RT: 3.92 min Scan# 802
Delta R.T. 0.00 min
Lab File: VU036031.D
Acq: 06 Dec 2019 18:34

Tgt Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.4	41.6
83	13.4	9.8	18.2



Abundance Ion 63.10 (62.80 to 63.80): VU036031.D (-781) (-)
Ion 65.10 (64.80 to 65.80): VU036031.D (-781) (-)
Ion 83.05 (82.75 to 83.75): VU036031.D (-781) (-)





#22

cis-1,2-Dichloroethene

Concen: 37.096 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

Tot Ion: 96 Resp: 854239

Ion Ratio Lower Upper

96 100

61 124.0 95.7 177.7

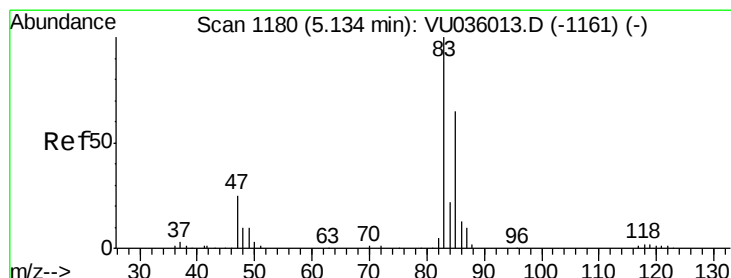
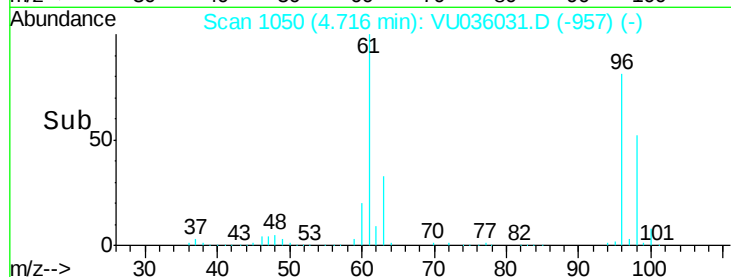
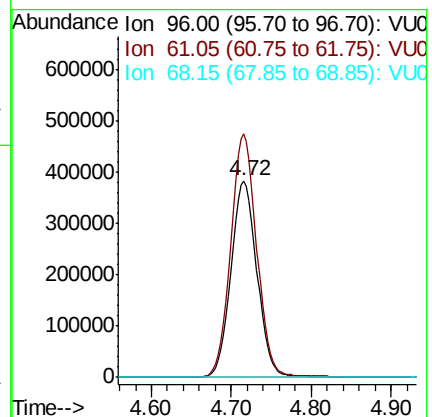
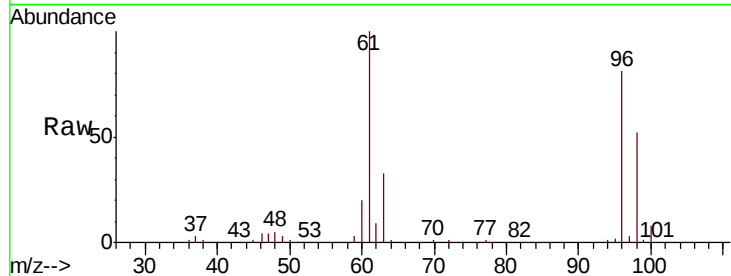
68 0.0 0.0 0.0

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#25

Chloroform

Concen: 0.947 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036031.D

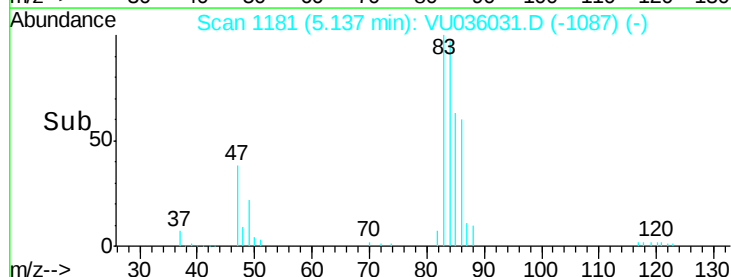
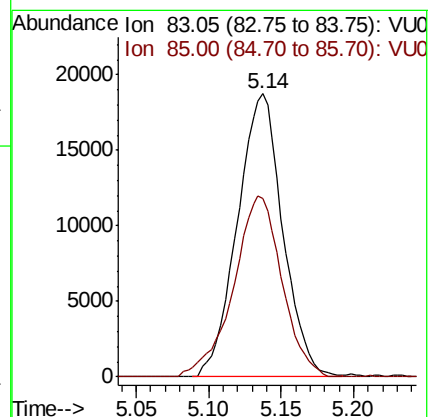
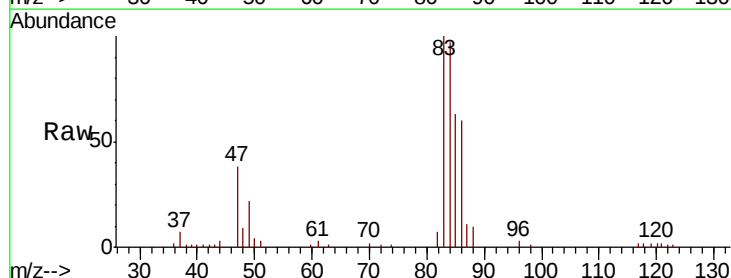
Acq: 06 Dec 2019 18:34

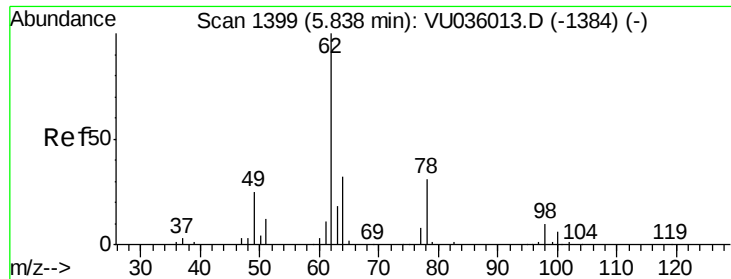
Tgt Ion: 83 Resp: 40696

Ion Ratio Lower Upper

83 100

85 63.1 45.4 84.2





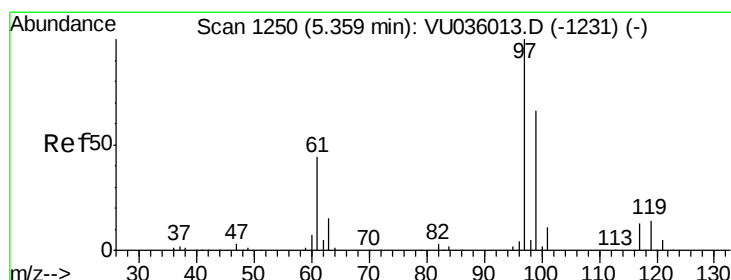
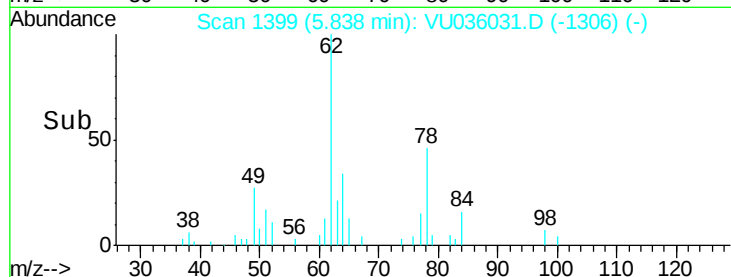
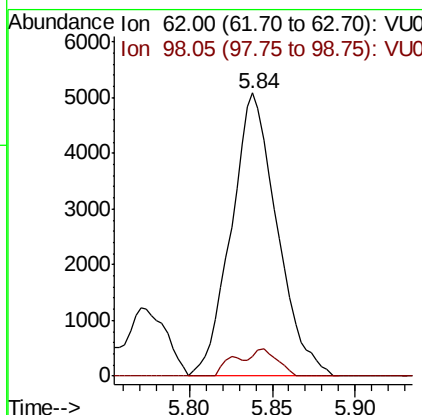
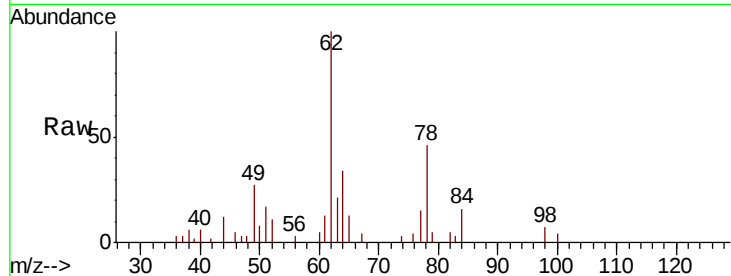
#27
 1,2-Dichloroethane
 Concen: 0.355 ug/L
 RT: 5.84 min Scan# 1399
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

Tot Ion: 62 Resp: 9754
 Ion Ratio Lower Upper
 62 100
 98 7.0 7.6 11.4#

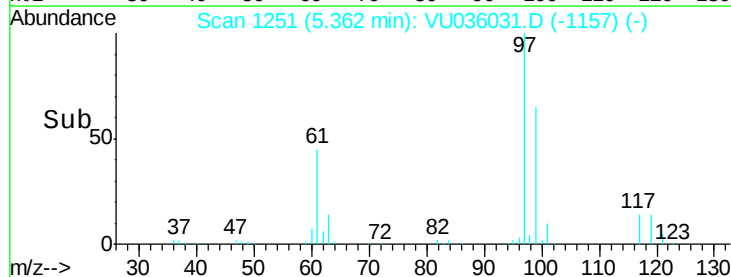
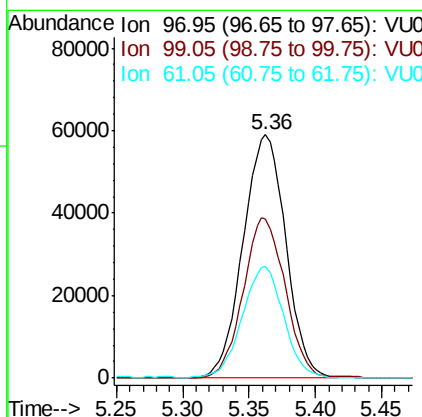
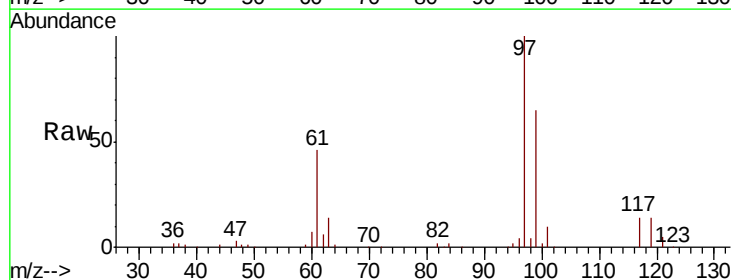
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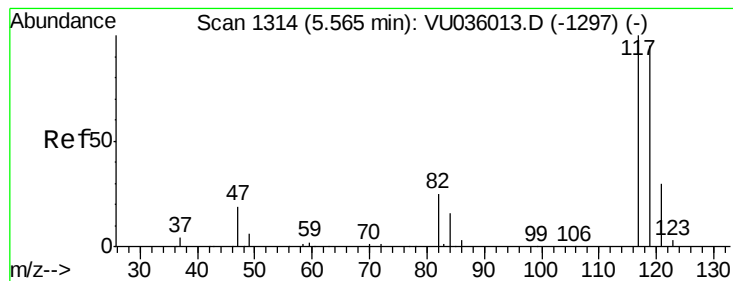
apatel
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#29
 1,1,1-Trichloroethane
 Concen: 3.586 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion: 97 Resp: 132540
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.8 77.8
 61 44.6 37.6 56.4





#31

Carbon tetrachloride

Concen: 0.115 ug/L m

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

Tot Ion:117 Resp: 3762

Ion Ratio Lower Upper

117 100

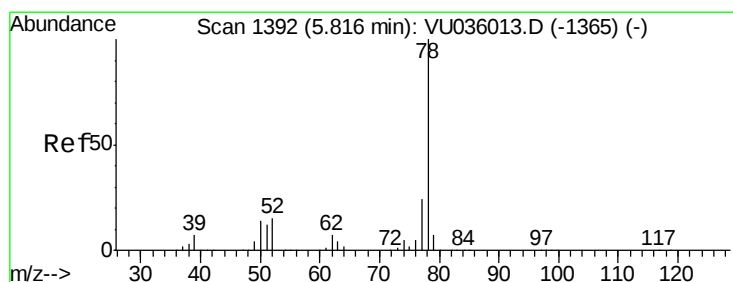
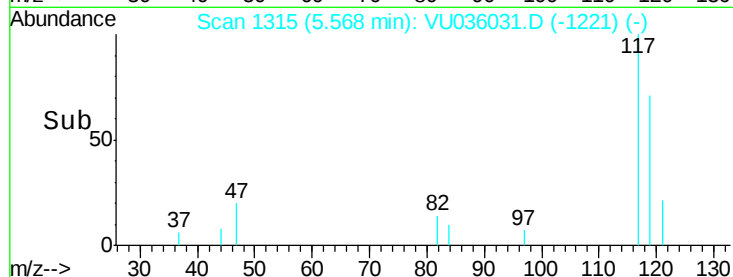
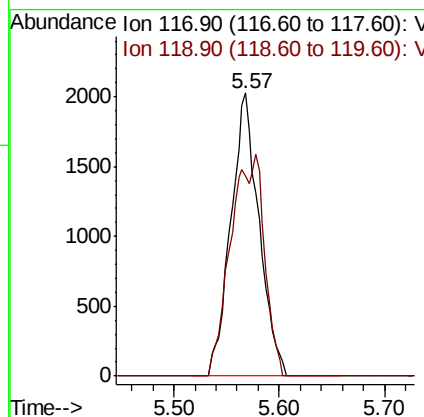
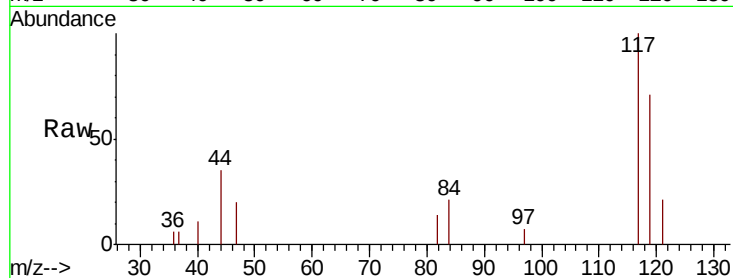
119 477.5 76.9 115.3#

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#33

Benzene

Concen: 0.184 ug/L

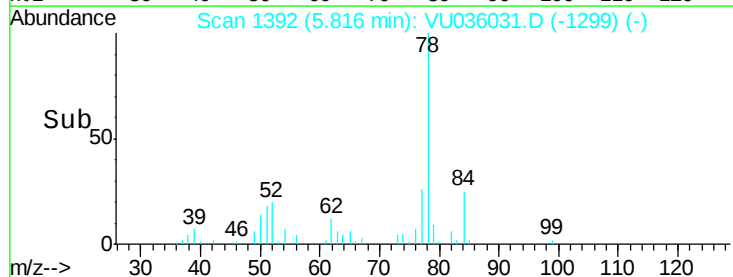
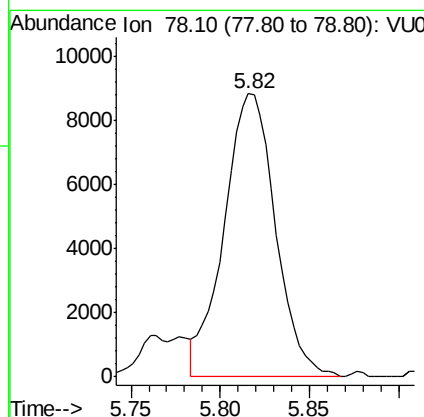
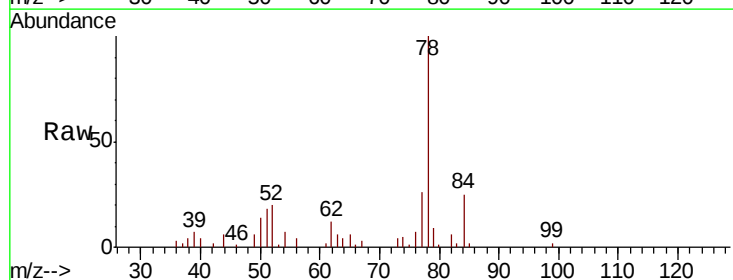
RT: 5.82 min Scan# 1392

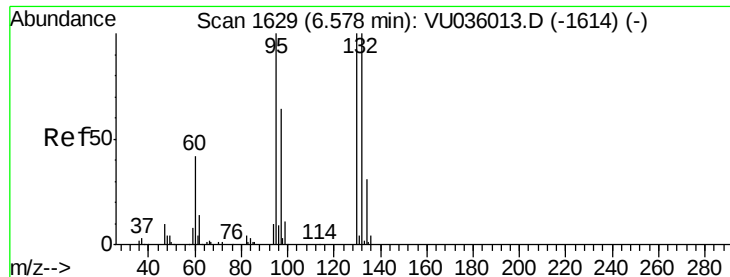
Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Tgt Ion: 78 Resp: 17720





#34

Trichloroethene

Concen: 239.105 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampled :

BFE40

Tot Ion: 95 Resp: 5811247

Ion Ratio Lower Upper

95 100

97 63.5 46.3 85.9

132 100.8 65.7 122.1

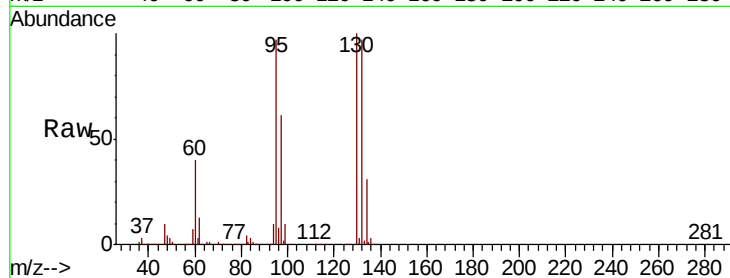
130 103.5 69.2 128.6

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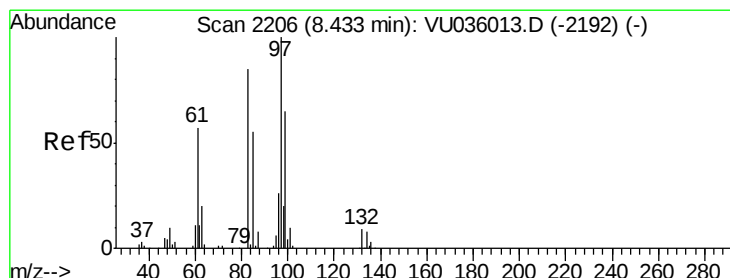
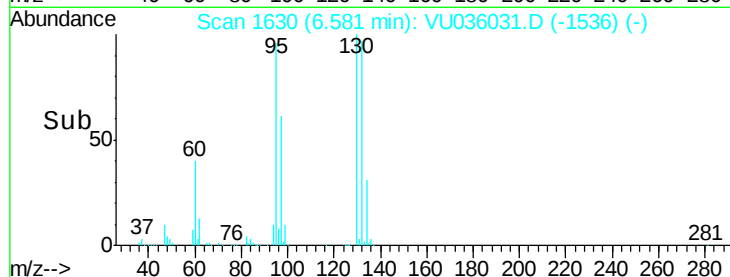
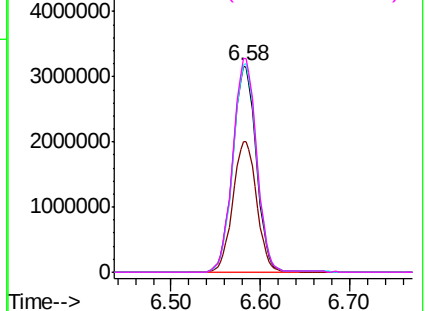
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#45

1,1,2-Trichloroethane

Concen: 0.780 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Tgt Ion: 97 Resp: 13818

Ion Ratio Lower Upper

97 100

99 62.0 45.0 83.6

83 82.6 62.1 115.3

85 56.0 41.4 77.0

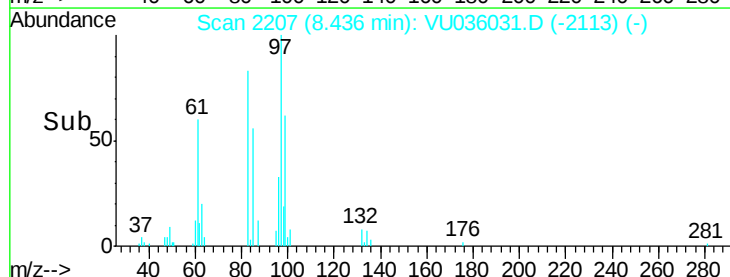
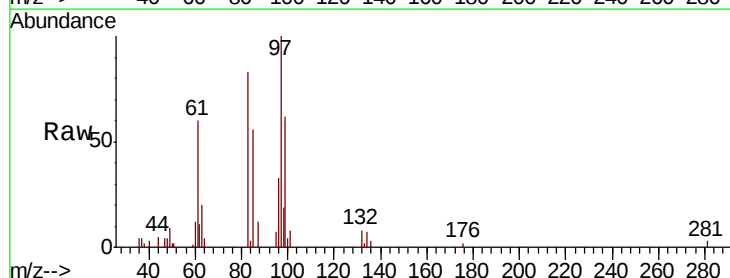
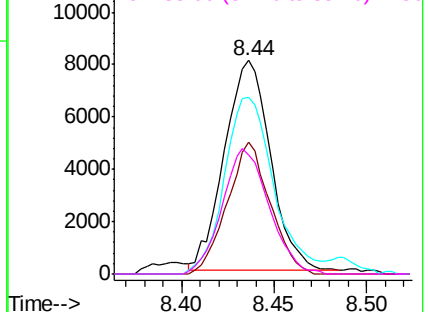
Abundance

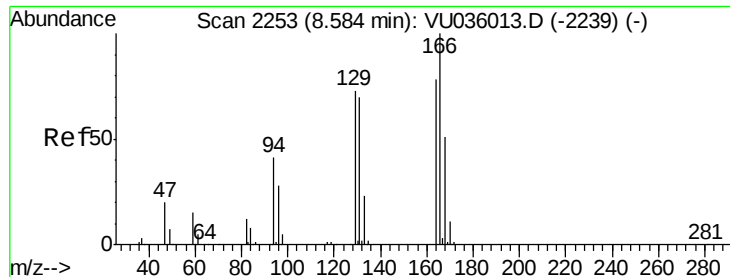
Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0





#47

Tetrachloroethene

Concen: 1147.379 ug/L m

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

Tot Ion:164 Resp:22664741

Ion Ratio Lower Upper

164 100

129 100.0 67.9 126.1

131 96.9 64.1 119.1

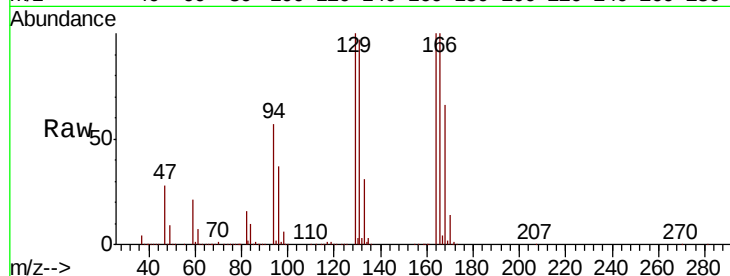
166 100.0 92.6 172.0

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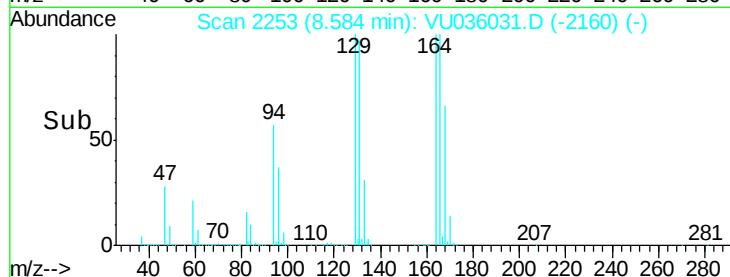
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

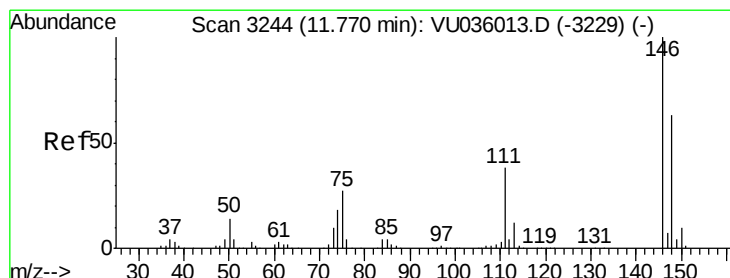
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->



Time-->



#62

1,3-Dichlorobenzene

Concen: 0.062 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

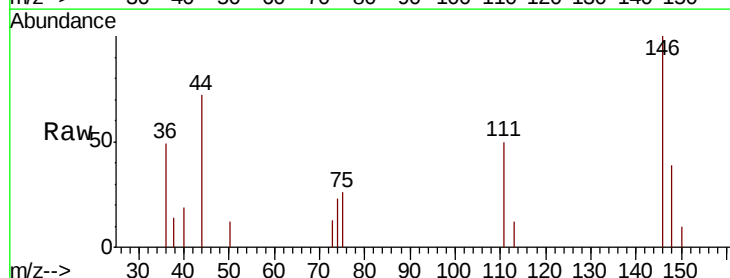
Tgt Ion:146 Resp: 1833

Ion Ratio Lower Upper

146 100

111 49.8 27.6 51.4

148 38.8 43.4 80.6#

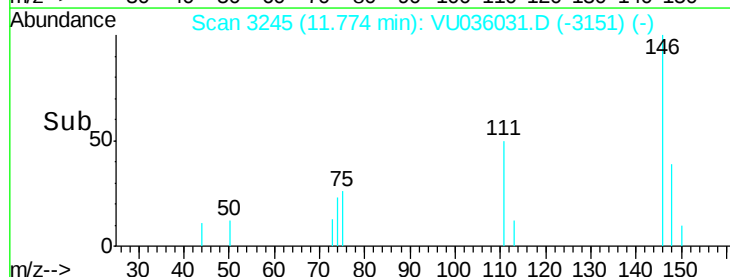


Abundance Ion 145.95 (145.65 to 146.65): V

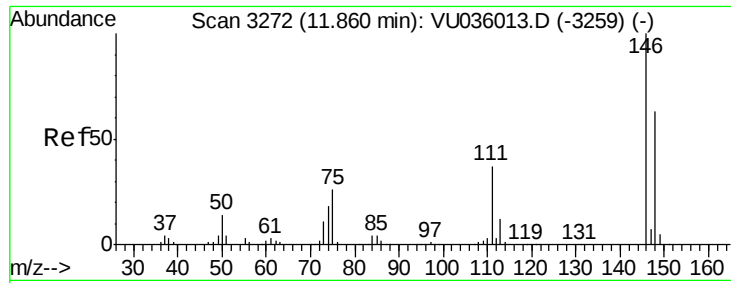
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

Time-->



Time-->



#63

1,4-Dichlorobenzene

Concen: 0.122 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

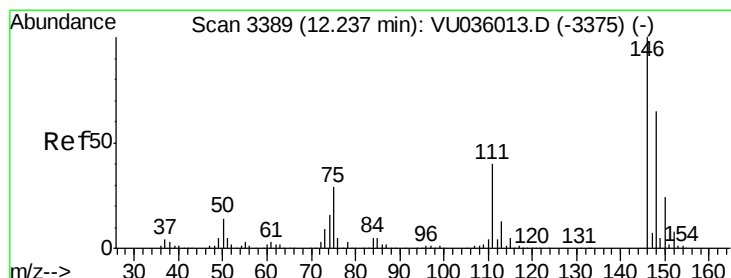
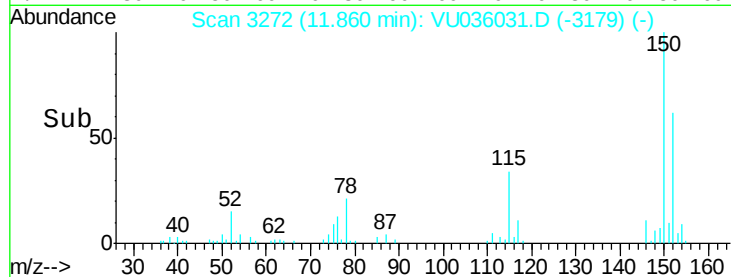
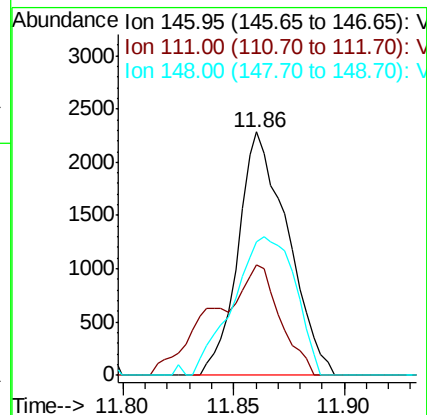
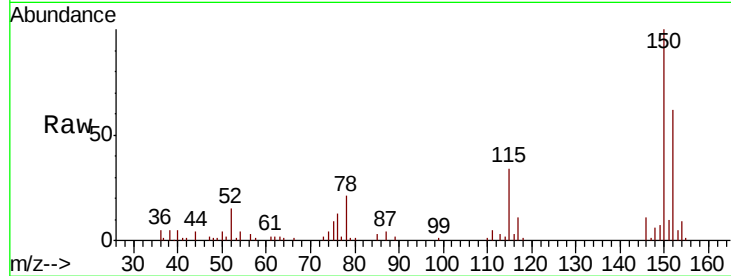
ClientSampleId :

BFE40

Tot Ion:	146	Resp:	3562
Ion Ratio	Lower	Upper	
146	100		
111	45.4	28.5	52.9
148	55.1	44.4	82.5

Manual Integrations
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#65

1,2-Dichlorobenzene

Concen: 0.103 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Tgt Ion:	146	Resp:	2893
Ion Ratio	Lower	Upper	
146	100		
111	45.4	32.6	48.8
148	77.2	50.9	76.3#

