

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030420\
 Data File : VU037058.D
 Acq On : 04 Mar 2020 23:41
 Operator : JC/MD
 Sample : L1780-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DF9

Manual Integrations
 APPROVED

sam
 3/5/2020 3:34:39 PM

Quant Time: Mar 05 03:41:07 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Mar 05 02:52:45 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	258934	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	276128	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	140328	50.00	ug/L	0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90930	41.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.64%
7) Chloroethane-d5	1.92	69	86425	48.04	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.08%
11) 1,1-Dichloroethene-d2	2.59	63	120008	32.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.92%
21) 2-Butanone-d5	4.67	46	146109	100.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.17%
24) Chloroform-d	5.10	84	180509	54.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.72%
26) 1,2-Dichloroethane-d4	5.74	65	113079	50.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.64%
32) Benzene-d6	5.77	84	357389	44.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.52%
36) 1,2-Dichloropropane-d6	6.72	67	115209	44.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.06%
41) Toluene-d8	7.93	98	319884	43.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.36%
43) trans-1,3-Dichloropropene-	8.20	79	48493	40.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.68%
47) 2-Hexanone-d5	8.66	63	107130	84.69	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.69%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	164493	45.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.23	152	134116	48.89	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	3454	1.367	ug/L	99
13) Acetone	2.65	43	6560	4.372	ug/L	96
25) Chloroform	5.13	83	417041	123.810	ug/L	100
29) Cyclohexane	5.42	56	7085	1.934	ug/L	96
33) Benzene	5.81	78	23003086m	2636.968	ug/L	
34) Trichloroethene	6.57	95	3248	1.515	ug/L	99
35) Methylcyclohexane	6.79	83	4709	1.267	ug/L #	76
38) Bromodichloromethane	7.13	83	2893	1.043	ug/L #	89
46) Tetrachloroethene	8.57	164	1585	1.122	ug/L	93
49) Dibromochloromethane	8.83	129	3635	1.834	ug/L	86
51) Chlorobenzene	9.47	112	23776041m	4317.656	ug/L	
61) Bromoform	10.31	173	7515	4.737	ug/L #	99
62) 1,3-Dichlorobenzene	11.77	146	5893077	1294.547	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	23553431m	5236.966	ug/L	
65) 1,2-Dichlorobenzene	12.24	146	24205420m	5325.423	ug/L	
68) 1,2,4-trichlorobenzene	13.88	180	7946566	3670.730	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	2364478	1092.978	ug/L	99

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

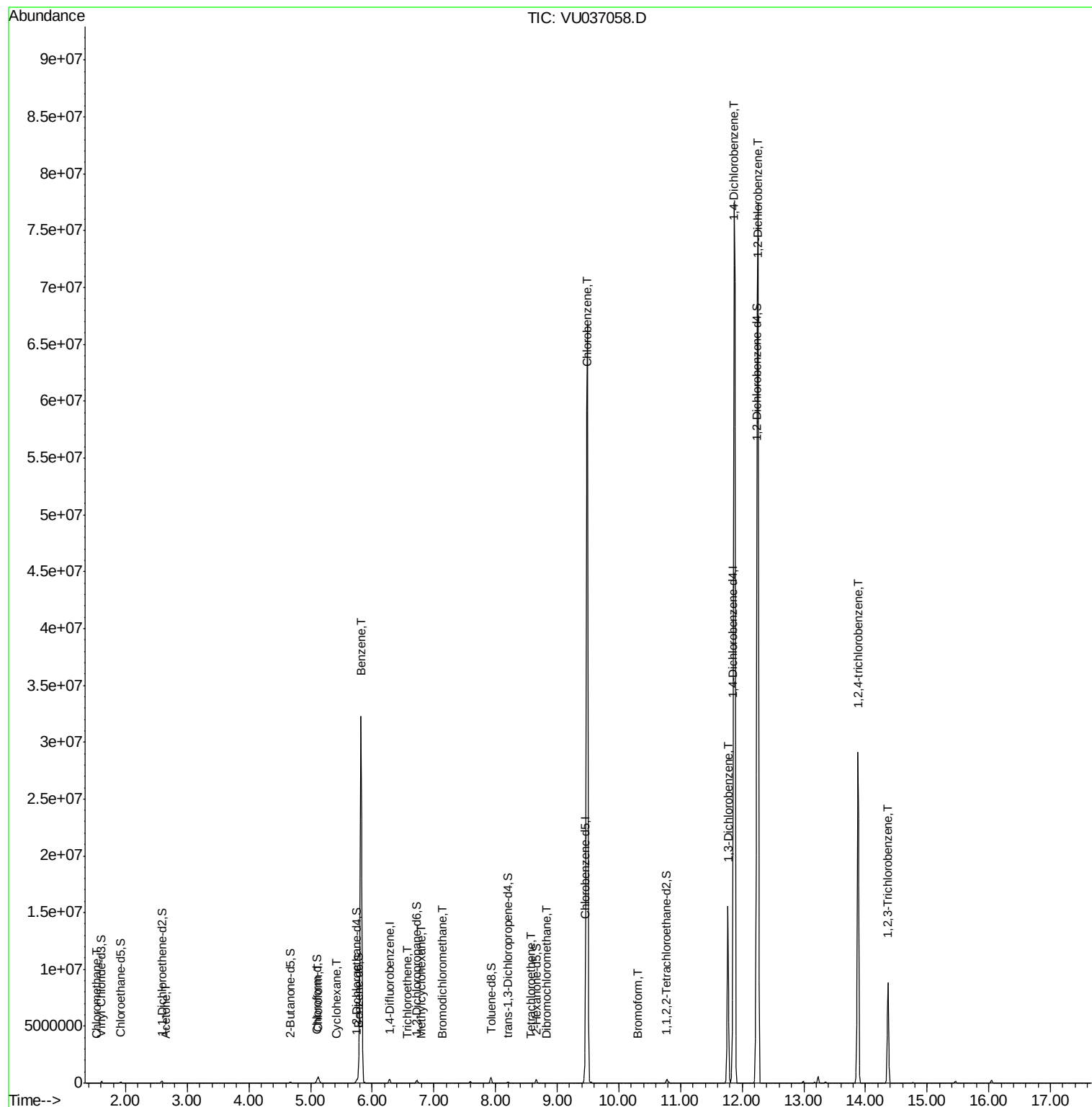
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030420\
Data File : VU037058.D
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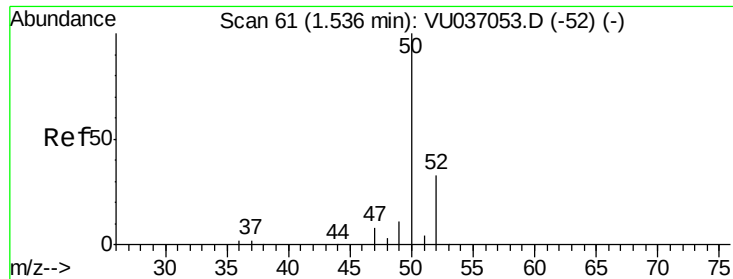
Instrument :
MSVOA_U
ClientSampleId :
C0DF9

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Quant Time: Mar 05 03:41:07 2020
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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.367 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampled :

C0DF9

Tot Ion: 50 Resp: 3454

Ion Ratio Lower Upper

50 100

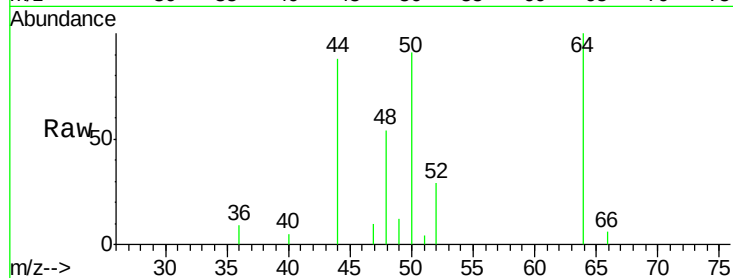
52 32.2 23.0 42.6

Manual Integrations

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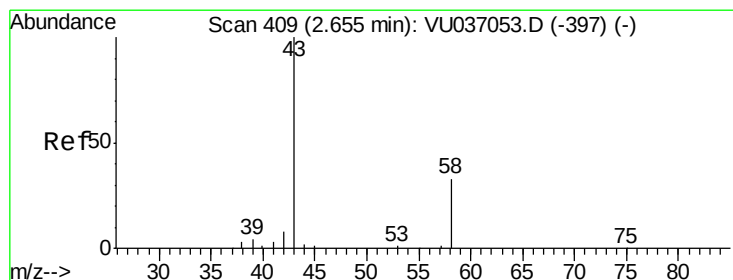
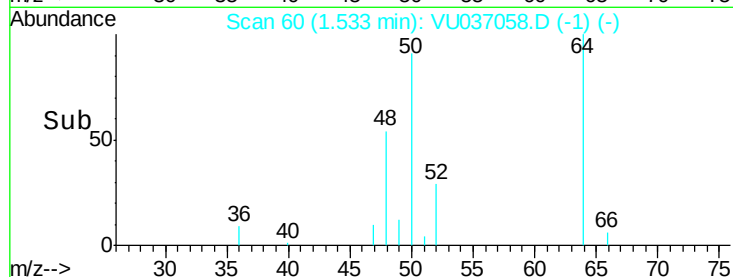
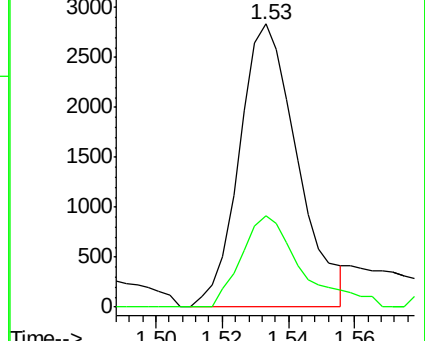
sam

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Abundance Ion 50.00 (49.70 to 50.70): VU037058.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037058.D (-52) (-)



#13

Acetone

Concen: 4.372 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037058.D

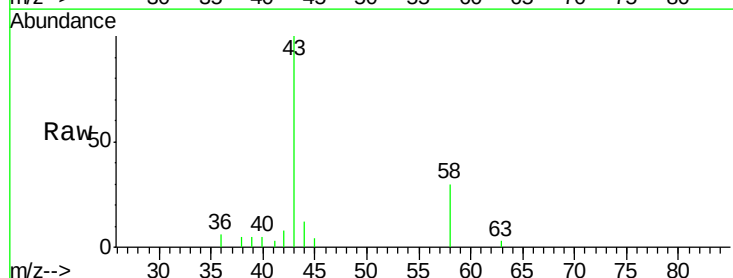
Acq: 04 Mar 2020 23:41

Tgt Ion: 43 Resp: 6560

Ion Ratio Lower Upper

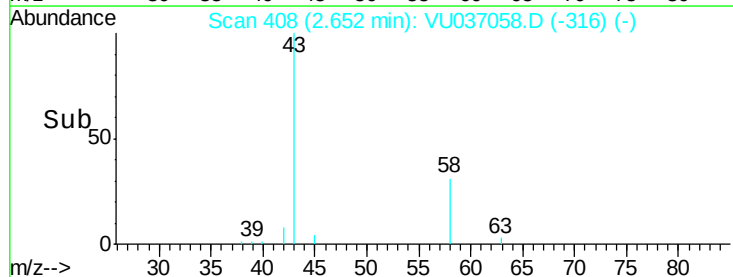
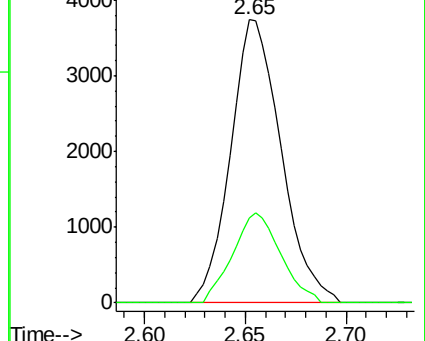
43 100

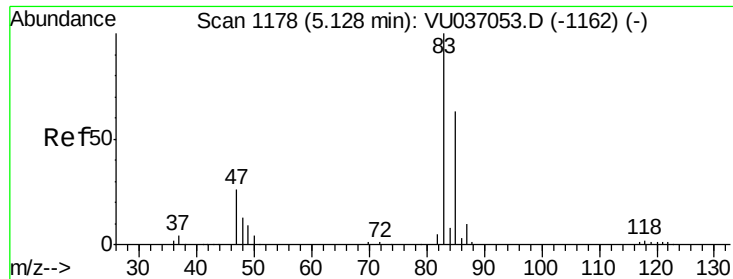
58 30.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU037058.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037058.D (-397) (-)





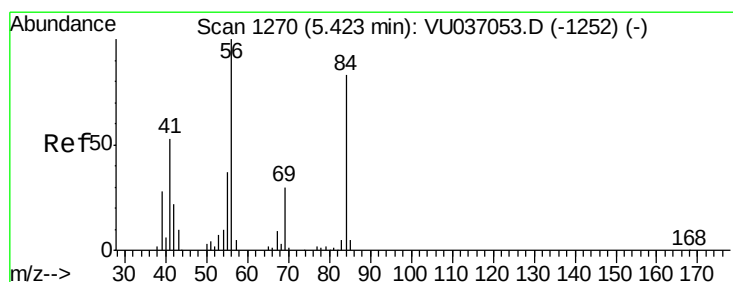
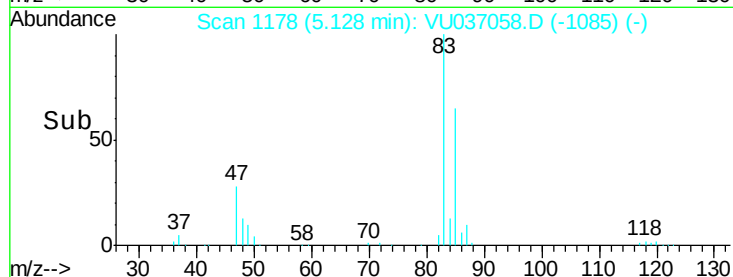
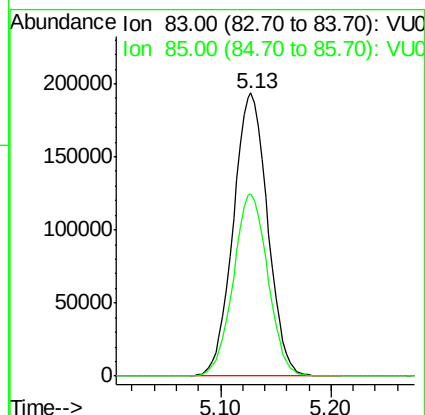
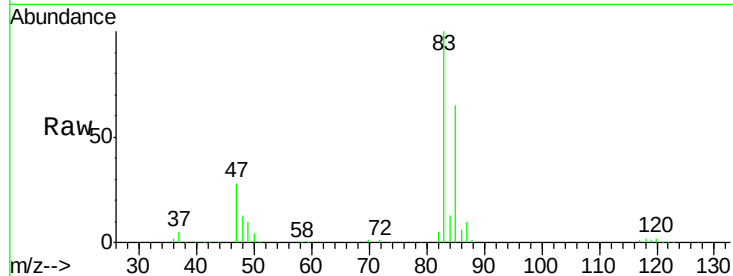
#25
Chloroform
Concen: 123.810 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Instrument :
MSVOA_U
ClientSampled :
C0DF9

Tot Ion	83	Resp	417041
Ion Ratio	100	Lower	Upper
85	64.6	45.1	83.9

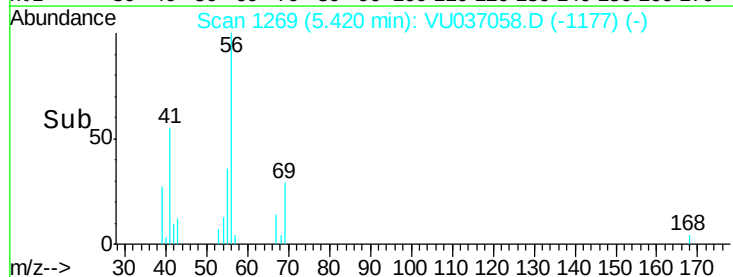
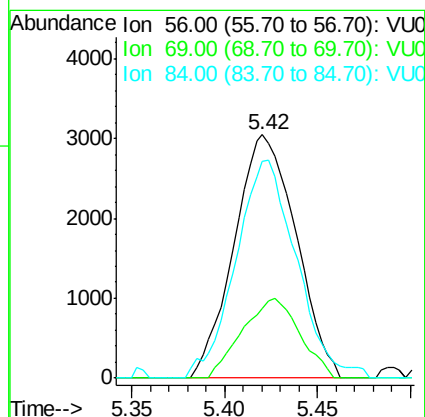
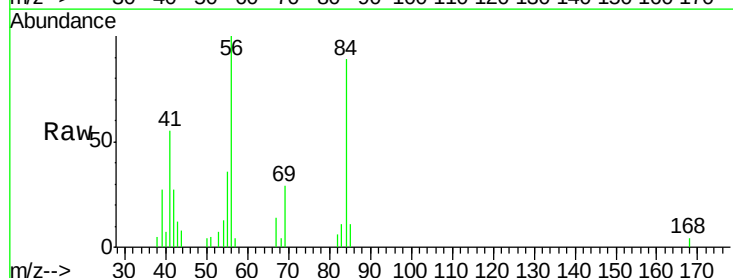
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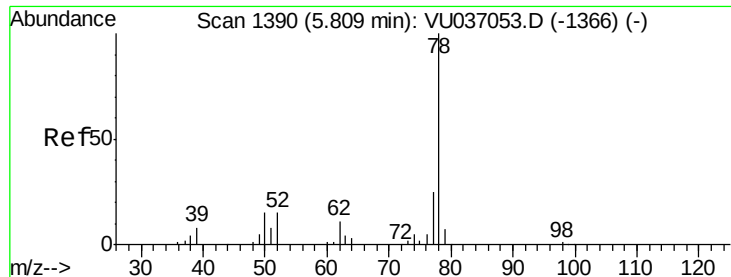
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#29
Cyclohexane
Concen: 1.934 ug/L
RT: 5.42 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Tgt Ion	56	Resp	7085
Ion Ratio	100	Lower	Upper
69	30.4	24.6	37.0
84	87.9	67.0	100.4





#33

Benzene

Concen: 2636.968 ug/L m

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU037058.D

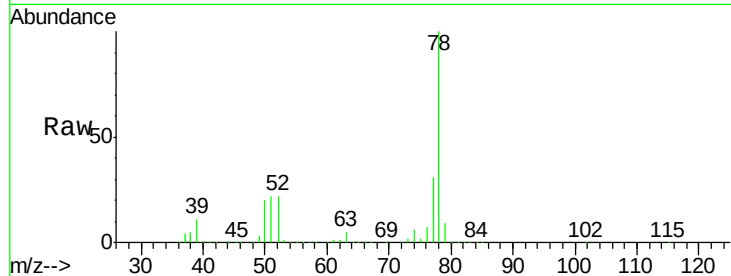
Acq: 04 Mar 2020 23:41

Instrument :
MSVOA_U
ClientSampleId :
C0DF9

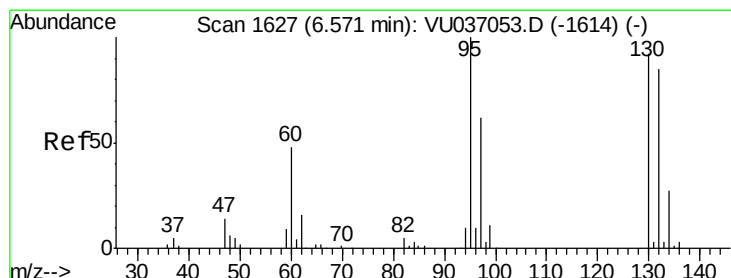
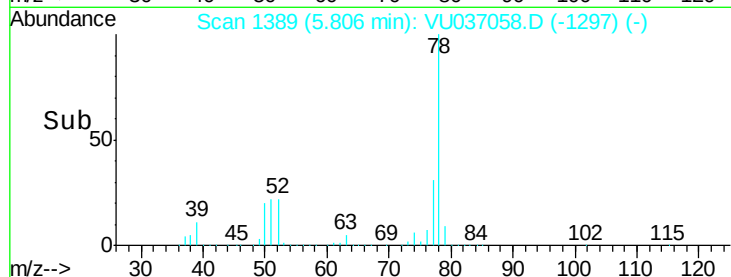
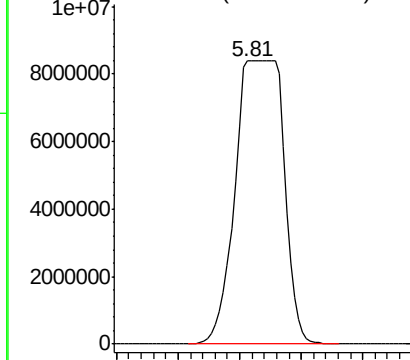
Tgt Ion: 78 Resp:23003086

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Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.515 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Tgt Ion: 95 Resp: 3248

Ion	Ratio	Lower	Upper
95	100		
97	62.7	44.1	81.9
132	88.3	60.6	112.6
130	90.8	64.9	120.5

95 100

97 62.7 44.1 81.9

132 88.3 60.6 112.6

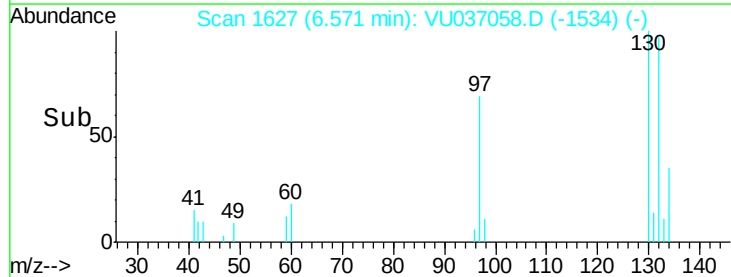
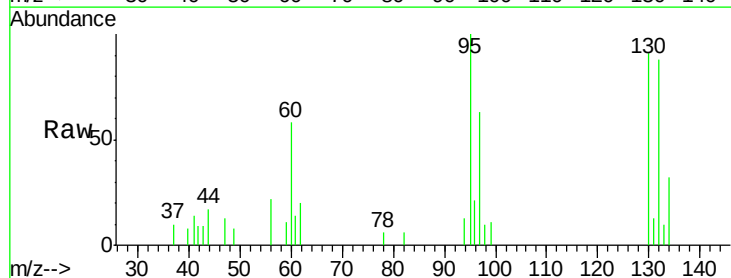
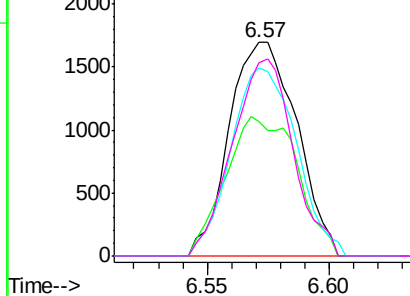
130 90.8 64.9 120.5

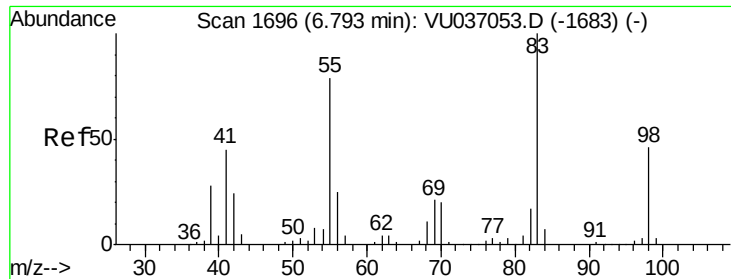
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





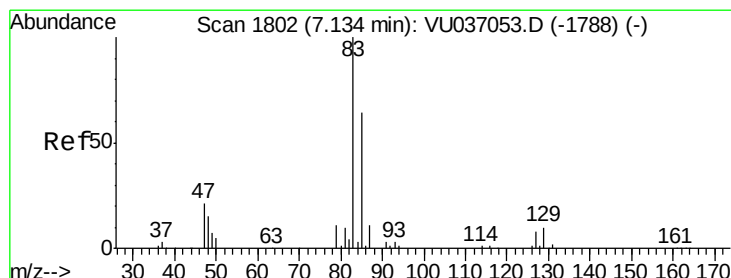
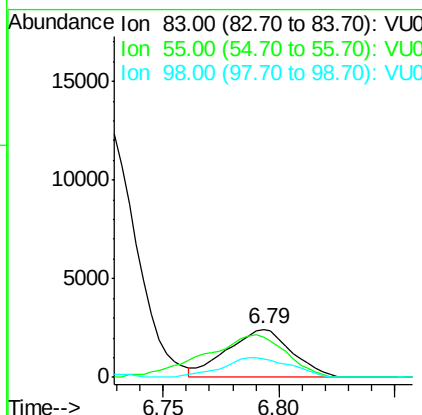
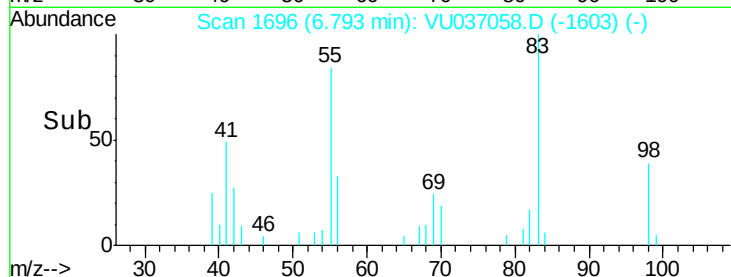
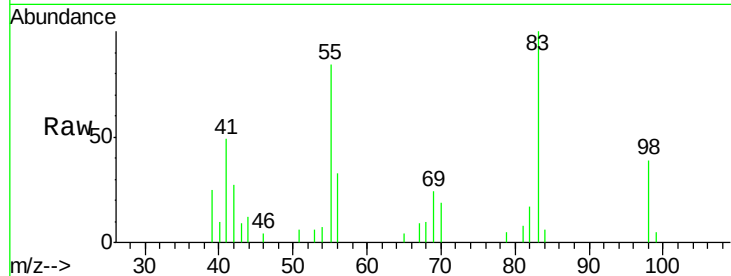
#35
Methylcyclohexane
Concen: 1.267 ug/L
RT: 6.79 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Instrument :
MSVOA_U
ClientSampled :
C0DF9

Tot Ion	Ratio	Lower	Upper
83	100		
55	110.9	62.6	93.8#
98	43.7	35.1	52.7

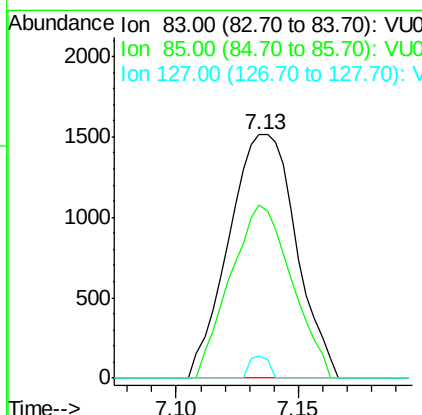
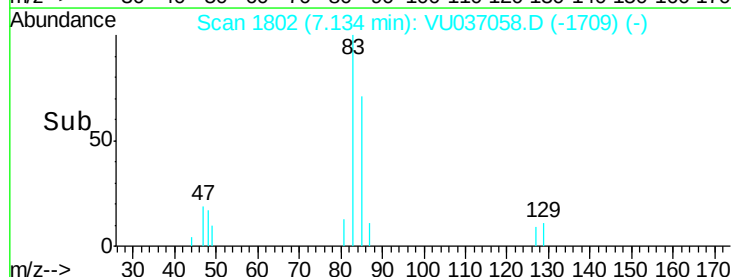
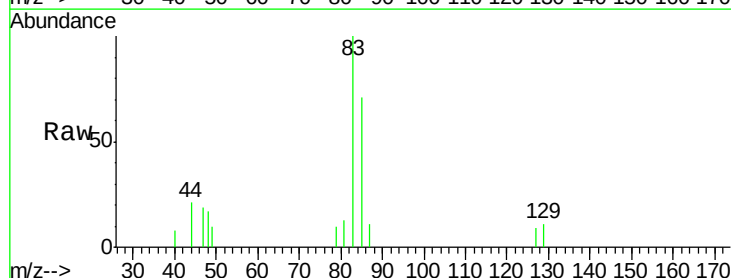
Manual Integrations
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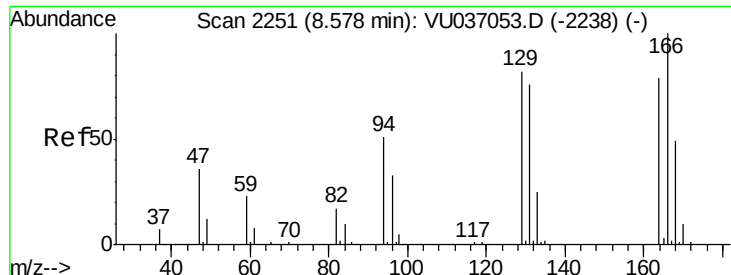
sam
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#38
Bromodichloromethane
Concen: 1.043 ug/L
RT: 7.13 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	71.3	43.6	81.0
127	9.2	6.0	9.0#





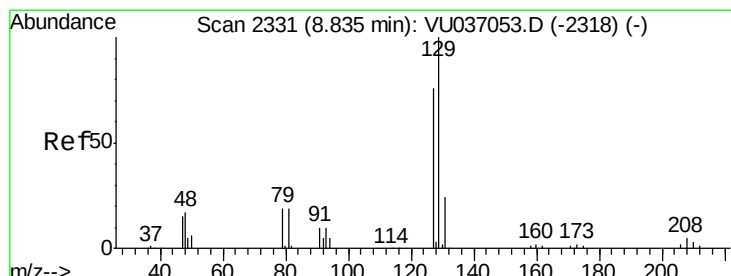
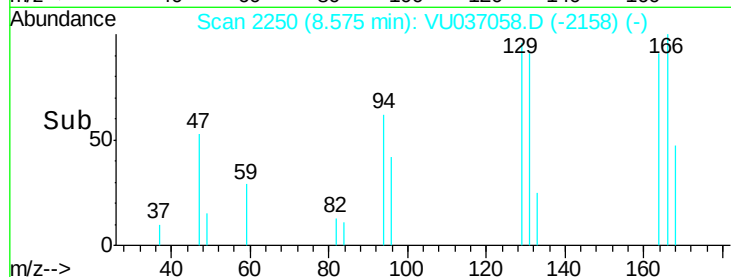
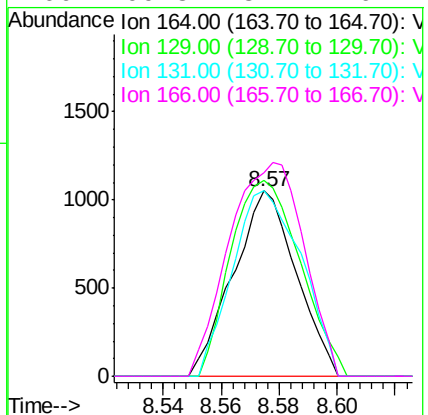
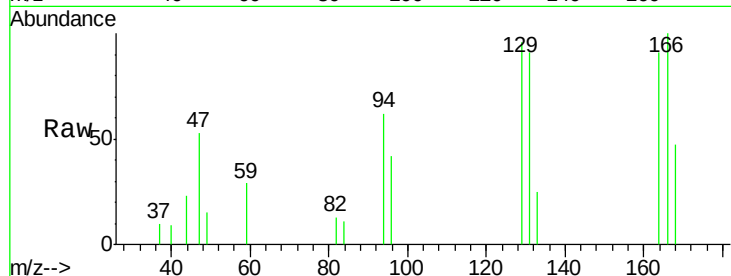
#46
Tetrachloroethene
Concen: 1.122 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Instrument :
MSVOA_U
ClientSampled :
C0DF9

Tot Ion	Ratio	Lower	Upper
164	100		
129	105.8	72.0	133.8
131	99.9	67.9	126.1
166	109.8	87.1	161.7

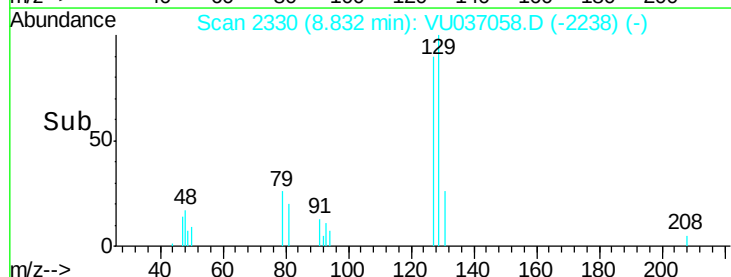
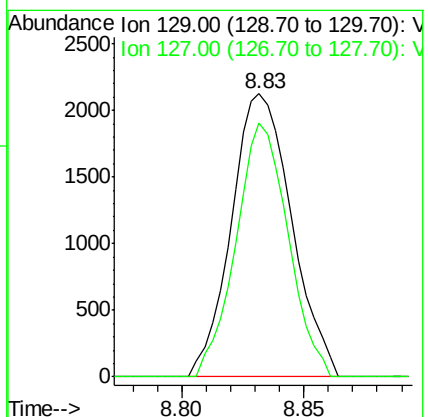
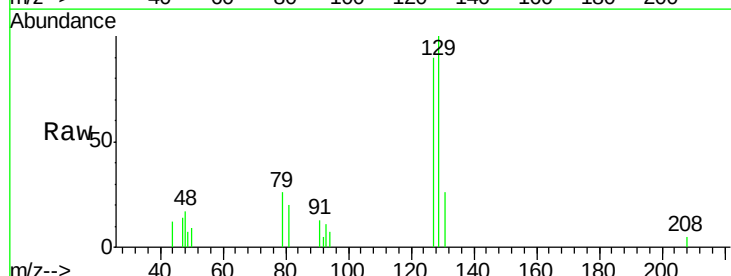
Manual Integrations
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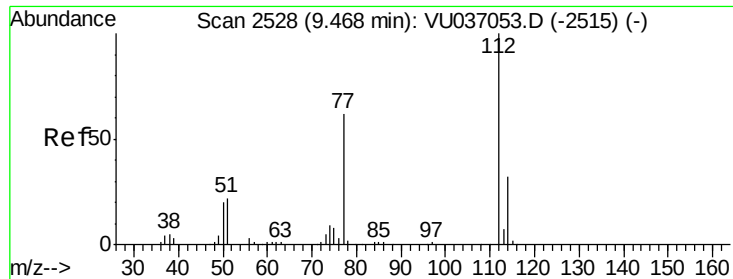
sam
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#49
Dibromochloromethane
Concen: 1.834 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	89.8	54.3	100.8





#51

Chlorobenzene

Concen: 4317.656 ug/L m

RT: 9.47 min Scan# 2529

Delta R.T. 0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampled :

C0DF9

Tot Ion:112 Resp:23776041

Ion Ratio Lower Upper

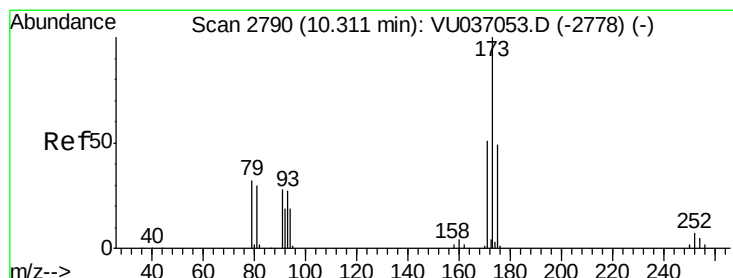
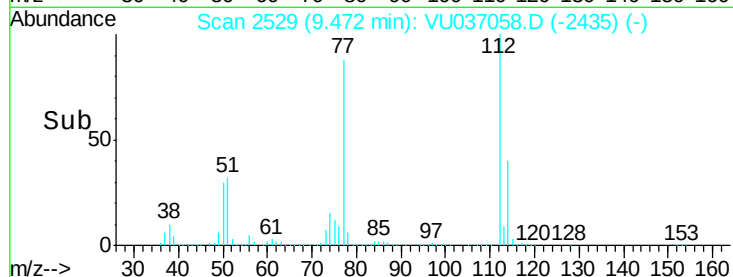
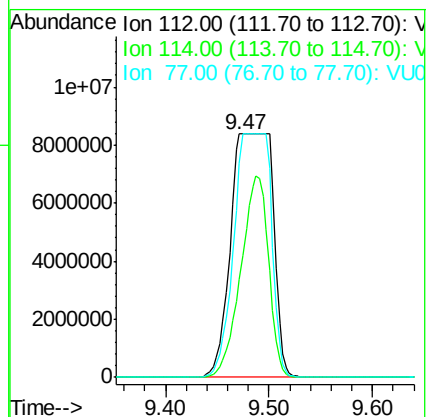
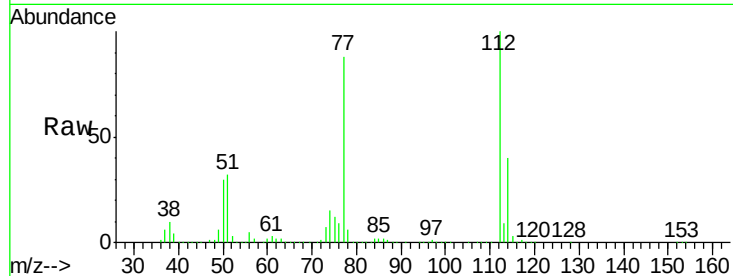
112 100

114 40.2 22.3 41.5

77 88.2 50.1 75.1#

Manual Integrations
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sam
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#61

Bromoform

Concen: 4.737 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

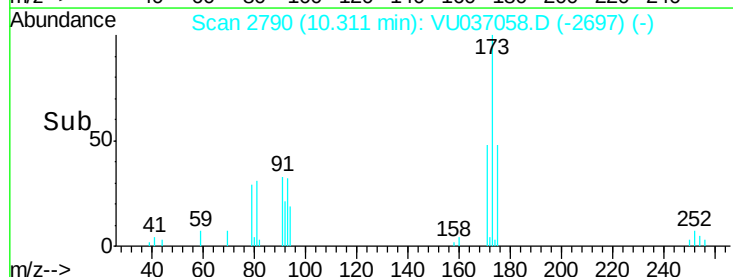
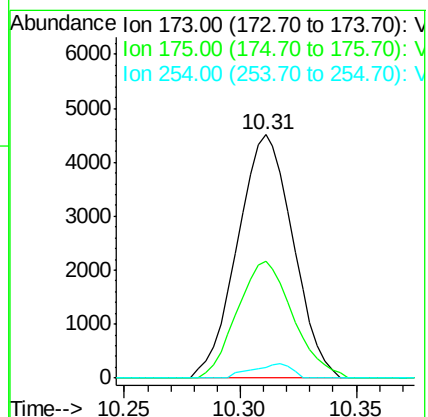
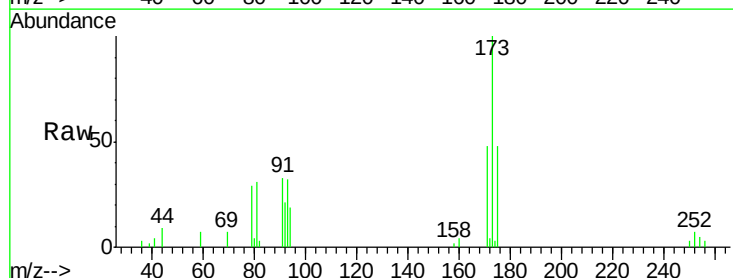
Tgt Ion:173 Resp: 7515

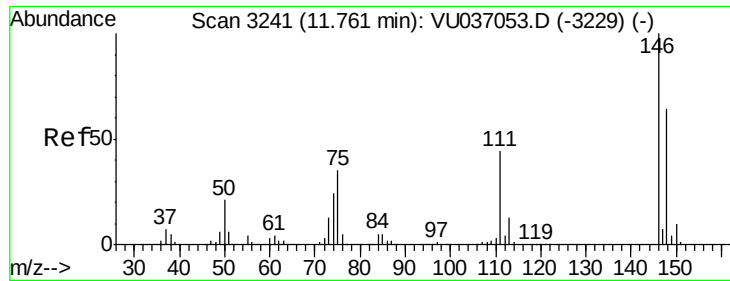
Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.6

254 4.2 4.6 6.8#





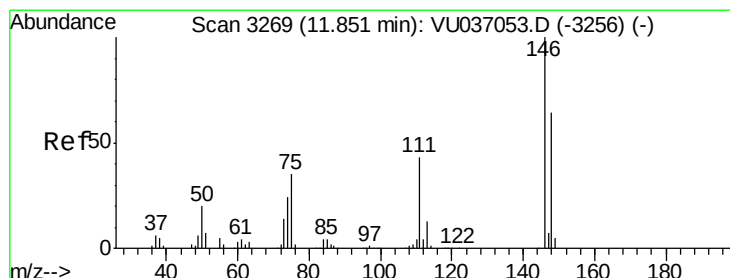
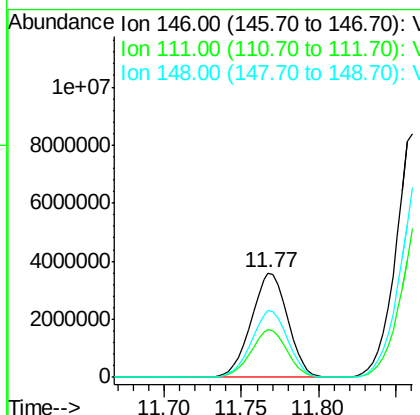
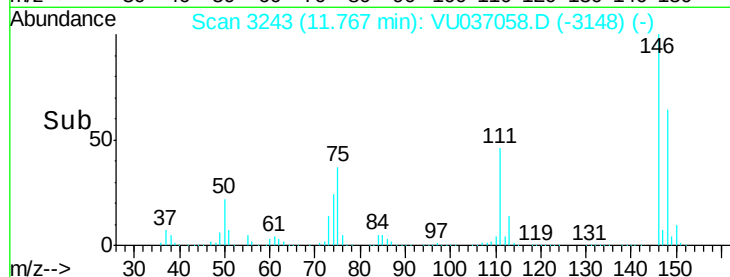
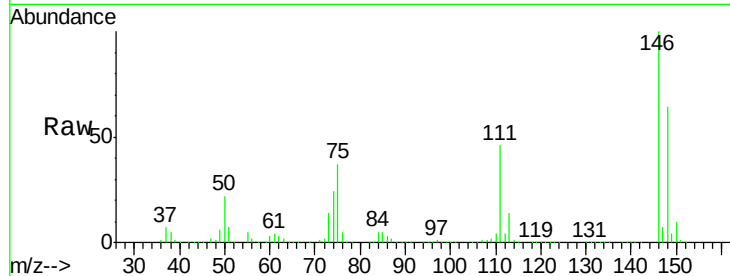
#62
 1,3-Dichlorobenzene
 Concen: 1294.547 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.01 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DF9

Tot Ion:146 Resp: 5893077
 Ion Ratio Lower Upper
 146 100
 111 45.7 30.7 56.9
 148 64.1 44.2 82.2

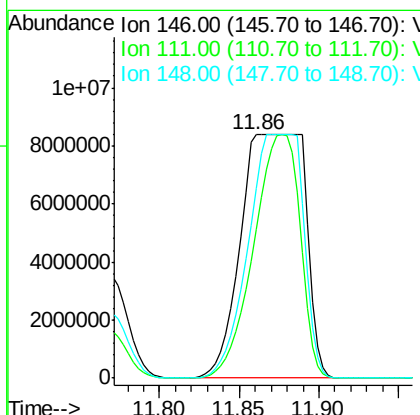
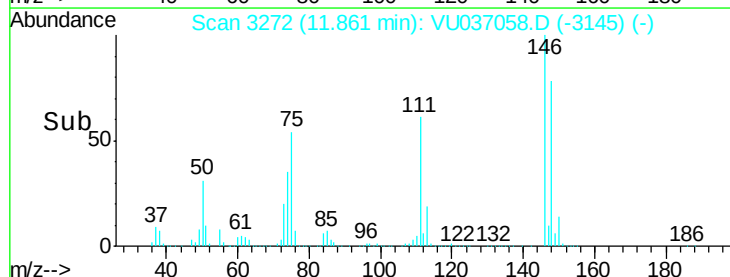
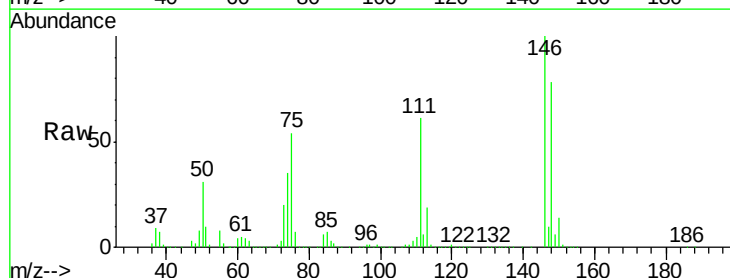
Manual Integrations
 APPROVED

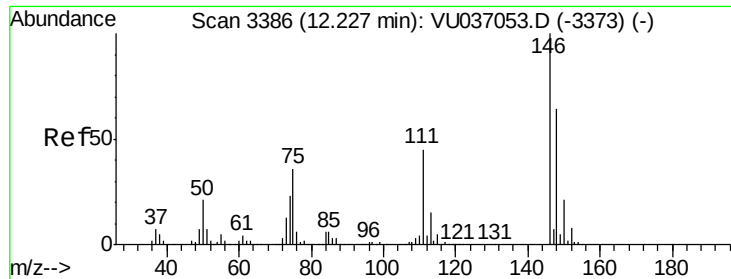
sam
 3/5/2020 3:34:39 PM



#63
 1,4-Dichlorobenzene
 Concen: 5236.966 ug/L m
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.01 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion:146 Resp:23553431
 Ion Ratio Lower Upper
 146 100
 111 60.9 29.8 55.4#
 148 77.8 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 5325.423 ug/L m

RT: 12.24 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampled :

C0DF9

Tot Ion:146 Resp:24205420

Ion Ratio Lower Upper

146 100

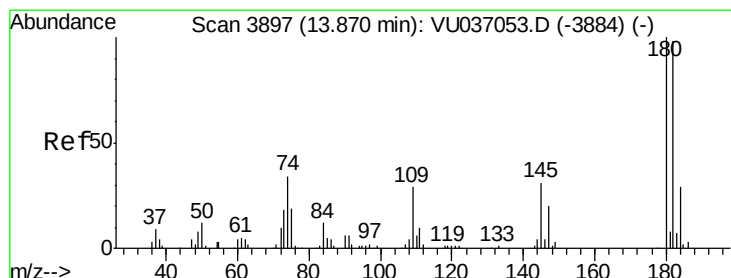
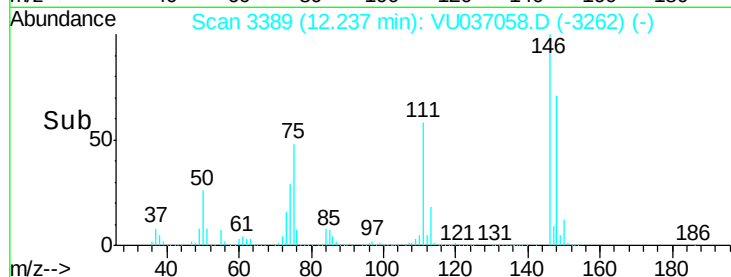
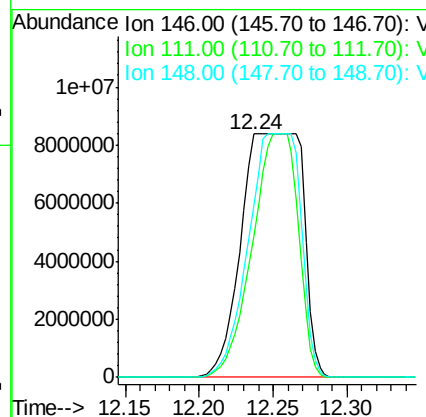
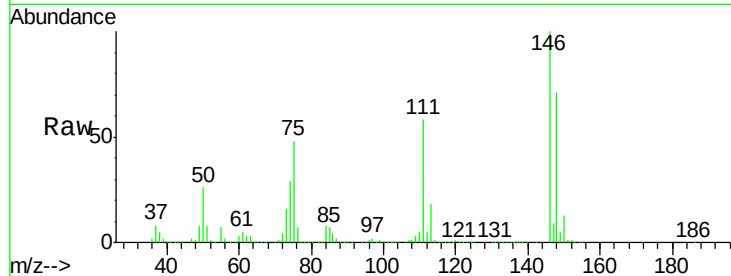
111 58.2 35.4 53.0#

148 70.8 50.5 75.7

Manual Integrations
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sam

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#68

1,2,4-trichlorobenzene

Concen: 3670.730 ug/L

RT: 13.88 min Scan# 3900

Delta R.T. 0.01 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

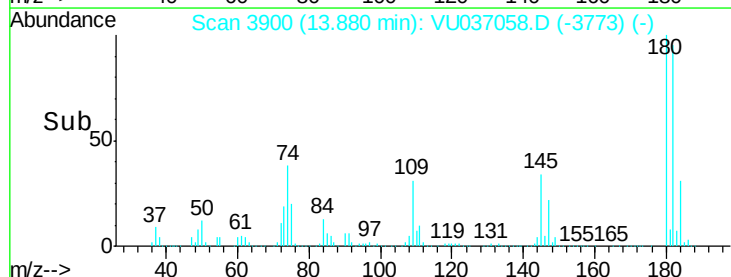
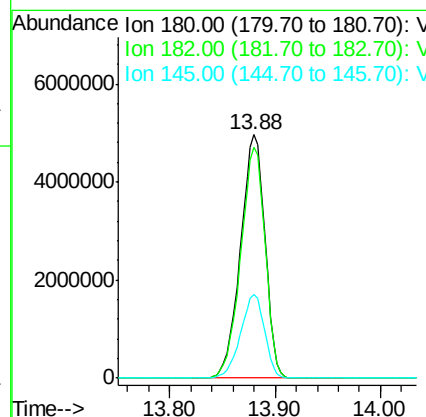
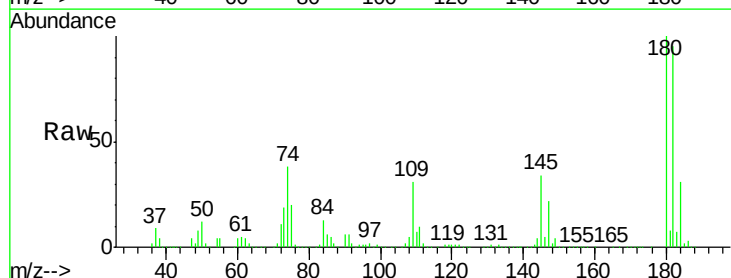
Tgt Ion:180 Resp: 7946566

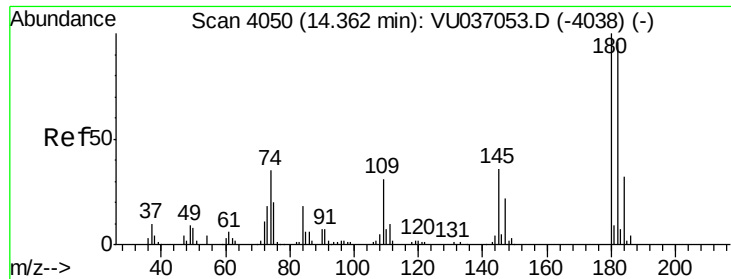
Ion Ratio Lower Upper

180 100

182 94.7 75.3 112.9

145 33.8 26.2 39.4





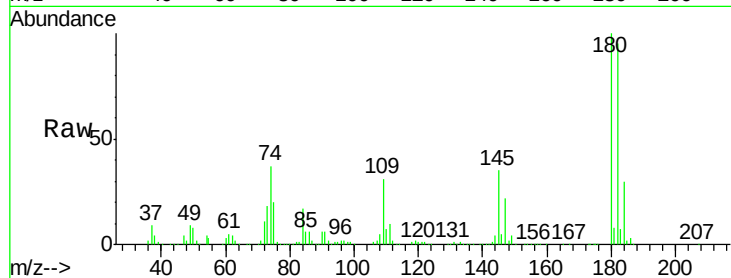
#70
 1,2,3-Trichlorobenzene
 Concen: 1092.978 ug/L
 RT: 14.37 min Scan# 4051
 Delta R.T. 0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DF9

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.0	115.6
145	34.8	28.1	42.1

Manual Integrations
 APPROVED

sam
 3/5/2020 3:34:39 PM



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

