

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037869.D
 Acq On : 24 Apr 2020 14:31
 Operator : JC/MD
 Sample : L2395-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D86

Manual Integrations
 APPROVED

MMDadoda
 4/28/2020 12:01:57 PM

Quant Time: Apr 25 01:44:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 25 01:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	372858	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	366545	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	151968	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	387289m	118.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	237.76%#
7) Chloroethane-d5	1.93	69	144044	57.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	114.10%
11) 1,1-Dichloroethene-d2	2.61	63	4129213	783.06	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	1566.12%#
21) 2-Butanone-d5	4.80	46	142	0.06	ug/L	0.14
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.06%#
24) Chloroform-d	5.11	84	287232	57.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.76%
26) 1,2-Dichloroethane-d4	5.74	65	202964	59.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	118.14%
32) Benzene-d6	5.76	84	616730	59.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.00%
36) 1,2-Dichloropropane-d6	6.72	67	208205	60.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	120.10%#
41) Toluene-d8	7.92	98	573158	60.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	120.32%#
43) trans-1,3-Dichloropropene-	8.20	79	110722	62.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	124.10%
47) 2-Hexanone-d5	8.65	63	229552	121.63	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	121.63%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	224271	46.49	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.98%
64) 1,2-Dichlorobenzene-d4	12.20	152	169346	57.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	14398187m	3892.276	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	16662	7.270	ug/L #	31
12) 1,1-Dichloroethene	2.61	96	6643596	2934.886	ug/L #	68
13) Acetone	2.66	43	37148	24.121	ug/L	94
15) Methyl Acetate	2.98	43	3203	0.860	ug/L #	75
16) Methylene chloride	3.08	84	11135	4.140	ug/L	85
17) trans-1,2-Dichloroethene	3.39	96	809847	319.966	ug/L	97
19) 1,1-Dichloroethane	3.92	63	3887543	761.962	ug/L	100
20) cis-1,2-Dichloroethene	4.69	96	37525755m	13541.119	ug/L	
27) 1,2-Dichloroethane	5.83	62	110436	27.010	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	4718166	1152.599	ug/L	99
33) Benzene	5.81	78	29511	2.653	ug/L	100
34) Trichloroethene	6.57	95	534495	195.862	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	24624	4.660	ug/L	99
42) Toluene	7.99	91	351797	30.160	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	207003	78.092	ug/L	99
52) Ethylbenzene	9.59	91	642453	49.183	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)
53) m,p-Xylene	9.71	106	1095764	222.801	ug/L	100
54) o-xylene	10.12	106	602356	125.231	ug/L	97
56) Isopropylbenzene	10.50	105	20466	1.608	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	7085	1.736	ug/L	97

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

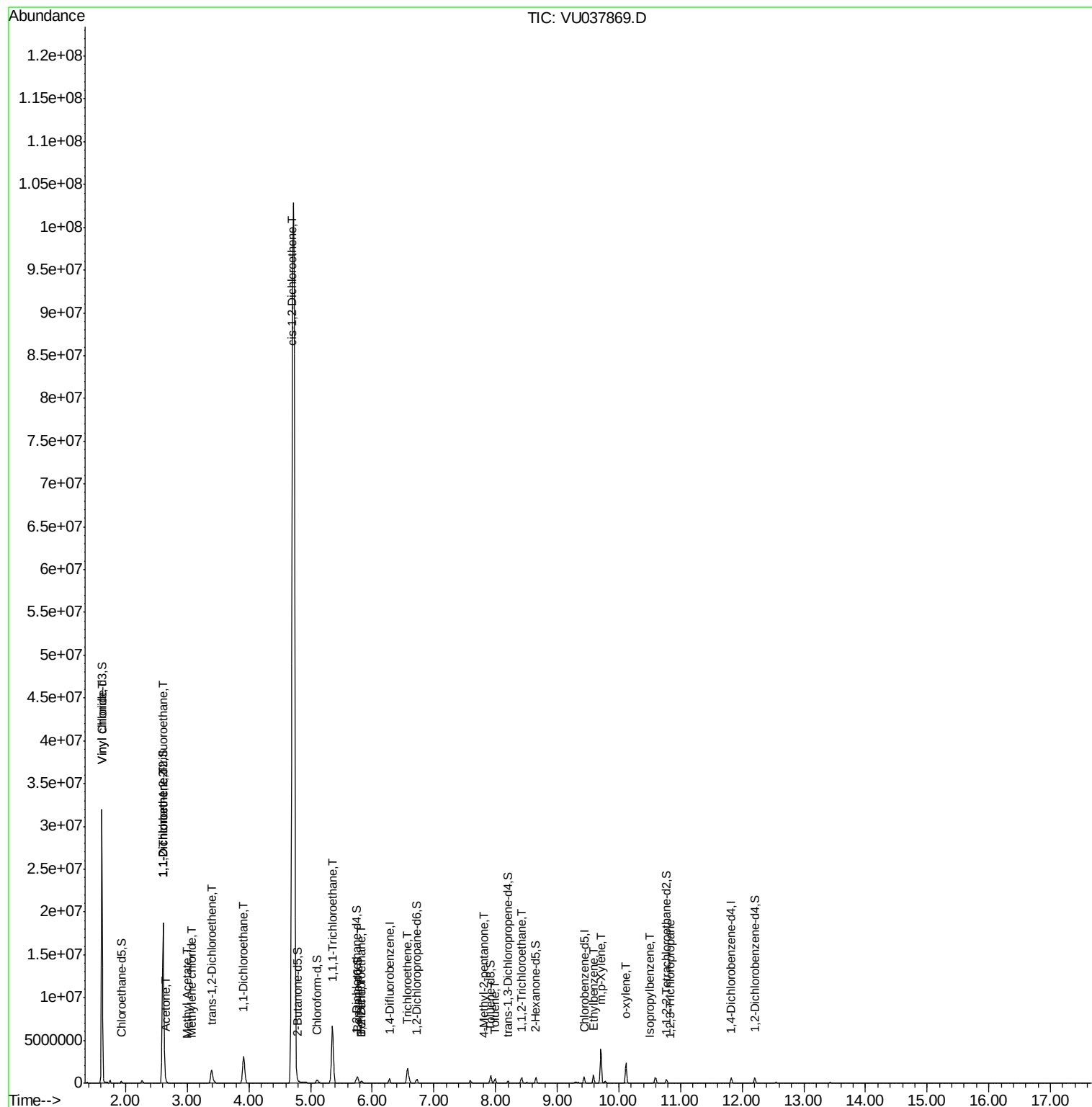
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042420\
Data File : VU037869.D
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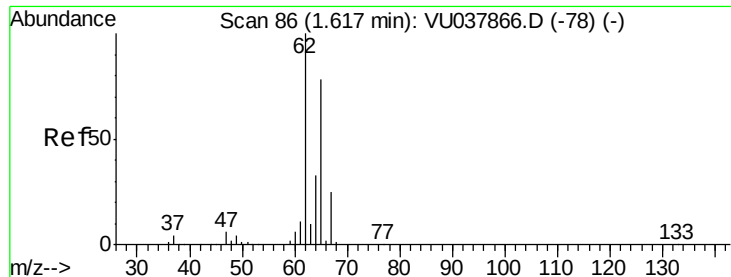
Instrument :
MSVOA_U
ClientSampleId :
C0D86

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#5

Vinyl chloride

Concen: 3892.276 ug/L m

RT: 1.61 min Scan# 83

Delta R.T. -0.01 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampleId :

C0D86

Tot Ion: 62 Resp: 14398187

Ion Ratio Lower Upper

62 100

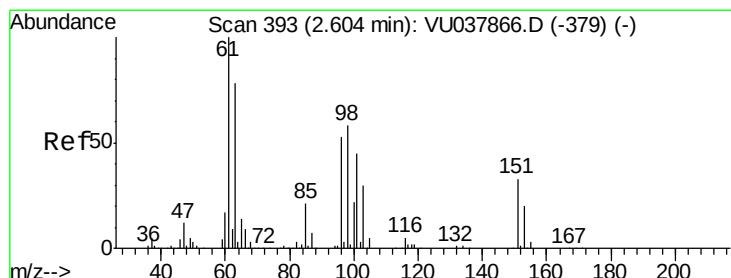
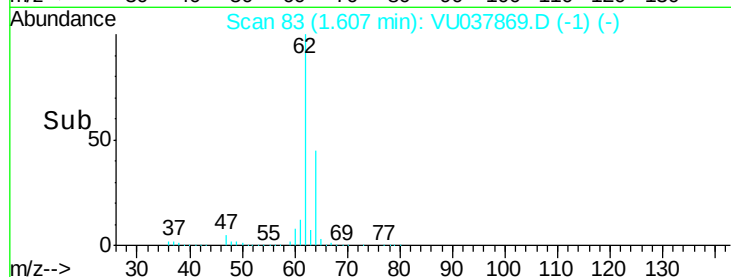
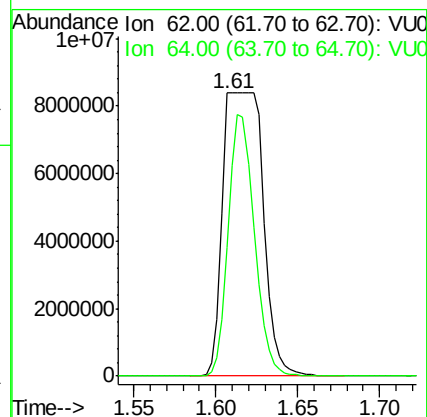
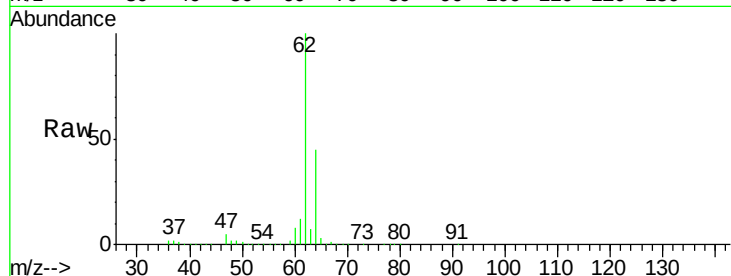
64 45.2 23.2 43.0#

Manual Integrations

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#10

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

Concen: 7.270 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

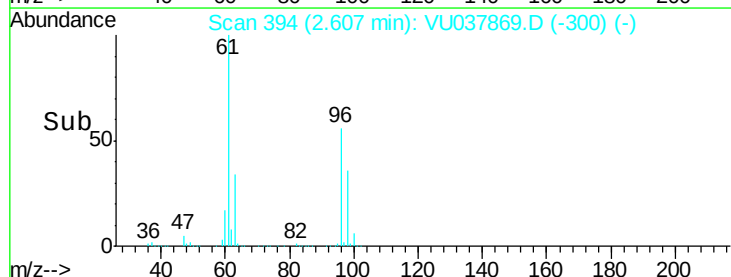
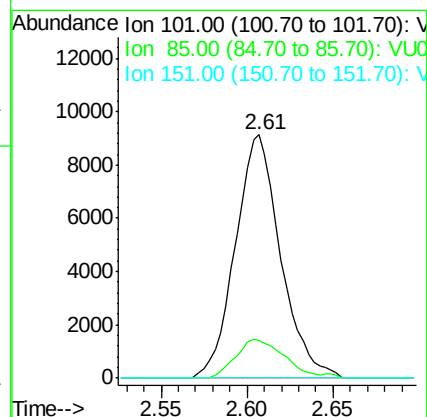
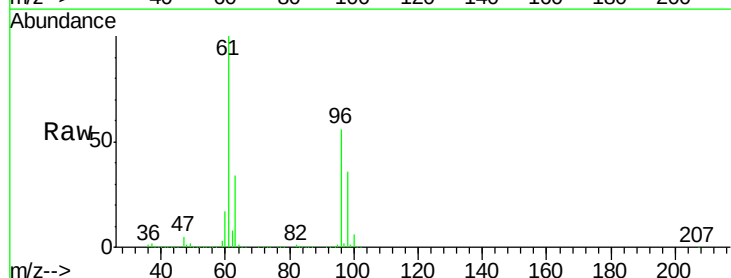
Tgt Ion: 101 Resp: 16662

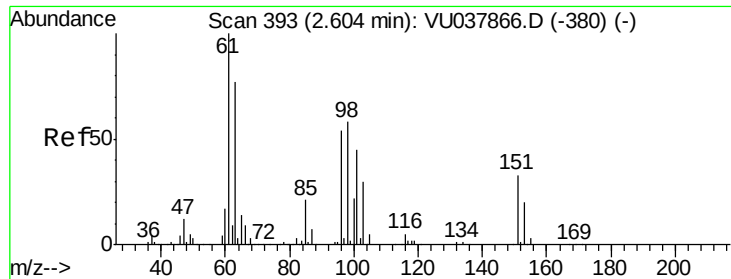
Ion Ratio Lower Upper

101 100

85 16.9 36.2 54.4#

151 0.0 55.5 83.3#





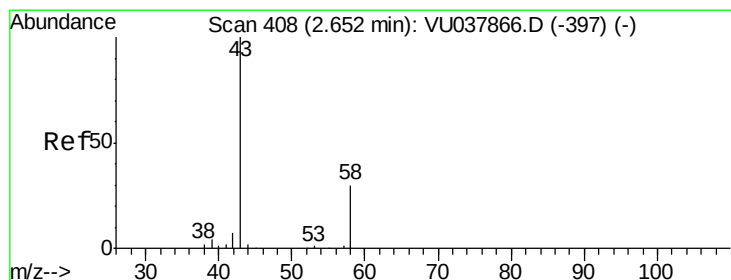
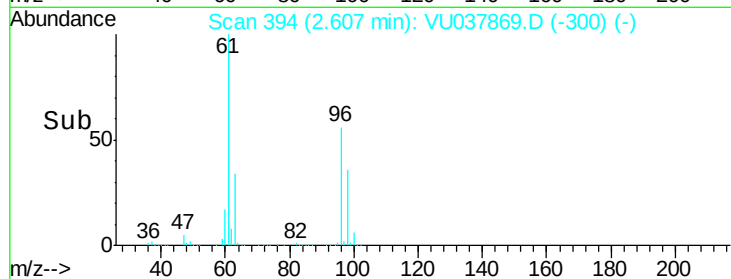
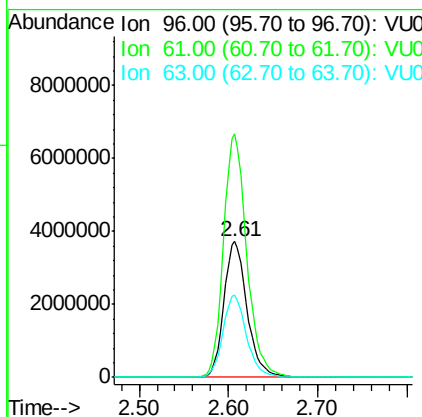
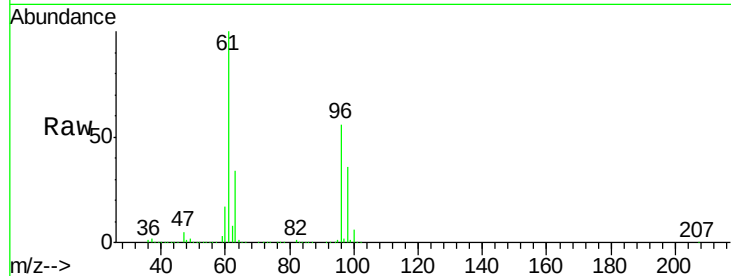
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 1,1-Dichloroethene
 Concen: 2934.886 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Instrument :
 MSVOA_U
 ClientSampled :
 C0D86

Tot Ion: 96 Resp: 6643596
 Ion Ratio Lower Upper
 96 100
 61 179.3 134.1 249.0
 63 60.3 96.5 179.1#

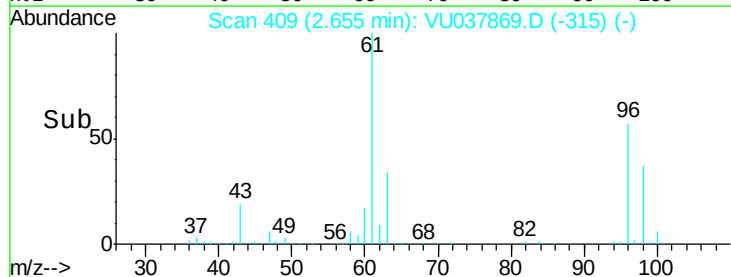
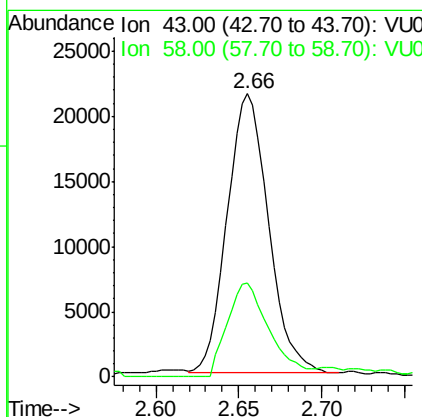
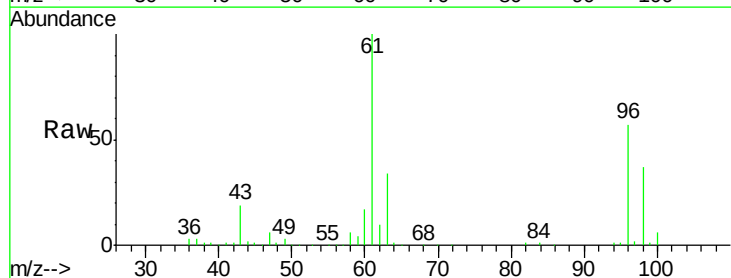
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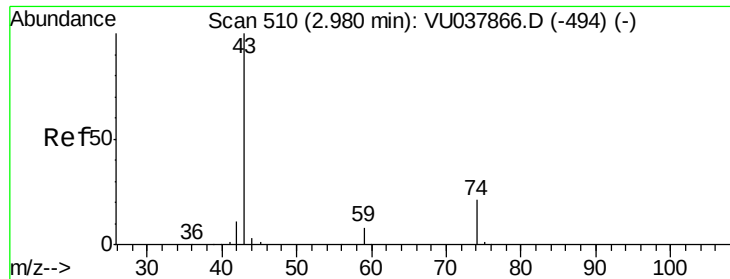
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#13
 Acetone
 Concen: 24.121 ug/L
 RT: 2.66 min Scan# 409
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Tgt Ion: 43 Resp: 37148
 Ion Ratio Lower Upper
 43 100
 58 34.1 0.0 62.0





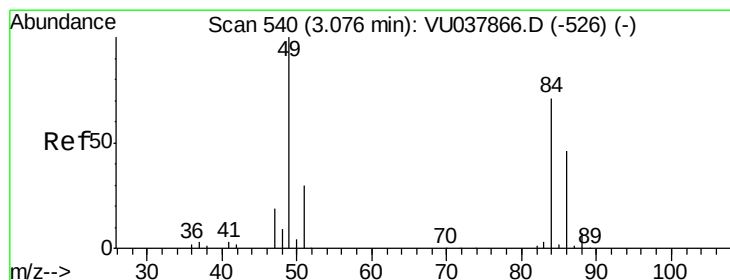
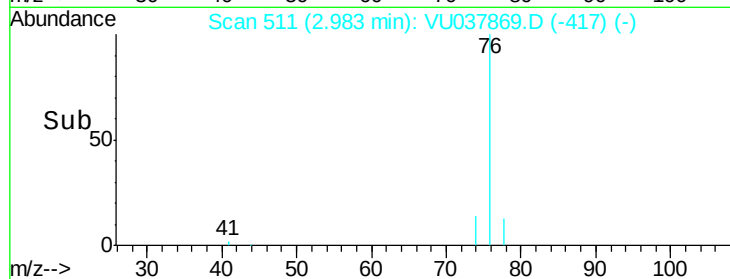
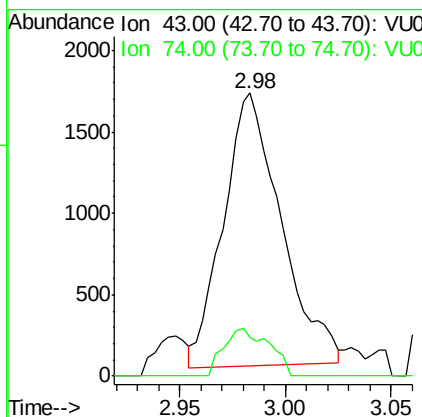
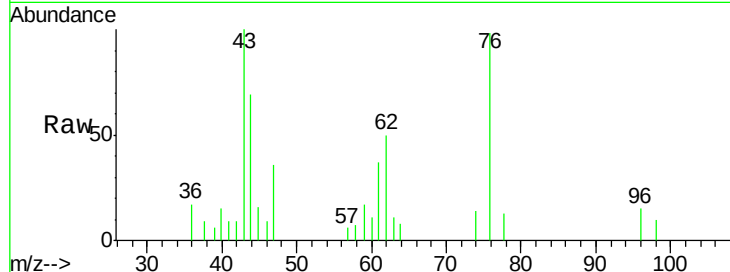
#15
Methvl Acetate
Concen: 0.860 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :
C0D86

Tot Ion: 43 Resp: 3203
Ion Ratio Lower Upper
43 100
74 9.3 17.0 25.4#

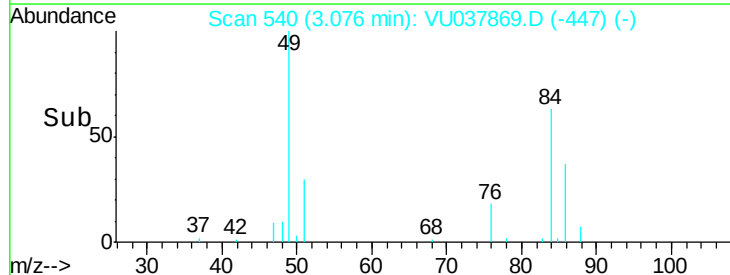
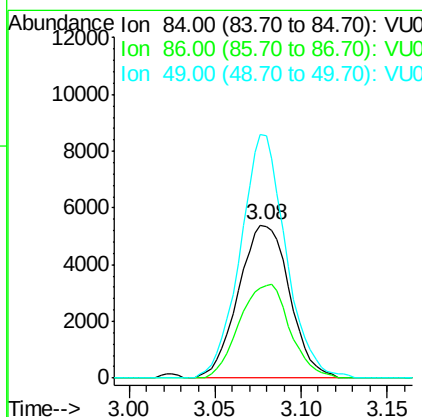
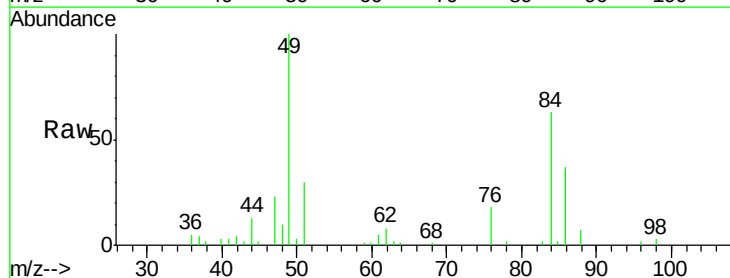
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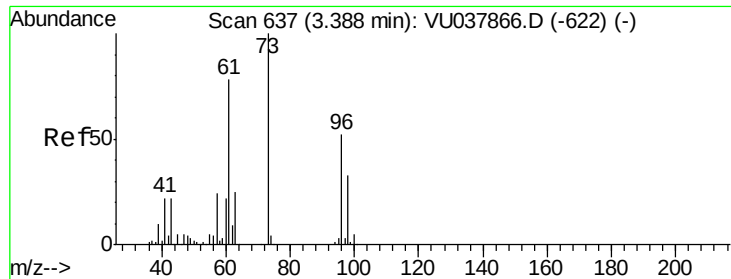
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#16
Methylene chloride
Concen: 4.140 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion: 84 Resp: 11135
Ion Ratio Lower Upper
84 100
86 58.6 43.5 80.7
49 158.8 95.1 176.7





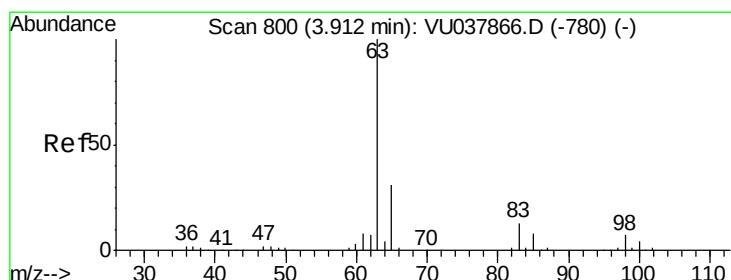
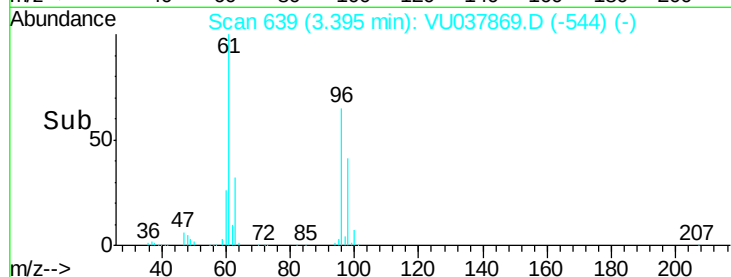
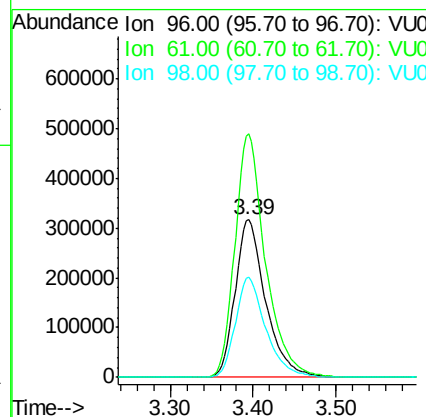
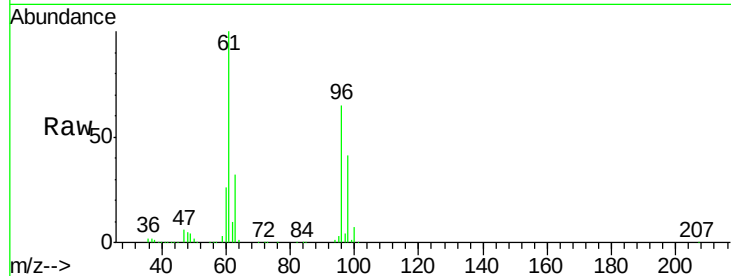
#17
trans-1,2-Dichloroethene
Concen: 319.966 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Instrument :
MSVOA_U
ClientSampled :
C0D86

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.3	111.4	207.0
98	63.4	43.9	81.5

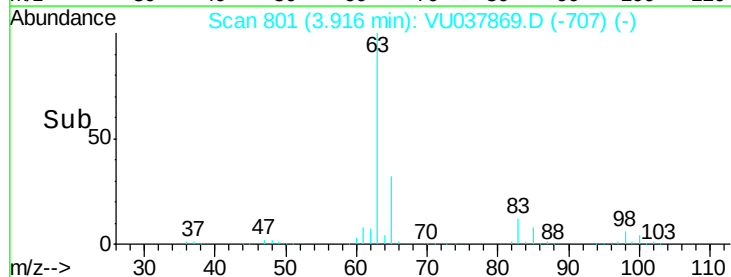
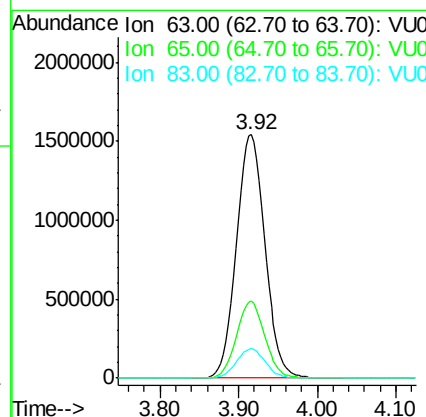
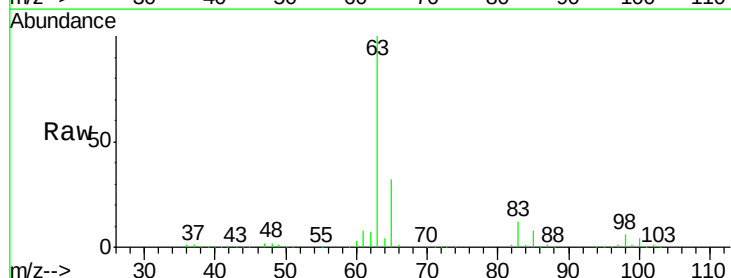
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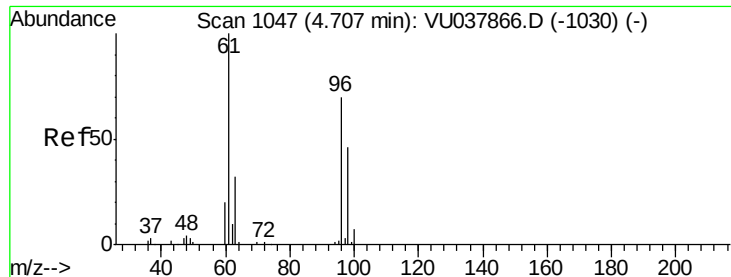
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#19
1,1-Dichloroethane
Concen: 761.962 ug/L
RT: 3.92 min Scan# 801
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.7	22.2	41.2
83	12.2	8.6	16.0





#20

cis-1,2-Dichloroethene

Concen: 13541.119 ug/L m

RT: 4.69 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampleId :

C0D86

Tot Ion: 96 Resp: 37525755

Ion Ratio Lower Upper

96 100

61 100.0 100.4 186.4#

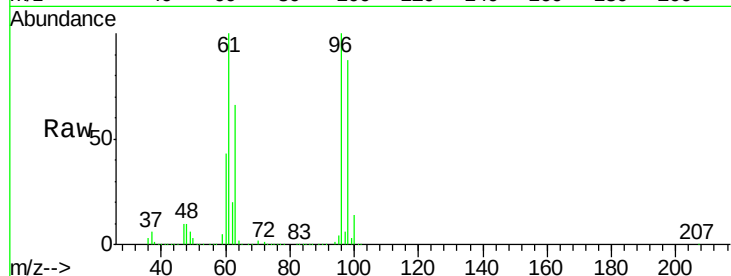
68 0.0 0.0 0.0#

Manual Integrations

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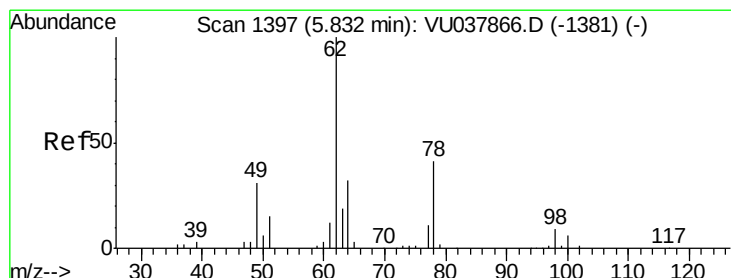
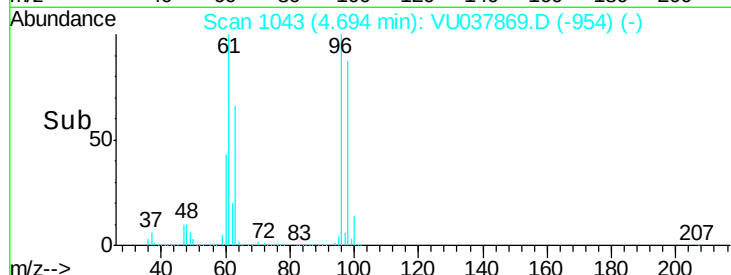
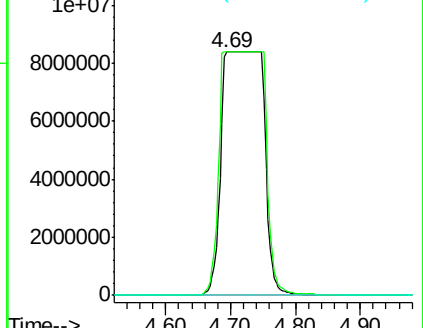
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Abundance Ion 96.00 (95.70 to 96.70): VU037869.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU037869.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU037869.D (-954) (-)



#27

1,2-Dichloroethane

Concen: 27.010 ug/L

RT: 5.83 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VU037869.D

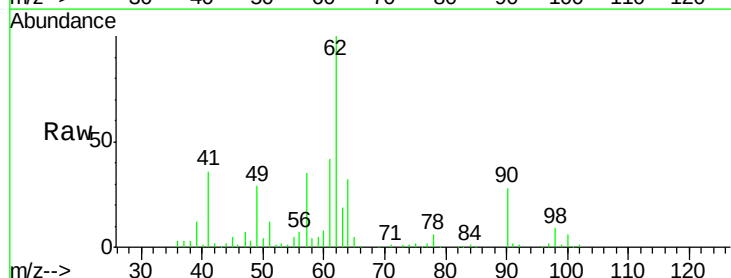
Acq: 24 Apr 2020 14:31

Tgt Ion: 62 Resp: 110436

Ion Ratio Lower Upper

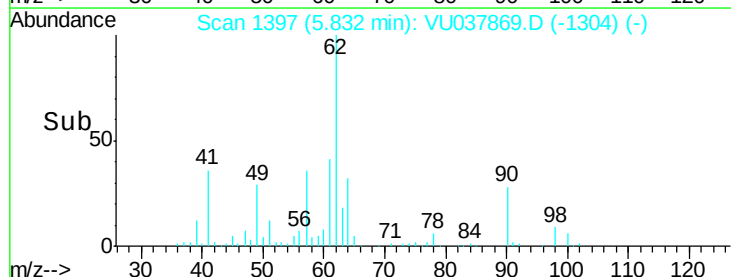
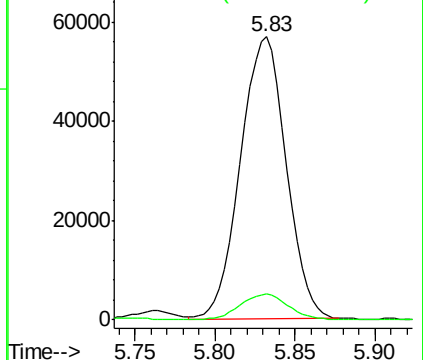
62 100

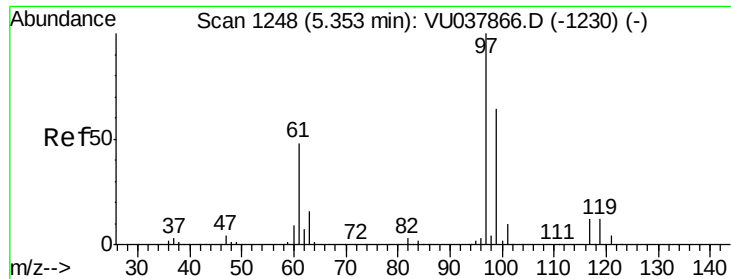
98 9.1 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU037869.D (-1304) (-)

Ion 98.00 (97.70 to 98.70): VU037869.D (-1304) (-)





#30
 1,1,1-Trichloroethane
 Concen: 1152.599 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

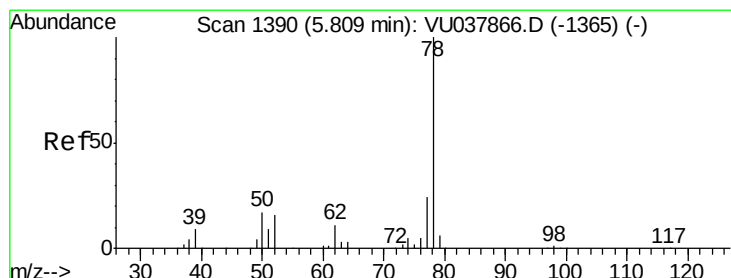
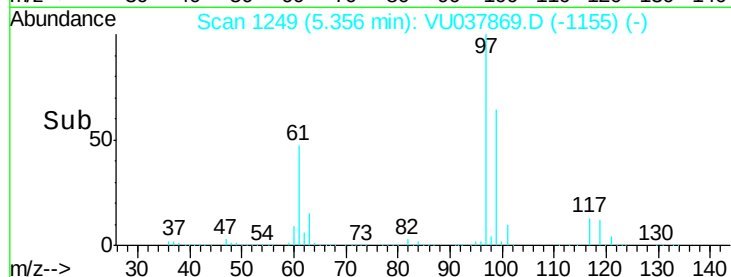
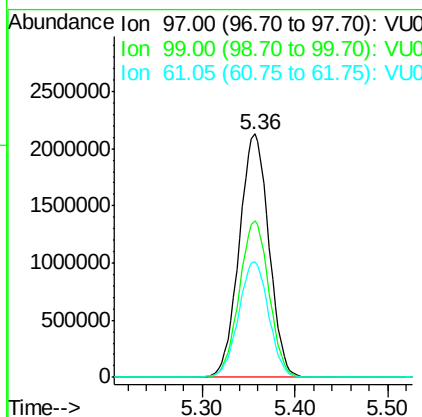
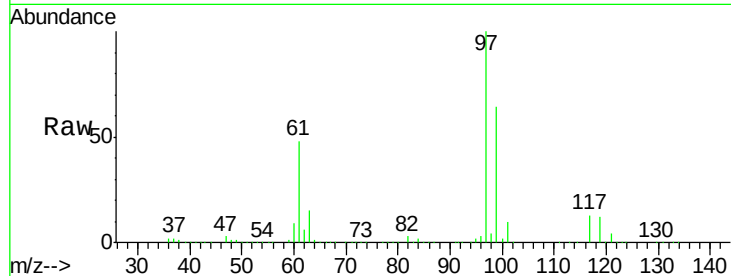
Instrument :
 MSVOA_U
 ClientSampleId :
 C0D86

Tot Ion: 97 Resp: 4718166

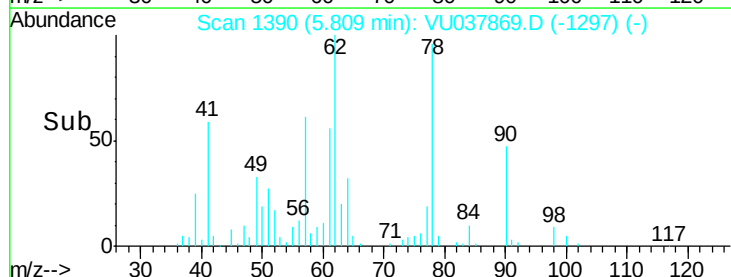
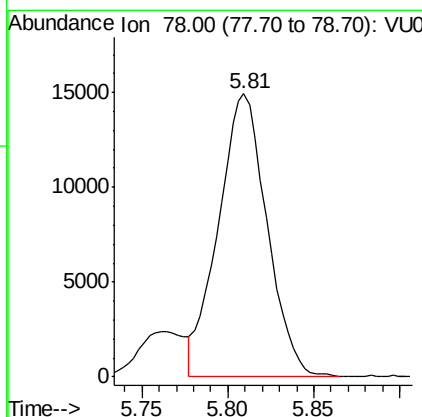
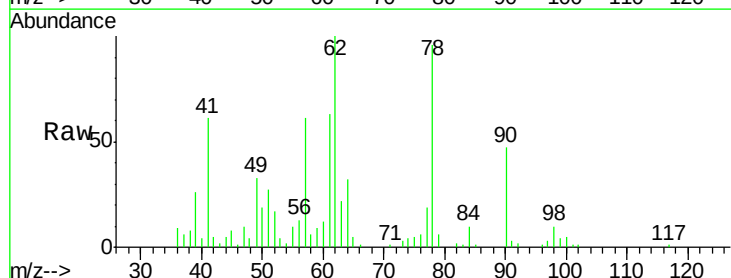
Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.7	76.1
61	48.1	38.9	58.3

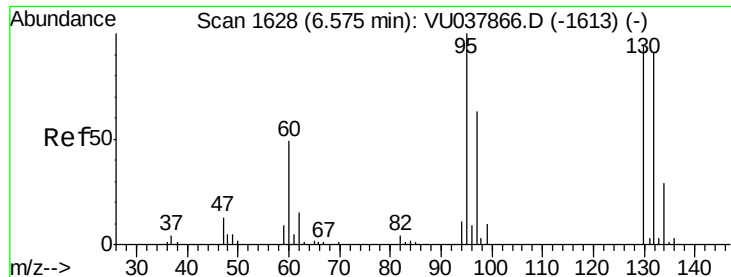
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#33
 Benzene
 Concen: 2.653 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31
 Tgt Ion: 78 Resp: 29511





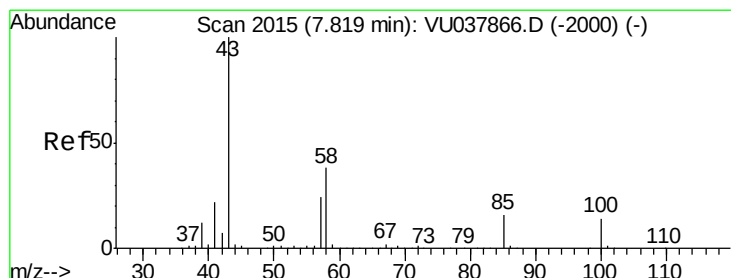
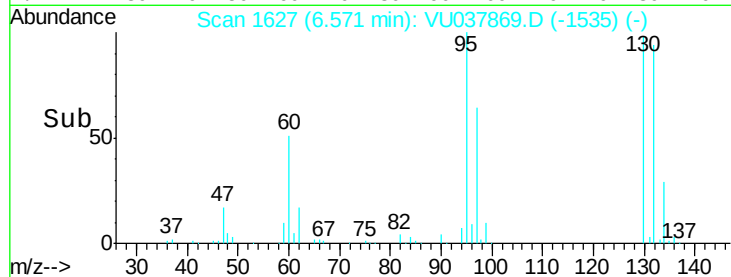
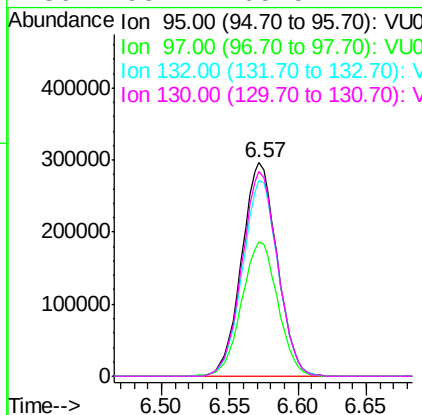
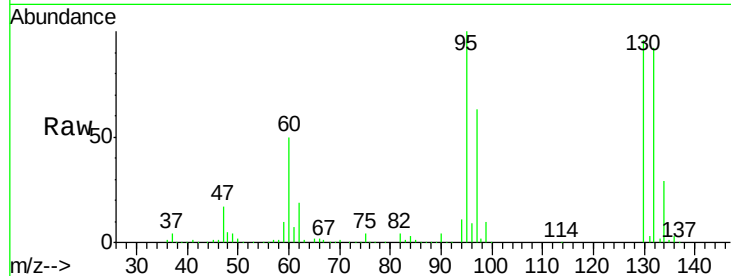
#34
 Trichloroethene
 Concen: 195.862 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D86

Tot Ion	95	Resp	534495
Ion	Ratio	Lower	Upper
95	100		
97	63.1	44.4	82.5
132	92.0	65.0	120.6
130	95.7	65.5	121.7

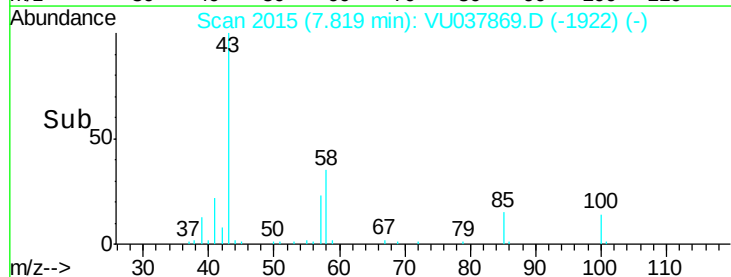
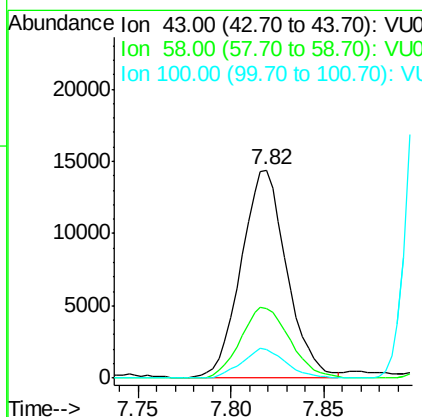
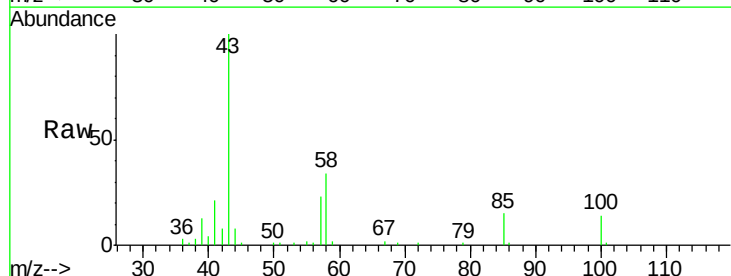
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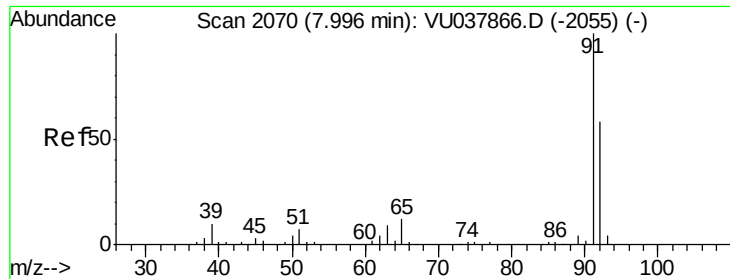
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#40
 4-Methyl-2-pentanone
 Concen: 4.660 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Tgt Ion	43	Resp	24624
Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.2	45.2
100	13.6	10.9	16.3





#42

Toluene

Concen: 30.160 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampleId :

C0D86

Tot Ion: 91 Resp: 351797

Ion Ratio Lower Upper

91 100

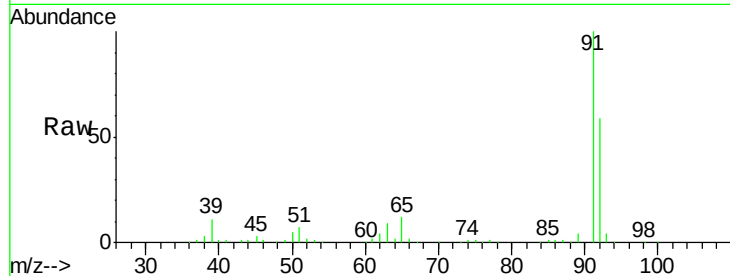
92 59.5 41.2 76.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU037866.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU037866.D (-2055) (-)

7.99

250000

200000

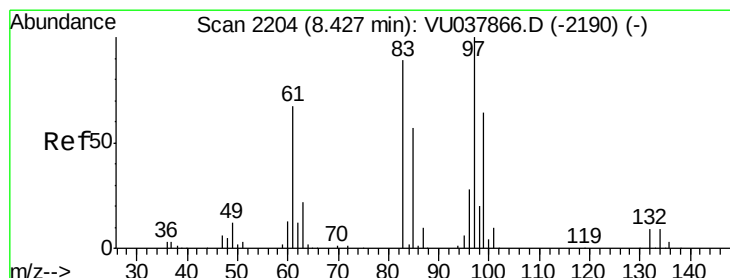
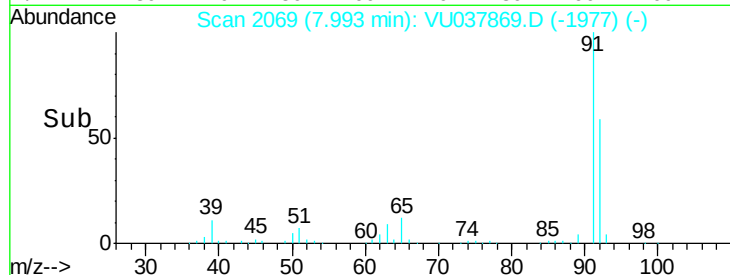
150000

100000

50000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 78.092 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Tgt Ion: 97 Resp: 207003

Ion Ratio Lower Upper

97 100

99 63.3 44.0 81.6

83 89.5 62.6 116.2

85 58.6 40.0 74.4

Abundance Ion 97.00 (96.70 to 97.70): VU037866.D (-2190) (-)

Ion 99.00 (98.70 to 99.70): VU037866.D (-2190) (-)

Ion 83.00 (82.70 to 83.70): VU037866.D (-2190) (-)

Ion 85.00 (84.70 to 85.70): VU037866.D (-2190) (-)

8.42

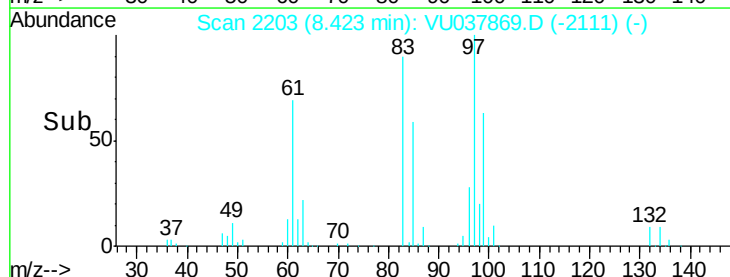
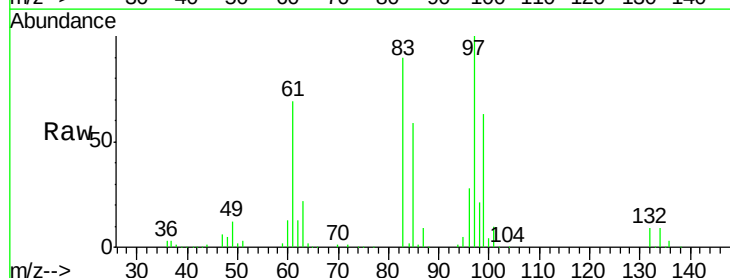
150000

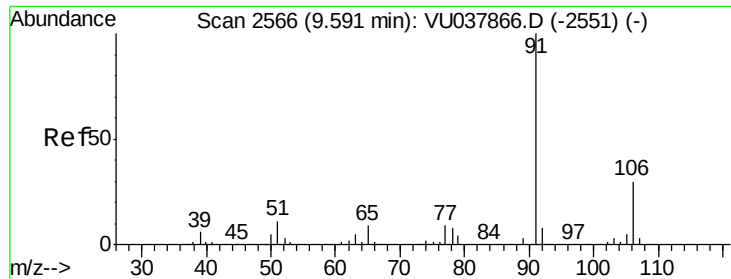
100000

50000

0

Time-->





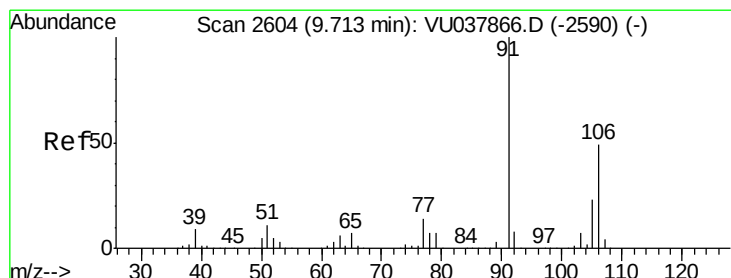
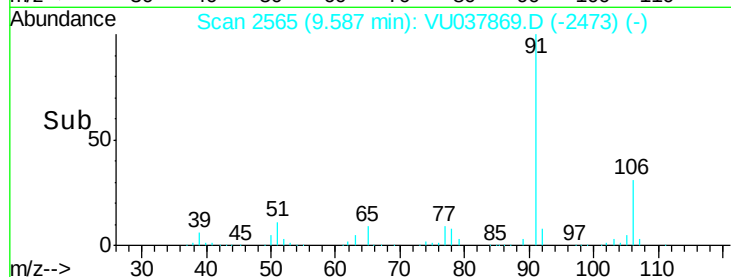
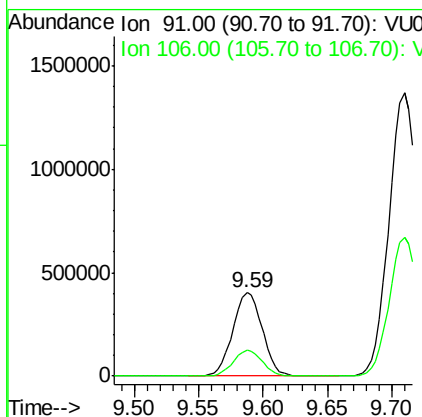
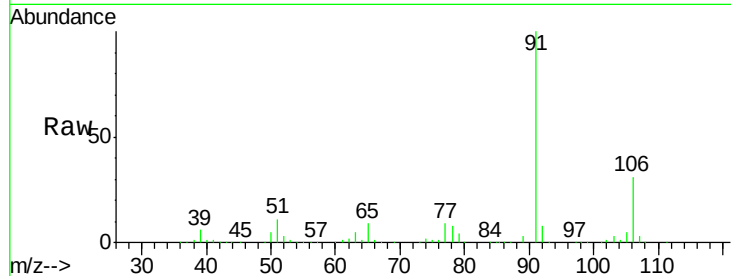
#52
Ethylbenzene
Concen: 49.183 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :
C0D86

Tot Ion: 91 Resp: 642453
Ion Ratio Lower Upper
91 100
106 30.6 21.1 39.1

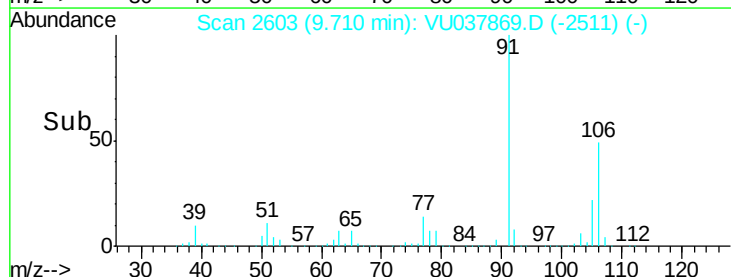
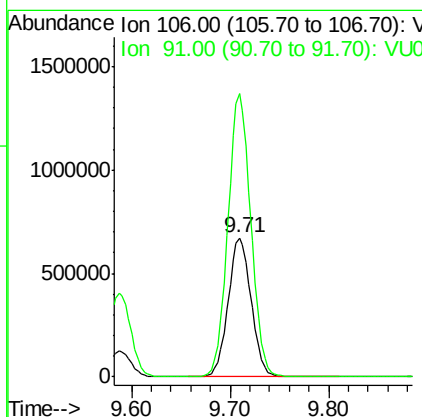
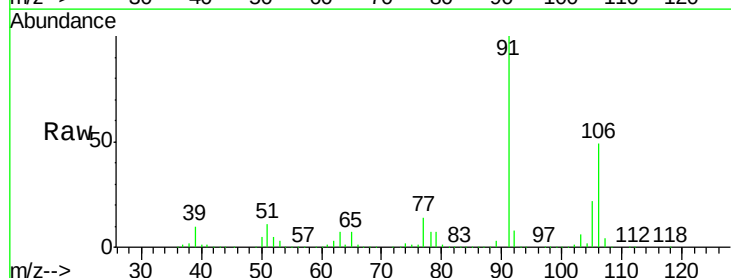
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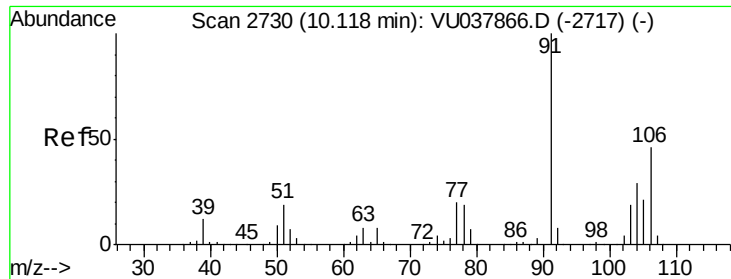
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#53
m,p-Xylene
Concen: 222.801 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion: 106 Resp: 1095764
Ion Ratio Lower Upper
106 100
91 203.7 142.8 265.2





#54

o-xylene

Concen: 125.231 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampleId :

C0D86

Tot Ion:106 Resp: 602356

Ion Ratio Lower Upper

106 100

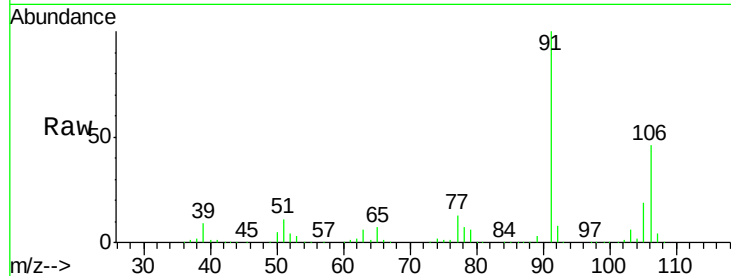
91 219.3 150.6 279.6

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

1000000

800000

600000

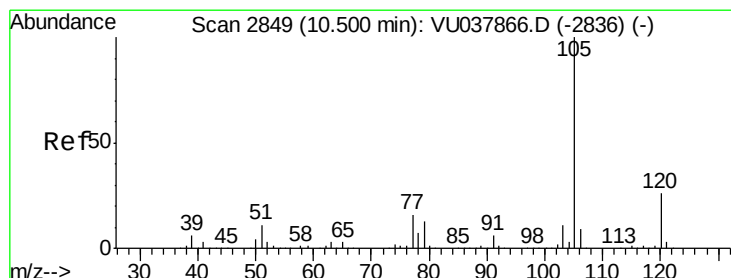
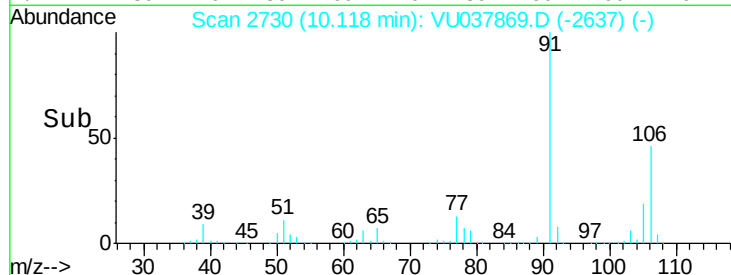
400000

200000

0

10.10 10.12 10.20

Time-->



#56

Isopropylbenzene

Concen: 1.608 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

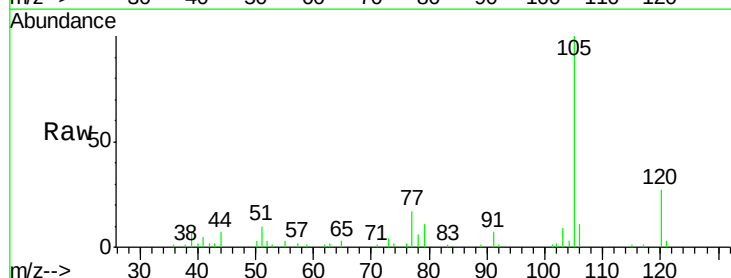
Tgt Ion:105 Resp: 20466

Ion Ratio Lower Upper

105 100

120 24.8 20.6 31.0

77 15.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

15000

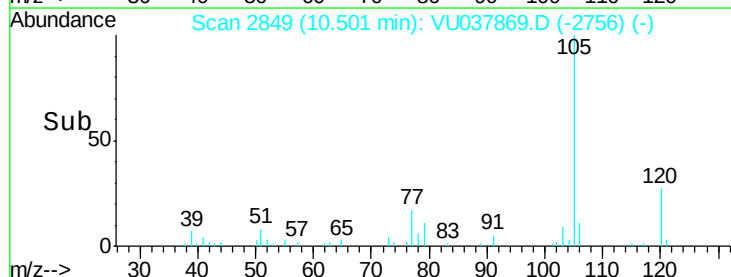
10000

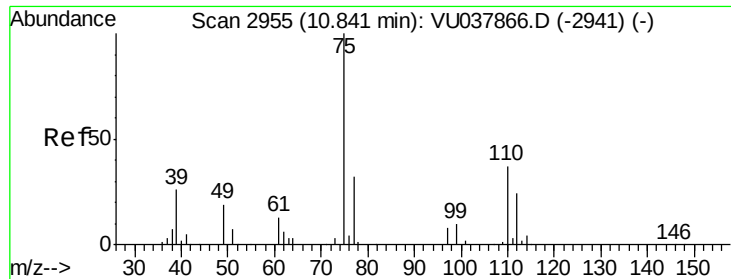
5000

0

10.45 10.50 10.55

Time-->





#59
 1,2,3-Trichloropropane
 Concen: 1.736 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D86

Tot Ion: 75 Resp: 7085
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.8 38.6

Manual Integrations
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MMDadoda
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