

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041219\
 Data File : VU031144.D
 Acq On : 12 Apr 2019 21:17
 Operator : JC/SP
 Sample : K2339-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC34

Manual Integrations
 APPROVED

MMDadoda
 4/15/2019 12:48:31 PM

Quant Time: Apr 13 02:55:00 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M

Quant Title : VOC Analysis

QLast Update : Sat Apr 13 01:01:33 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	576568	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	569691	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	253824	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	229575	44.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.20%
7) Chloroethane-d5	1.68	69	172383	44.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.26%
11) 1,1-Dichloroethene-d2	2.28	63	1519130	163.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	326.38%#
21) 2-Butanone-d5	4.18	46	373739	91.62	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.62%
24) Chloroform-d	4.64	84	346273	44.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.08%
26) 1,2-Dichloroethane-d4	5.31	65	240884	44.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.80%
32) Benzene-d6	5.34	84	742008	44.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.24%
36) 1,2-Dichloropropane-d6	6.35	67	269865	47.35	ug/L	0.02
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.70%
41) Toluene-d8	7.56	98	695804	47.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.85	79	117344	45.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.30%
47) 2-Hexanone-d5	8.31	63	235874	90.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.55%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	339060	44.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	231022	46.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	393996	62.132	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	15607	3.780	ug/L #	53
12) 1,1-Dichloroethene	2.28	96	2130535	534.566	ug/L #	71
13) Acetone	2.31	43	37534	8.992	ug/L	73
17) trans-1,2-Dichloroethene	2.98	96	36178	8.549	ug/L	92
18) Methyl tert-butyl Ether	3.00	73	152860	10.784	ug/L #	1
19) 1,1-Dichloroethane	3.44	63	555315	63.587	ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	19765733m	4230.158	ug/L	
25) Chloroform	4.67	83	47261	5.384	ug/L	98
29) Cyclohexane	4.99	56	28771	3.543	ug/L #	91
30) 1,1,1-Trichloroethane	4.91	97	1919849	276.524	ug/L	99
33) Benzene	5.39	78	688859	36.950	ug/L	100
34) Trichloroethene	6.17	95	57557850m	12587.944	ug/L	
35) Methylcyclohexane	6.42	83	183016	25.936	ug/L	99
42) Toluene	7.64	91	17360	0.912	ug/L	100
46) Tetrachloroethene	8.22	164	239083	71.919	ug/L	99
56) Isopropylbenzene	10.16	105	92442	4.879	ug/L	100

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ALS Vial : 19 Sample Multiplier: 1

Instrument :
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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

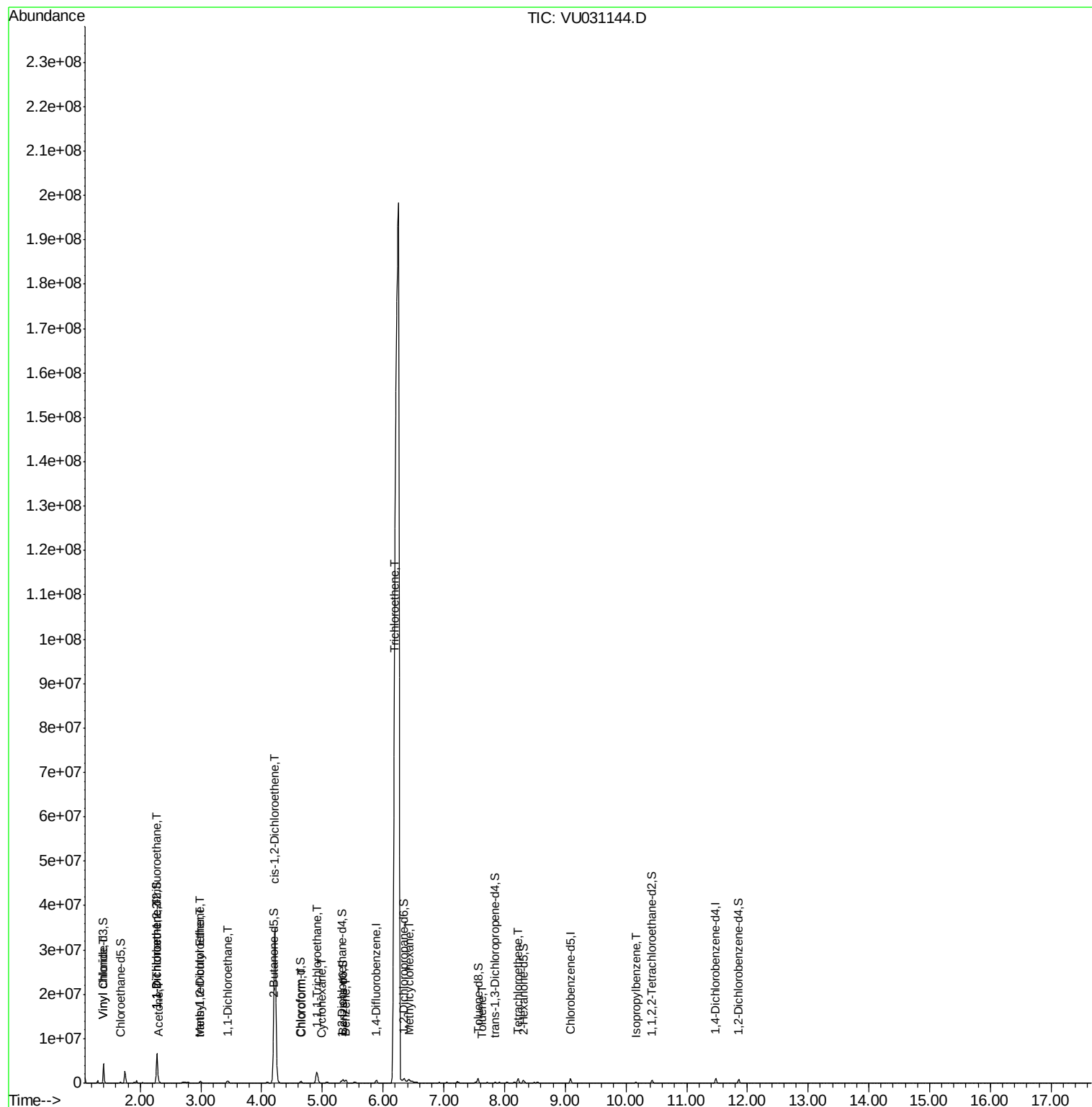
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041219\
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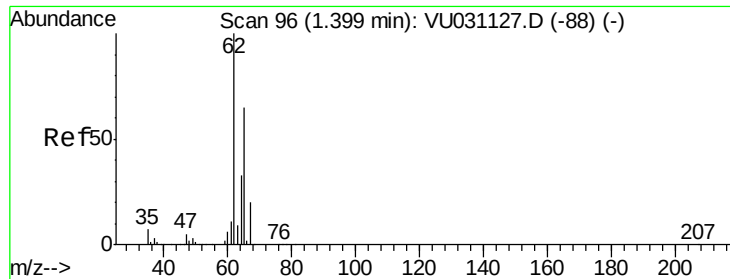
Instrument :
MSVOA_U
ClientSampleId :
BFC34

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#5

Vinyl chloride

Concen: 62.132 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

Tot Ion: 62 Resp: 393996

Ion Ratio Lower Upper

62 100

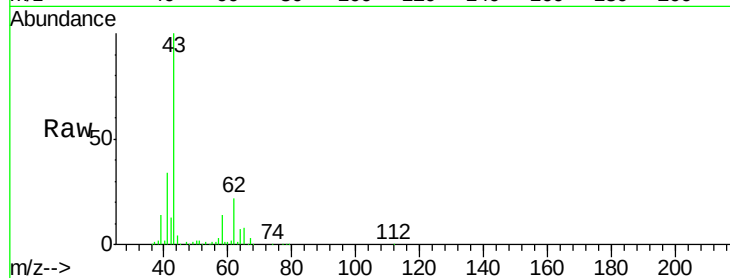
64 32.4 21.5 39.9

Manual Integrations

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Abundance Ion 62.00 (61.70 to 62.70): VU031127.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031127.D (-88) (-)

1.40

400000

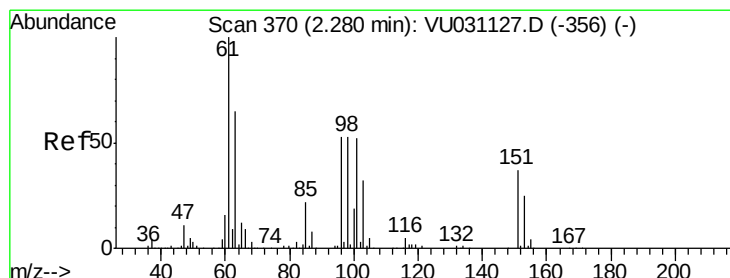
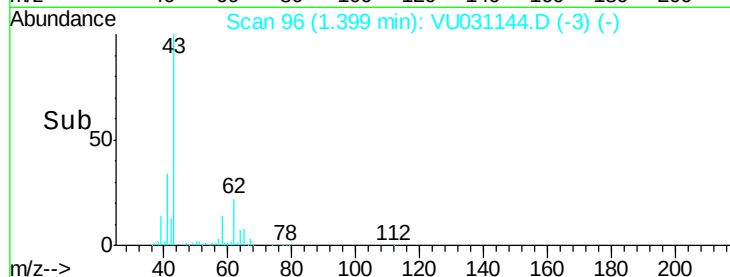
300000

200000

100000

0

Time-->



#10

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

Concen: 3.780 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

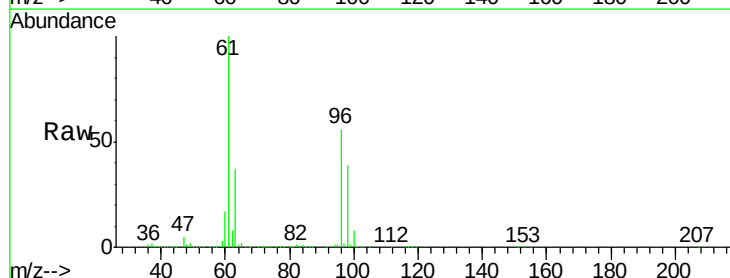
Tgt Ion:101 Resp: 15607

Ion Ratio Lower Upper

101 100

85 32.4 36.8 55.2#

151 18.2 57.4 86.0#



Abundance Ion 101.00 (100.70 to 101.70): VU031127.D (-356) (-)

Ion 85.00 (84.70 to 85.70): VU031127.D (-356) (-)

Ion 151.00 (150.70 to 151.70): VU031127.D (-356) (-)

12000

10000

8000

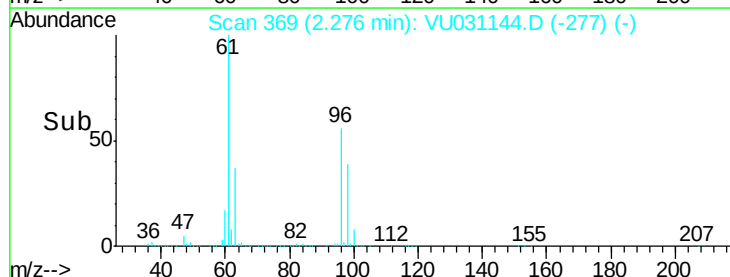
6000

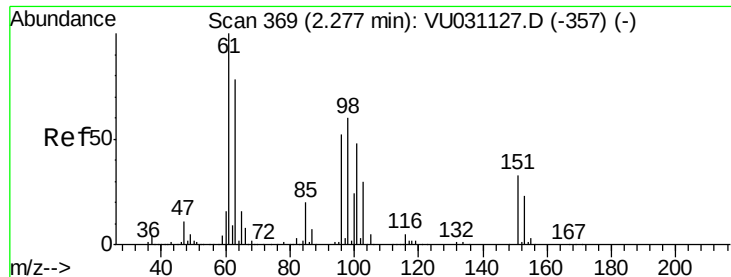
4000

2000

0

Time-->





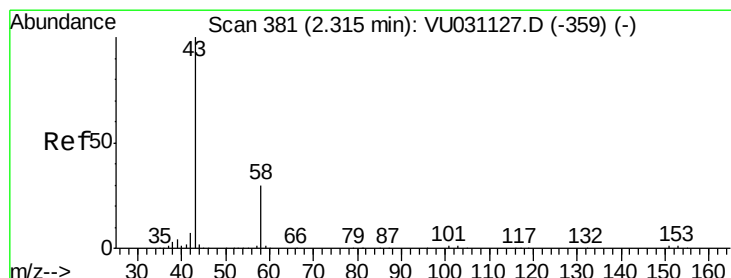
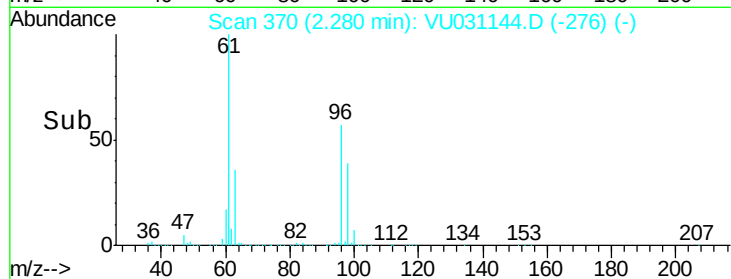
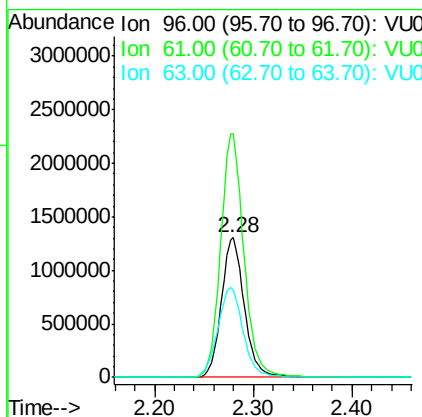
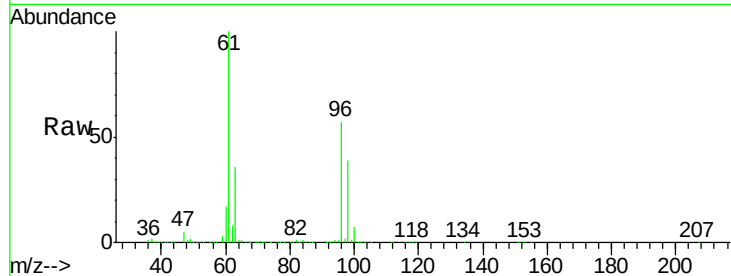
#12
 1,1-Dichloroethene
 Concen: 534.566 ug/L
 RT: 2.28 min Scan# 370
 Delta R.T. 0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC34

Tot Ion: 96 Resp: 2130535
 Ion Ratio Lower Upper
 96 100
 61 174.7 132.0 245.2
 63 63.0 90.9 168.9#

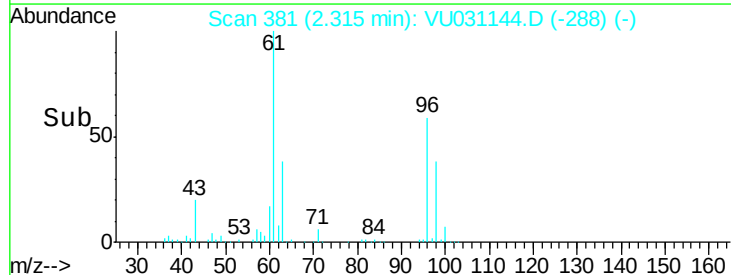
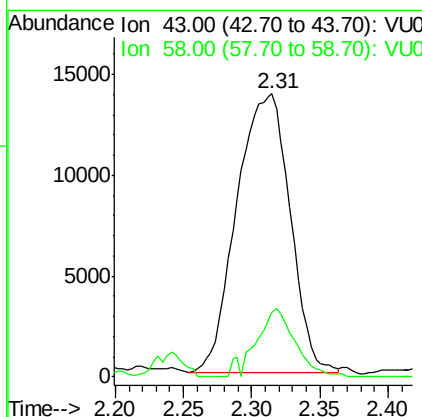
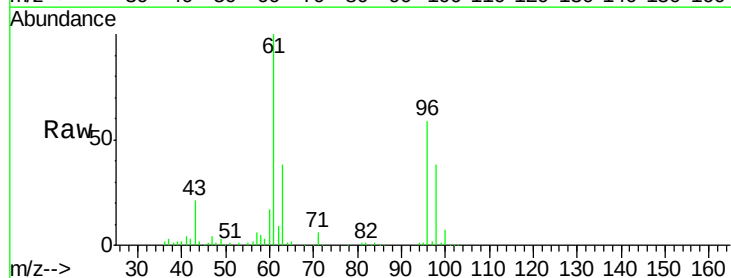
Manual Integrations
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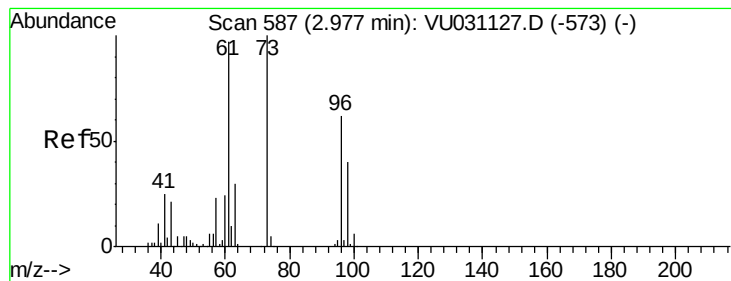
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#13
 Acetone
 Concen: 8.992 ug/L
 RT: 2.31 min Scan# 381
 Delta R.T. -0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Tgt Ion: 43 Resp: 37534
 Ion Ratio Lower Upper
 43 100
 58 16.8 0.0 64.0





#17

trans-1,2-Dichloroethene

Concen: 8.549 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

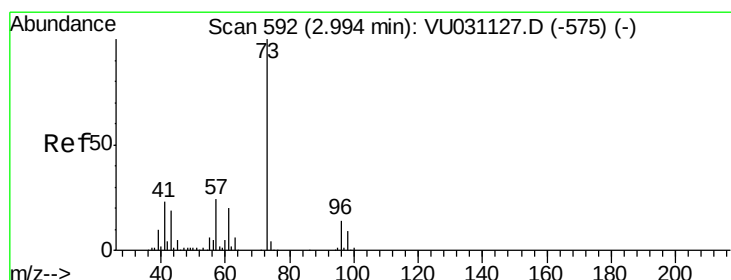
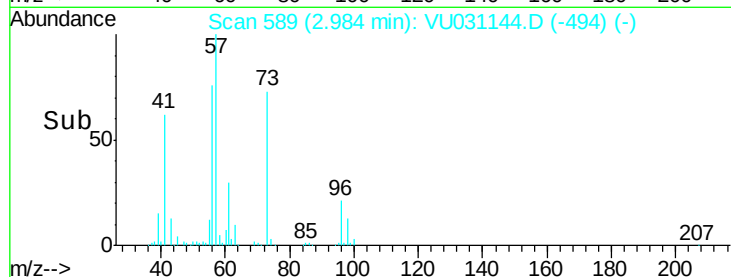
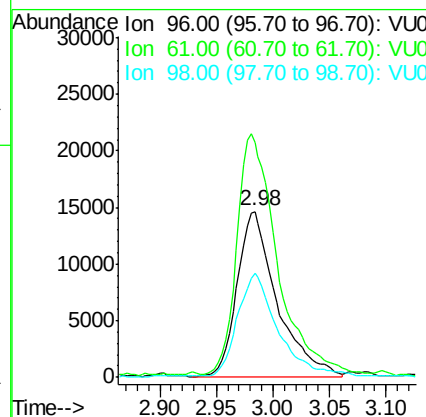
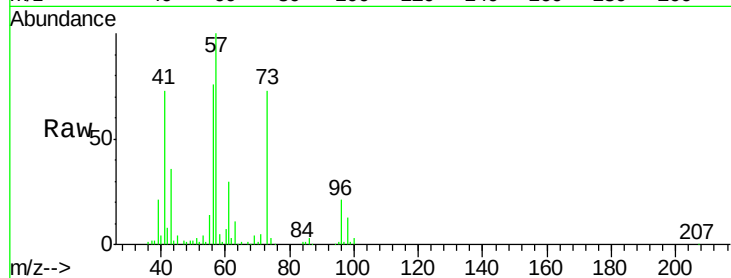
ClientSampled :

BFC34

Tot Ion:	96	Resp:	36178
Ion	Ratio	Lower	Upper
96	100		
61	141.4	109.5	203.3
98	63.0	44.0	81.6

Manual Integrations
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#18

Methyl tert-butyl Ether

Concen: 10.784 ug/L

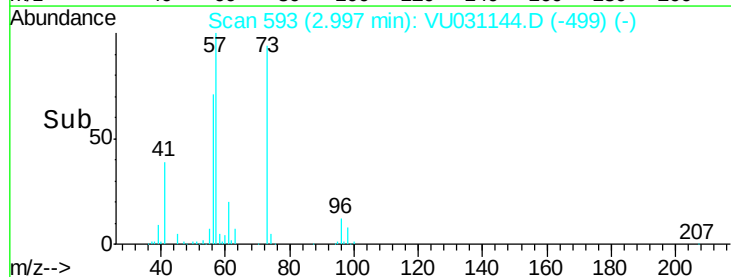
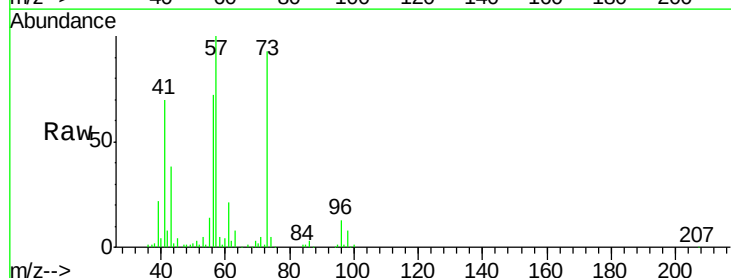
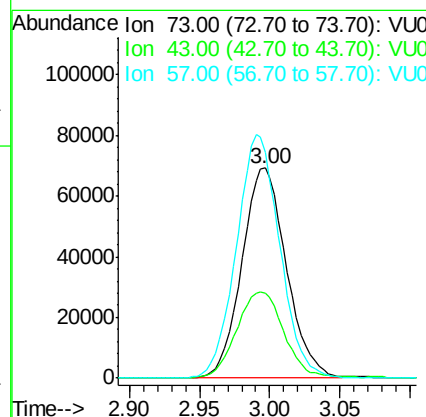
RT: 3.00 min Scan# 593

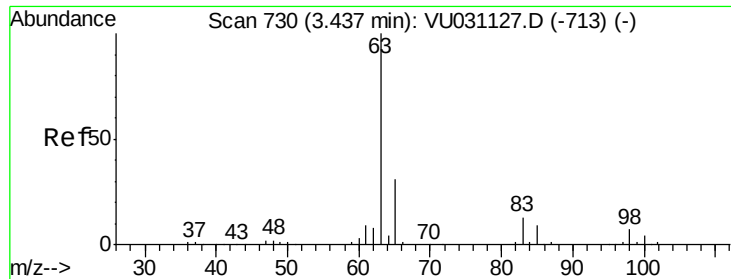
Delta R.T. 0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Tgt Ion:	73	Resp:	152860
Ion	Ratio	Lower	Upper
73	100		
43	43.1	16.4	24.6#
57	112.9	19.0	28.4#





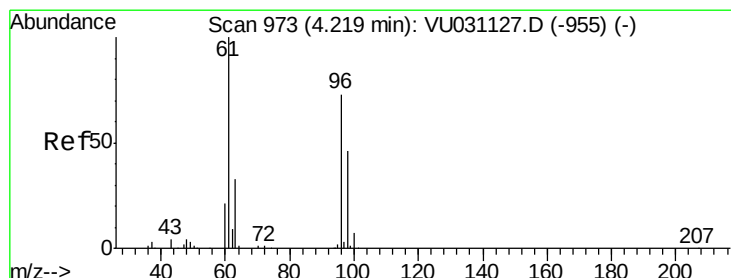
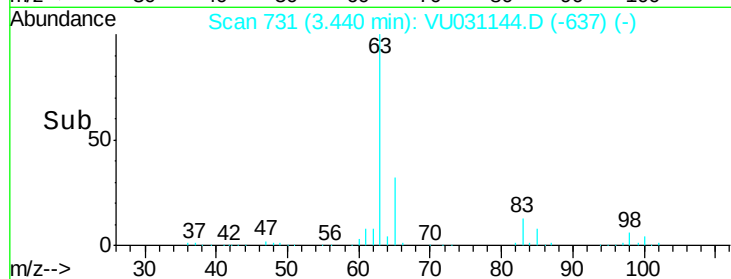
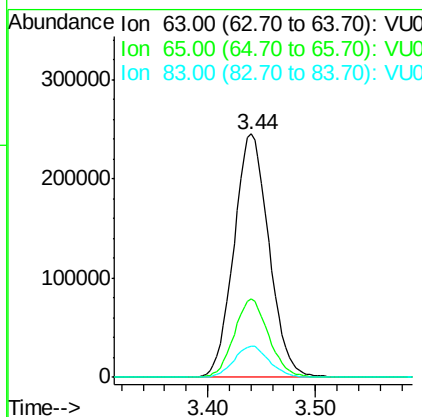
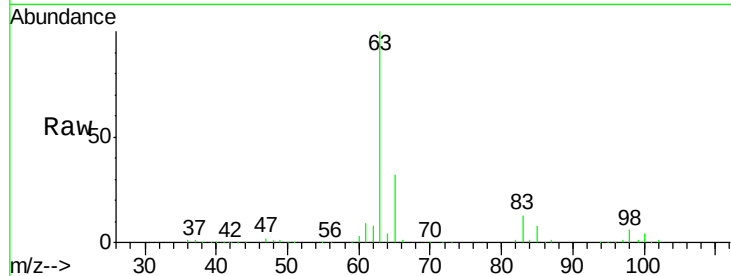
#19
 1,1-Dichloroethane
 Concen: 63.587 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC34

Tot Ion:	63	Resp:	555315
Ion Ratio	Lower	Upper	
63	100		
65	32.2	21.4	39.8
83	12.8	8.5	15.7

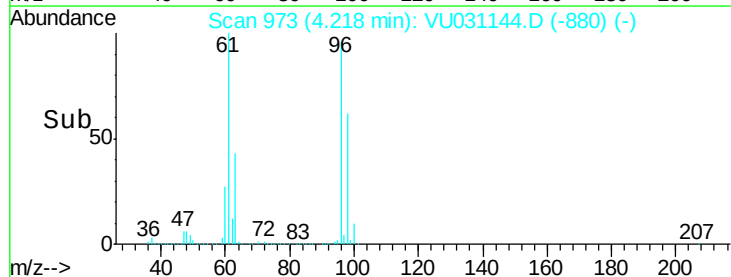
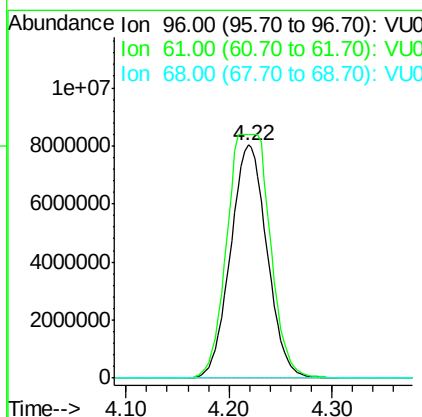
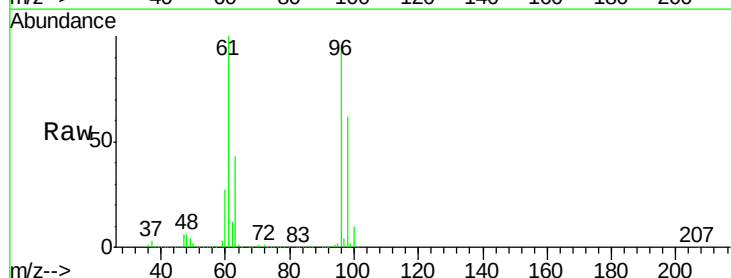
Manual Integrations
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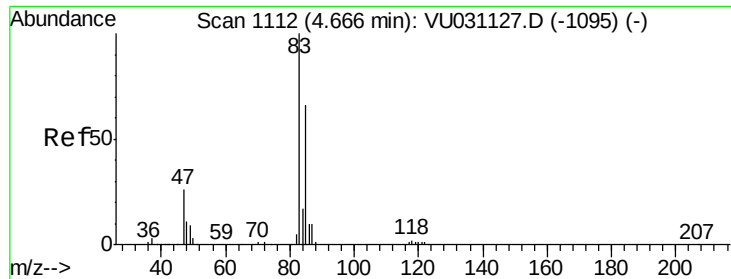
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#20
 cis-1,2-Dichloroethene
 Concen: 4230.158 ug/L m
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Tgt Ion:	96	Resp:	19765733
Ion Ratio	Lower	Upper	
96	100		
61	104.5	102.9	191.1
68	0.0	0.0	0.0#





#25

Chloroform

Concen: 5.384 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

Tot Ion: 83 Resp: 47261

Ion Ratio Lower Upper

83 100

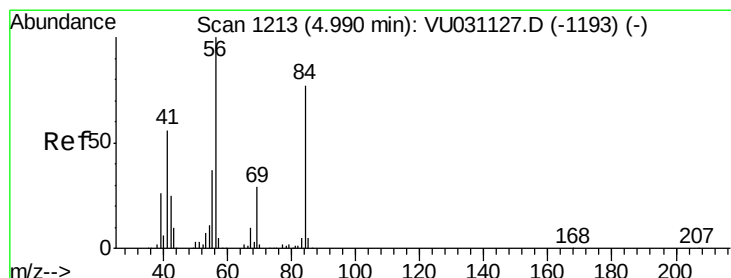
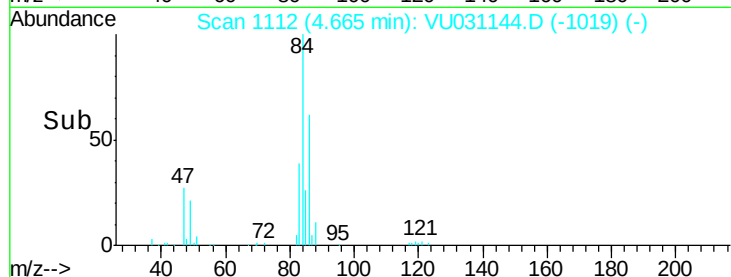
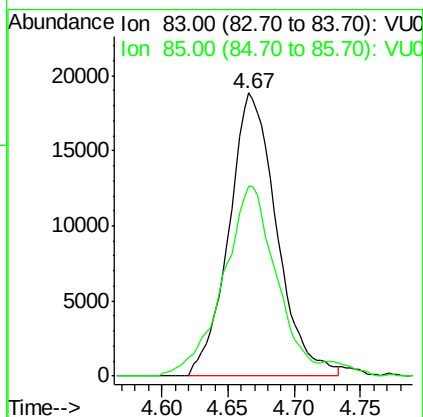
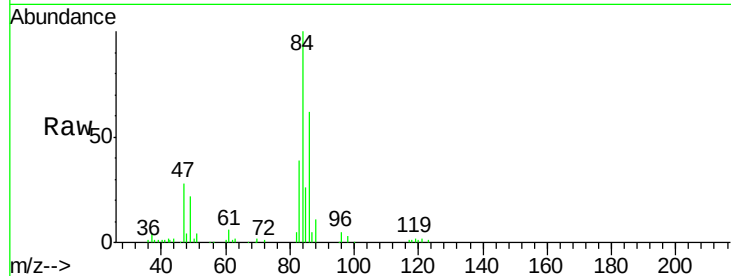
85 67.0 45.8 85.0

Manual Integrations

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#29

Cyclohexane

Concen: 3.543 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

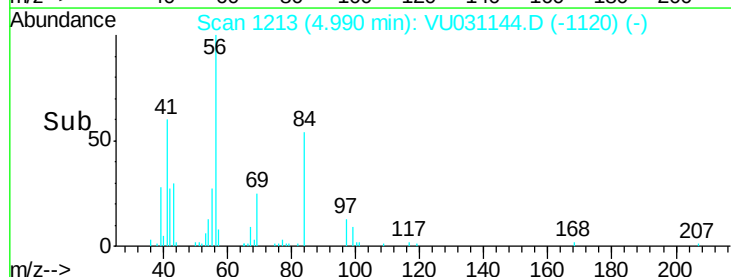
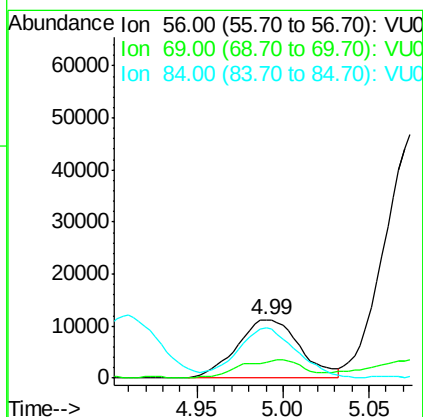
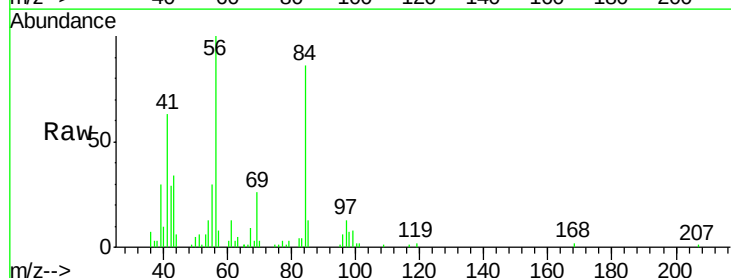
Tgt Ion: 56 Resp: 28771

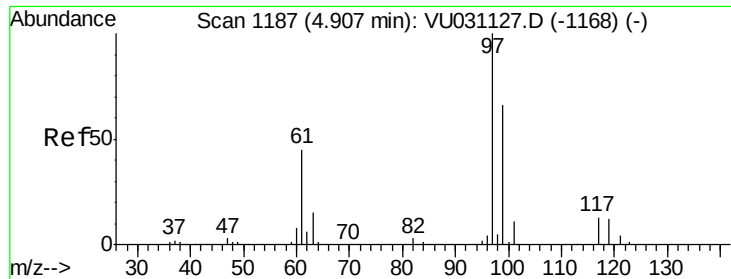
Ion Ratio Lower Upper

56 100

69 19.1 22.0 33.0#

84 78.1 58.2 87.2





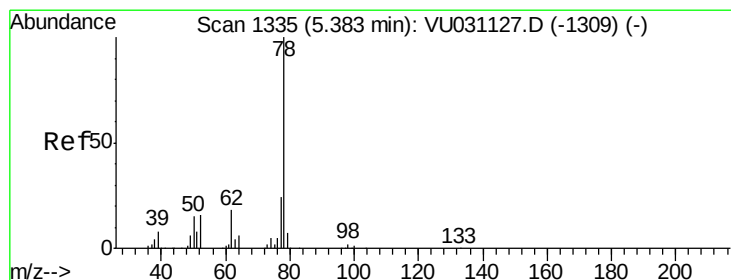
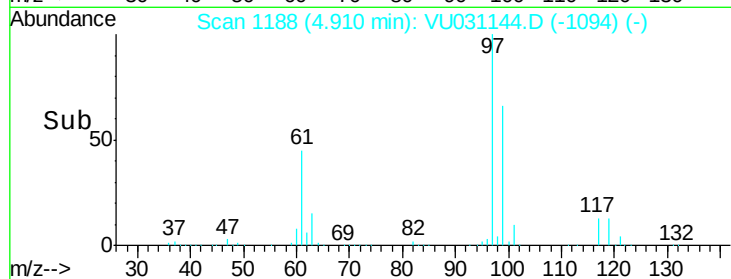
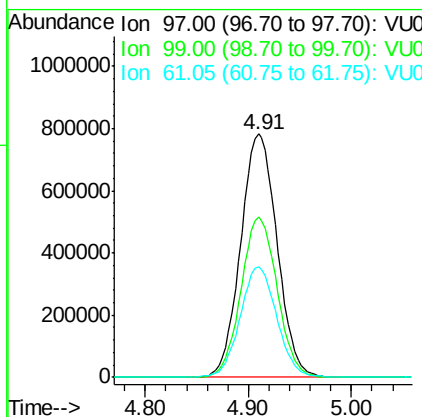
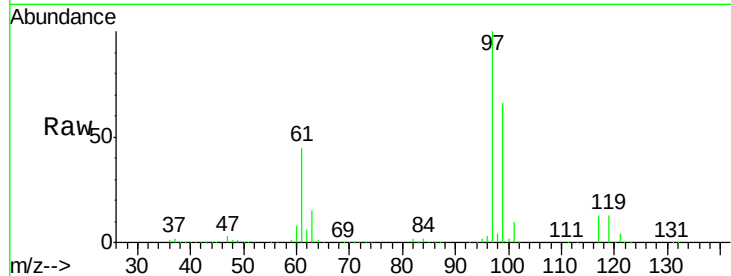
#30
 1,1,1-Trichloroethane
 Concen: 276.524 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Instrument :
 MSVOA_U
 ClientSampled :
 BFC34

Tot Ion: 97 Resp: 1919849
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.4 77.2
 61 45.1 37.1 55.7

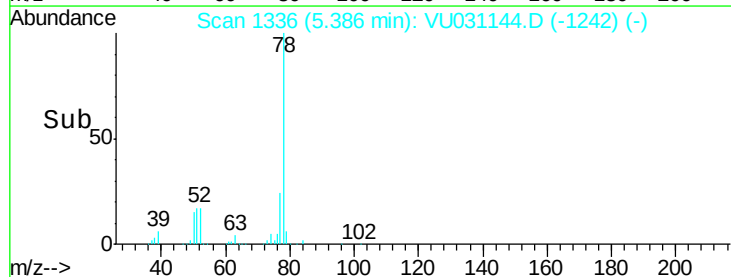
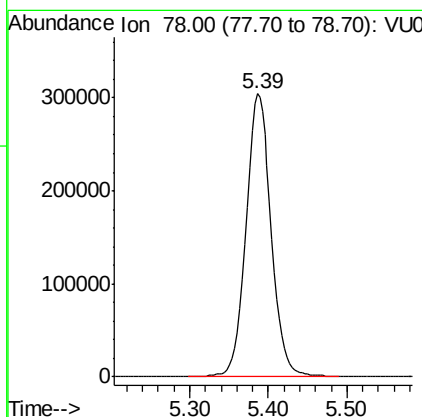
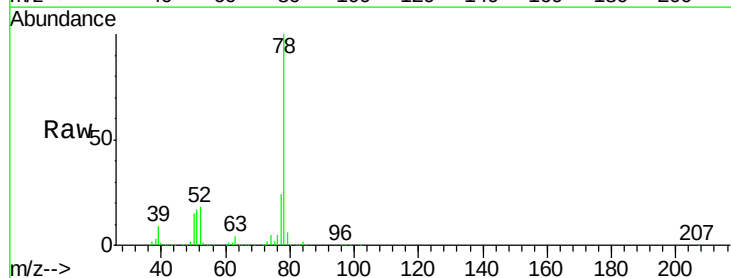
Manual Integrations
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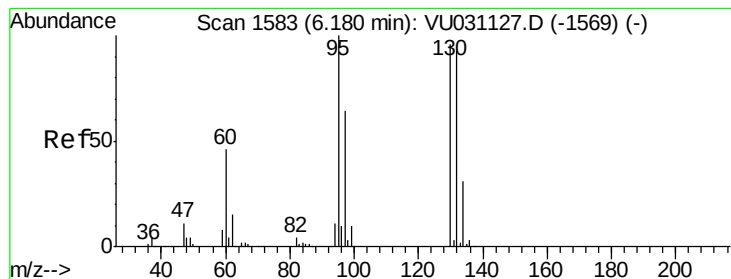
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#33
 Benzene
 Concen: 36.950 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Tgt Ion: 78 Resp: 688859





#34

Trichloroethene

Concen: 12587.944 ug/L m

RT: 6.17 min Scan# 1581

Delta R.T. -0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

Tot Ion: 95 Resp: 57557850

Ion Ratio Lower Upper

95 100

97 67.2 44.5 82.7

132 94.1 61.5 114.1

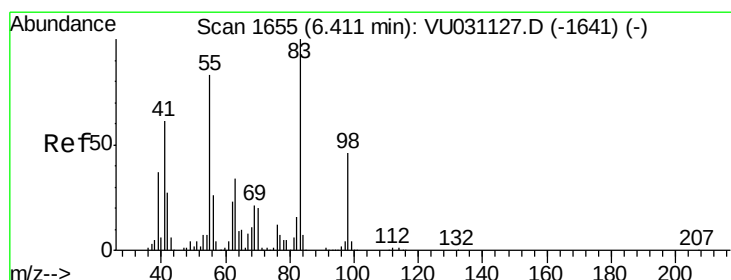
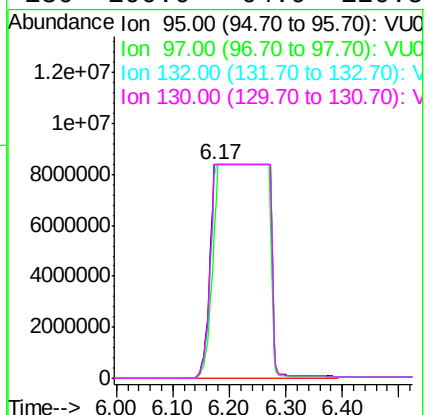
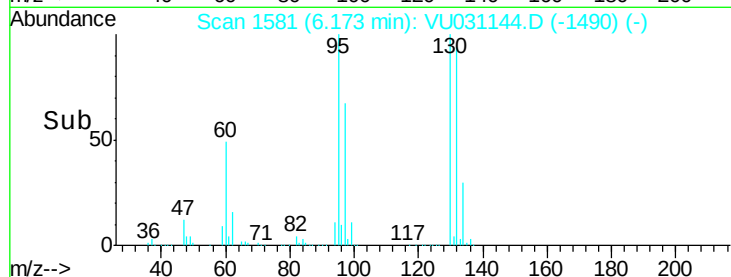
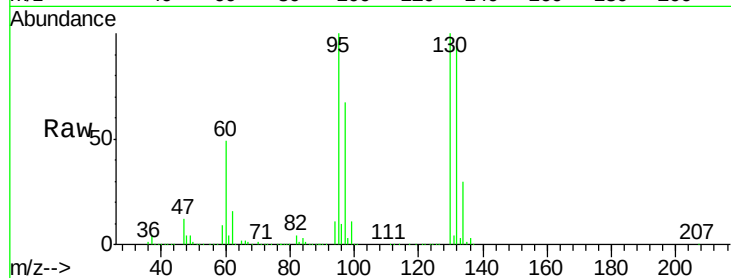
130 100.0 64.9 120.5

Manual Integrations

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#35

Methylcyclohexane

Concen: 25.936 ug/L

RT: 6.42 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

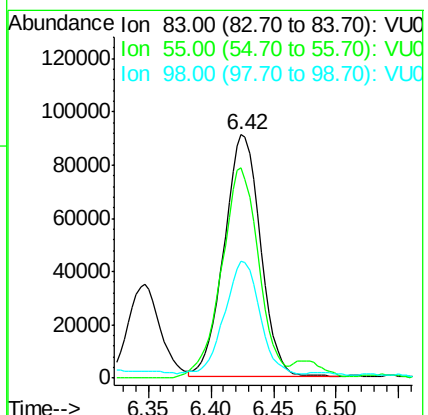
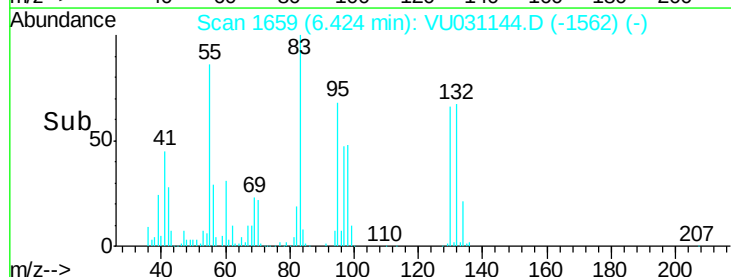
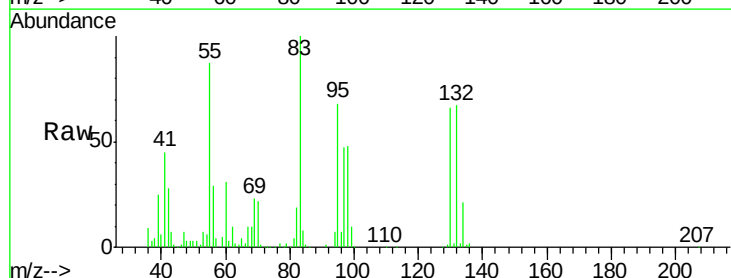
Tgt Ion: 83 Resp: 183016

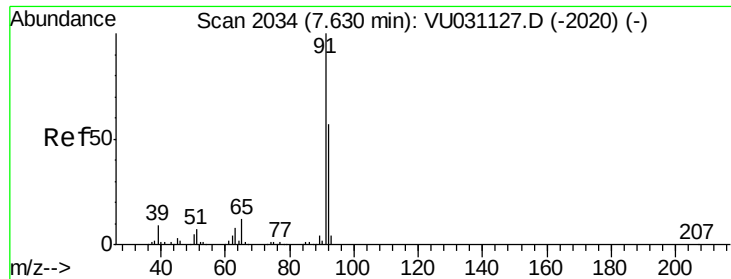
Ion Ratio Lower Upper

83 100

55 87.9 71.6 107.4

98 44.3 35.4 53.0





#42

Toluene

Concen: 0.912 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

Tot Ion: 91 Resp: 17360

Ion Ratio Lower Upper

91 100

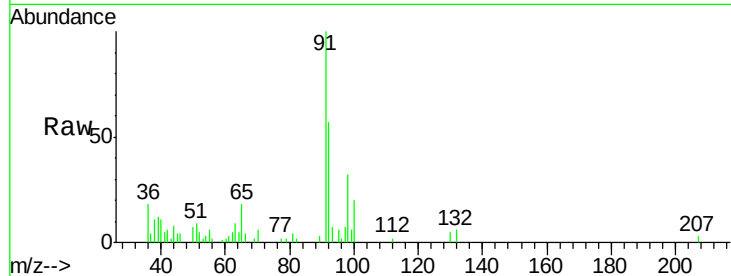
92 57.4 40.0 74.4

Manual Integrations

APPROVED

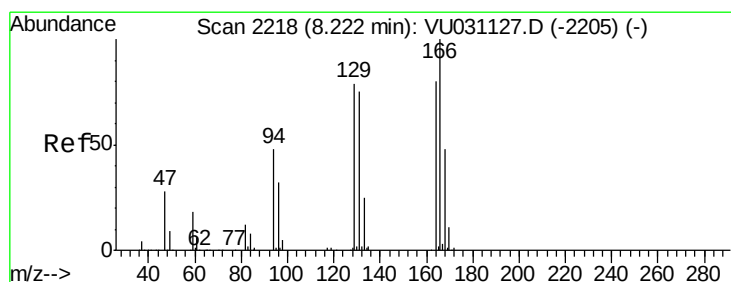
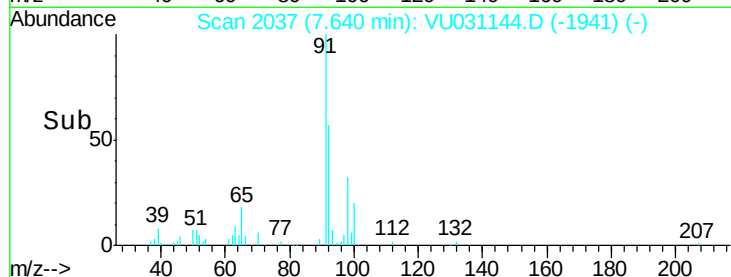
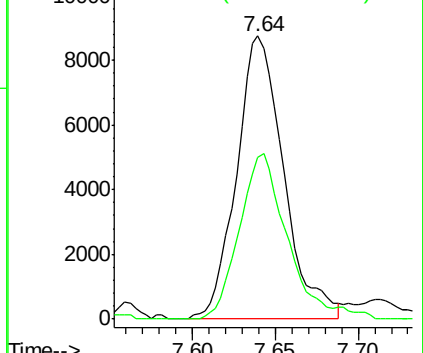
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Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#46

Tetrachloroethene

Concen: 71.919 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Tgt Ion: 164 Resp: 239083

Ion Ratio Lower Upper

164 100

129 95.9 67.4 125.2

131 93.1 65.9 122.5

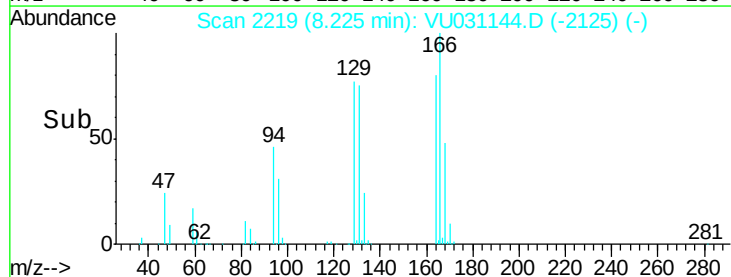
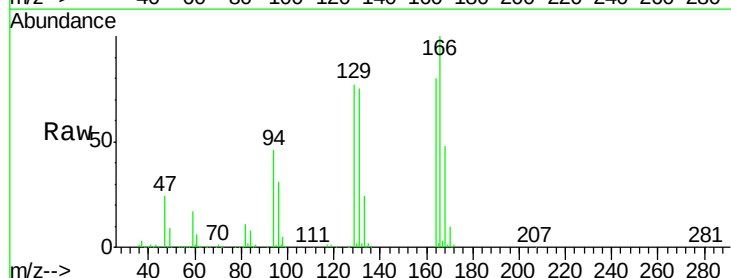
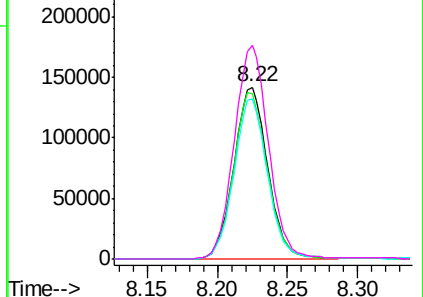
166 124.3 88.6 164.6

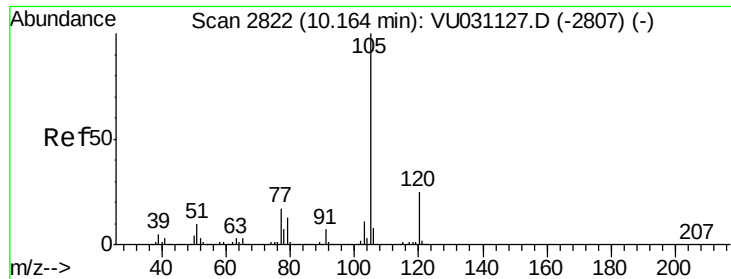
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#56

Isopropylbenzene

Concen: 4.879 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

Tot Ion:	105	Resp:	92442
Ion Ratio	Lower	Upper	
105	100		
120	25.7	20.4	30.6
77	16.7	13.4	20.2

Manual Integrations
APPROVED

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4/15/2019 12:48:31 PM

