

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102619\
 Data File : VU035519.D
 Acq On : 26 Oct 2019 15:34
 Operator : JC/SP
 Sample : K5537-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BF6L8

Quant Time: Oct 30 02:23:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 02:26:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	646228	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	613183	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	263946	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	223273	43.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.62%
7) Chloroethane-d5	1.93	69	188823	44.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.22%
11) 1,1-Dichloroethene-d2	2.59	63	283282	33.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.54%
21) 2-Butanone-d5	4.69	46	364885	108.52	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.52%
24) Chloroform-d	5.11	84	370145	43.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.74%
26) 1,2-Dichloroethane-d4	5.75	65	244728	45.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.76%
32) Benzene-d6	5.77	84	789083	48.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.36%
36) 1,2-Dichloropropane-d6	6.73	67	258013	48.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.54%
41) Toluene-d8	7.93	98	712173	47.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.10%
43) trans-1,3-Dichloropropene-	8.21	79	121690	48.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.24%
47) 2-Hexanone-d5	8.68	63	257448	130.37	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	130.37%#
57) 1,1,2,2-Tetrachloroethane-	10.78	84	348967	46.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.76%
64) 1,2-Dichlorobenzene-d4	12.22	152	249479	48.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.06%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.67	43	71329	21.172	ug/L	99
15) Methyl Acetate	2.99	43	7589	1.371	ug/L #	69
16) Methylene chloride	3.09	84	19674	3.866	ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	39211	7.975	ug/L	93
22) 2-Butanone	4.77	43	23461	5.565	ug/L	99
29) Cyclohexane	5.43	56	26140	3.763	ug/L	95
33) Benzene	5.82	78	285699	15.448	ug/L	100
35) Methylcyclohexane	6.80	83	25368	4.016	ug/L	92
40) 4-Methyl-2-pentanone	7.84	43	16185	2.348	ug/L	96
42) Toluene	8.01	91	1772895	92.951	ug/L	99
51) Chlorobenzene	9.48	112	31364	2.531	ug/L	93
52) Ethylbenzene	9.60	91	835222	41.102	ug/L	99
53) m,p-Xylene	9.72	106	883972	117.360	ug/L	100
54) o-xylene	10.13	106	675824	91.694	ug/L	100
56) Isopropylbenzene	10.51	105	64592	3.483	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	8538	0.996	ug/L	96
65) 1,2-Dichlorobenzene	12.24	146	62565	7.294	ug/L	96

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Quant Title : VOC Analysis
QLast Update : Wed Oct 30 02:26:55 2019
Response via : Initial Calibration

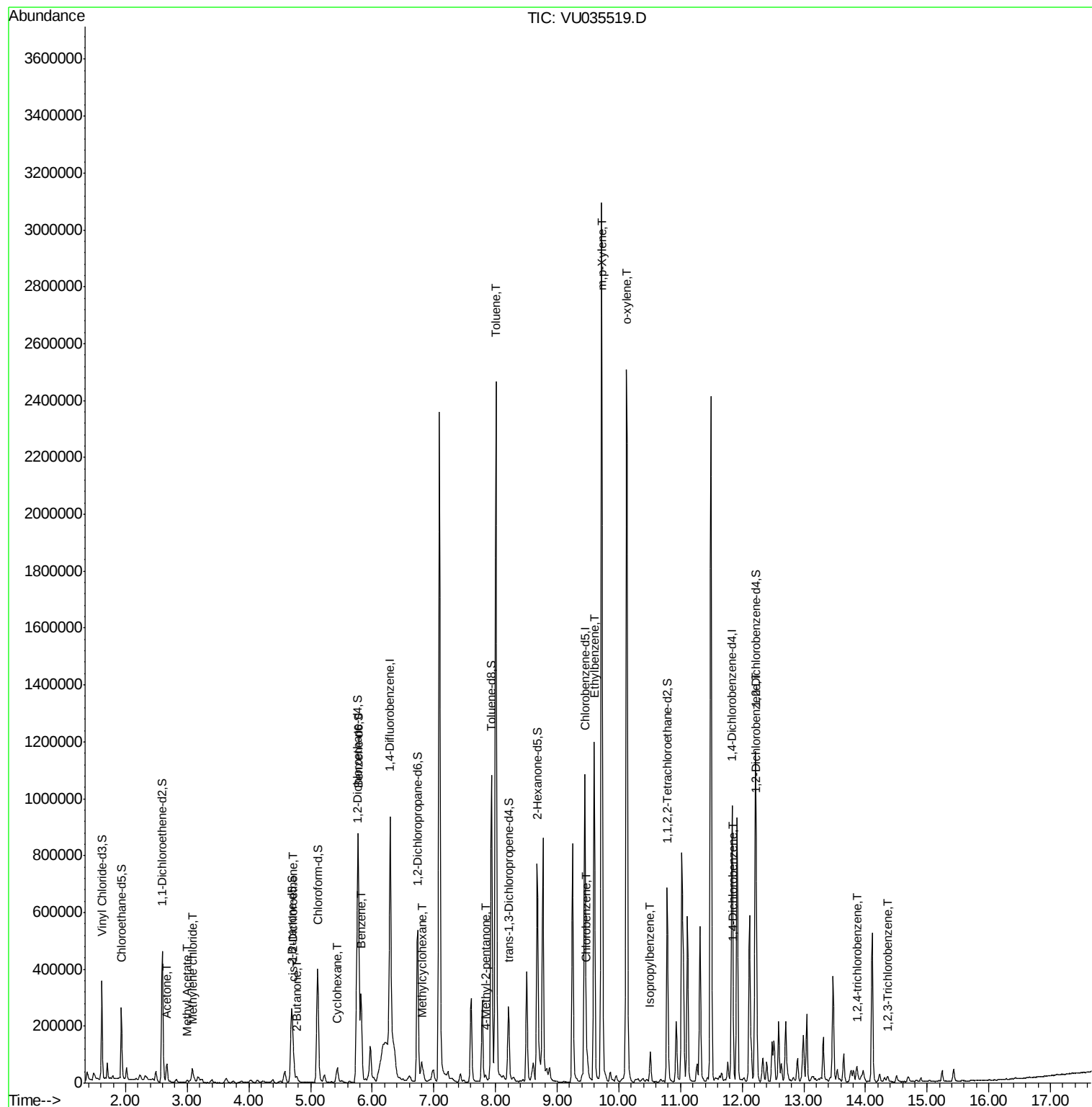
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.86	180	4176	1.545	ug/L #	87
70) 1,2,3-Trichlorobenzene	14.35	180	3855	1.380	ug/L #	78

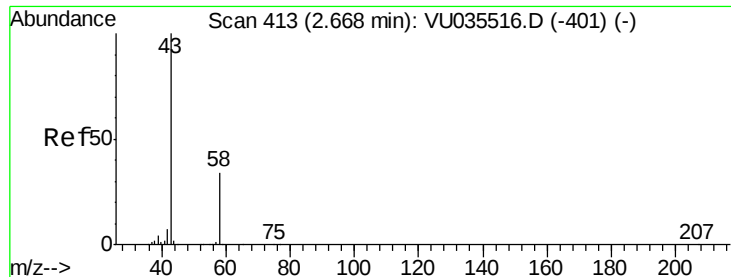
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102619WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 30 02:26:55 2019
Response via : Initial Calibration





#13

Acetone

Concen: 21.172 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

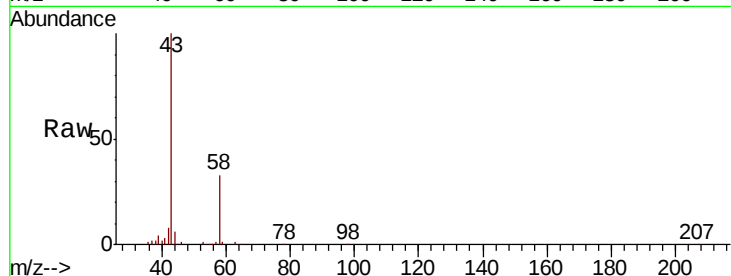
BF6L8

Tot Ion: 43 Resp: 71329

Ion Ratio Lower Upper

43 100

58 33.7 0.0 66.6



Abundance Ion 43.00 (42.70 to 43.70): VU035519.D (-320) (-)

Ion 58.00 (57.70 to 58.70): VU035519.D (-320) (-)

2.67

40000

30000

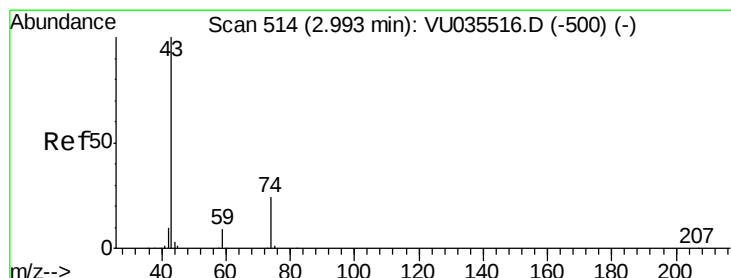
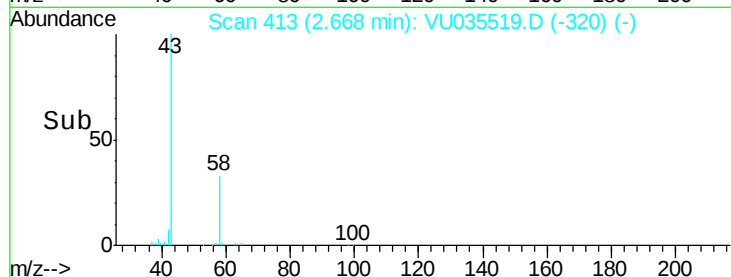
20000

10000

0

Time-->

2.60 2.65 2.70 2.75



#15

Methyl Acetate

Concen: 1.371 ug/L

RT: 2.99 min Scan# 514

Delta R.T. -0.00 min

Lab File: VU035519.D

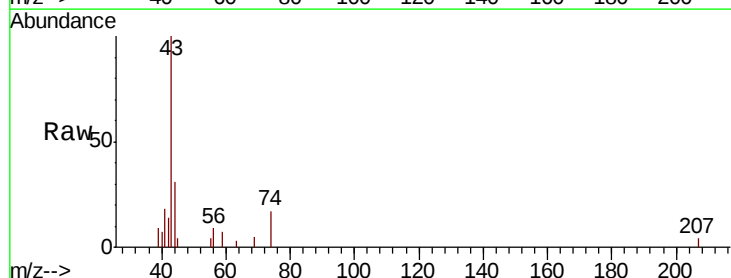
Acq: 26 Oct 2019 15:34

Tgt Ion: 43 Resp: 7589

Ion Ratio Lower Upper

43 100

74 8.4 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VU035519.D (-421) (-)

Ion 74.00 (73.70 to 74.70): VU035519.D (-421) (-)

2.99

4000

3000

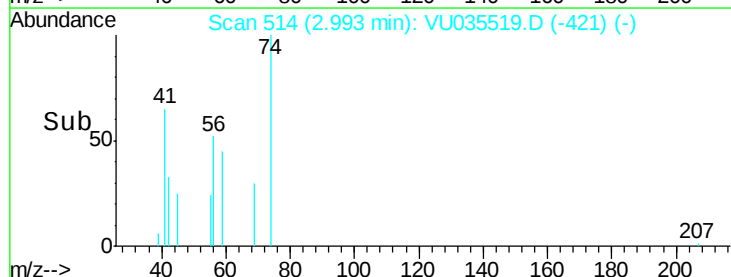
2000

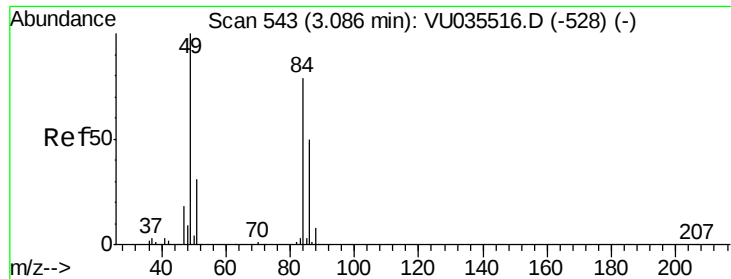
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0

Time-->

2.95 3.00 3.05

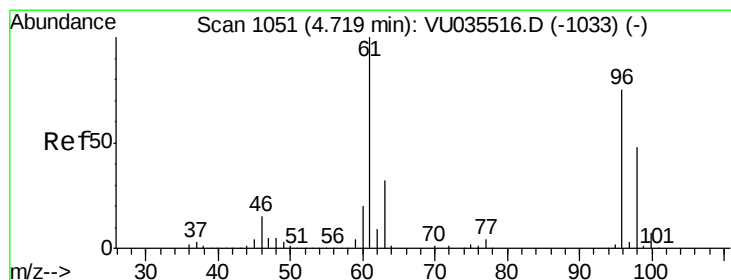
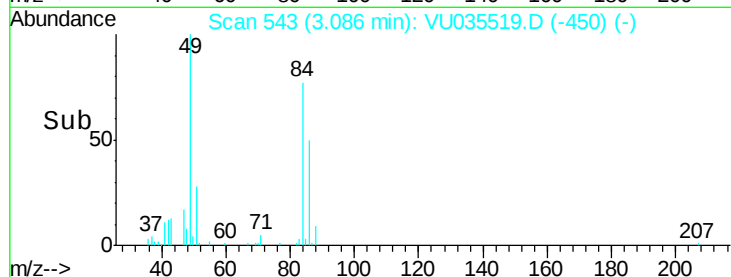
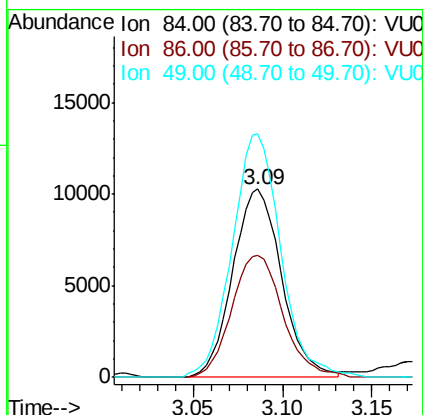
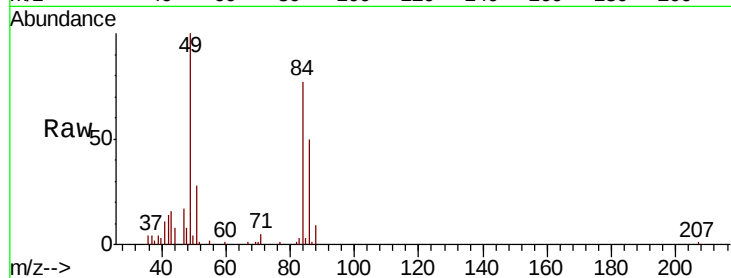




#16
Methvlene chloride
Concen: 3.866 ug/L
RT: 3.09 min Scan# 543
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

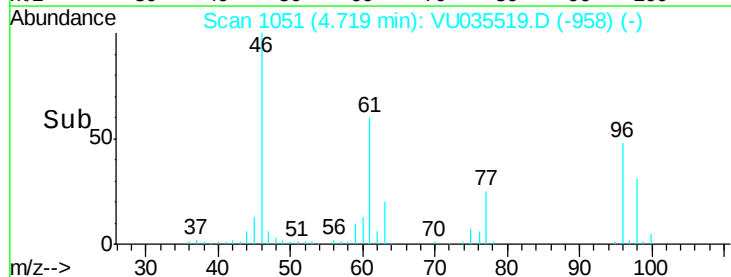
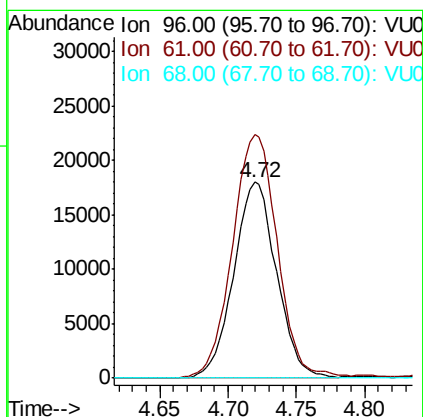
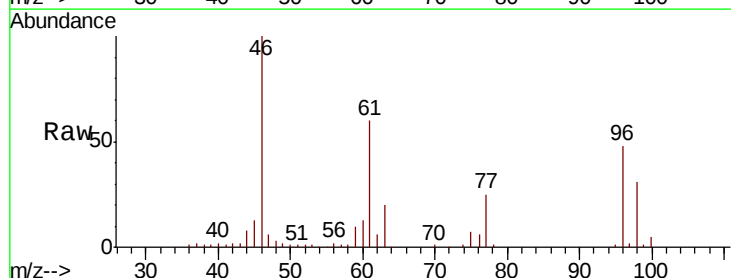
Instrument :
MSVOA_U
ClientSampleId :
BF6L8

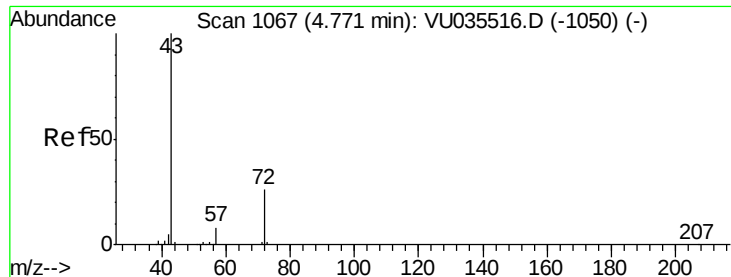
Tot Ion: 84 Resp: 19674
Ion Ratio Lower Upper
84 100
86 64.7 45.5 84.5
49 129.4 88.3 163.9



#20
cis-1,2-Dichloroethene
Concen: 7.975 ug/L
RT: 4.72 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

Tgt Ion: 96 Resp: 39211
Ion Ratio Lower Upper
96 100
61 124.4 93.0 172.8
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.565 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

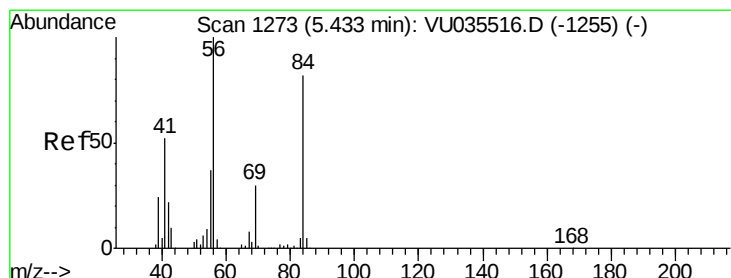
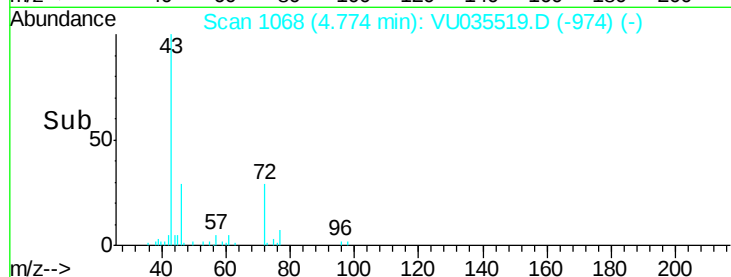
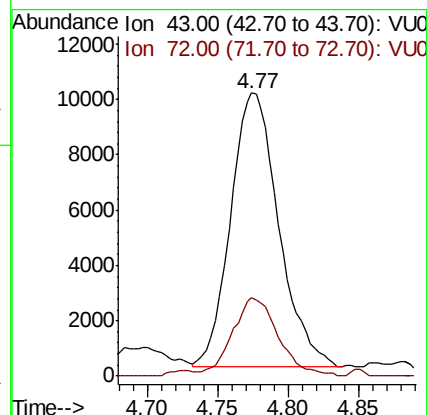
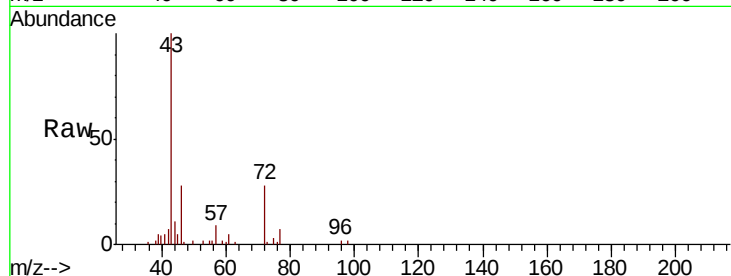
BF6L8

Tot Ion: 43 Resp: 23461

Ion Ratio Lower Upper

43 100

72 27.4 13.4 40.1



#29

Cyclohexane

Concen: 3.763 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

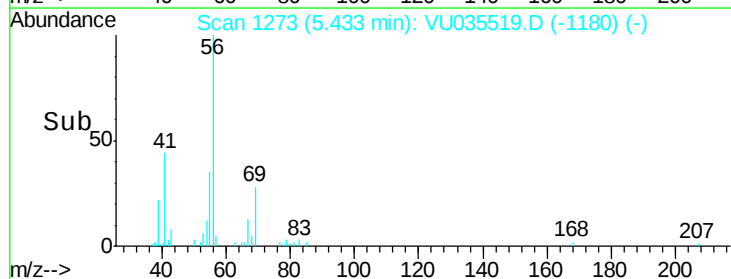
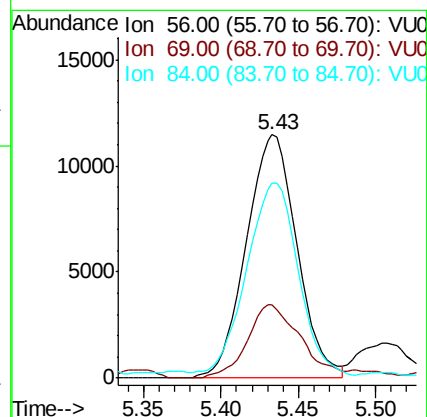
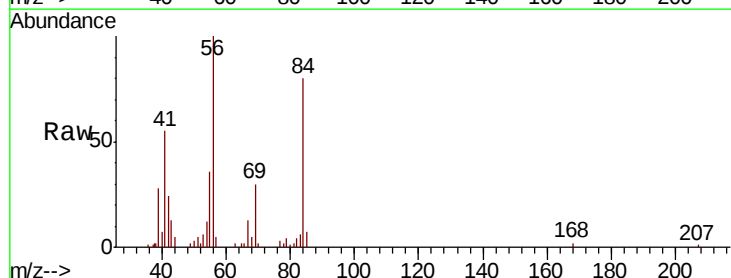
Tgt Ion: 56 Resp: 26140

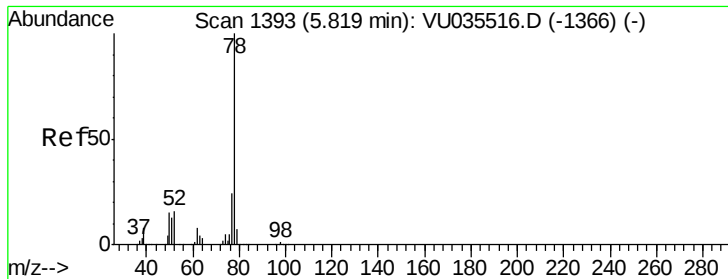
Ion Ratio Lower Upper

56 100

69 31.5 23.7 35.5

84 79.8 67.7 101.5





#33

Benzene

Concen: 15.448 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

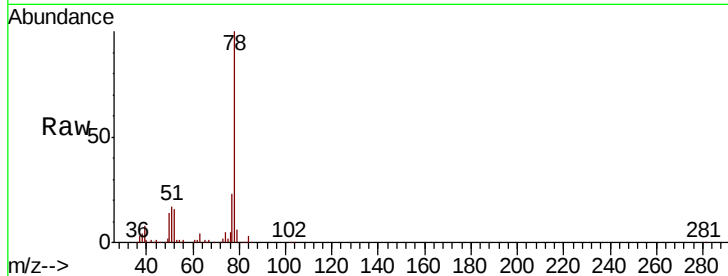
Instrument :

MSVOA_U

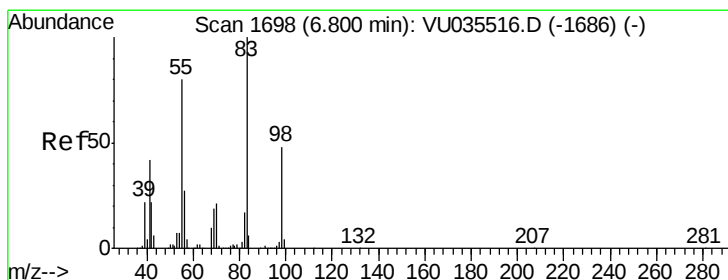
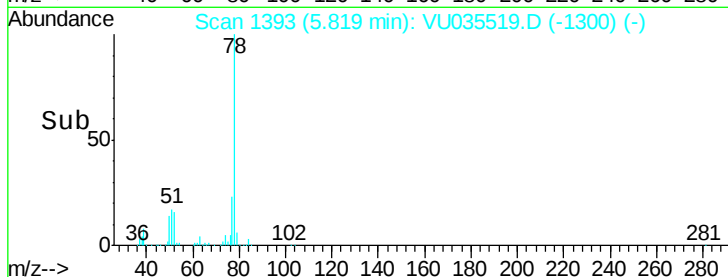
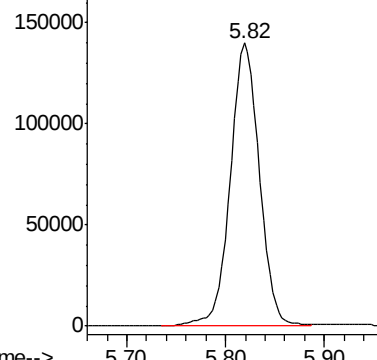
ClientSampleId :

BF6L8

Tgt Ion: 78 Resp: 285699



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 4.016 ug/L

RT: 6.80 min Scan# 1699

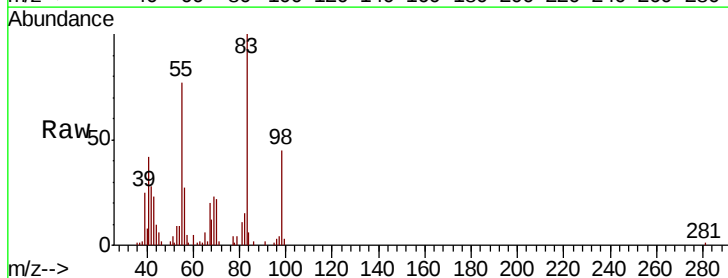
Delta R.T. 0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Tgt Ion: 83 Resp: 25368

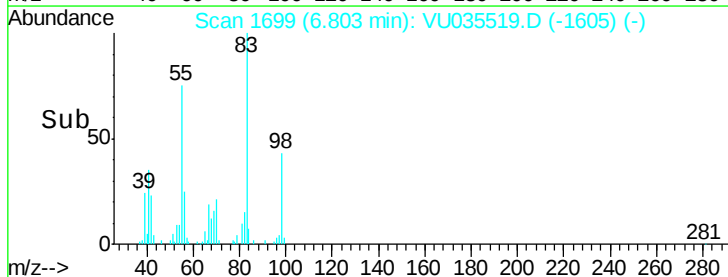
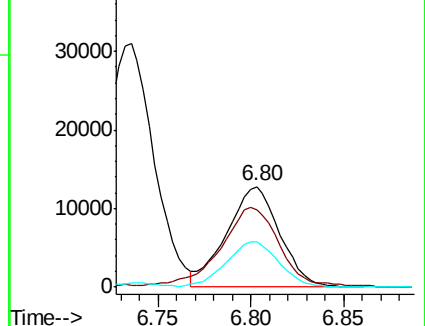
Ion	Ratio	Lower	Upper
83	100		
55	89.1	65.1	97.7
98	44.7	38.9	58.3

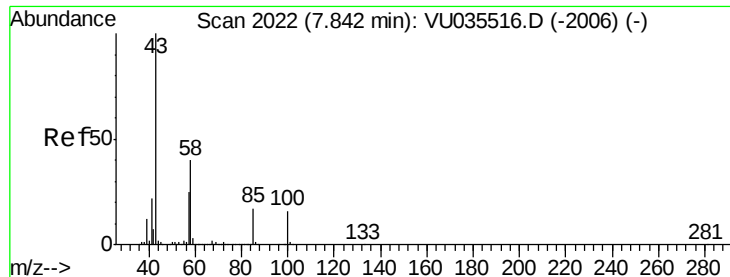


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

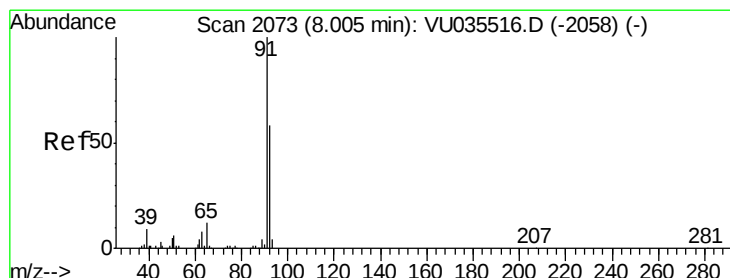
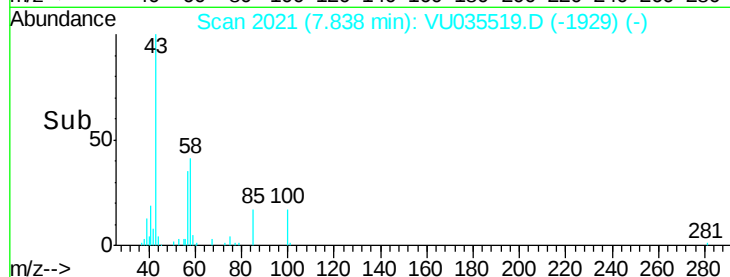
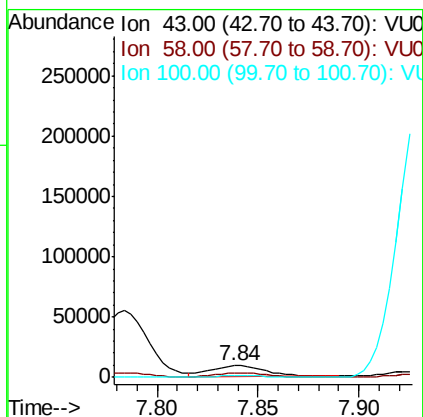
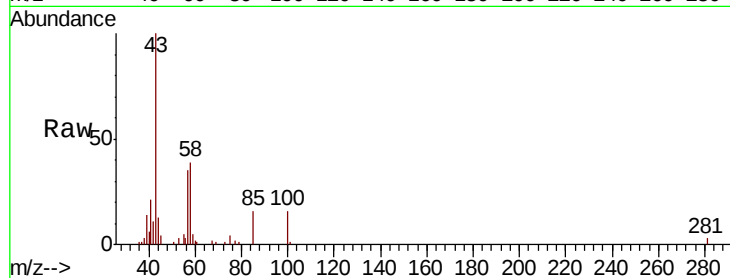




#40
4-Methyl-2-pentanone
Concen: 2.348 ug/L
RT: 7.84 min Scan# 2021
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

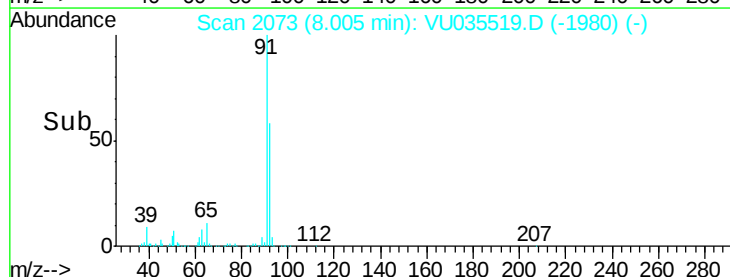
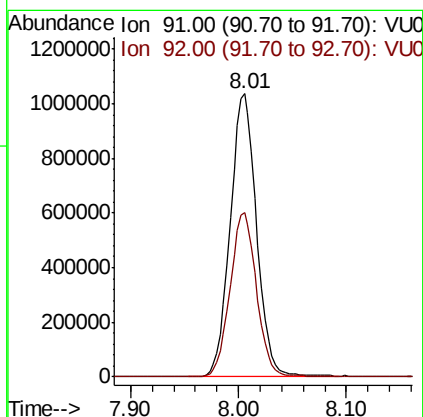
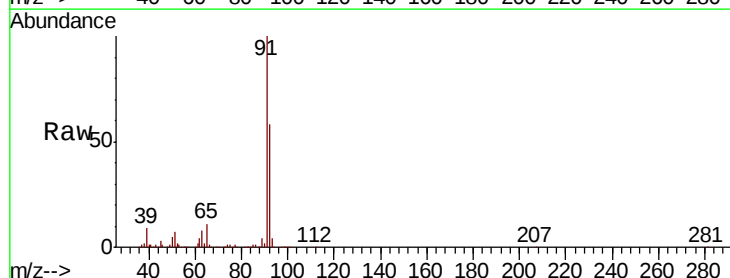
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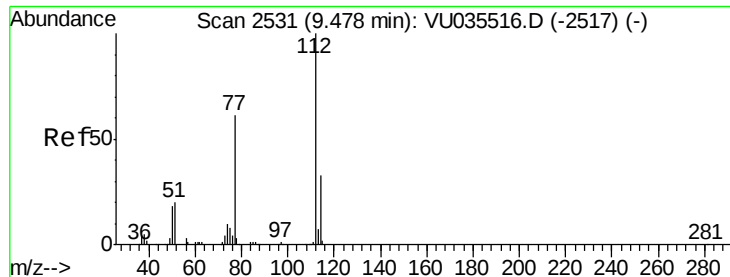
Tot Ion: 43 Resp: 16185
Ion Ratio Lower Upper
43 100
58 42.9 31.9 47.9
100 15.7 12.3 18.5



#42
Toluene
Concen: 92.951 ug/L
RT: 8.01 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

Tgt Ion: 91 Resp: 1772895
Ion Ratio Lower Upper
91 100
92 58.0 41.0 76.2

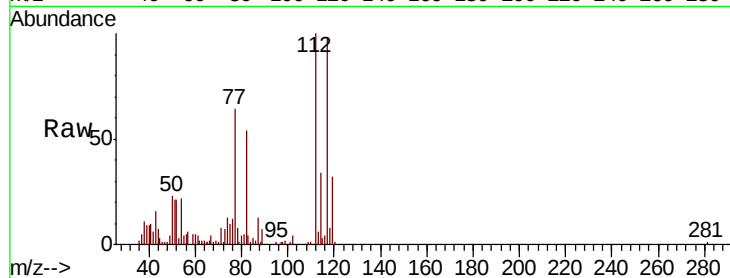




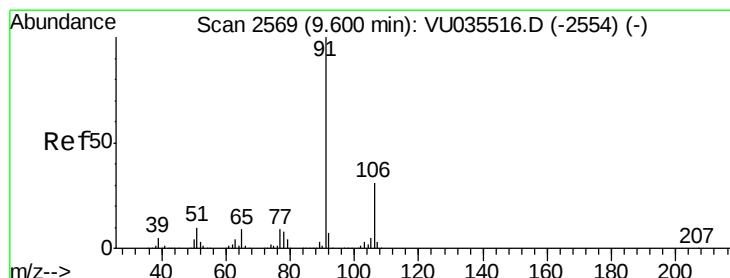
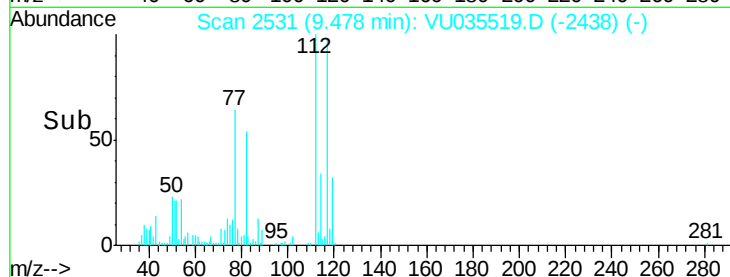
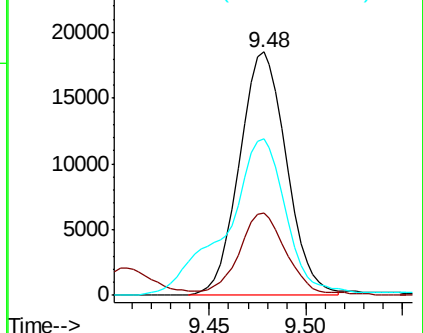
#51
Chlorobenzene
Concen: 2.531 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

Instrument :
MSVOA_U
ClientSampleId :
BF6L8

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.9	22.1	41.1
77	64.3	46.7	70.1

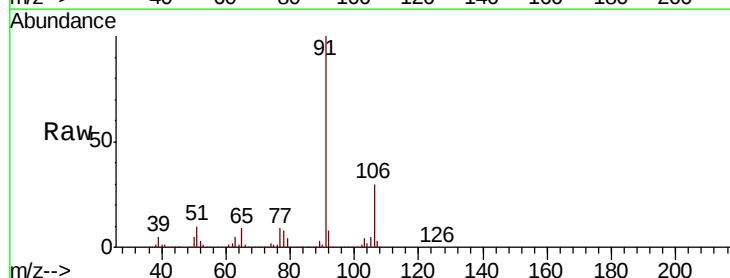


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

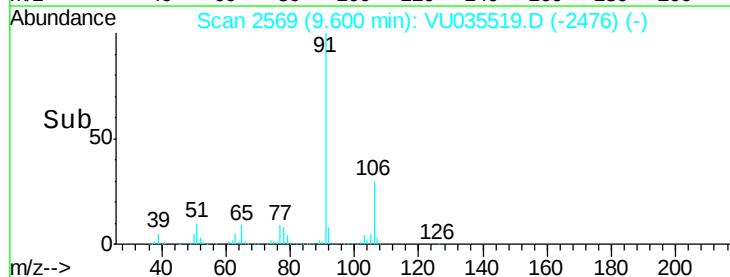
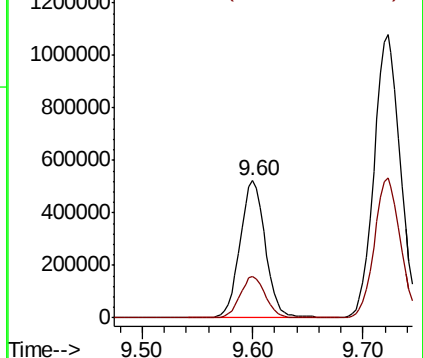


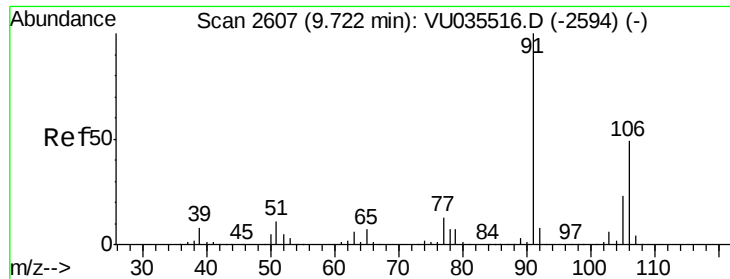
#52
Ethylbenzene
Concen: 41.102 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. -0.00 min
Lab File: VU035519.D
Acq: 26 Oct 2019 15:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.2	21.6	40.0



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 117.360 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

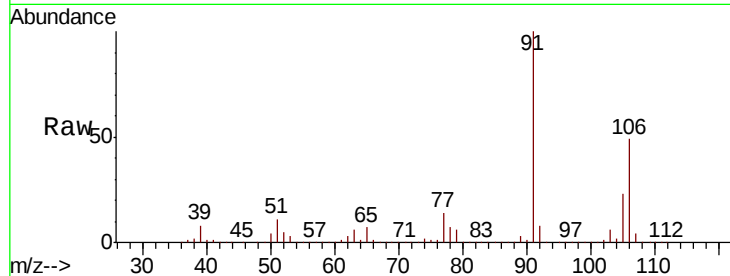
BF6L8

Tot Ion:106 Resp: 883972

Ion Ratio Lower Upper

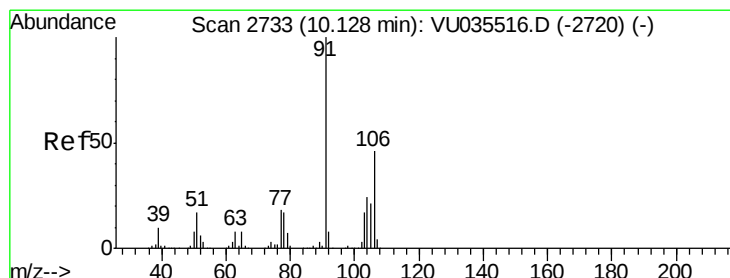
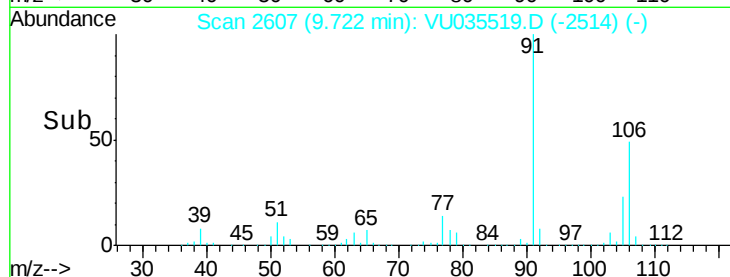
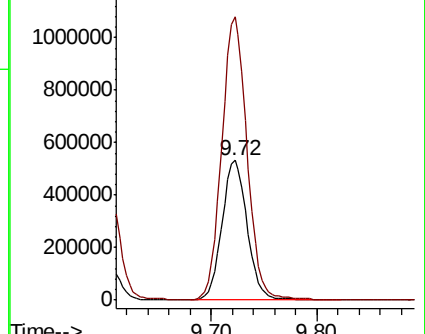
106 100

91 202.3 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 91.694 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU035519.D

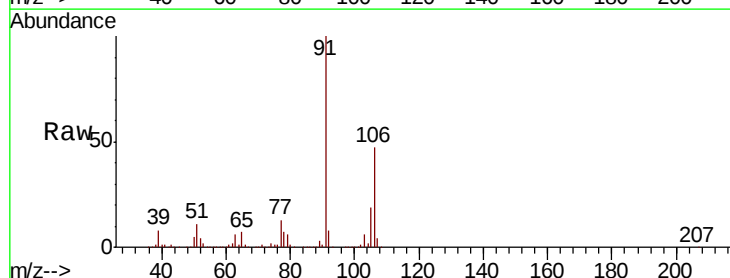
Acq: 26 Oct 2019 15:34

Tgt Ion:106 Resp: 675824

Ion Ratio Lower Upper

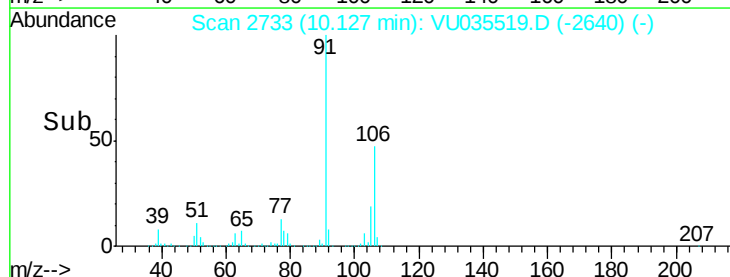
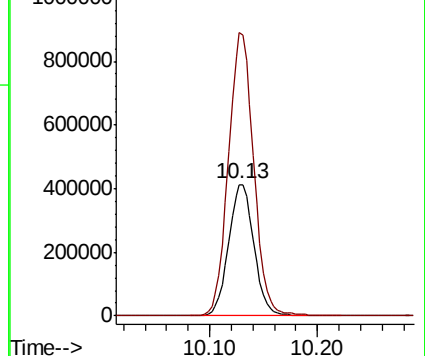
106 100

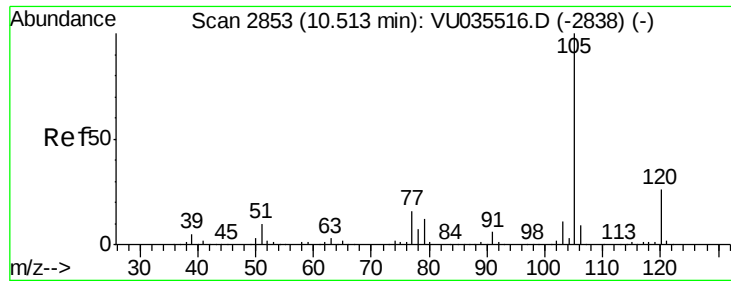
91 214.9 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 3.483 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampled :

BF6L8

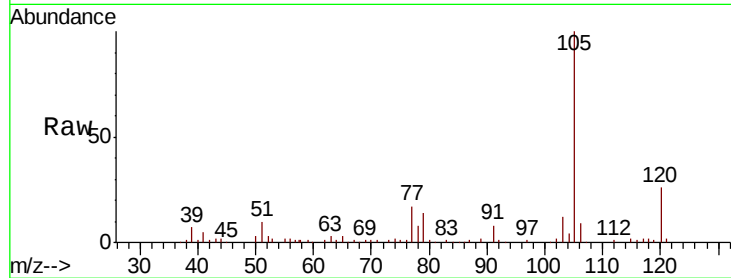
Tot Ion:105 Resp: 64592

Ion Ratio Lower Upper

105 100

120 26.8 21.0 31.4

77 17.2 12.8 19.2

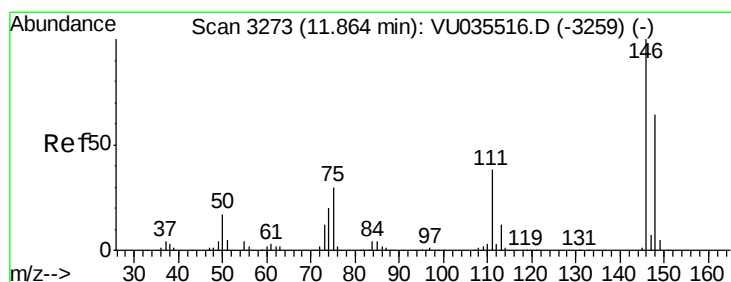
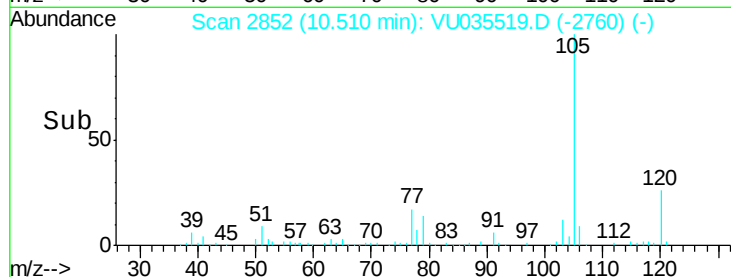


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.996 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

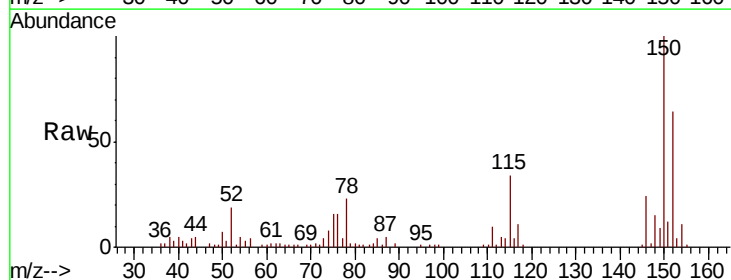
Tgt Ion:146 Resp: 8538

Ion Ratio Lower Upper

146 100

111 44.4 26.7 49.5

148 63.4 44.4 82.4

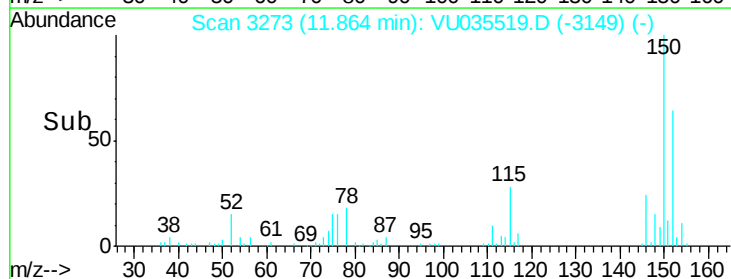


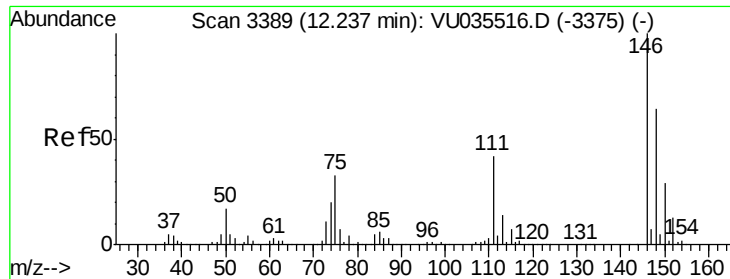
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

Time-->





#65

1,2-Dichlorobenzene

Concen: 7.294 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

BF6L8

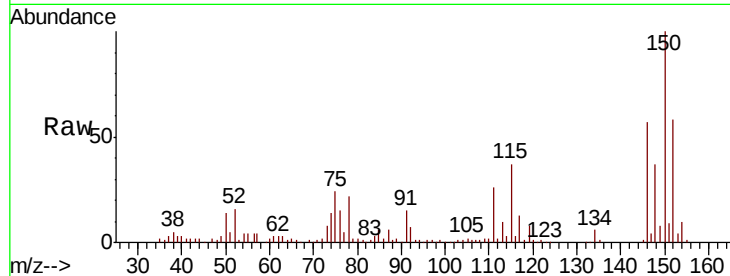
Tot Ion:146 Resp: 62565

Ion Ratio Lower Upper

146 100

111 46.3 33.6 50.4

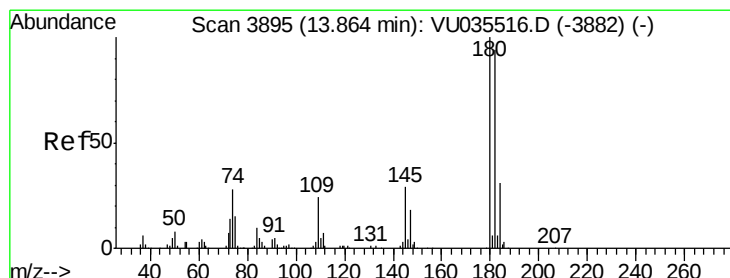
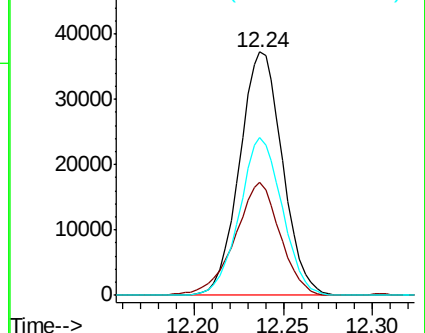
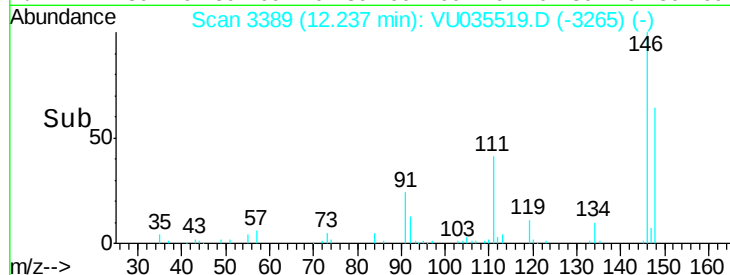
148 64.7 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 1.545 ug/L

RT: 13.86 min Scan# 3895

Delta R.T. -0.00 min

Lab File: VU035519.D

Acq: 26 Oct 2019 15:34

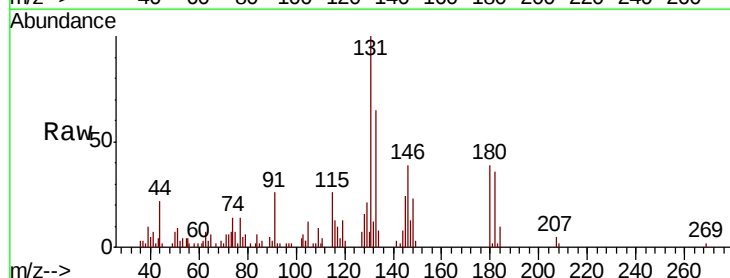
Tgt Ion:180 Resp: 4176

Ion Ratio Lower Upper

180 100

182 91.6 75.0 112.4

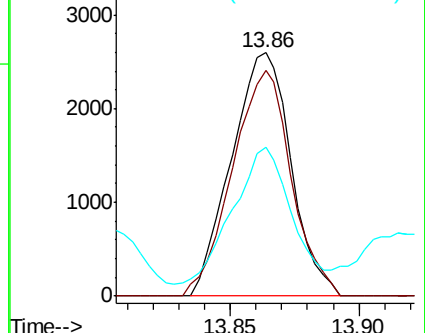
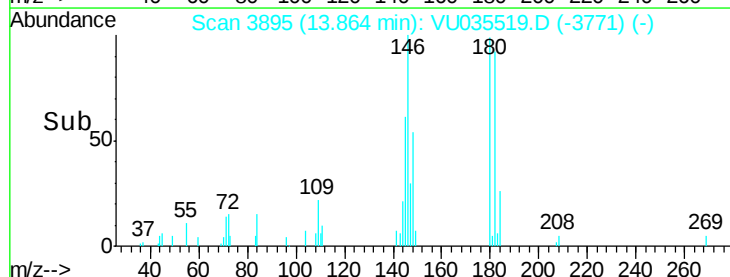
145 54.2 22.6 34.0#

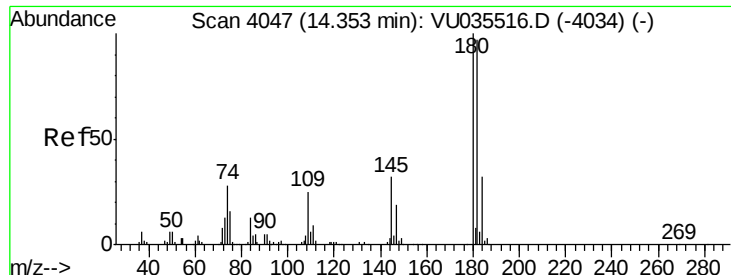


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 1.380 ug/L
 RT: 14.35 min Scan# 4047
 Delta R.T. -0.00 min
 Lab File: VU035519.D
 Acq: 26 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 BF6L8

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.7	76.0	114.0
145	71.3	24.9	37.3

