

Data File : VU034901.D
Acq On : 01 Oct 2019 20:30
Operator : JC/SP
Sample : K5028-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDK8

Quant Time: Oct 02 01:55:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 02 01:50:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	353183	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	339268	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	153837	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	102970	41.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.20%
7) Chloroethane-d5	1.67	69	91437	43.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.94%
11) 1,1-Dichloroethene-d2	2.26	63	158402	35.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.78%
21) 2-Butanone-d5	4.15	46	281367	116.49	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.49%
24) Chloroform-d	4.62	84	224322	46.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.29	65	167269	47.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.84%
32) Benzene-d6	5.32	84	442031	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.74%
36) 1,2-Dichloropropane-d6	6.31	67	156626	49.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.66%
41) Toluene-d8	7.54	98	410882	47.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.56%
43) trans-1,3-Dichloropropene-	7.83	79	68274	48.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.10%
47) 2-Hexanone-d5	8.29	63	190311	125.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	125.21%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	222330	49.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.04%
64) 1,2-Dichlorobenzene-d4	11.84	152	151240	49.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.82%

Target Compounds

					Qvalue
9) Trichlorofluoromethane	1.87	101	24463	9.206 ug/L	99
12) 1,1-Dichloroethene	2.26	96	1113	0.840 ug/L #	1
13) Acetone	2.31	43	124580	64.894 ug/L	99
15) Methyl Acetate	2.61	43	4216	1.376 ug/L	93
16) Methylene chloride	2.68	84	70169	36.266 ug/L	99
22) 2-Butanone	4.25	43	46350	18.589 ug/L	98
33) Benzene	5.37	78	61666	8.522 ug/L	100
35) Methylcyclohexane	6.39	83	3264	1.438 ug/L #	73
40) 4-Methyl-2-pentanone	7.40	43	58717	11.833 ug/L #	55
42) Toluene	7.62	91	12652	1.625 ug/L	100
48) 2-Hexanone	8.29	43	88865	23.600 ug/L #	52
51) Chlorobenzene	9.10	112	28679	5.436 ug/L	96
52) Ethylbenzene	9.23	91	107591	11.772 ug/L	99
53) m,p-Xylene	9.36	106	136448	42.730 ug/L	97
54) o-xylene	9.76	106	246541	73.208 ug/L	98
55) Styrene	9.76	104	13724	2.322 ug/L #	1
56) Isopropylbenzene	10.14	105	48986	5.207 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100219\
Quantitation Report (Not Reviewed)

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QLast Update : Wed Oct 02 01:50:17 2019
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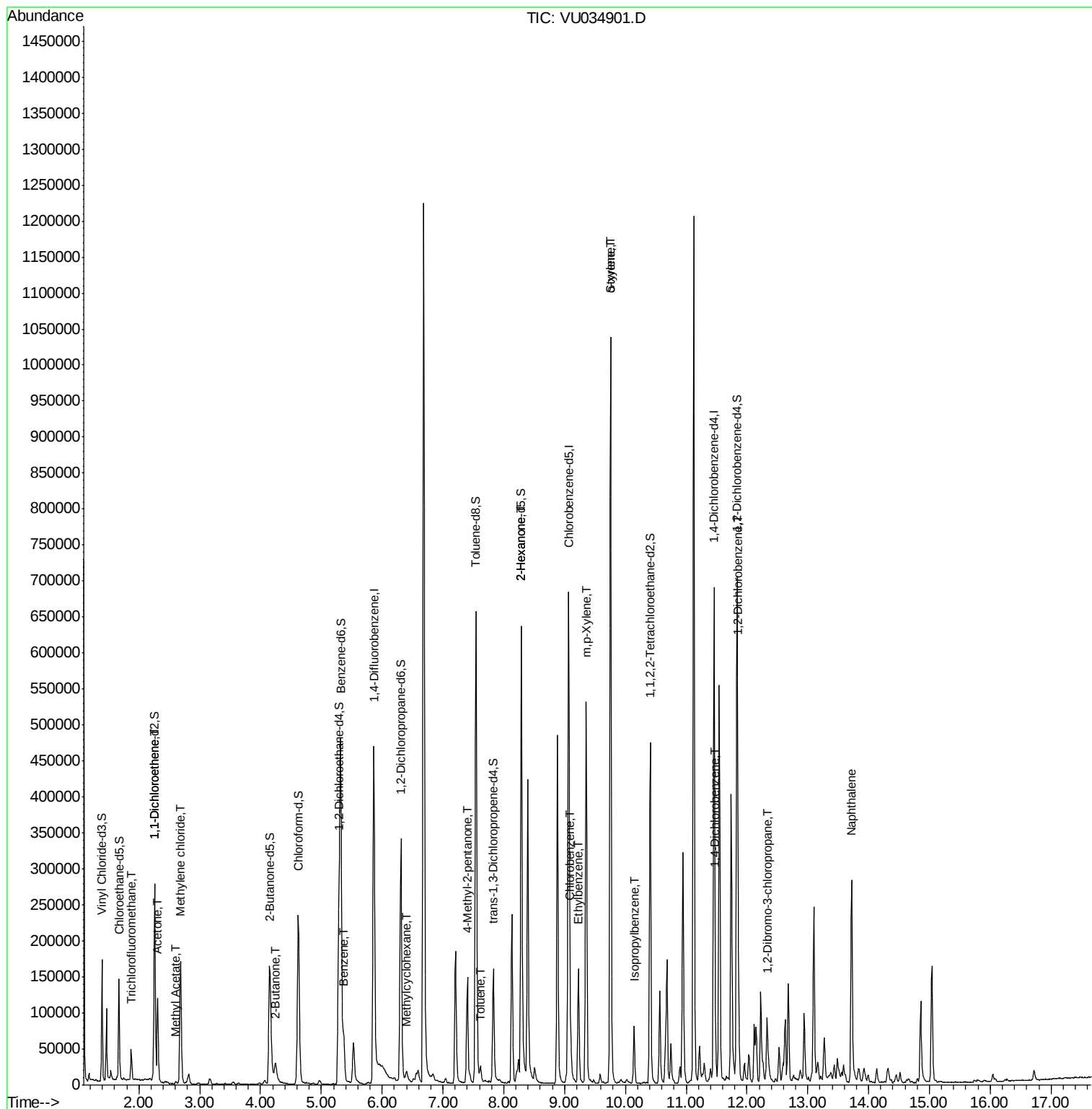
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.49	146	4343	1.038	ug/L	90
65) 1,2-Dichlorobenzene	11.85	146	43929	9.842	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.33	75	1219	1.304	ug/L #	8
69) Naphthalene	13.72	128	227268	30.552	ug/L	99

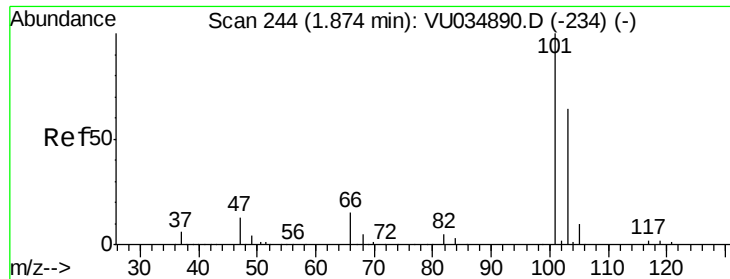
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#9

Trichlorofluoromethane

Concen: 9.206 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

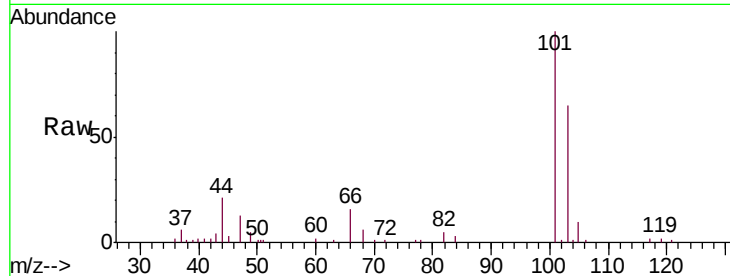
BFDK8

Tgt Ion:101 Resp: 24463

Ion Ratio Lower Upper

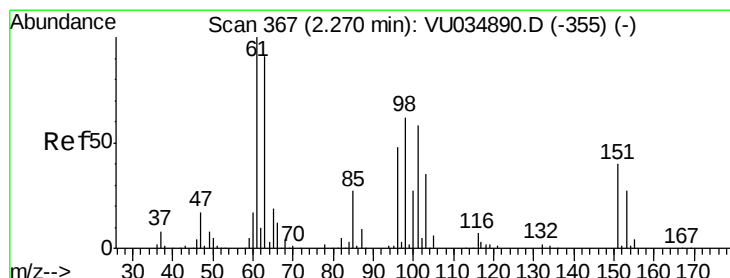
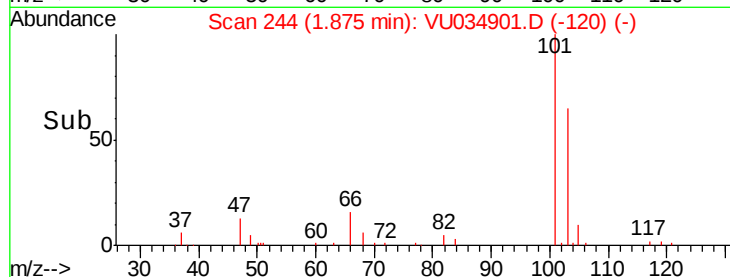
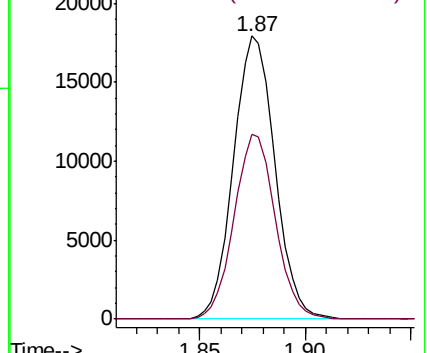
101 100

103 65.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1-Dichloroethene

Concen: 0.840 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

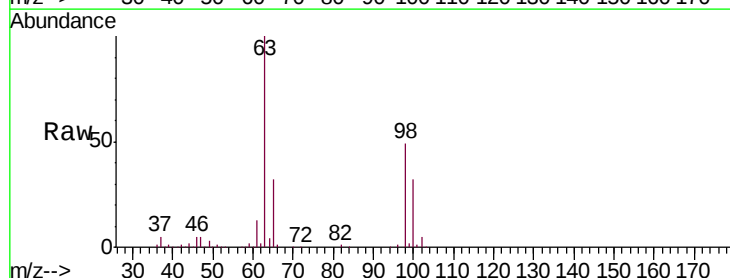
Tgt Ion: 96 Resp: 1113

Ion Ratio Lower Upper

96 100

61 1865.0 147.0 273.0#

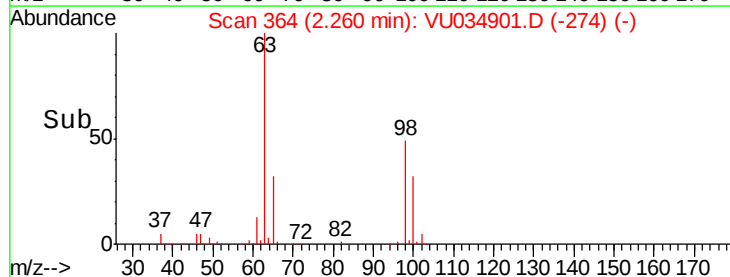
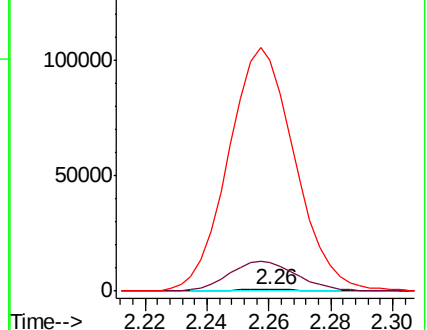
63 14872.6 140.5 260.9#

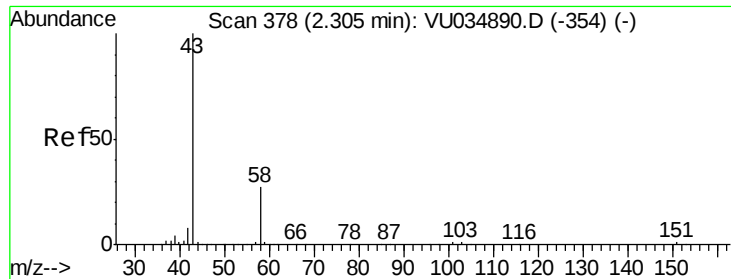


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 64.894 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

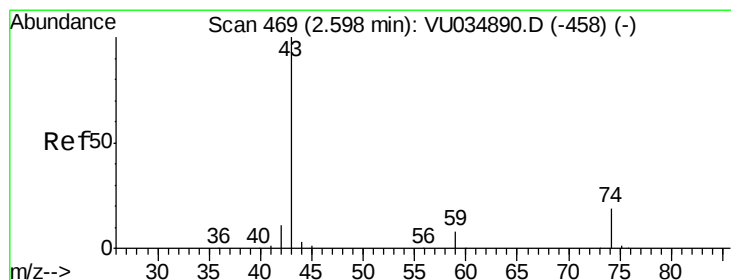
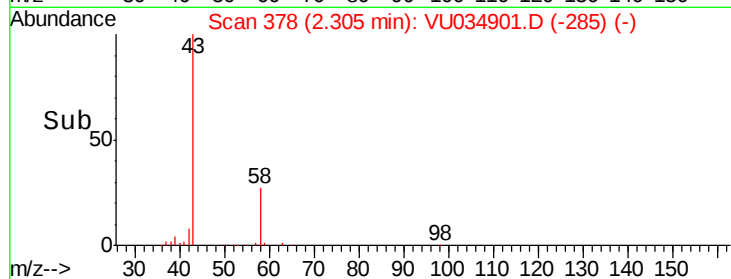
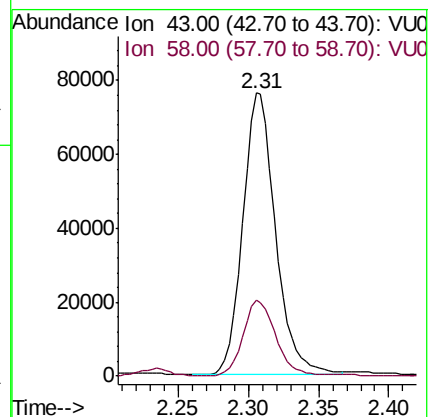
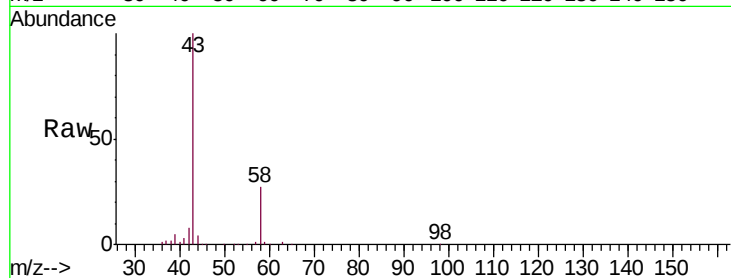
BFDK8

Tgt Ion: 43 Resp: 124580

Ion Ratio Lower Upper

43 100

58 26.8 0.0 52.6



#15

Methyl Acetate

Concen: 1.376 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034901.D

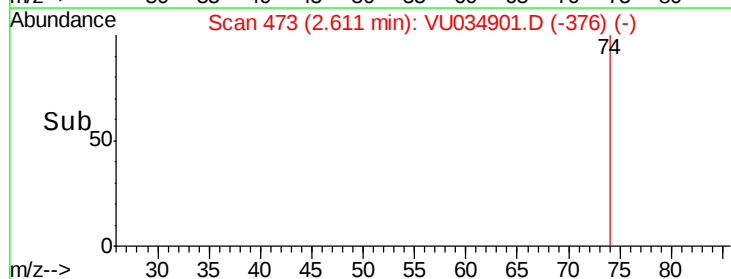
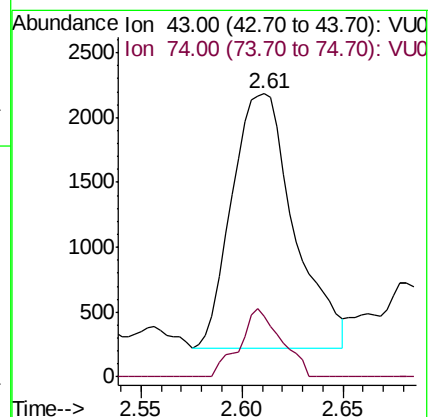
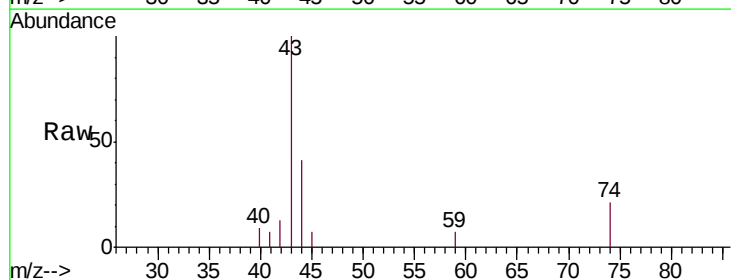
Acq: 01 Oct 2019 20:30

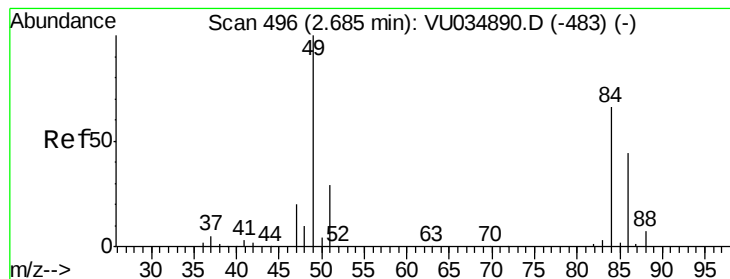
Tgt Ion: 43 Resp: 4216

Ion Ratio Lower Upper

43 100

74 16.0 15.3 22.9





#16

Methylene chloride

Concen: 36.266 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

BFDK8

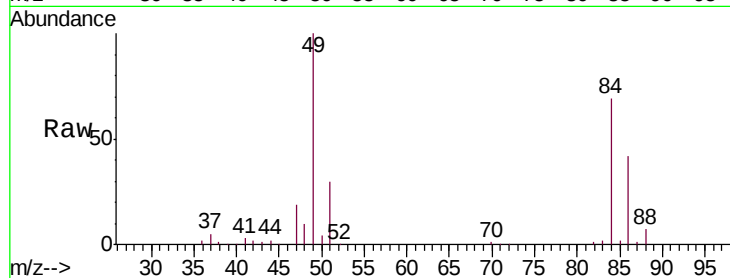
Tgt Ion: 84 Resp: 70169

Ion Ratio Lower Upper

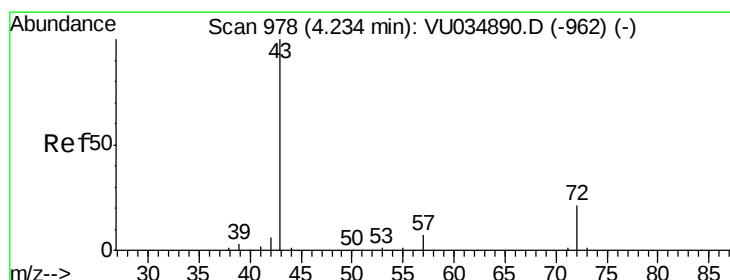
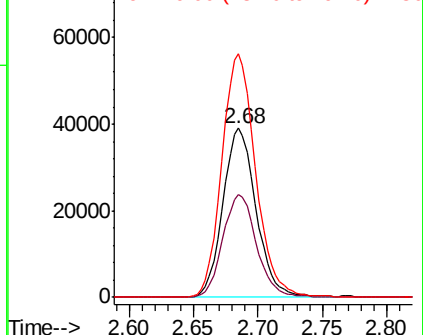
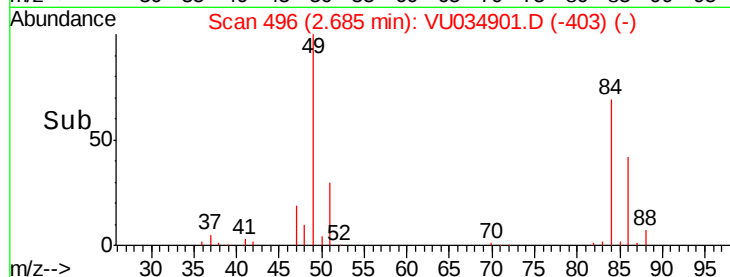
84 100

86 60.9 44.7 82.9

49 144.1 100.7 186.9



Abundance Ion 84.00 (83.70 to 84.70): VU034901.D (-403) (-)



#22

2-Butanone

Concen: 18.589 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU034901.D

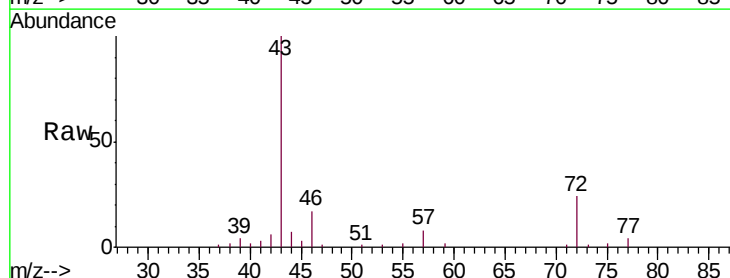
Acq: 01 Oct 2019 20:30

Tgt Ion: 43 Resp: 46350

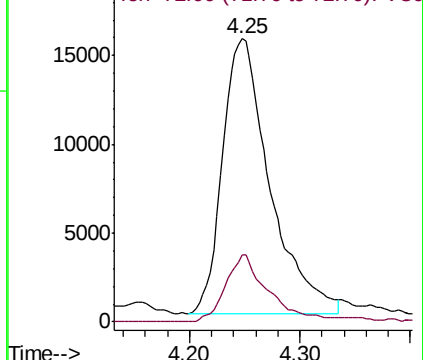
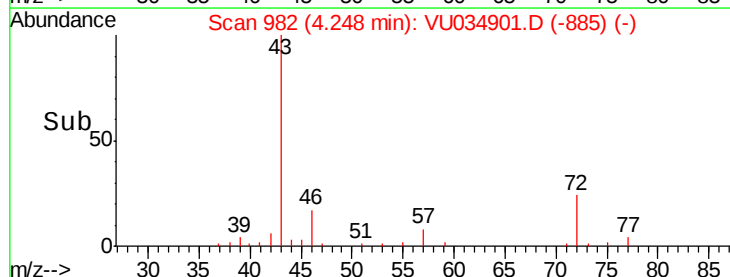
Ion Ratio Lower Upper

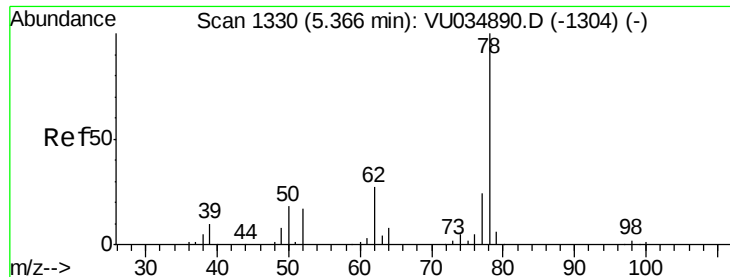
43 100

72 21.6 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VU034901.D (-885) (-)





#33

Benzene

Concen: 8.522 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

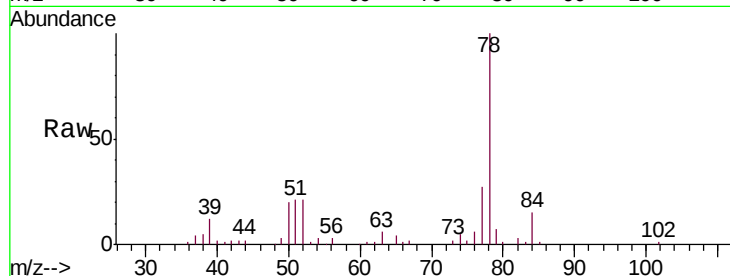
Instrument :

MSVOA_U

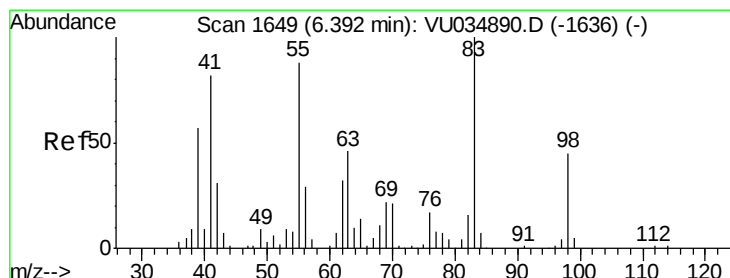
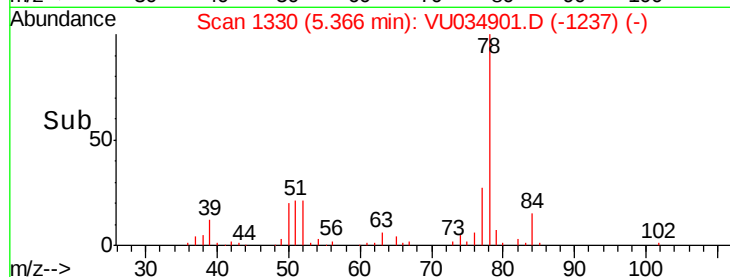
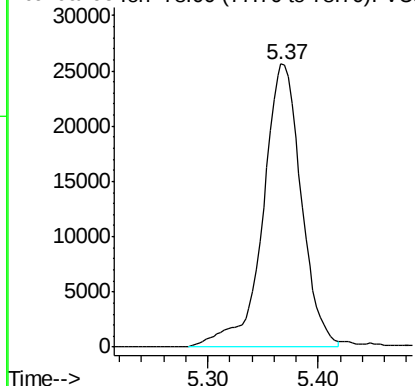
ClientSampleId :

BFDK8

Tgt Ion: 78 Resp: 61666



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 1.438 ug/L

RT: 6.39 min Scan# 1649

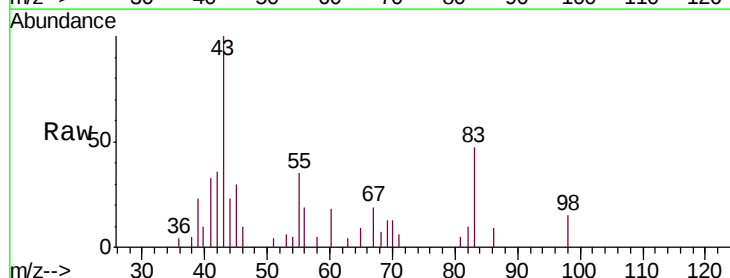
Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Tgt Ion: 83 Resp: 3264

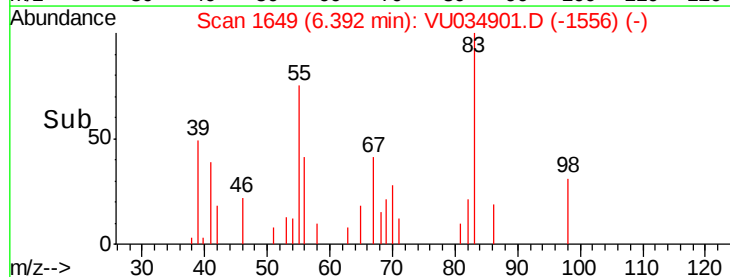
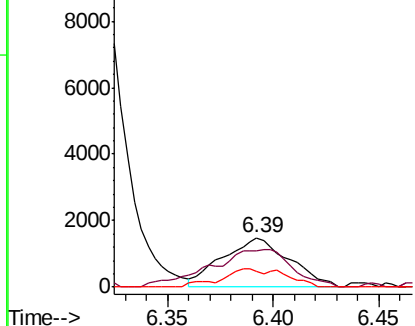
Ion	Ratio	Lower	Upper
83	100		
55	71.0	68.4	102.6
98	13.0	35.3	52.9

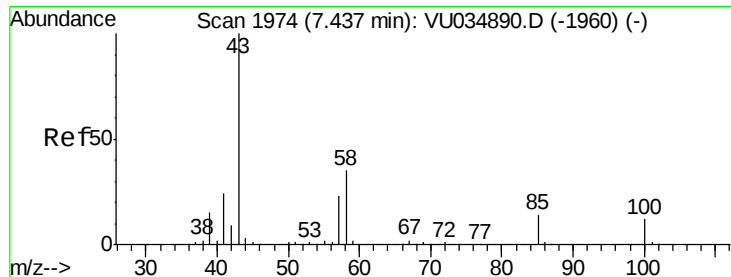


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

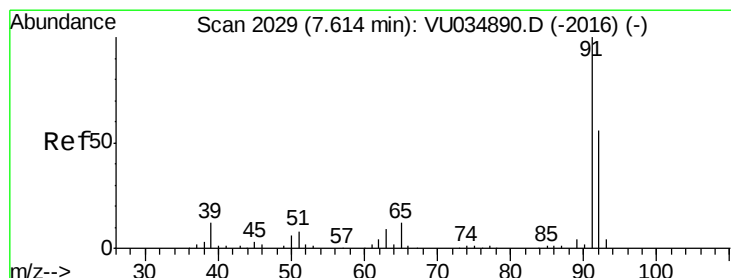
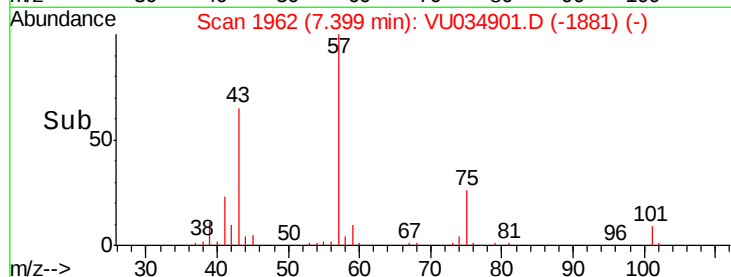
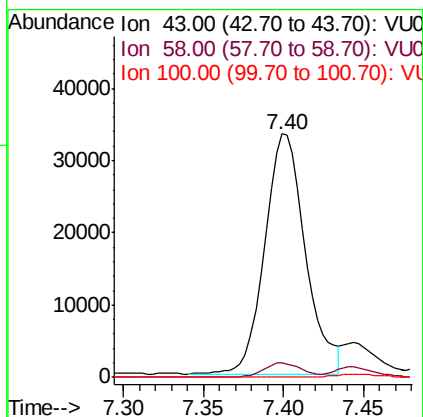
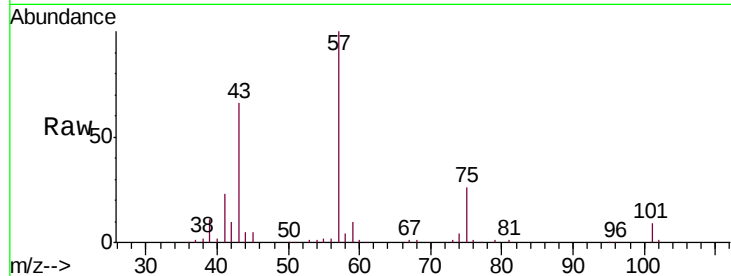




#40
4-Methyl-2-pentanone
Concen: 11.833 ug/L
RT: 7.40 min Scan# 1962
Delta R.T. -0.04 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

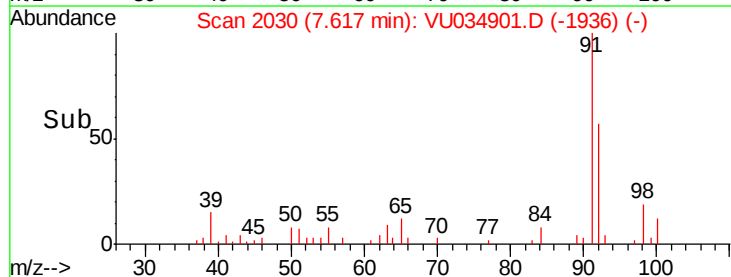
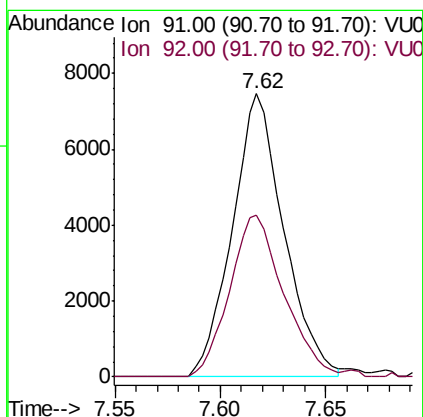
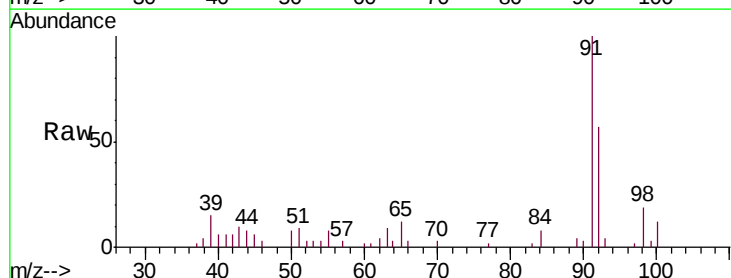
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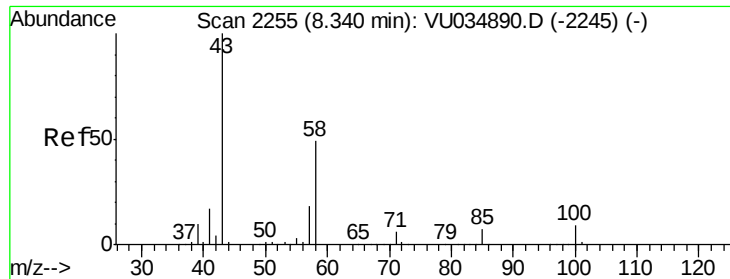
Tgt Ion: 43 Resp: 58717
Ion Ratio Lower Upper
43 100
58 5.7 27.5 41.3#
100 0.0 9.0 13.6#



#42
Toluene
Concen: 1.625 ug/L
RT: 7.62 min Scan# 2030
Delta R.T. 0.00 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

Tgt Ion: 91 Resp: 12652
Ion Ratio Lower Upper
91 100
92 57.2 40.0 74.4

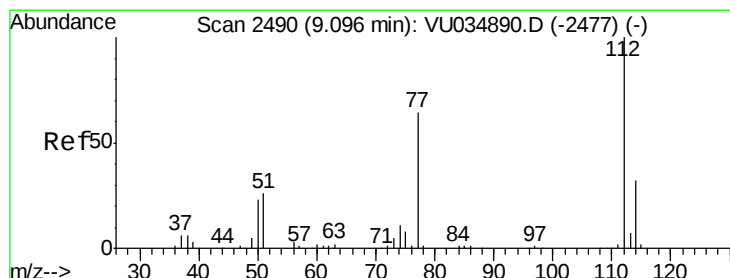
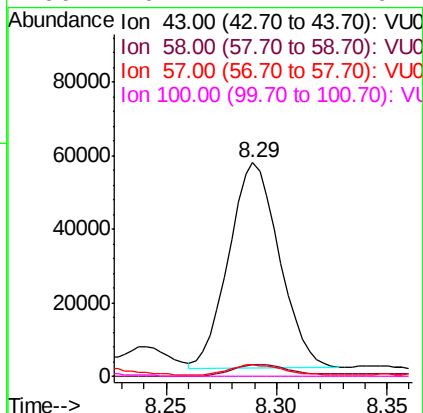
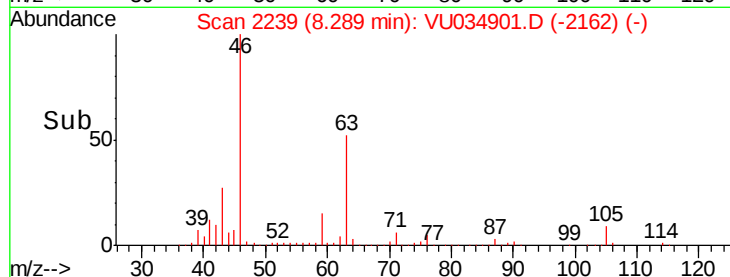
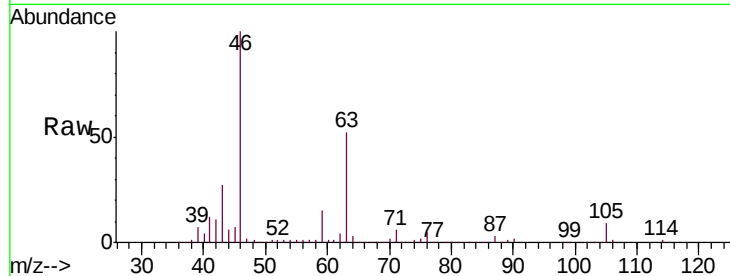




#48
2-Hexanone
Concen: 23.600 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.05 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

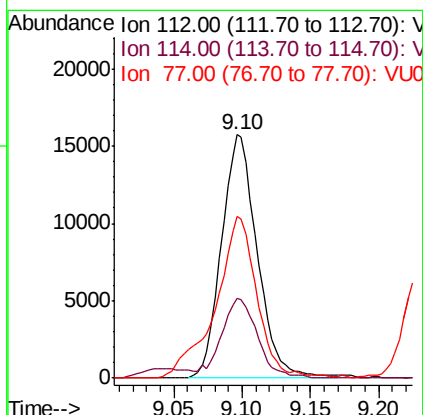
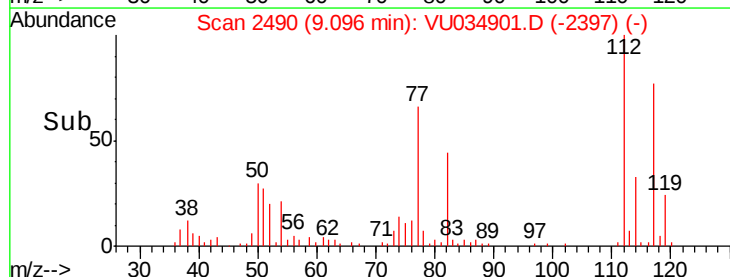
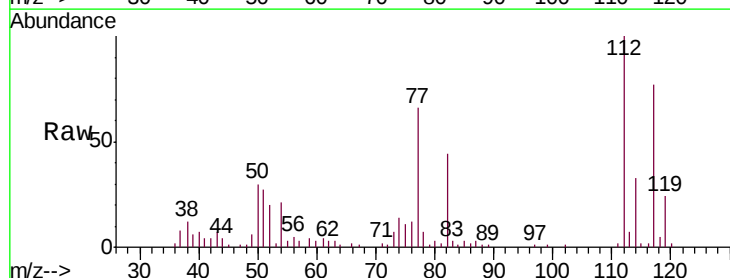
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MSVOA_U
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BFDK8

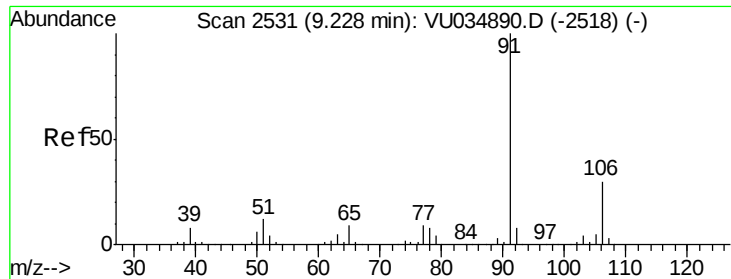
Tgt Ion: 43 Resp: 88865
Ion Ratio Lower Upper
43 100
58 6.5 37.8 56.8#
57 5.5 13.4 20.0#
100 0.1 7.1 10.7#



#51
Chlorobenzene
Concen: 5.436 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

Tgt Ion: 112 Resp: 28679
Ion Ratio Lower Upper
112 100
114 32.6 21.7 40.3
77 66.4 50.1 75.1

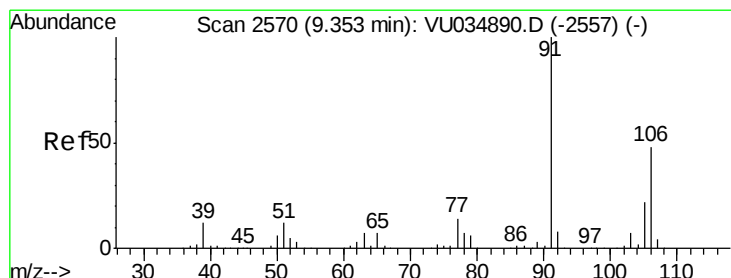
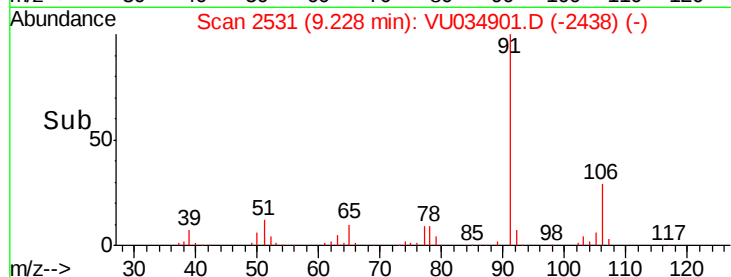
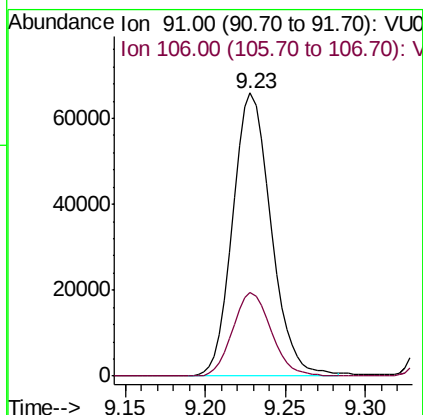
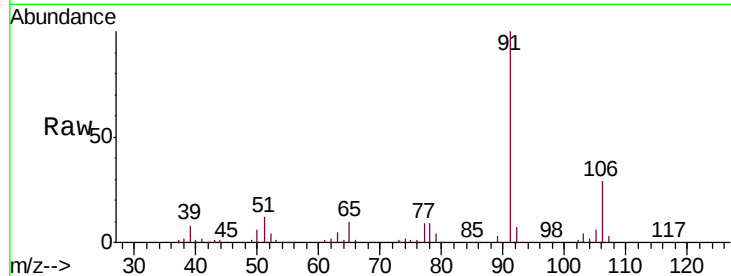




#52
Ethylbenzene
Concen: 11.772 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

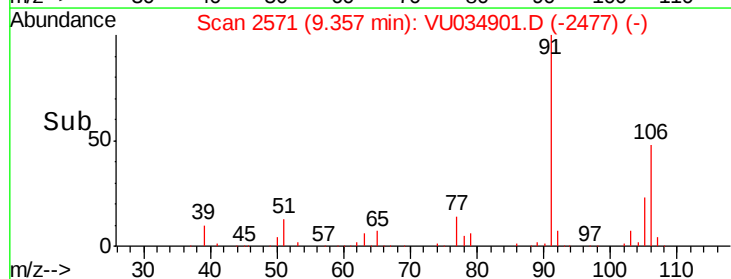
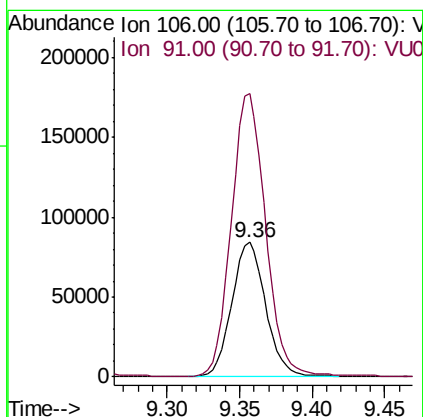
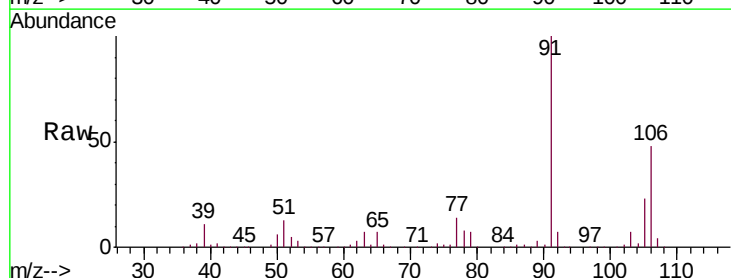
Instrument :
MSVOA_U
ClientSampled :
BFDK8

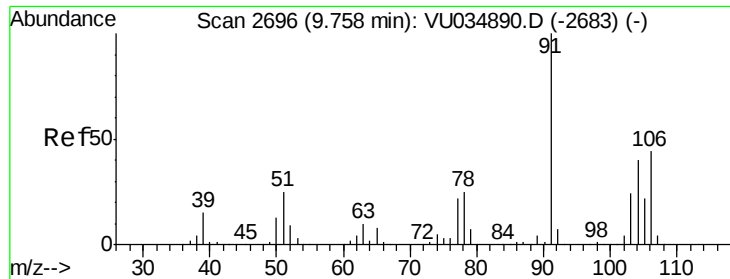
Tgt Ion: 91 Resp: 107591
Ion Ratio Lower Upper
91 100
106 29.5 20.9 38.9



#53
m,p-Xylene
Concen: 42.730 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU034901.D
Acq: 01 Oct 2019 20:30

Tgt Ion: 106 Resp: 136448
Ion Ratio Lower Upper
106 100
91 210.4 150.1 278.9





#54

o-xylene

Concen: 73.208 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

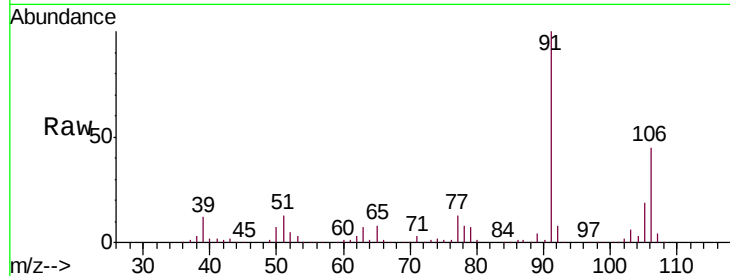
BFDK8

Tgt Ion:106 Resp: 246541

Ion Ratio Lower Upper

106 100

91 221.5 157.8 293.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

400000

300000

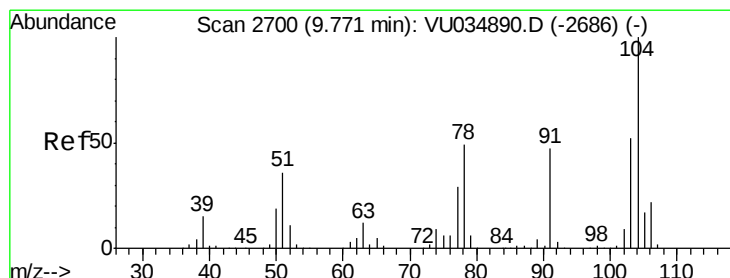
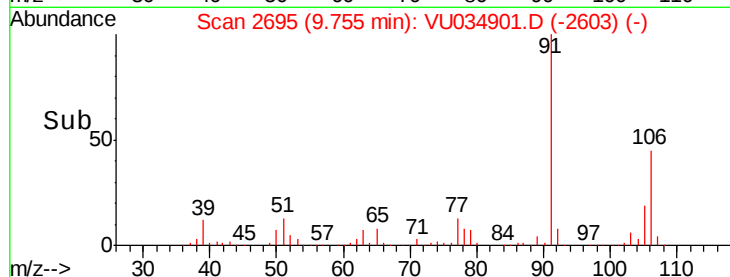
200000

100000

0

9.70 9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 2.322 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.02 min

Lab File: VU034901.D

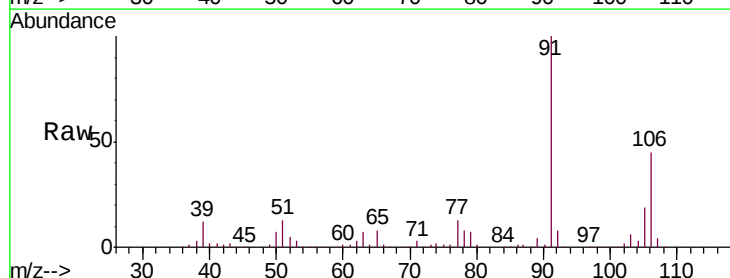
Acq: 01 Oct 2019 20:30

Tgt Ion:104 Resp: 13724

Ion Ratio Lower Upper

104 100

78 299.1 34.6 64.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

30000

25000

20000

15000

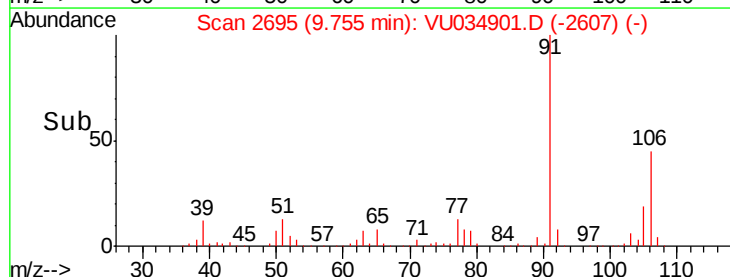
10000

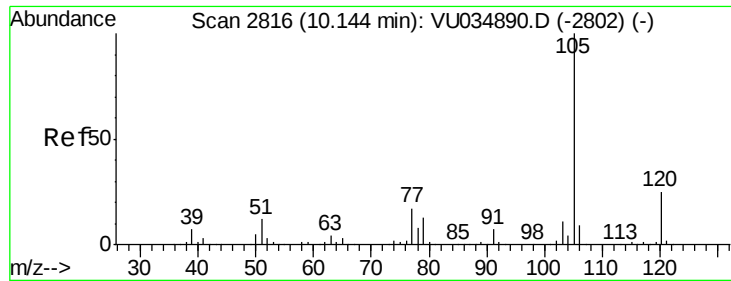
5000

0

9.70 9.75 9.80 9.85

Time-->





#56

Isopropylbenzene

Concen: 5.207 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

BFDK8

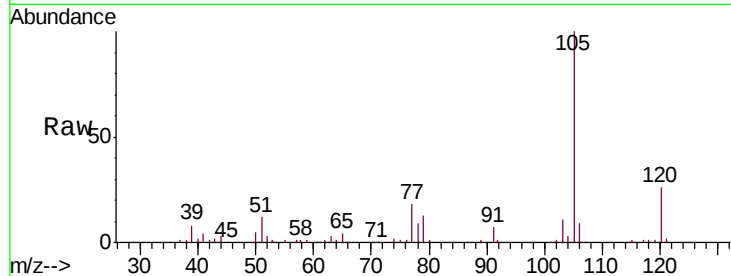
Tgt Ion:105 Resp: 48986

Ion Ratio Lower Upper

105 100

120 23.9 20.2 30.4

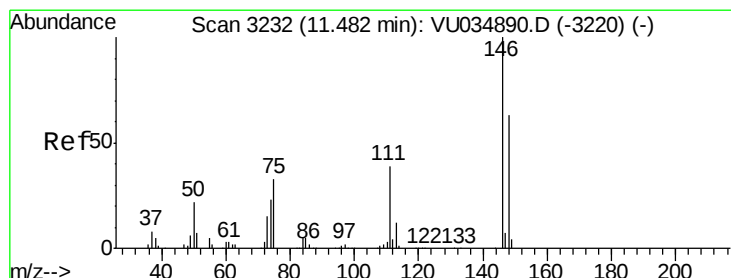
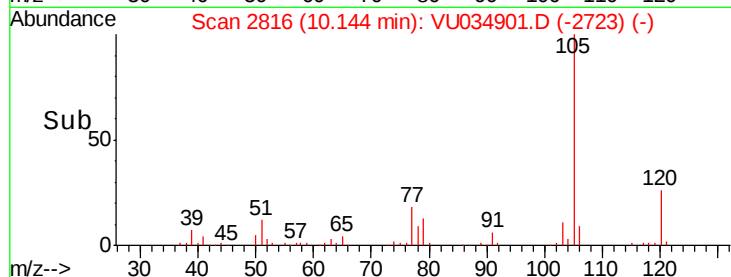
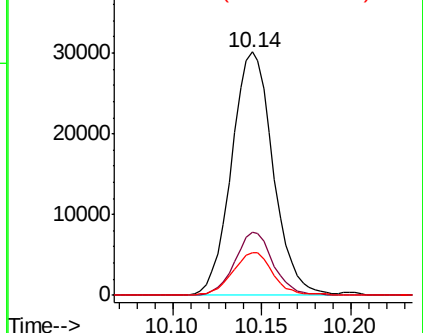
77 17.0 13.7 20.5



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



#63

1,4-Dichlorobenzene

Concen: 1.038 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

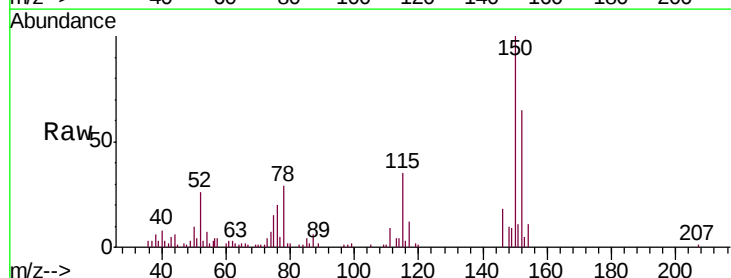
Tgt Ion:146 Resp: 4343

Ion Ratio Lower Upper

146 100

111 49.9 29.2 54.2

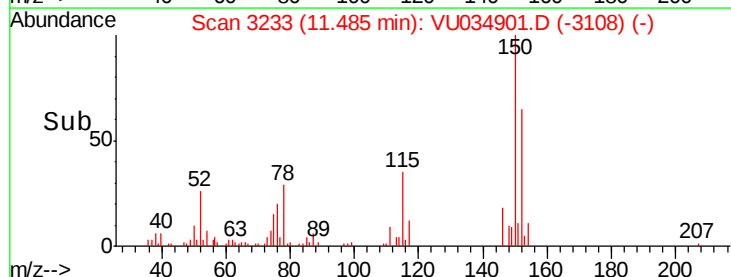
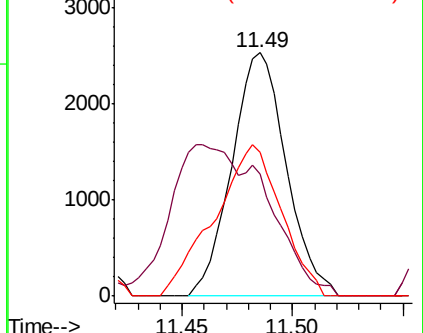
148 59.0 46.1 85.5

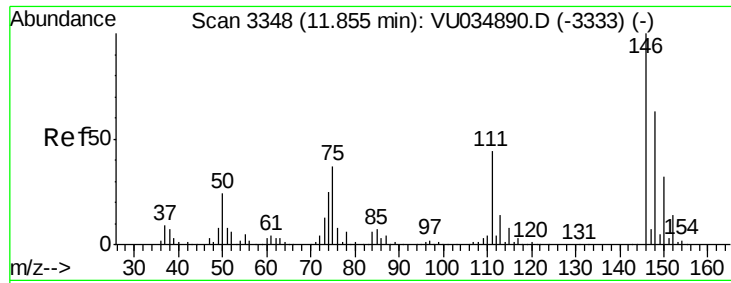


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.842 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

BFDK8

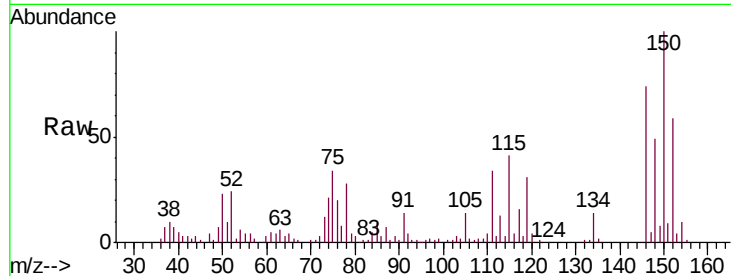
Tgt Ion:146 Resp: 43929

Ion Ratio Lower Upper

146 100

111 45.9 34.9 52.3

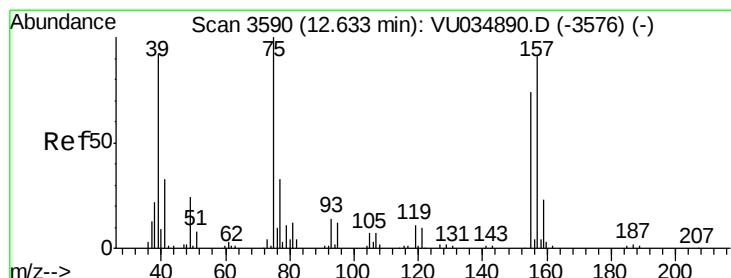
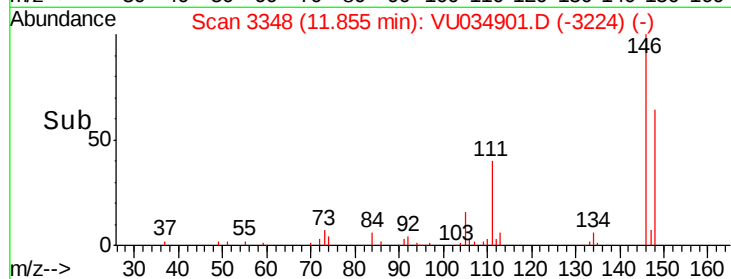
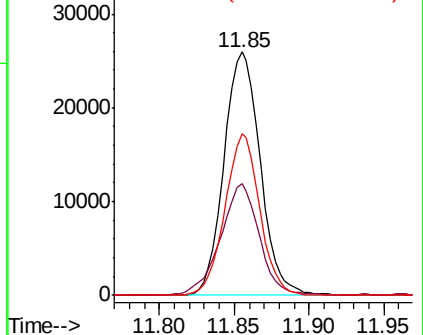
148 66.4 50.0 75.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.304 ug/L

RT: 12.33 min Scan# 3495

Delta R.T. -0.31 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

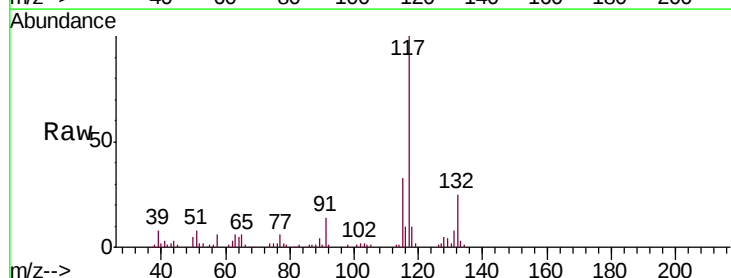
Tgt Ion: 75 Resp: 1219

Ion Ratio Lower Upper

75 100

155 0.0 57.0 85.6#

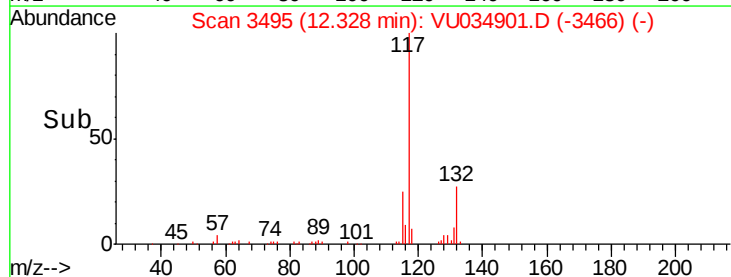
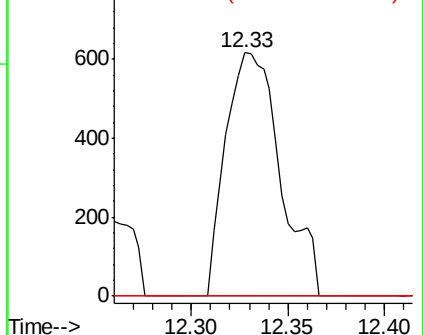
157 0.0 74.2 111.4#

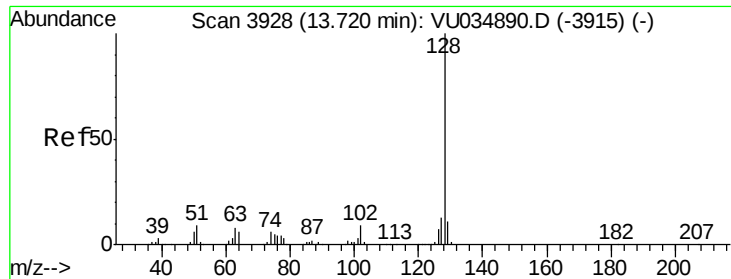


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 30.552 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034901.D

Acq: 01 Oct 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

BFDK8

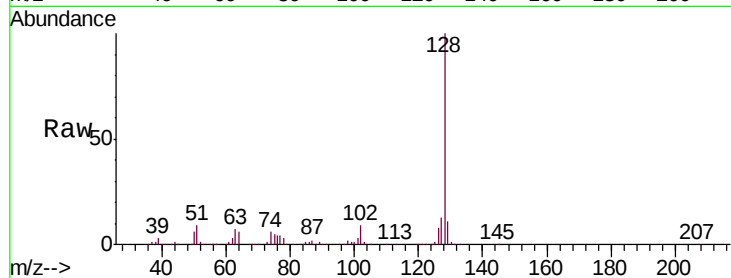
Tgt Ion:128 Resp: 227268

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 11.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

