

Data File : VU034813.D
Acq On : 25 Sep 2019 19:33
Operator : JC/SP
Sample : K4983-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDF2

Quant Time: Sep 26 07:00:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 26 06:56:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	433032	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	418884	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	194259	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	203536	45.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.82%
7) Chloroethane-d5	1.97	69	246	0.07	ug/L	0.30
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.14%#
11) 1,1-Dichloroethene-d2	2.26	63	272702	36.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.64%
21) 2-Butanone-d5	4.15	46	385582	113.49	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.49%
24) Chloroform-d	4.62	84	336939	52.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.56%
26) 1,2-Dichloroethane-d4	5.29	65	237986	50.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.46%
32) Benzene-d6	5.32	84	707688	54.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.02%
36) 1,2-Dichloropropane-d6	6.31	67	250677	55.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.48%
41) Toluene-d8	7.54	98	686282	55.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.12%
43) trans-1,3-Dichloropropene-	7.83	79	110968	51.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.12%
47) 2-Hexanone-d5	8.29	63	270113	118.51	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.51%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	344995	54.79	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.58%
64) 1,2-Dichlorobenzene-d4	11.84	152	243798	59.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	119.70%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2193	0.743 ug/L #	24
12) 1,1-Dichloroethene	2.26	96	2203	0.778 ug/L #	1
13) Acetone	2.31	43	47773	12.088 ug/L	92
15) Methyl Acetate	2.60	43	6733	1.275 ug/L #	88
16) Methylene chloride	2.69	84	46377	12.923 ug/L	93
20) cis-1,2-Dichloroethene	4.20	96	5469	1.510 ug/L	69
22) 2-Butanone	4.25	43	11163	2.374 ug/L	84
27) 1,2-Dichloroethane	5.32	62	4602	0.761 ug/L	100
33) Benzene	5.37	78	20848	1.435 ug/L	100
34) Trichloroethene	6.17	95	3736	1.041 ug/L	90
42) Toluene	7.61	91	268432	17.097 ug/L	97
48) 2-Hexanone	8.29	43	124379	19.283 ug/L #	53
52) Ethylbenzene	9.23	91	119673	6.769 ug/L	100
53) m,p-Xylene	9.35	106	161208	25.743 ug/L	91
54) o-xylene	9.76	106	111308	17.971 ug/L	99
56) Isopropylbenzene	10.15	105	17153	1.027 ug/L	98
59) 1,2,3-Trichloropropane	11.46	75	28321	5.242 ug/L	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092519\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Sep 26 06:56:48 2019
Response via : Initial Calibration

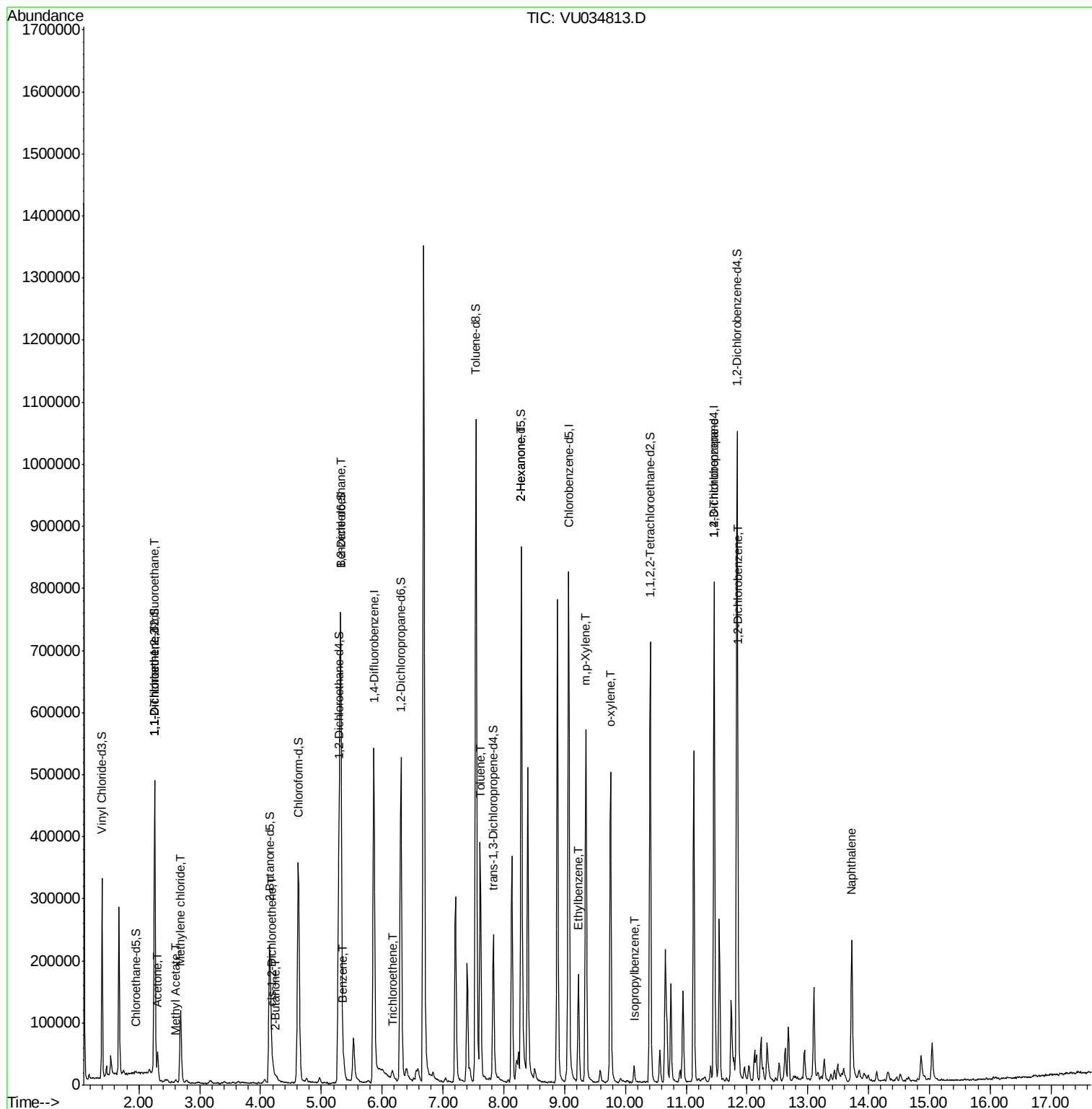
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.86	146	21236	3.124	ug/L	96
69) Naphthalene	13.72	128	194135	15.821	ug/L	99

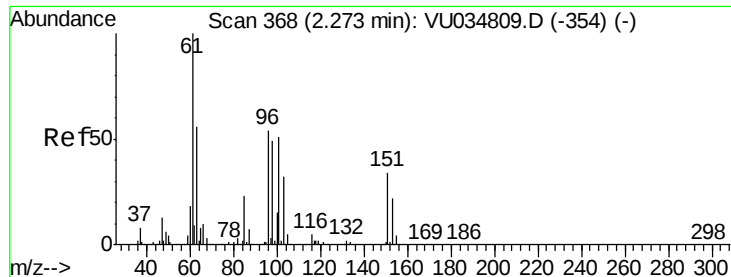
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.743 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.02 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

BDF2

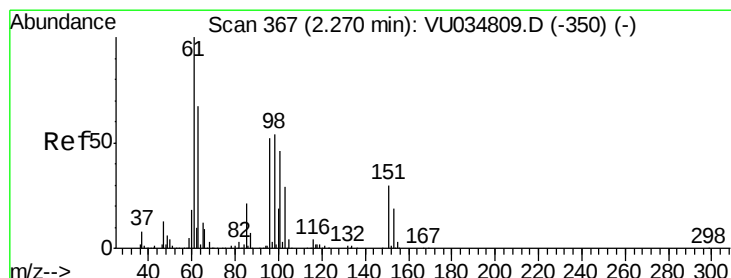
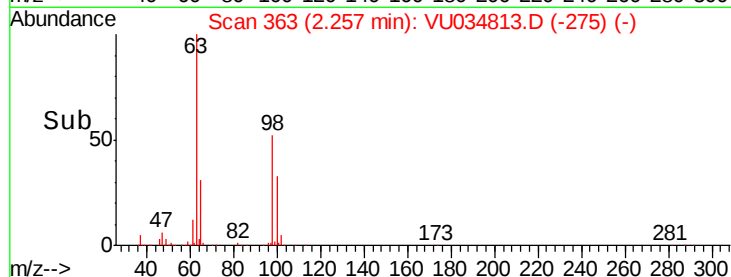
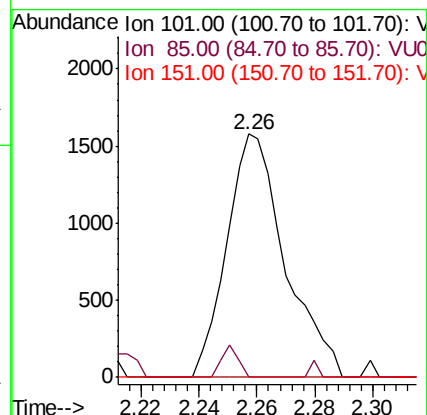
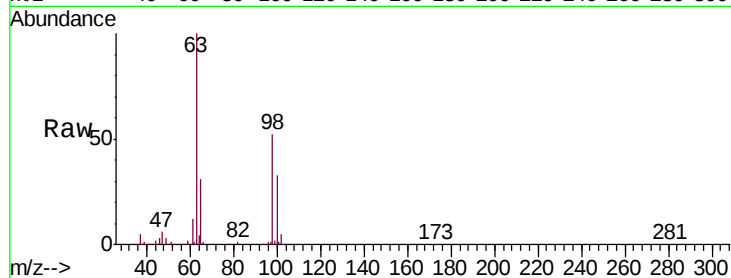
Tgt Ion: 101 Resp: 2193

Ion Ratio Lower Upper

101 100

85 3.7 39.0 58.4#

151 0.0 52.8 79.2#



#12

1,1-Dichloroethene

Concen: 0.778 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

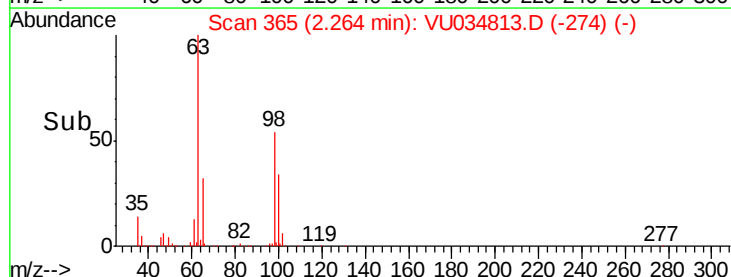
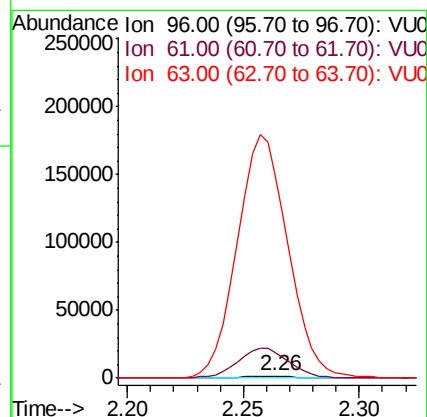
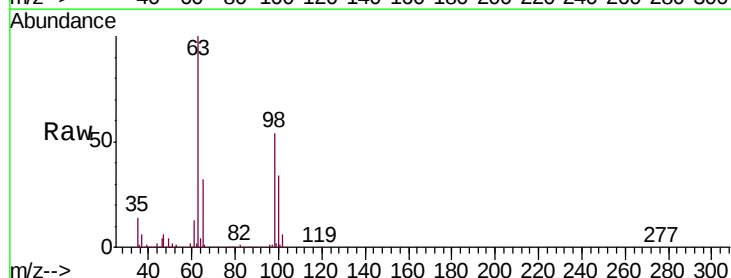
Tgt Ion: 96 Resp: 2203

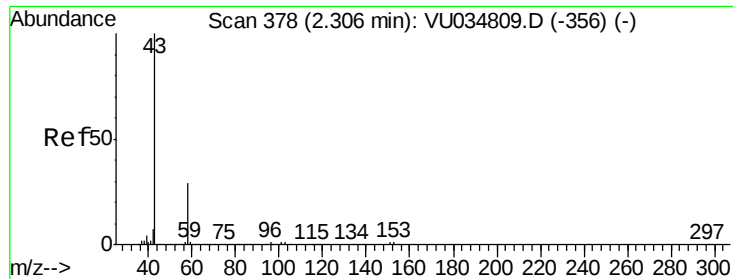
Ion Ratio Lower Upper

96 100

61 1379.7 153.2 284.4#

63 10887.3 113.8 211.3#





#13

Acetone

Concen: 12.088 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

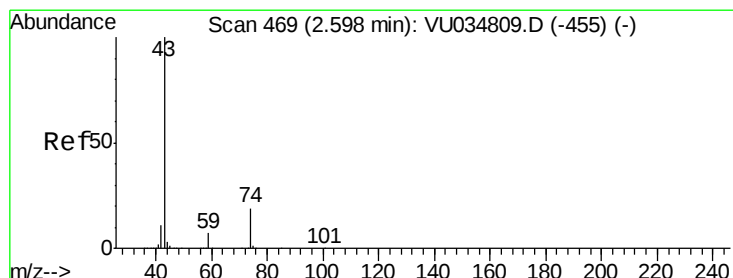
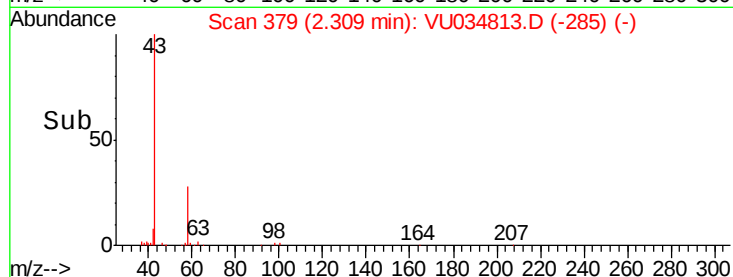
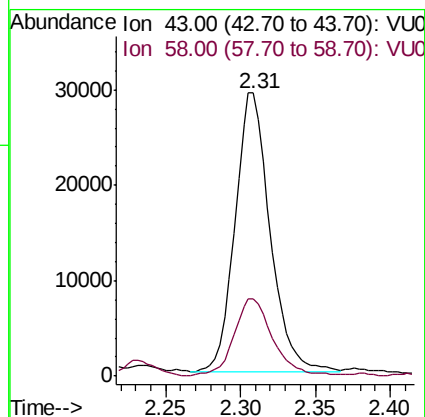
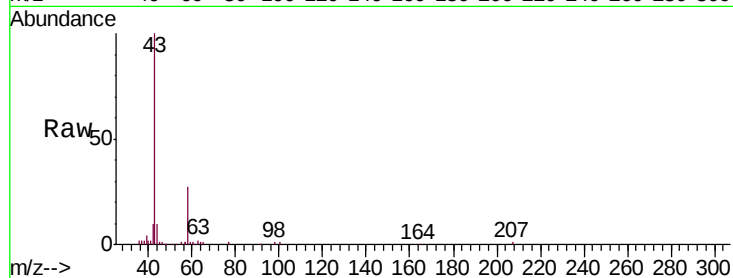
BFDF2

Tgt Ion: 43 Resp: 47773

Ion Ratio Lower Upper

43 100

58 30.6 0.0 53.4



#15

Methyl Acetate

Concen: 1.275 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.01 min

Lab File: VU034813.D

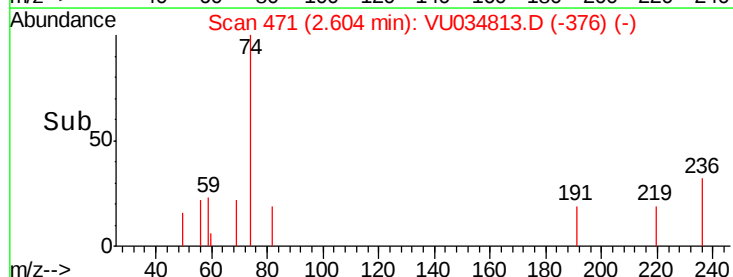
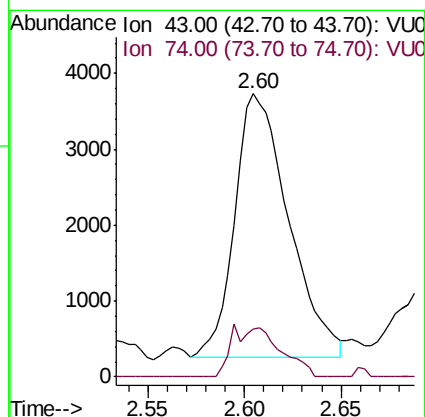
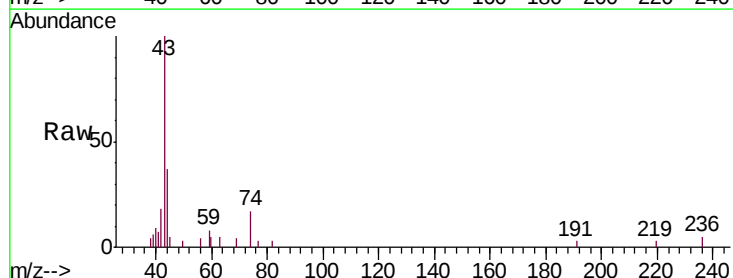
Acq: 25 Sep 2019 19:33

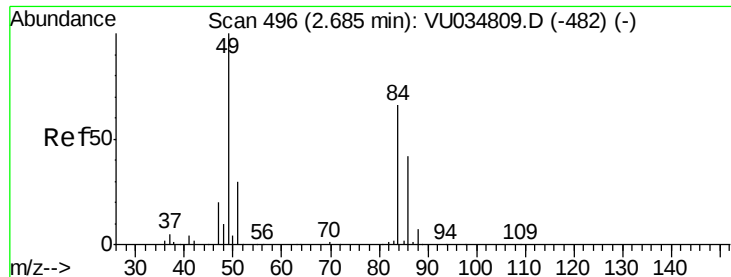
Tgt Ion: 43 Resp: 6733

Ion Ratio Lower Upper

43 100

74 12.6 14.4 21.6#

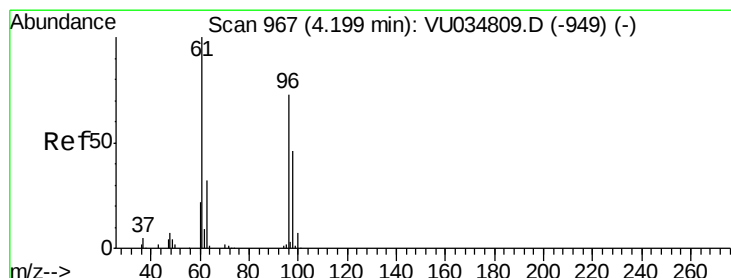
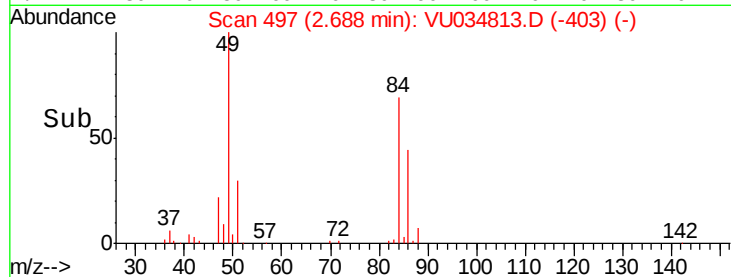
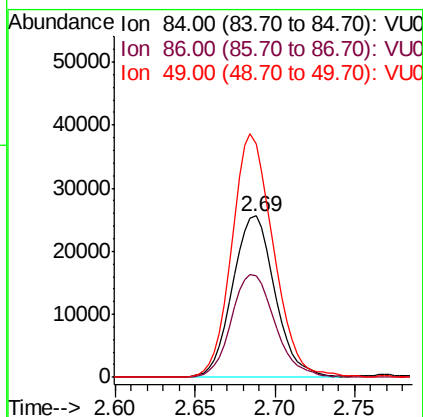
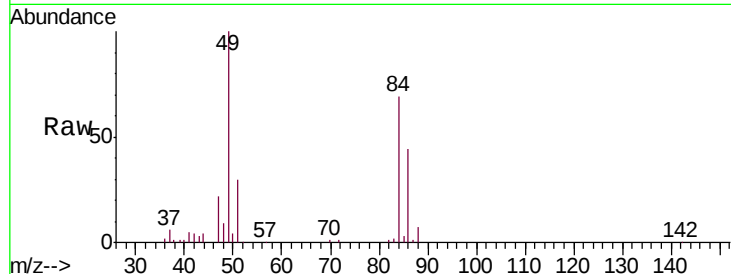




#16
Methylene chloride
Concen: 12.923 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034813.D
Acq: 25 Sep 2019 19:33

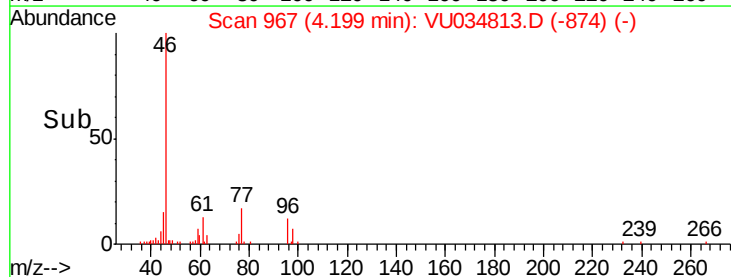
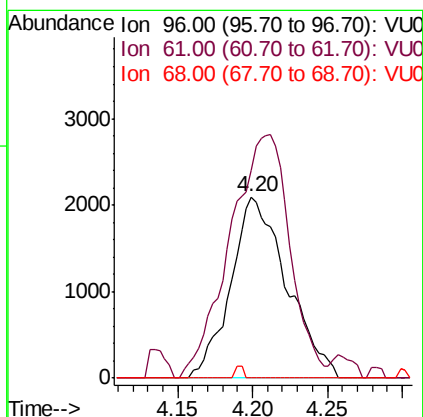
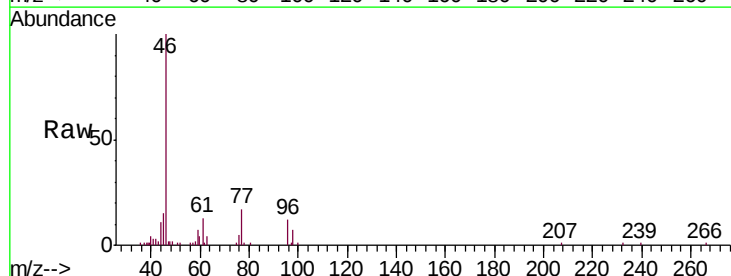
Instrument :
MSVOA_U
ClientSampled :
BPDF2

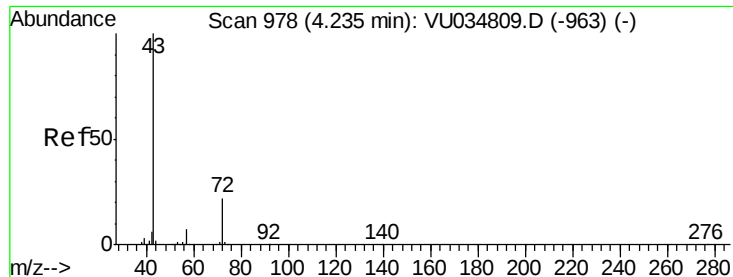
Tgt Ion: 84 Resp: 46377
Ion Ratio Lower Upper
84 100
86 63.0 43.0 80.0
49 144.8 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 1.510 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034813.D
Acq: 25 Sep 2019 19:33

Tgt Ion: 96 Resp: 5469
Ion Ratio Lower Upper
96 100
61 115.0 108.8 202.2
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 2.374 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.02 min

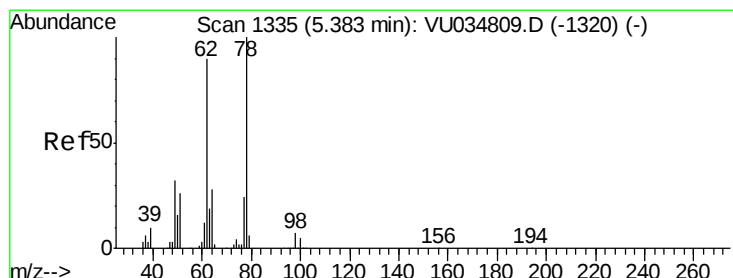
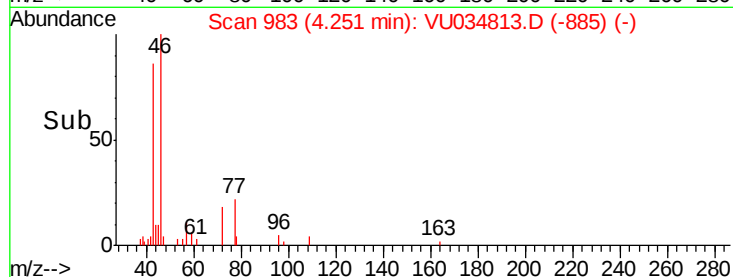
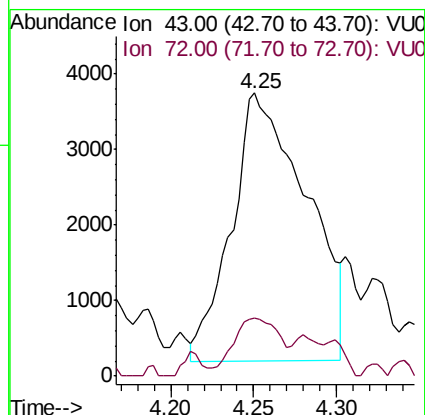
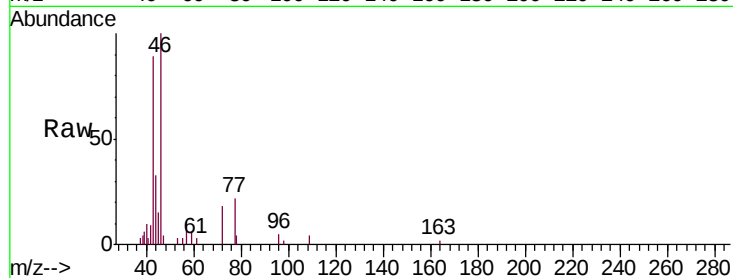
Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :
MSVOA_U
ClientSampleId :
BPDF2

Tgt Ion: 43 Resp: 11163

Ion	Ratio	Lower	Upper
43	100		
72	13.1	10.2	30.6



#27

1,2-Dichloroethane

Concen: 0.761 ug/L

RT: 5.32 min Scan# 1316

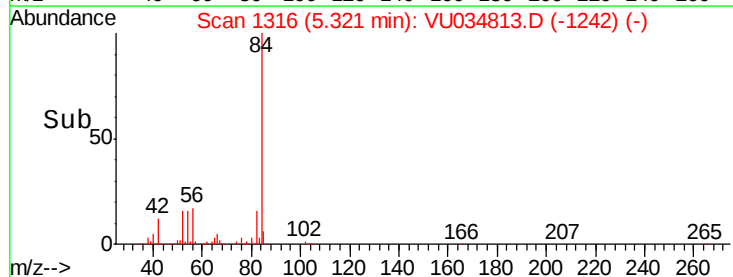
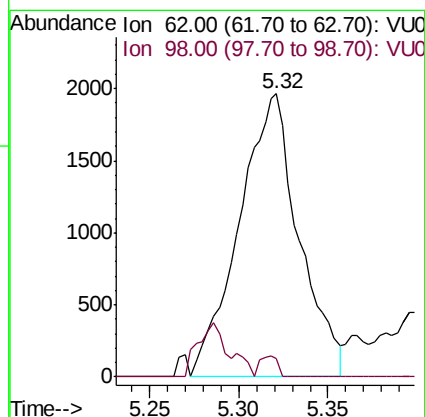
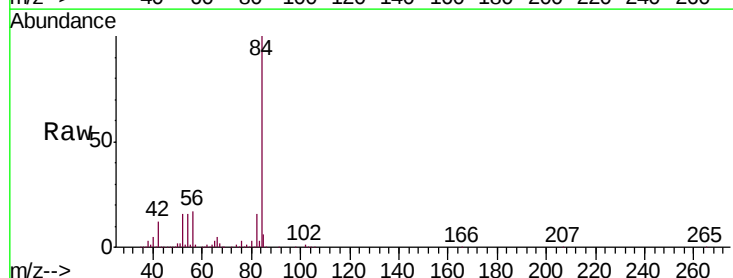
Delta R.T. -0.06 min

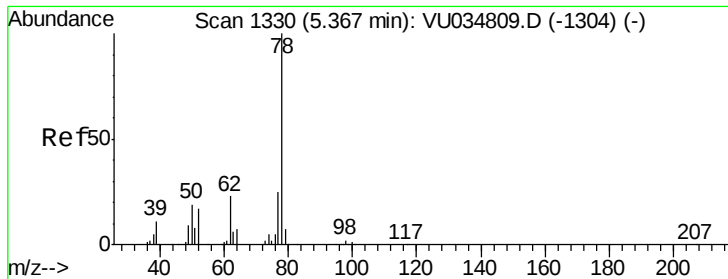
Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Tgt Ion: 62 Resp: 4602

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.3	7.9





#33

Benzene

Concen: 1.435 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

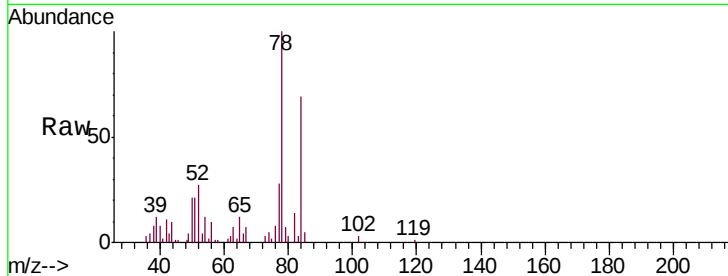
Instrument :

MSVOA_U

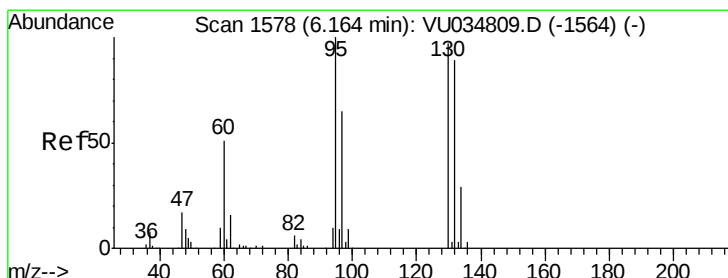
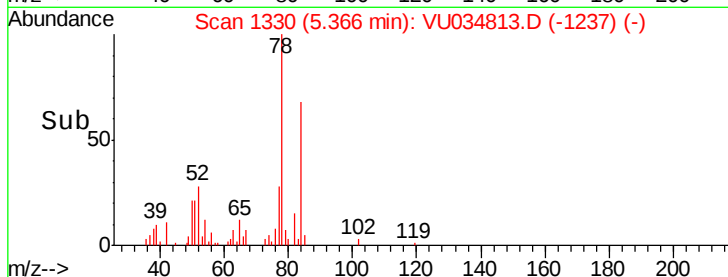
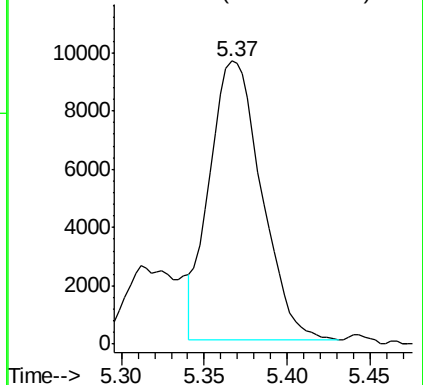
ClientSampleId :

BPDF2

Tgt Ion: 78 Resp: 20848



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.041 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Tgt Ion: 95 Resp: 3736

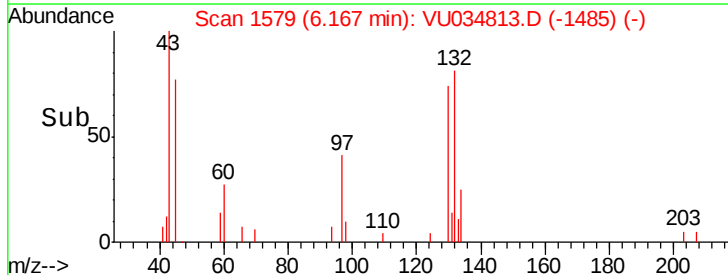
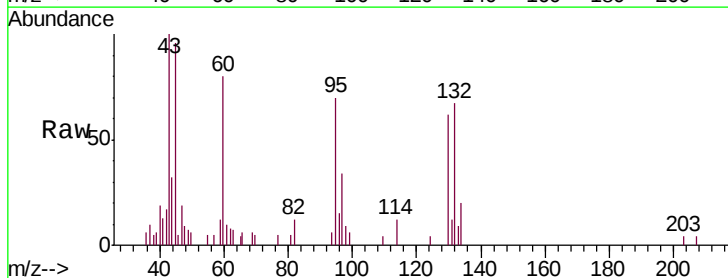
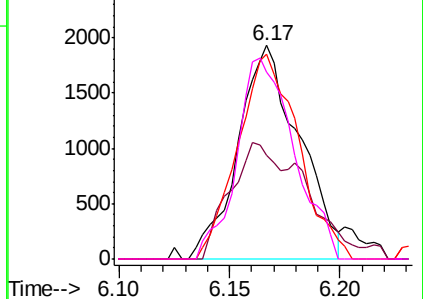
Ion	Ratio	Lower	Upper
95	100		
97	48.4	43.7	81.1
132	95.9	61.0	113.2
130	87.8	65.7	121.9

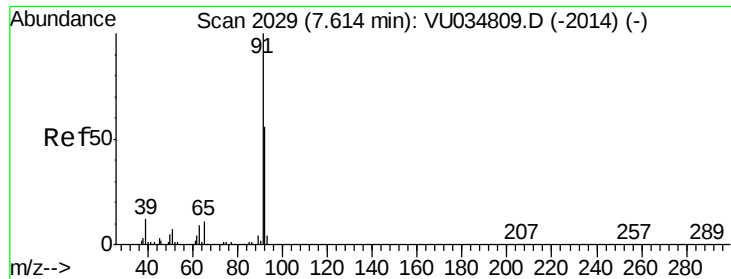
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#42

Toluene

Concen: 17.097 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

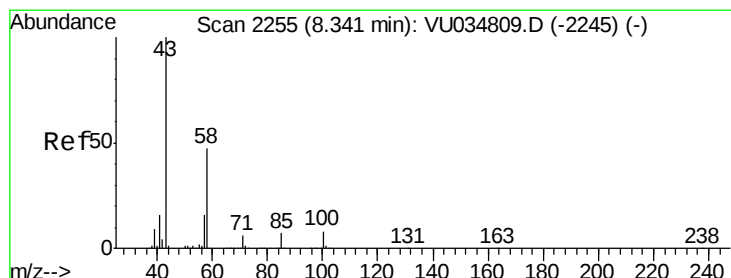
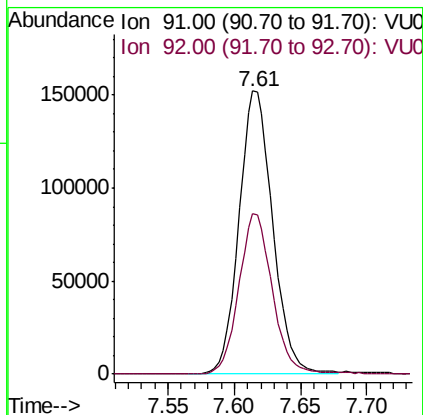
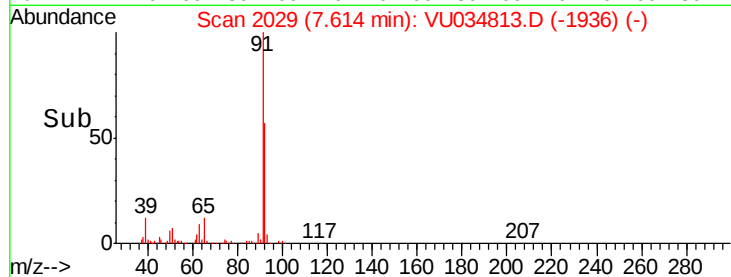
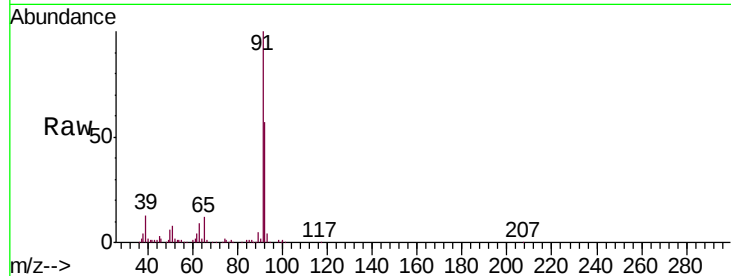
BPDF2

Tgt Ion: 91 Resp: 268432

Ion Ratio Lower Upper

91 100

92 56.7 38.2 71.0



#48

2-Hexanone

Concen: 19.283 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.05 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Tgt Ion: 43 Resp: 124379

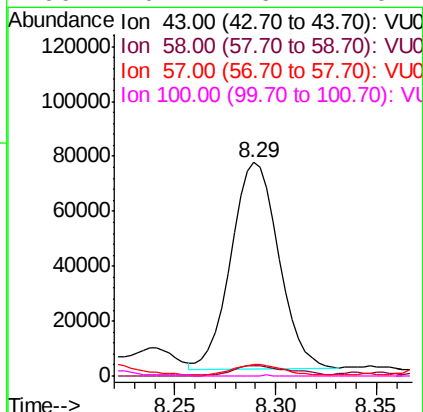
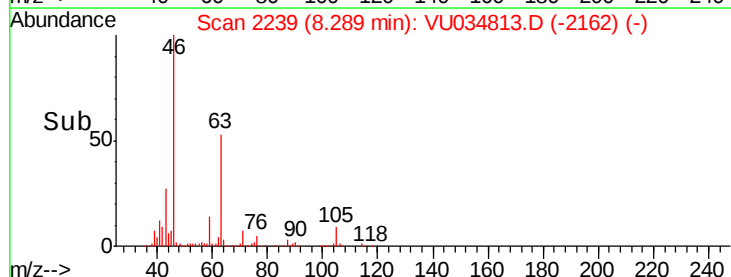
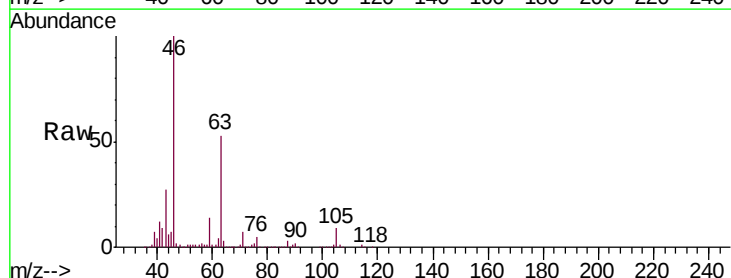
Ion Ratio Lower Upper

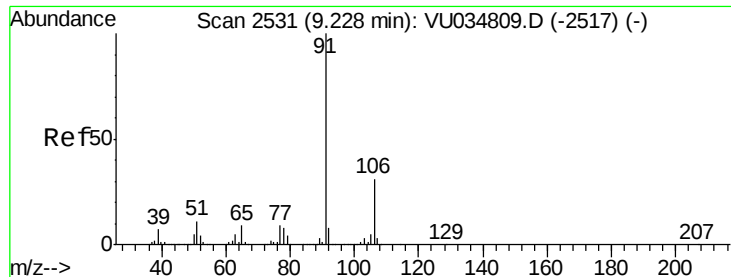
43 100

58 6.1 35.3 52.9#

57 5.2 12.1 18.1#

100 0.1 6.2 9.4#





#52

Ethylbenzene

Concen: 6.769 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

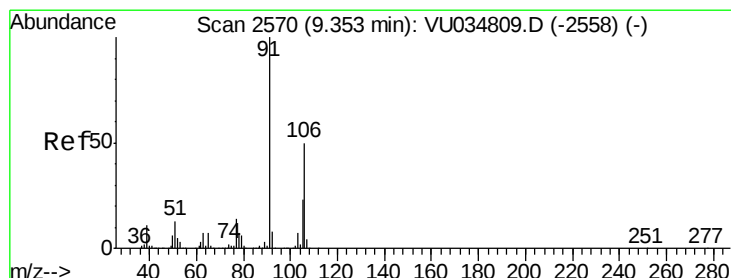
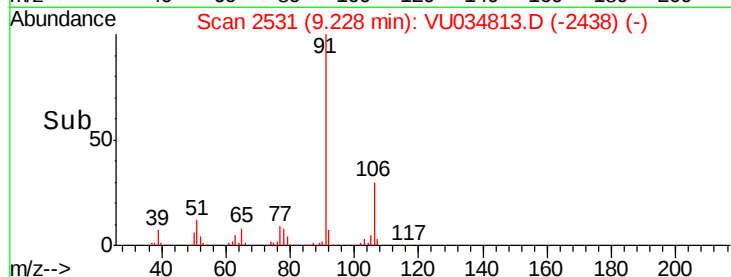
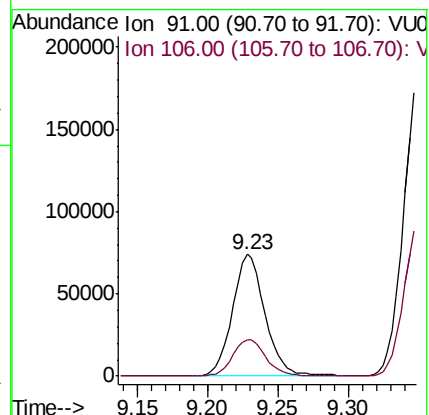
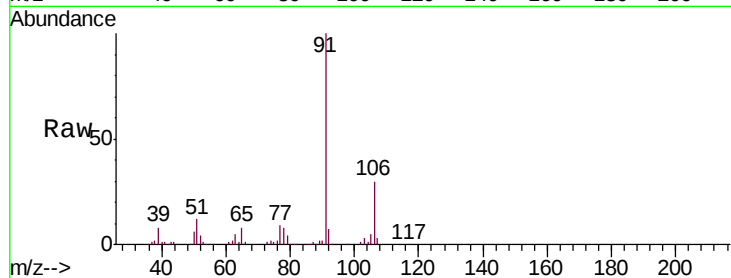
BFDF2

Tgt Ion: 91 Resp: 119673

Ion Ratio Lower Upper

91 100

106 29.6 20.6 38.4



#53

m,p-Xylene

Concen: 25.743 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034813.D

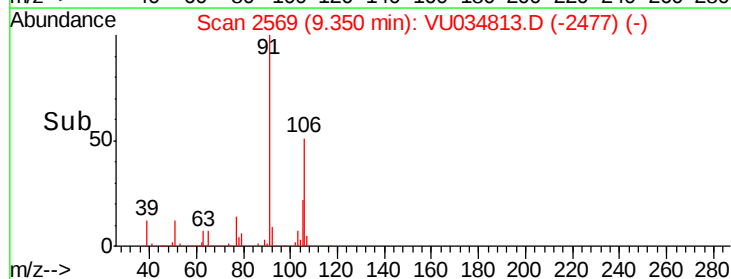
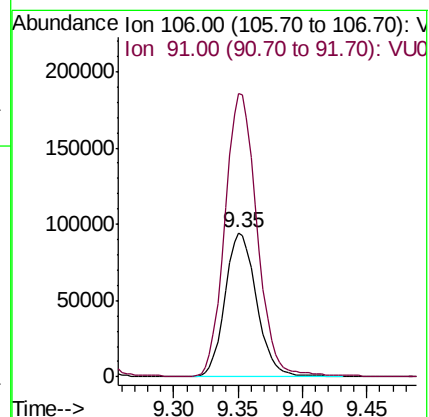
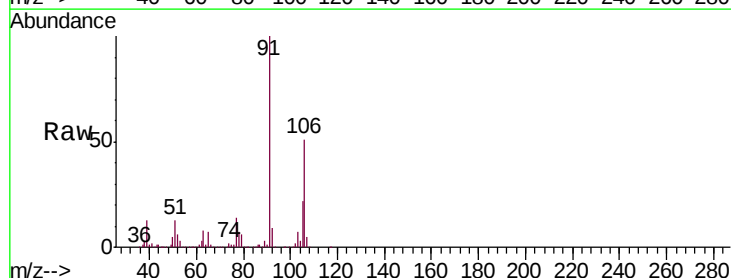
Acq: 25 Sep 2019 19:33

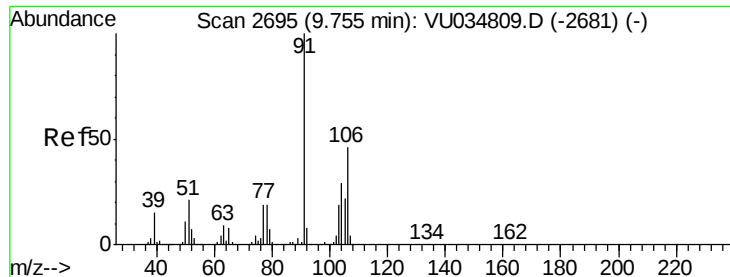
Tgt Ion: 106 Resp: 161208

Ion Ratio Lower Upper

106 100

91 196.1 146.9 272.7





#54

o-xylene

Concen: 17.971 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

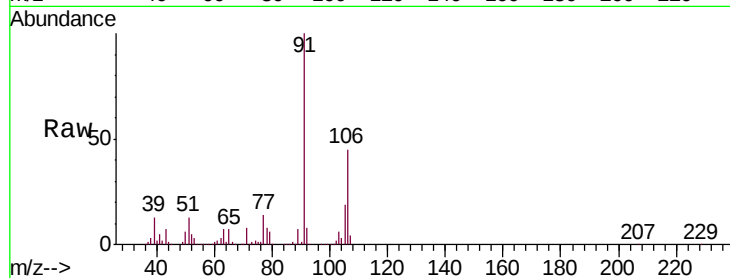
BPDF2

Tgt Ion:106 Resp: 111308

Ion Ratio Lower Upper

106 100

91 221.3 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

150000

100000

50000

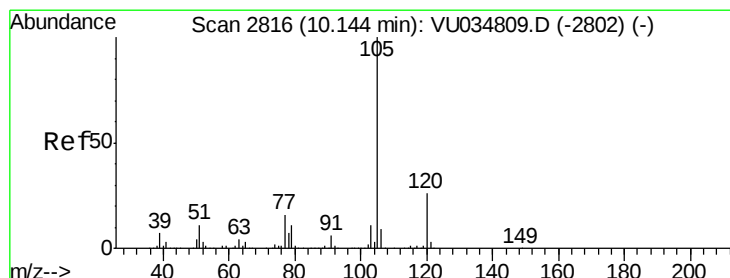
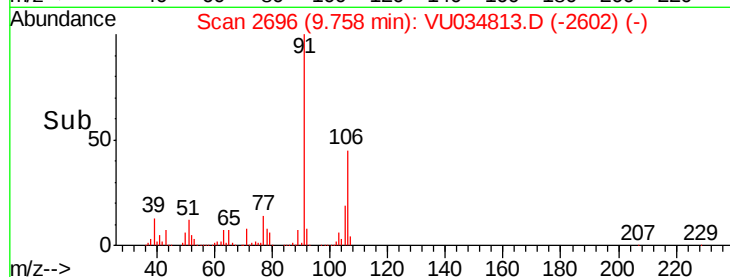
0

9.75

9.76

9.80

Time-->



#56

Isopropylbenzene

Concen: 1.027 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

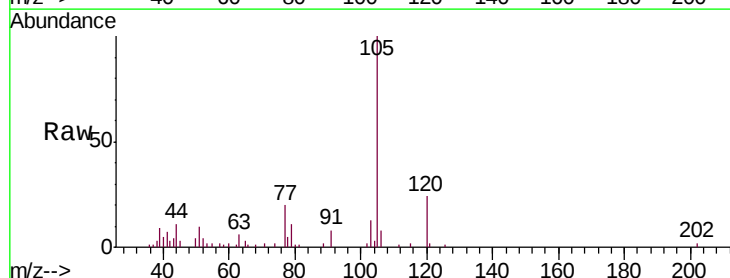
Tgt Ion:105 Resp: 17153

Ion Ratio Lower Upper

105 100

120 24.9 20.4 30.6

77 19.3 14.2 21.4



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

10000

5000

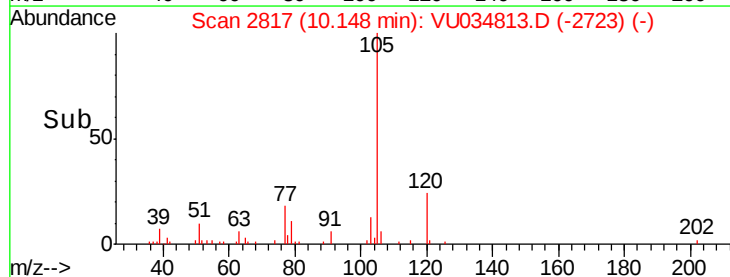
0

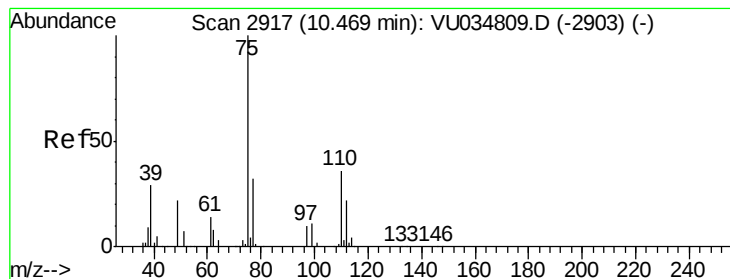
10.10

10.15

10.20

Time-->





#59

1,2,3-Trichloropropane

Concen: 5.242 ug/L

RT: 11.46 min Scan# 3225

Delta R.T. 0.99 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

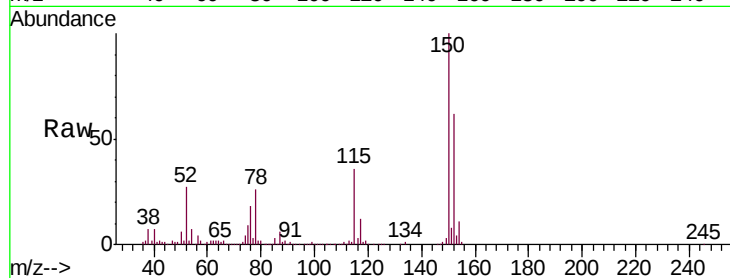
BFDF2

Tgt Ion: 75 Resp: 28321

Ion Ratio Lower Upper

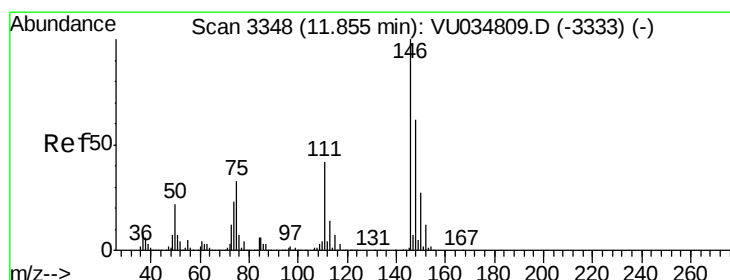
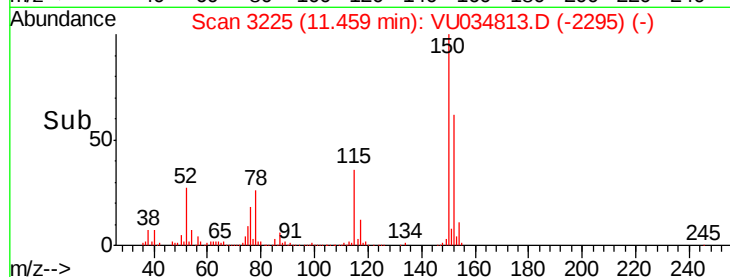
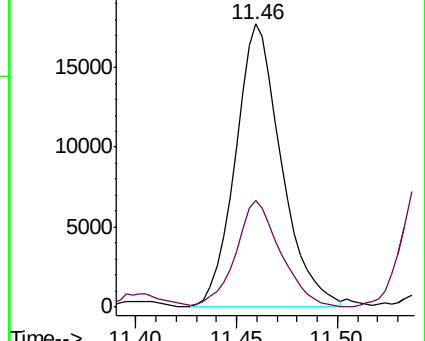
75 100

77 36.9 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU034813.D (-2295) (-)

Ion 77.00 (76.70 to 77.70): VU034813.D (-2295) (-)



#65

1,2-Dichlorobenzene

Concen: 3.124 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU034813.D

Acq: 25 Sep 2019 19:33

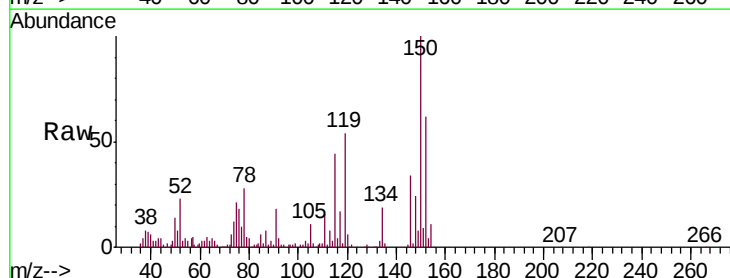
Tgt Ion: 146 Resp: 21236

Ion Ratio Lower Upper

146 100

111 46.0 35.2 52.8

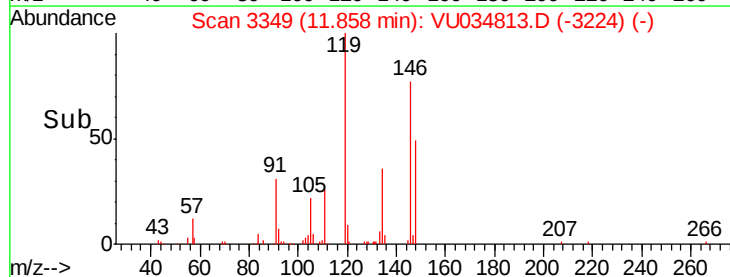
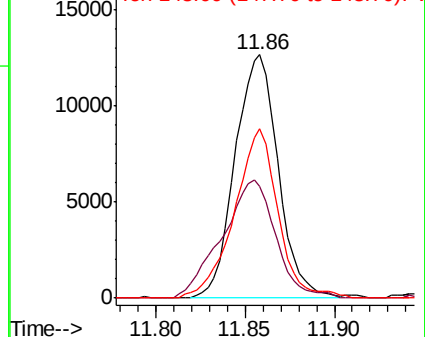
148 69.4 53.0 79.6

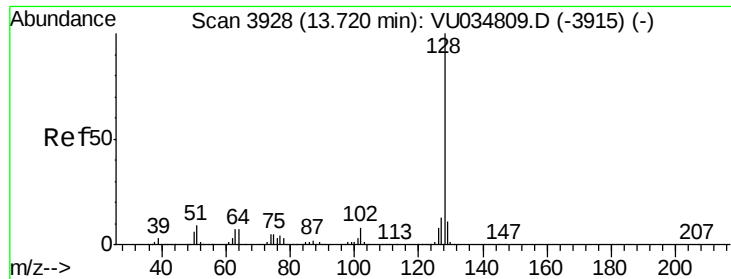


Abundance Ion 146.00 (145.70 to 146.70): VU034813.D (-3224) (-)

Ion 111.00 (110.70 to 111.70): VU034813.D (-3224) (-)

Ion 148.00 (147.70 to 148.70): VU034813.D (-3224) (-)





#69

Naphthalene

Concen: 15.821 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034813.D

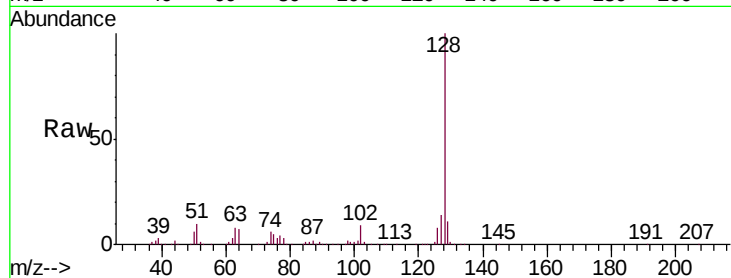
Acq: 25 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

BPDF2



Tgt Ion:128 Resp: 194135

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 10.3 8.6 12.8

