

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034171.D
 Acq On : 01 Sep 2019 16:06
 Operator : JC/SP
 Sample : K4648-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:33:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	459147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	736073	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	710113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	347761	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	287997	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
35) Dibromofluoromethane	4.86	113	241487	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	7.55	98	930229	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	10.29	95	330547	44.45	ug/l	0.00
Spiked Amount			Recovery	=	88.90%	

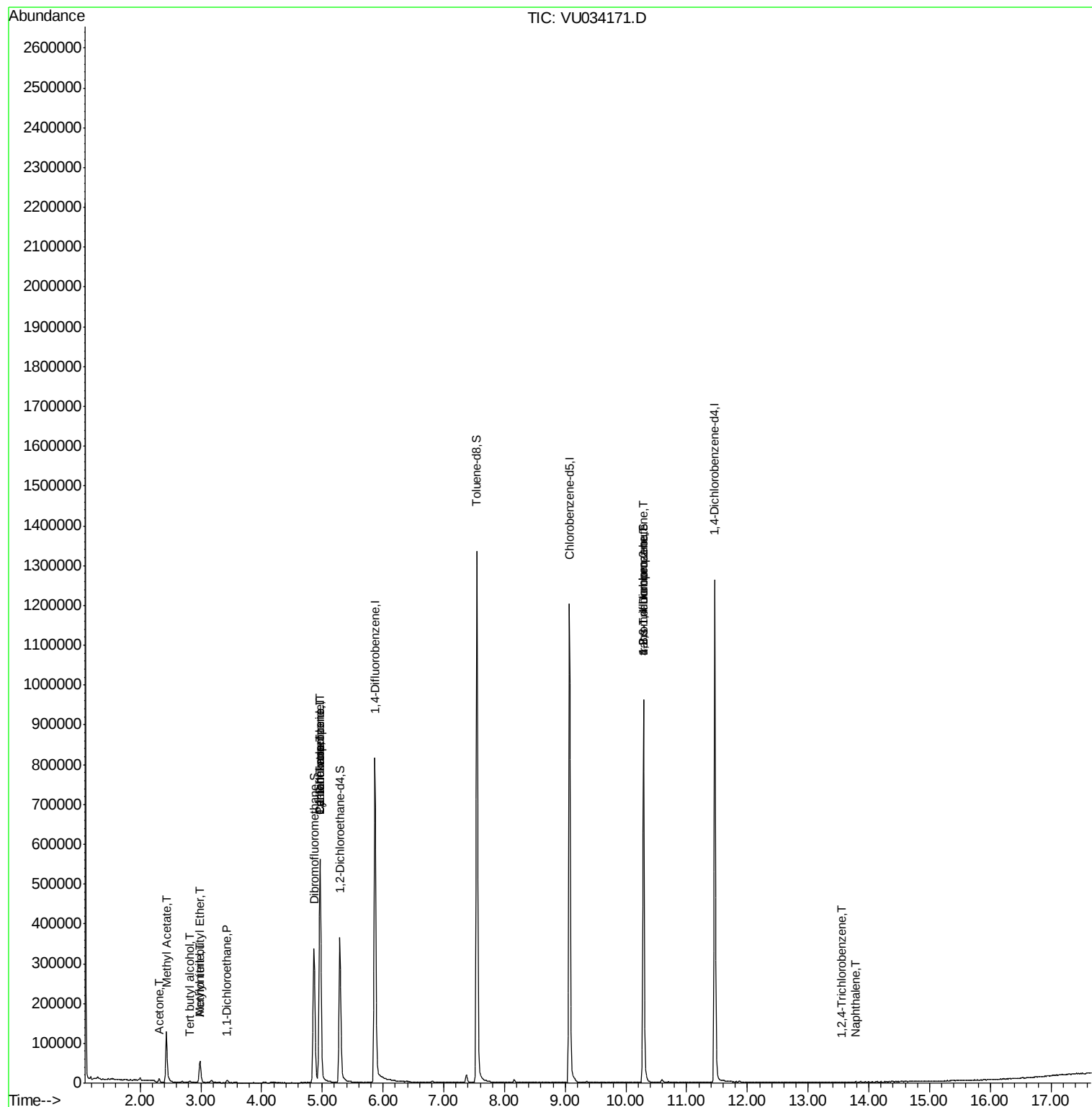
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1254	Below Cal		89
5) Bromomethane	1.58	94	64	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	4266	3.144	ug/l #	73
15) Acrylonitrile	2.98	53	681	0.219	ug/l #	21
16) Acetone	2.31	43	10604	3.532	ug/l	95
18) Methyl Acetate	2.43	43	32164	4.146	ug/l #	51
19) Methyl tert-butyl Ether	2.99	73	57749	3.834	ug/l	95
24) 1,1-Dichloroethane	3.43	63	6956	0.744	ug/l #	92
31) Cyclohexane	4.96	56	8213	0.935	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32190	4.623	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41714	6.207	ug/l #	16
76) 1,2,3-Trichloropropane	10.29	75	155172	19.798	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155172	66.663	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	40	1.119	ug/l #	12
95) Naphthalene	13.78	128	264	1.802	ug/l #	70

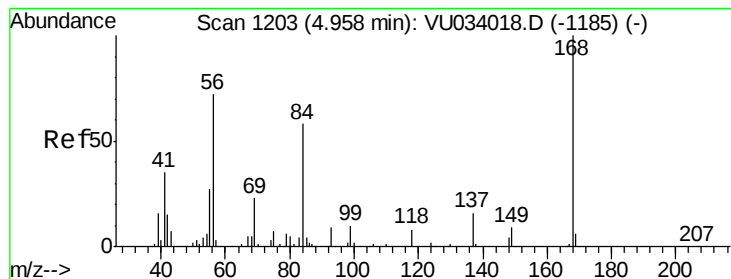
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

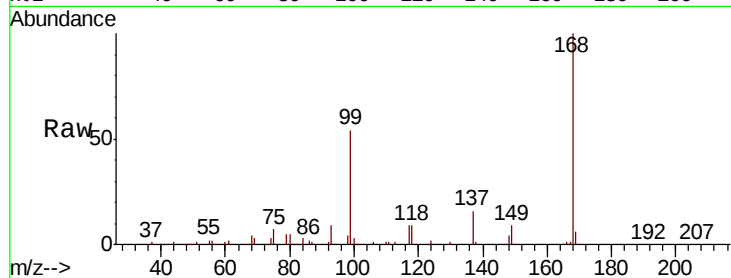
ClientSampleId :

Tot Ion:168 Resp: 459147

Ion Ratio Lower Upper

168 100

99 54.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034171.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034171.D (-1185) (-)

4.96

200000

150000

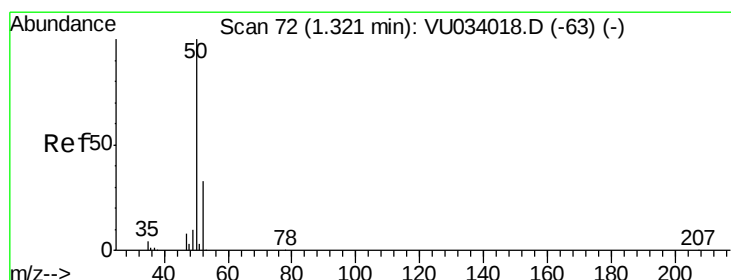
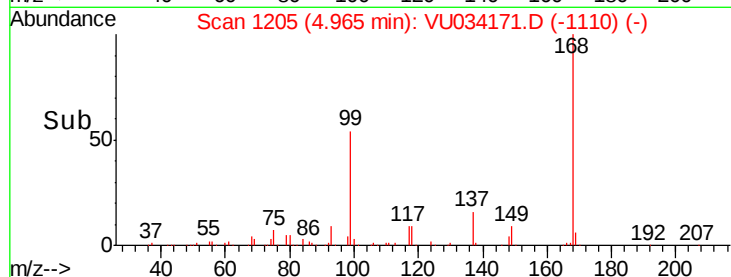
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034171.D

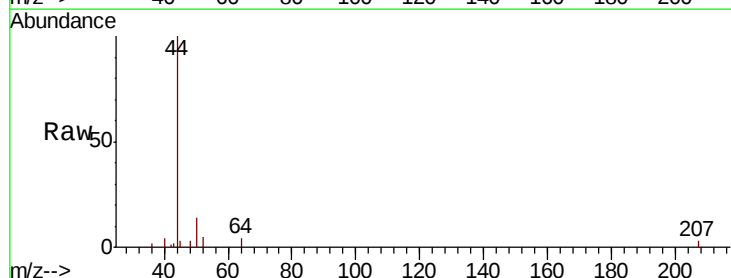
Acq: 01 Sep 2019 16:06

Tgt Ion: 50 Resp: 1254

Ion Ratio Lower Upper

50 100

52 39.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034171.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034171.D (-1) (-)

1.32

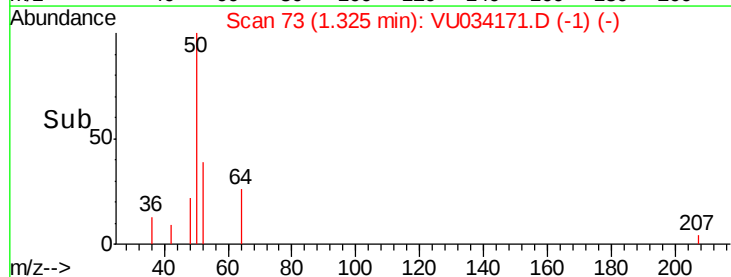
1000

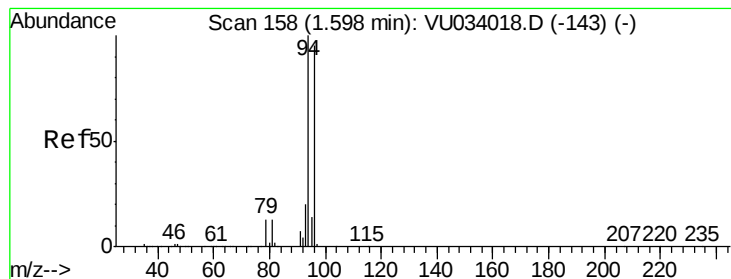
500

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 152

Delta R.T. -0.02 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

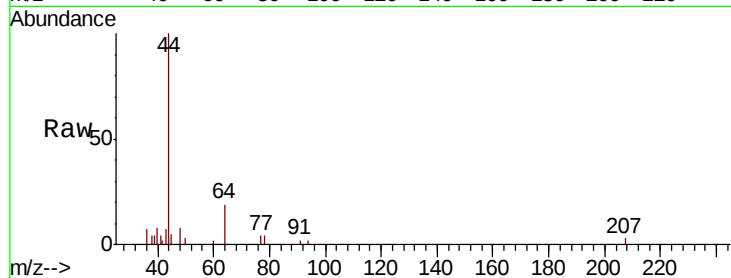
ClientSampleId :

Tot Ion: 94 Resp: 64

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.58

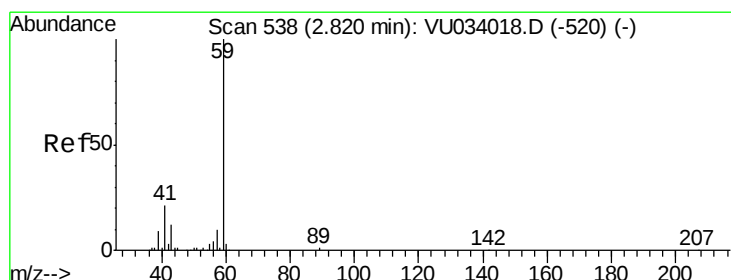
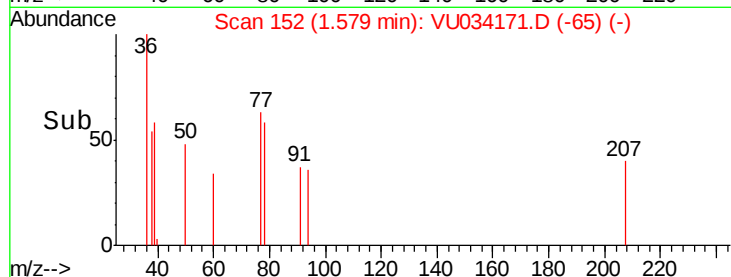
100

50

0

1.57 1.58 1.59

Time-->



#11

Tert butyl alcohol

Concen: 3.144 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034171.D

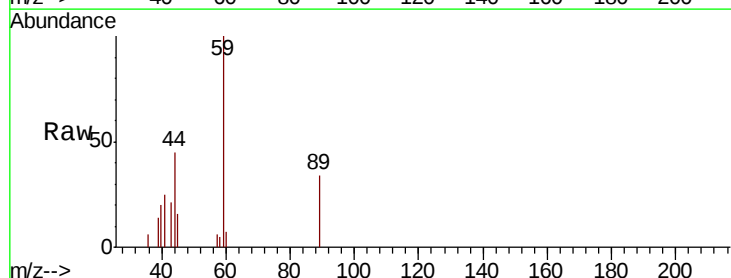
Acq: 01 Sep 2019 16:06

Tgt Ion: 59 Resp: 4266

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

2000

1500

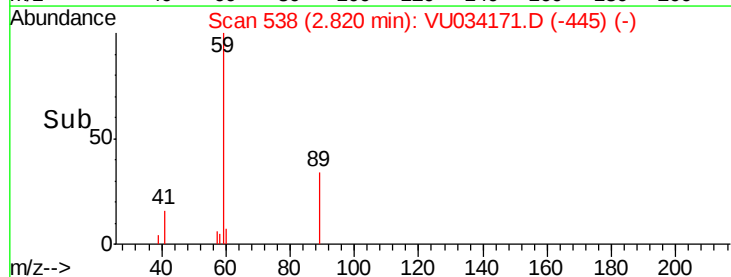
1000

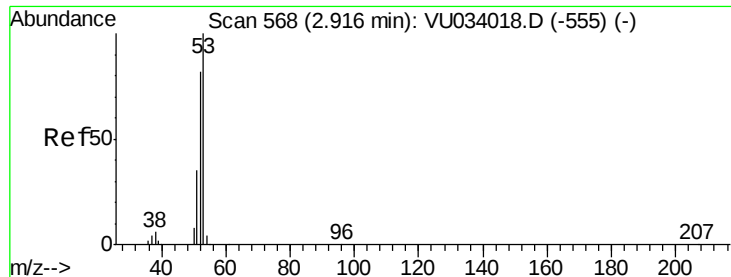
500

0

2.75 2.80 2.85 2.90

Time-->





#15

Acrylonitrile

Concen: 0.219 ug/l

RT: 2.98 min Scan# 589

Delta R.T. 0.07 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :

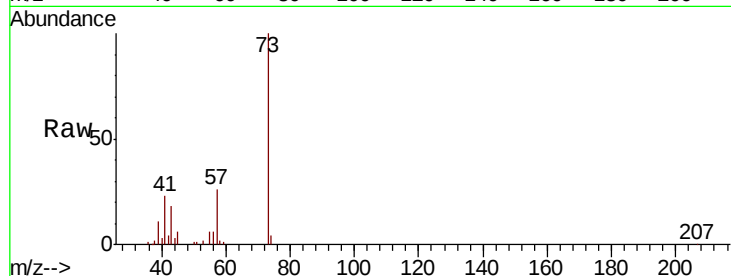
Tot Ion: 53 Resp: 681

Ion Ratio Lower Upper

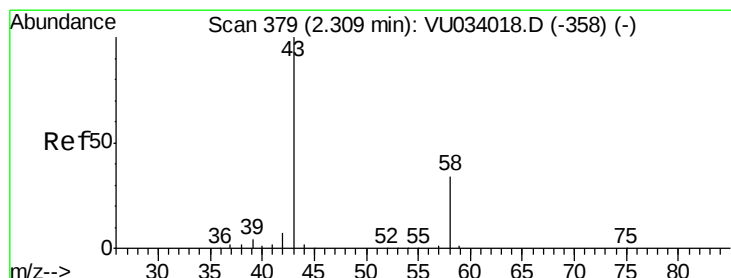
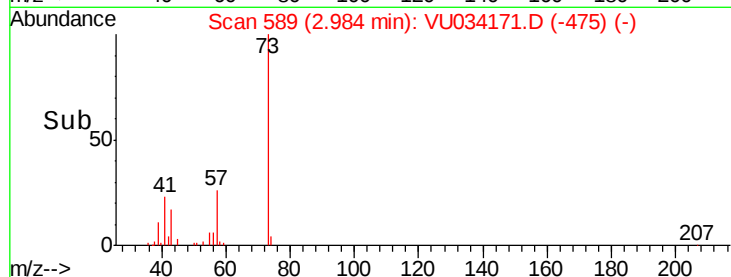
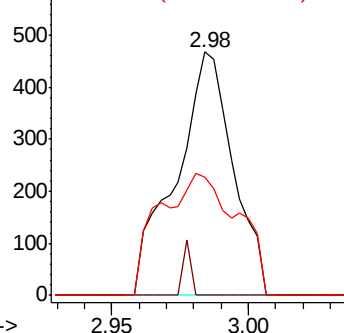
53 100

52 2.9 65.7 98.5#

51 68.4 27.9 41.9#



Abundance Ion 53.00 (52.70 to 53.70): VU0
Ion 52.00 (51.70 to 52.70): VU0
Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 3.532 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034171.D

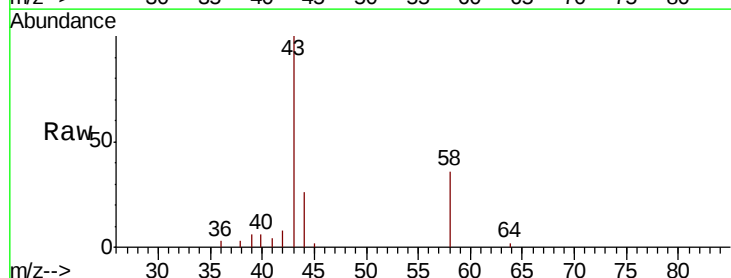
Acq: 01 Sep 2019 16:06

Tgt Ion: 43 Resp: 10604

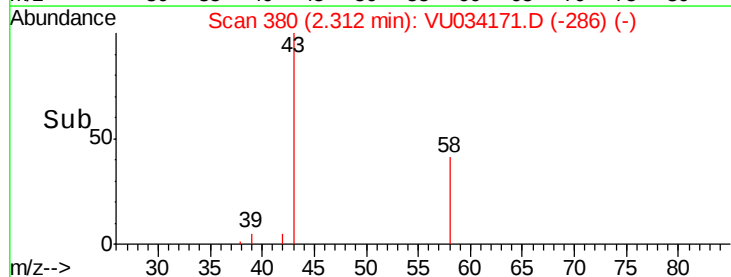
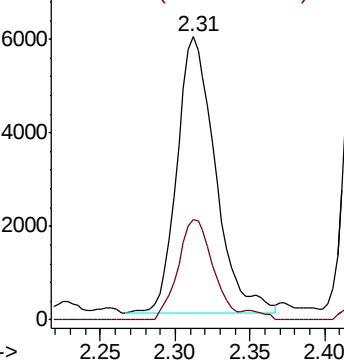
Ion Ratio Lower Upper

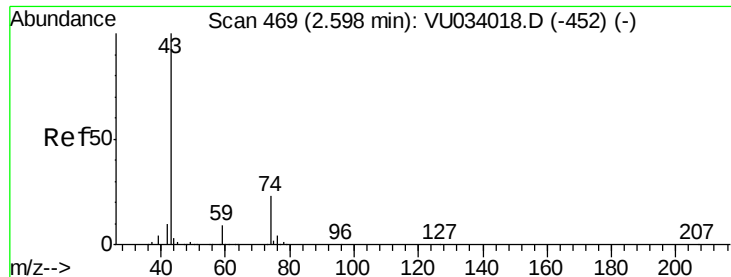
43 100

58 36.5 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

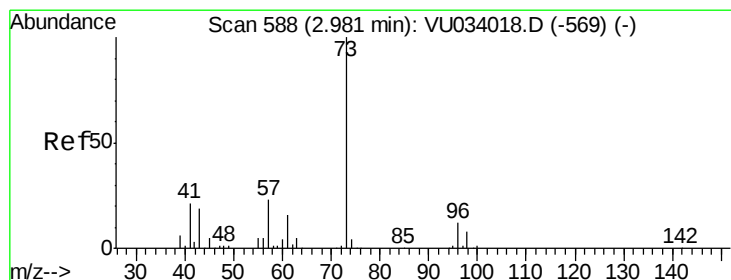
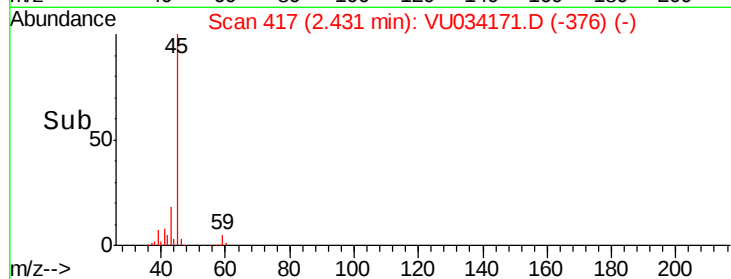
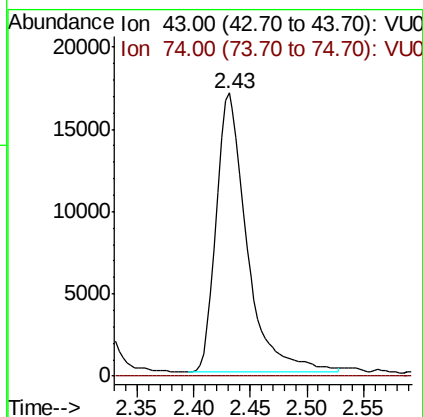
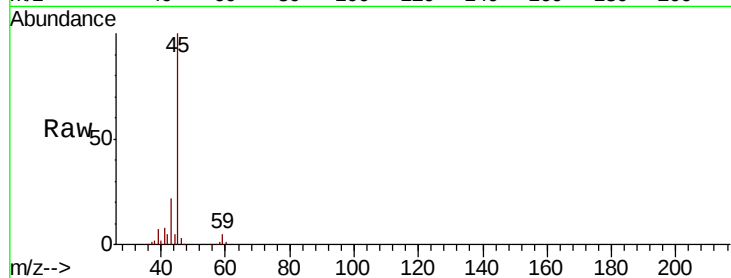




#18
Methyl Acetate
Concen: 4.146 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

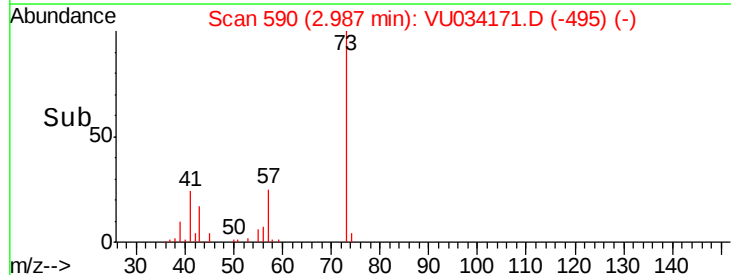
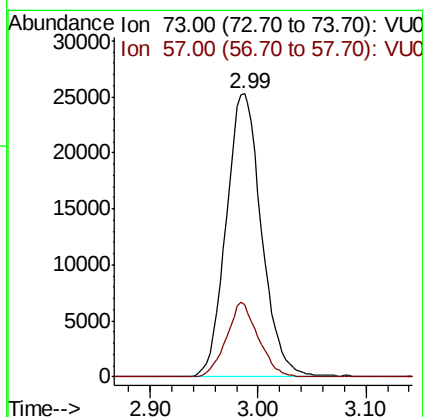
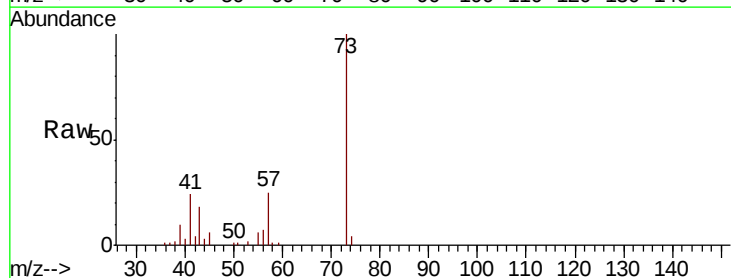
Instrument :
MSVOA_U
ClientSampleId :

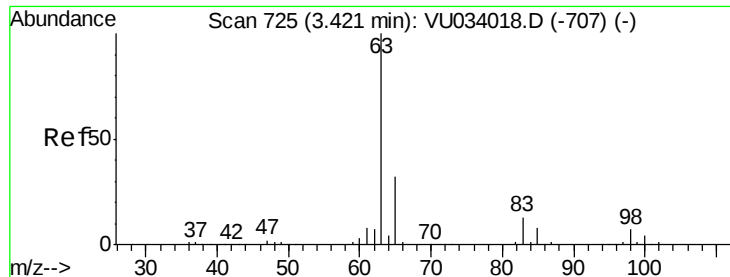
Tot Ion: 43 Resp: 32164
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#19
Methyl tert-butyl Ether
Concen: 3.834 ug/l
RT: 2.99 min Scan# 590
Delta R.T. 0.01 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

Tgt Ion: 73 Resp: 57749
Ion Ratio Lower Upper
73 100
57 25.4 18.3 27.5





#24

1,1-Dichloroethane

Concen: 0.744 ug/l

RT: 3.43 min Scan# 728

Delta R.T. 0.01 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

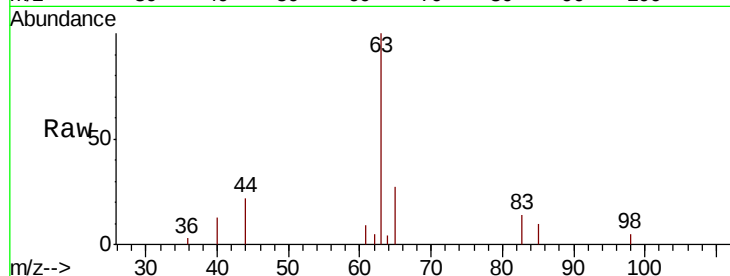
Tot Ion: 63 Resp: 6956

Ion Ratio Lower Upper

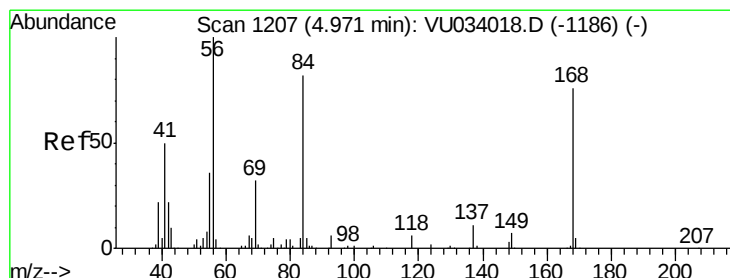
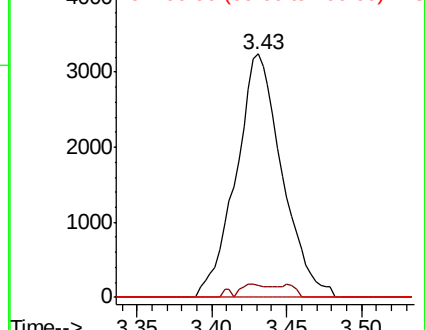
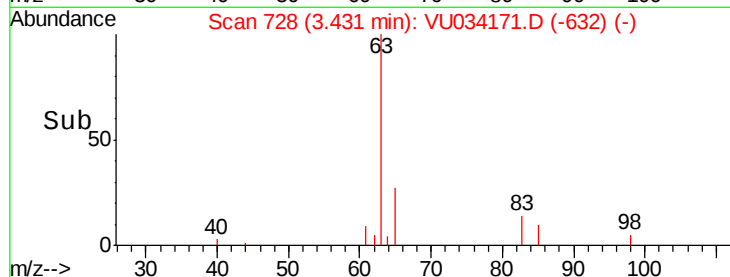
63 100

98 4.7 3.3 9.8

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VU034171.D (-632) (-)



#31

Cyclohexane

Concen: 0.935 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

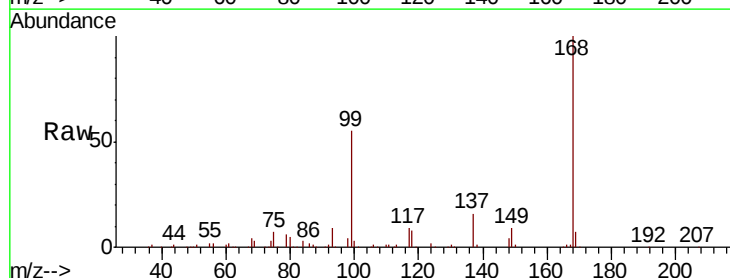
Tgt Ion: 56 Resp: 8213

Ion Ratio Lower Upper

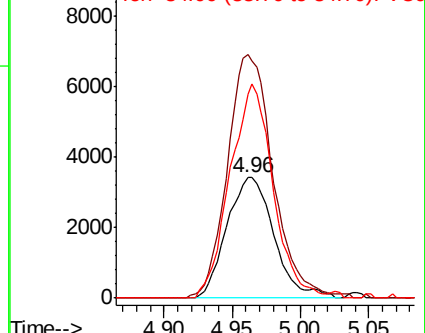
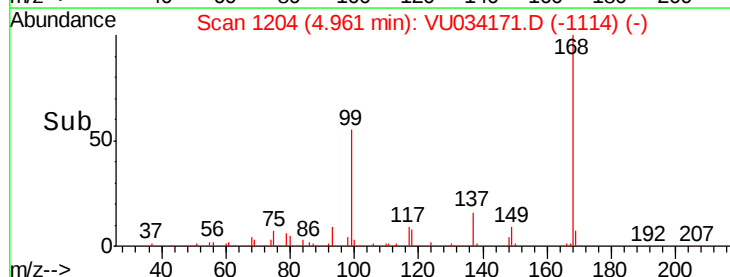
56 100

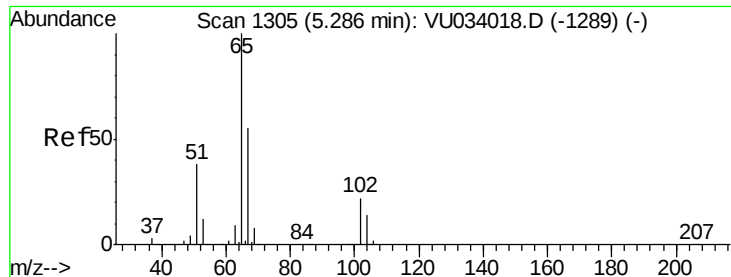
69 198.9 25.4 38.0#

84 169.2 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034171.D (-1114) (-)





#33

1,2-Dichloroethane-d4

Concen: 48.952 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

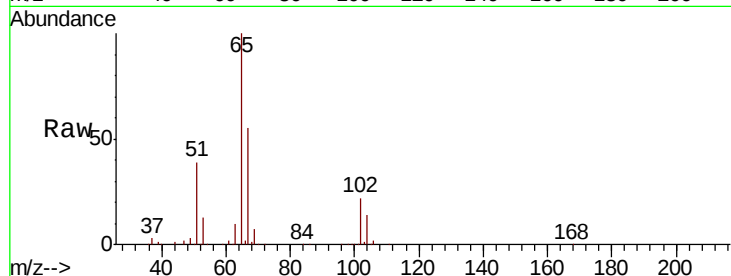
ClientSampleId :

Tot Ion: 65 Resp: 287997

Ion Ratio Lower Upper

65 100

67 55.3 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034171.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034171.D (-1289) (-)

150000

100000

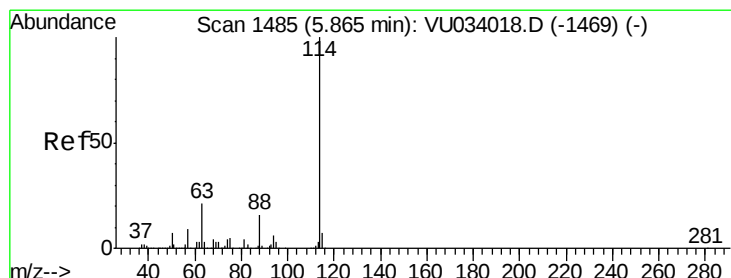
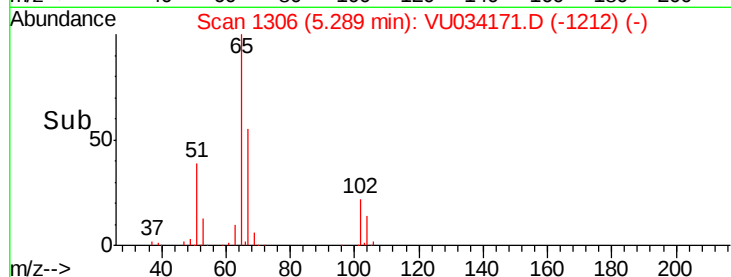
50000

0

5.29

5.20 5.30 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

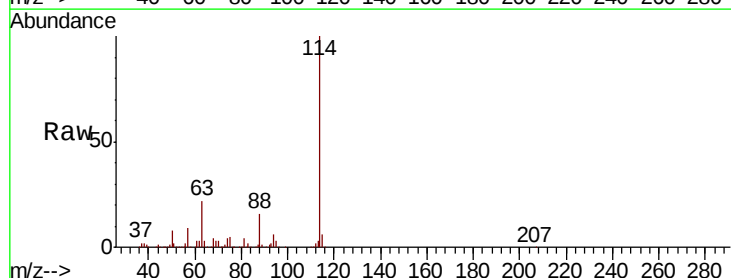
Tgt Ion: 114 Resp: 736073

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.0

88 15.9 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034171.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034171.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034171.D (-1469) (-)

400000

300000

200000

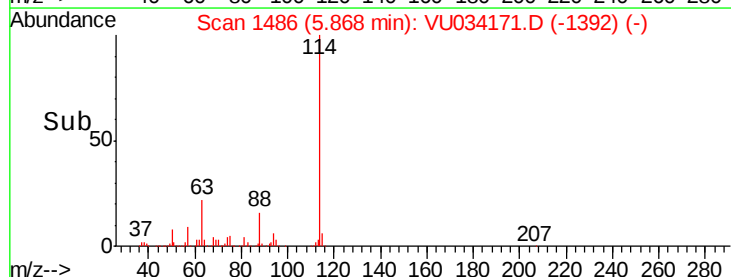
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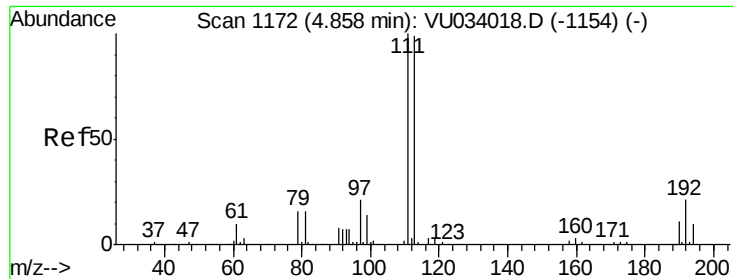
0

5.87

5.80 5.90 6.00 6.10

Time-->

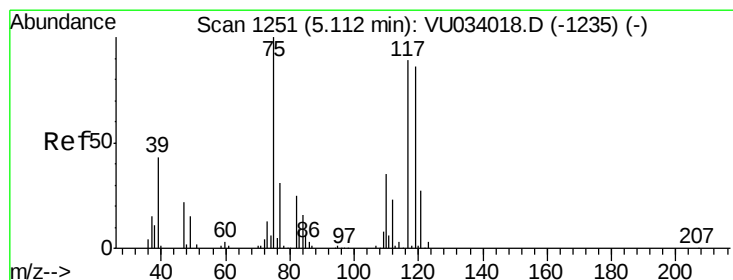
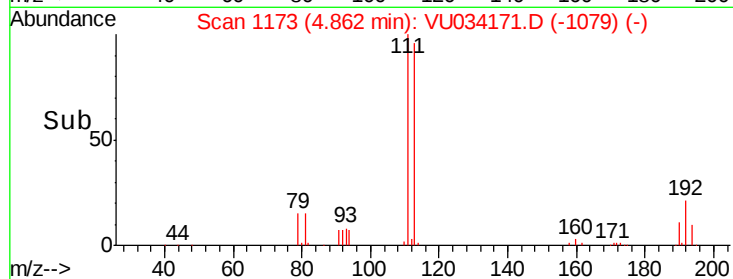
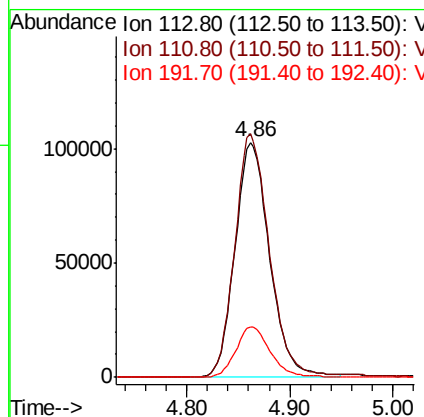
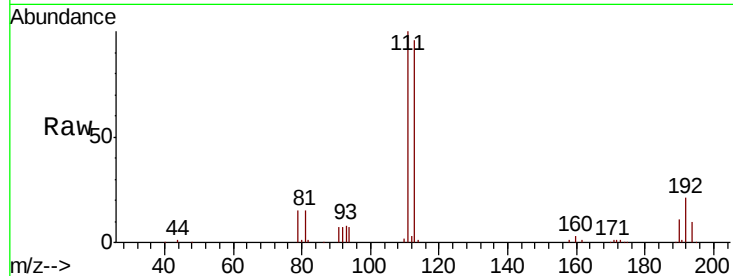




#35
 Dibromofluoromethane
 Concen: 47.301 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034171.D
 Acq: 01 Sep 2019 16:06

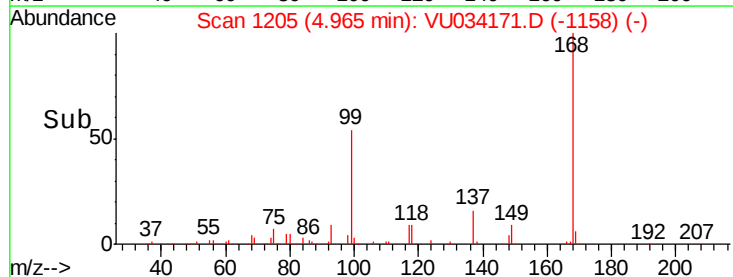
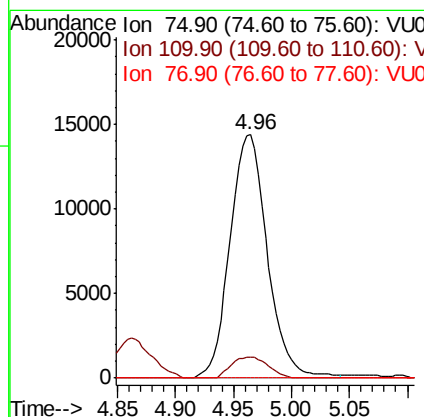
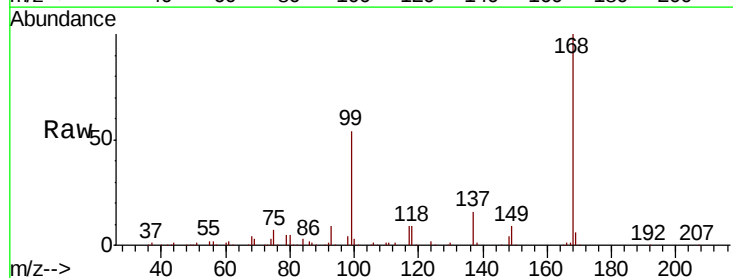
Instrument :
 MSVOA_U
 ClientSampled :

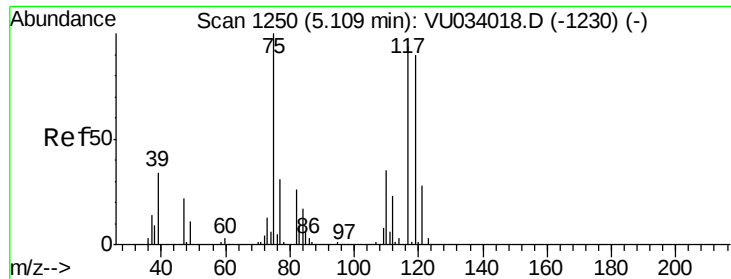
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.7	122.5
192	21.3	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.623 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034171.D
 Acq: 01 Sep 2019 16:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.207 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

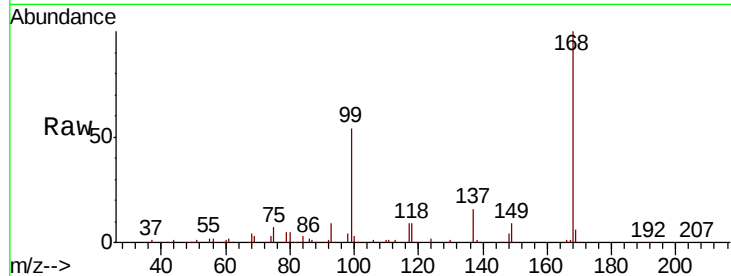
Tot Ion:117 Resp: 41714

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

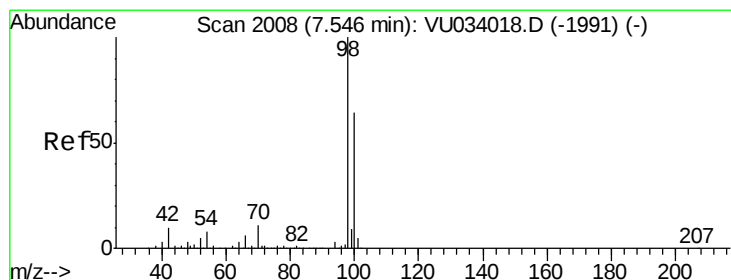
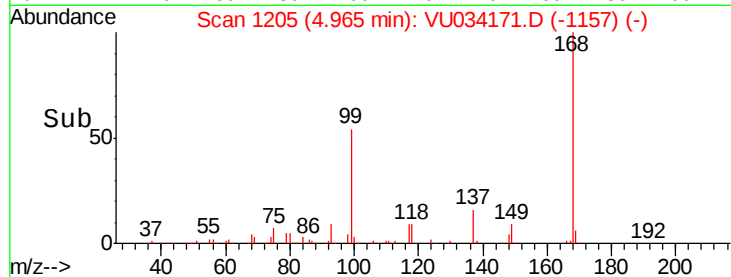
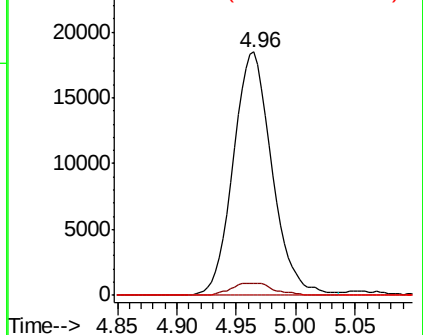
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.662 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034171.D

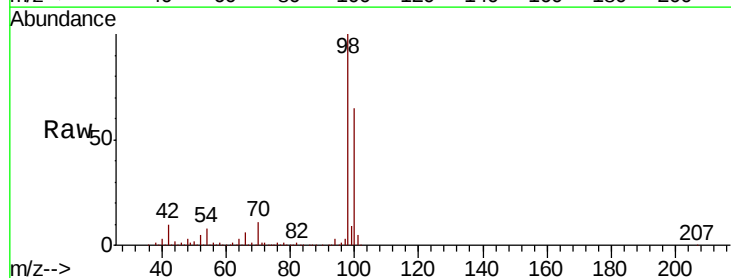
Acq: 01 Sep 2019 16:06

Tgt Ion: 98 Resp: 930229

Ion Ratio Lower Upper

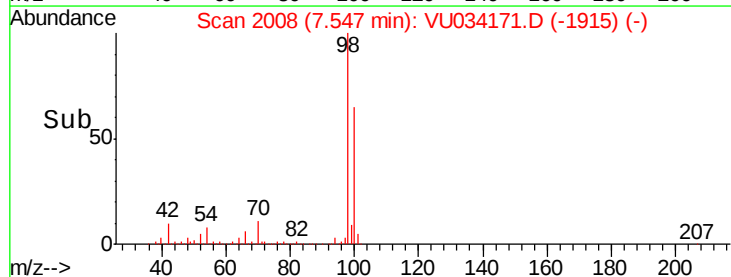
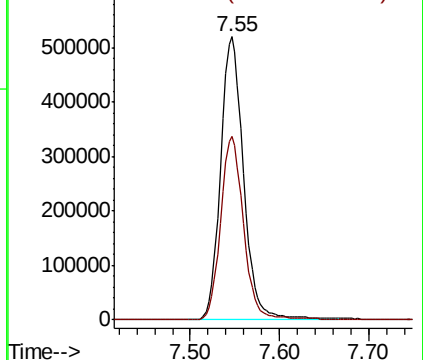
98 100

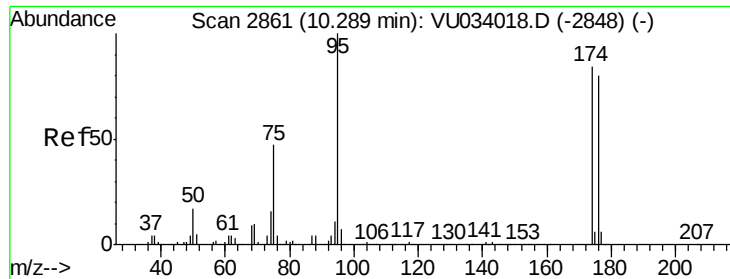
100 64.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 44.452 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

ClientSampled :

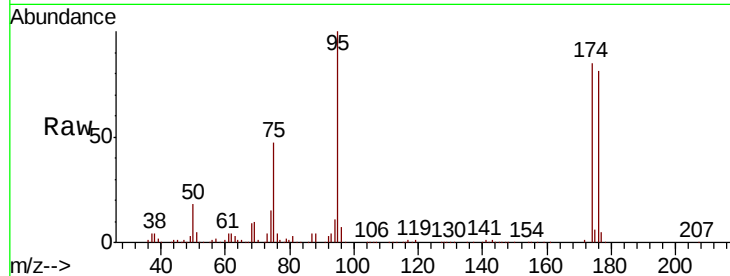
Tot Ion: 95 Resp: 330547

Ion Ratio Lower Upper

95 100

174 84.8 0.0 168.8

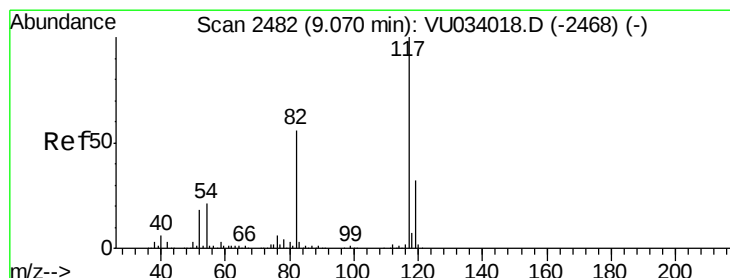
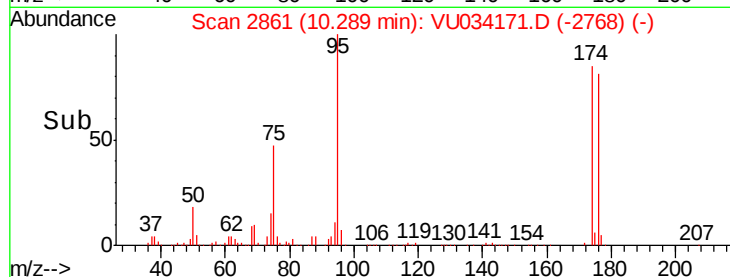
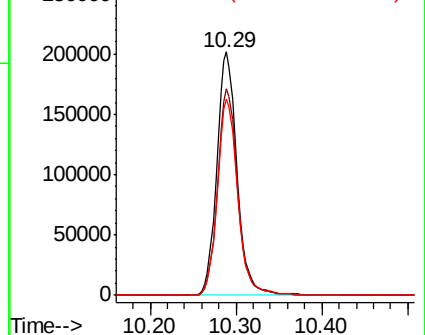
176 81.0 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034171.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034171.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034171.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

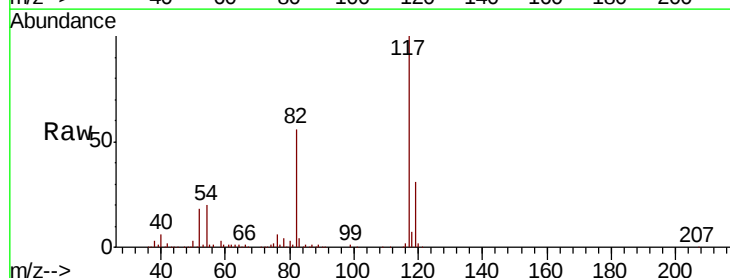
Tgt Ion: 117 Resp: 710113

Ion Ratio Lower Upper

117 100

82 55.8 45.1 67.7

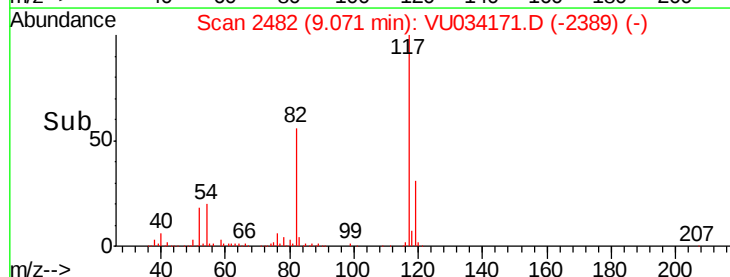
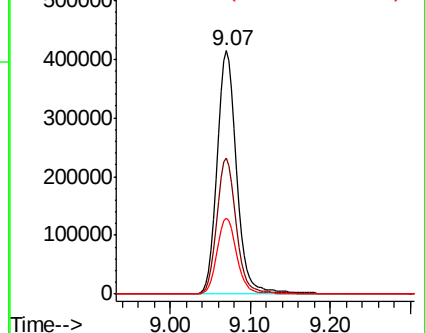
119 31.3 25.4 38.0

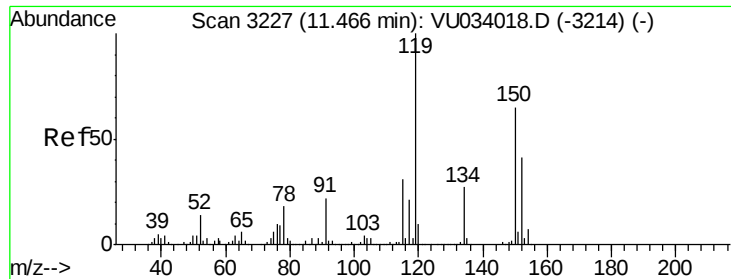


Abundance Ion 116.90 (116.60 to 117.60): VU034171.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034171.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034171.D (-2389) (-)



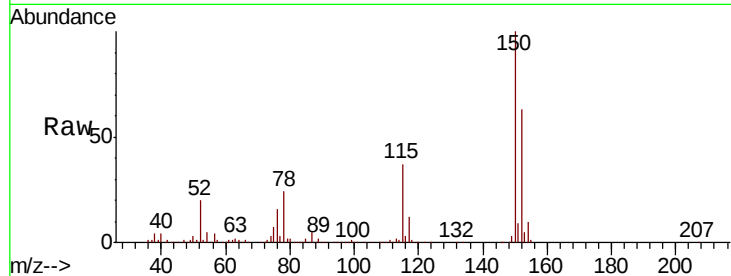


#72

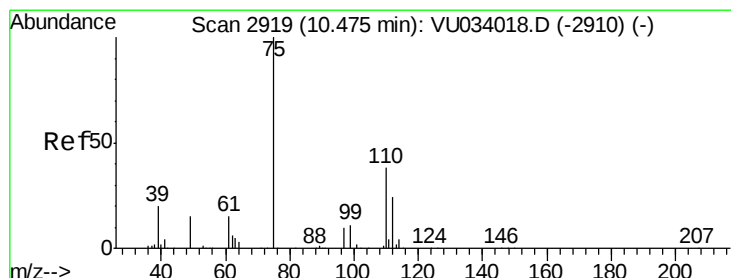
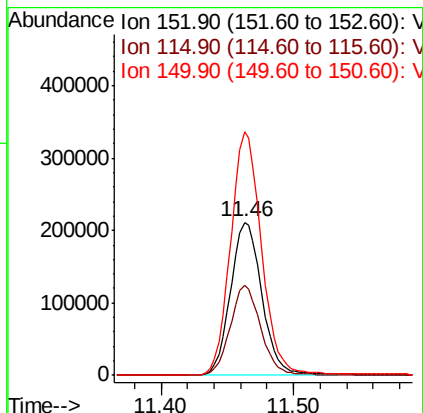
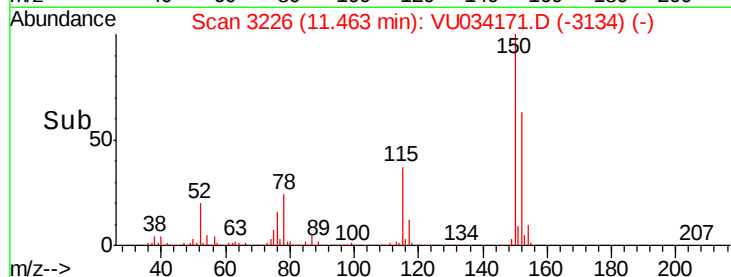
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.8	41.1	123.3
150	157.7	0.0	348.8



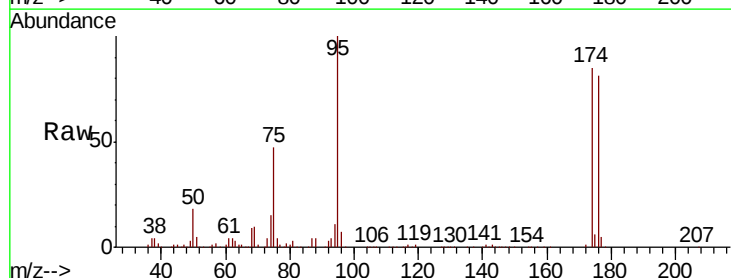
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



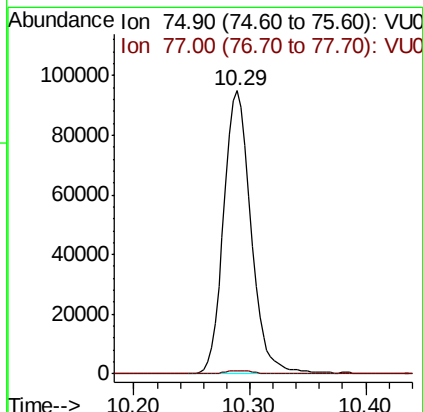
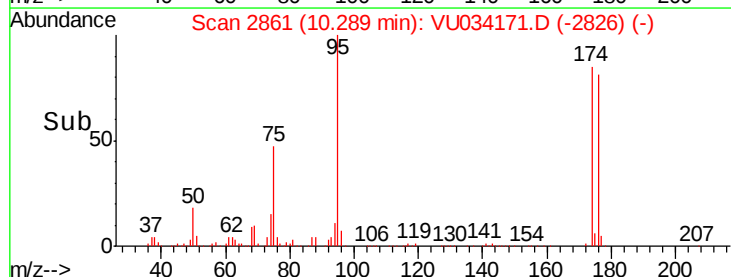
#76

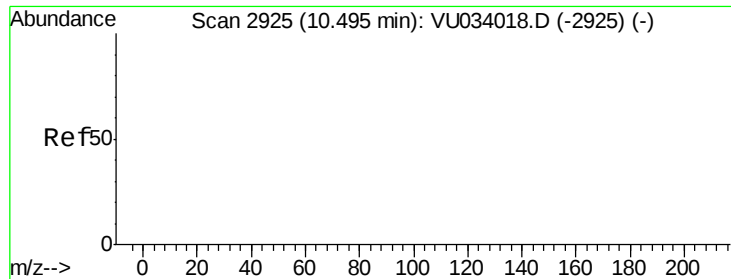
1,2,3-Trichloropropane
Concen: 19.798 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.1	60.2



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

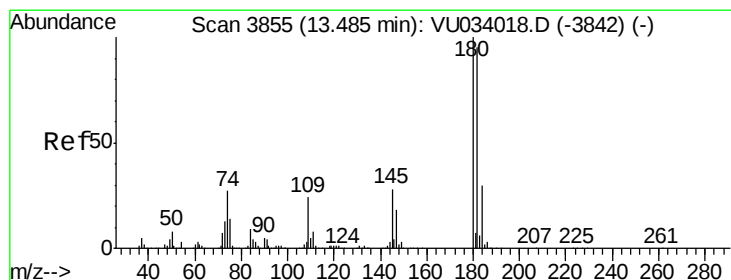
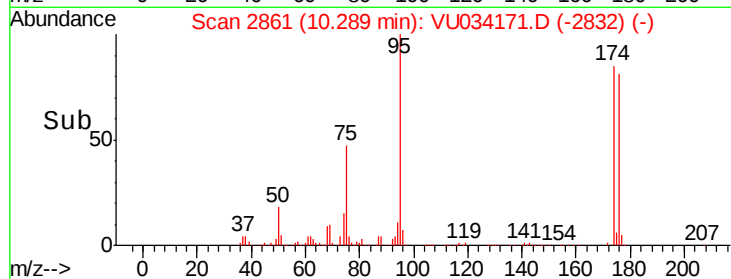
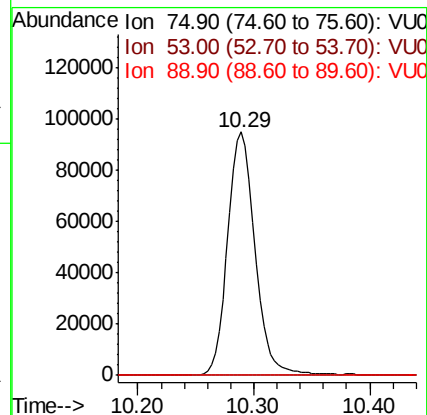
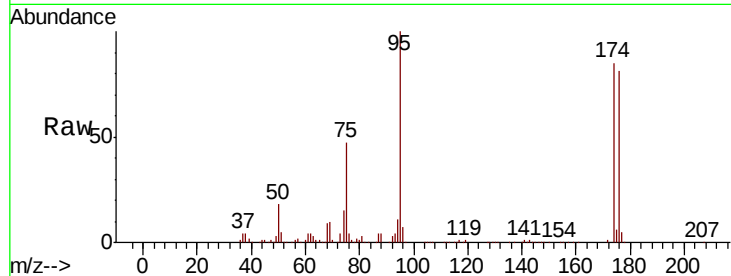




#81
trans-1,4-Dichloro-2-butene
Concen: 66.663 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

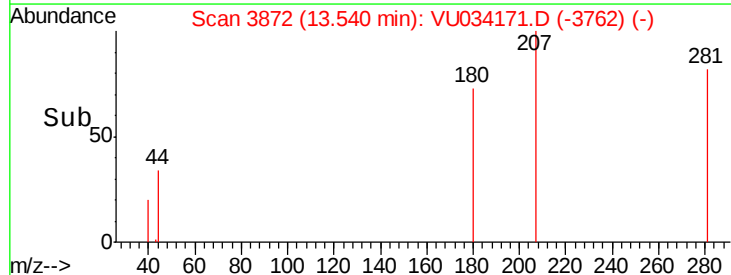
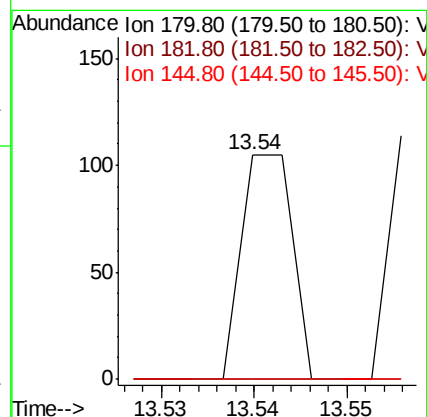
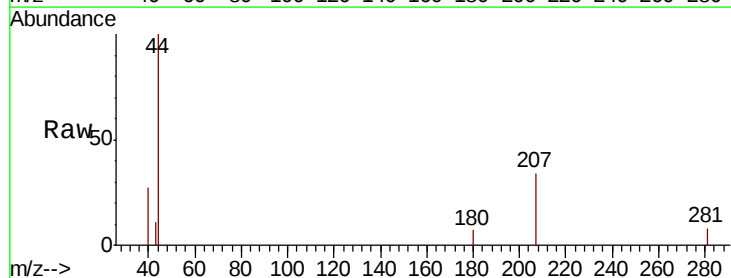
Instrument :
MSVOA_U
ClientSampleId :

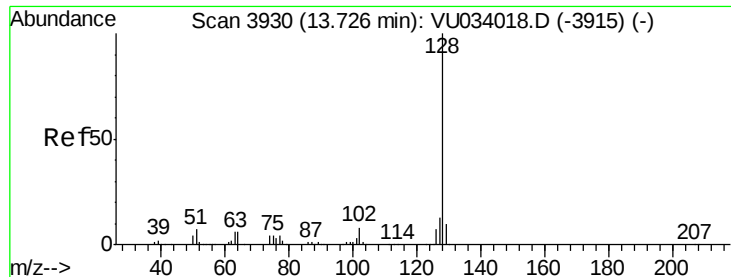
Tot Ion: 75 Resp: 155172
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.119 ug/l
RT: 13.54 min Scan# 3872
Delta R.T. 0.05 min
Lab File: VU034171.D
Acq: 01 Sep 2019 16:06

Tgt Ion: 180 Resp: 40
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 14.1 42.3#





#95

Naphthalene

Concen: 1.802 ug/l

RT: 13.78 min Scan# 3948

Delta R.T. 0.06 min

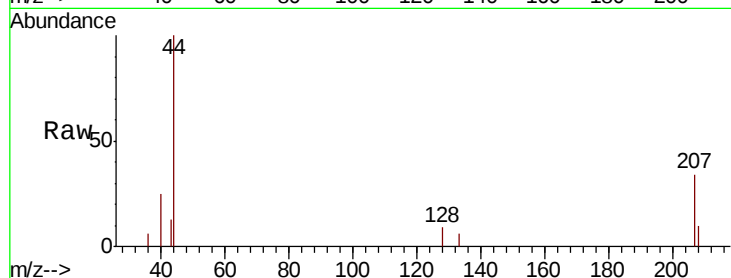
Lab File: VU034171.D

Acq: 01 Sep 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :



Tot Ion:	128	Resp:	264
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

