

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020619\
 Data File : VU029356.D
 Acq On : 06 Feb 2019 10:43
 Operator : JC/SP
 Sample : VU0206WBL01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

Quant Time: Feb 08 12:17:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	51845	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	19720	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	19353	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	193	0.010	ug/l # 43
3) Chloromethane	1.33	50	592	0.033	ug/l # 51
4) Vinyl Chloride	1.42	62	71	0.003	ug/l 96
5) Bromomethane	1.62	94	328	0.028	ug/l 90
6) Chloroethane	1.53	64	360	0.030	ug/l 99
7) Trichlorofluoromethane	1.88	101	216	0.007	ug/l # 56
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	138	0.009	ug/l # 69
9) 1,1-Dichloroethene	2.30	96	372	0.025	ug/l 1
11) Allyl Chloride	2.77	41	650	0.026	ug/l 96
14) Carbon Disulfide	2.48	76	2432	0.046	ug/l # 88
16) trans-1,2-Dichloroethene	2.98	96	226	0.014	ug/l # 35
17) 1,1-Dichloroethane	3.45	63	162	0.006	ug/l # 93
19) Cyclohexane	5.00	56	190	0.008	ug/l # 3
20) Methylcyclohexane	6.18	83	127	0.005	ug/l 91
21) 2,2-Dichloropropane	4.06	77	353	0.014	ug/l 99
22) cis-1,2-Dichloroethene	4.22	96	40	0.003	ug/l # 1
23) Diethyl Ether	2.11	59	411	0.034	ug/l # 58
25) Methyl tert-Butyl Ether	3.01	73	369	0.009	ug/l # 47
26) Bromochloromethane	4.54	128	42	0.006	ug/l # 1
27) Chloroform	4.68	83	206	0.008	ug/l 84
28) 1,1,1-Trichloroethane	4.92	97	321	0.013	ug/l # 22
29) 1,1-Dichloropropene	5.14	75	100	0.005	ug/l # 1
30) Carbon Tetrachloride	5.13	117	46	0.002	ug/l # 85
31) Isopropyl Ether	3.61	45	56	0.001	ug/l # 1
32) Ethyl-t-butyl ether	4.23	59	241	0.006	ug/l # 36
33) Tert-Amyl methyl ether	5.57	73	333	0.009	ug/l # 62
35) Benzene	5.40	78	507	0.009	ug/l # 14
37) Trichloroethene	6.19	130	108	0.007	ug/l # 1
39) Methacrylonitrile	4.55	41	50	0.010	ug/l # 1
40) Methyl acrylate	4.43	55	159	0.022	ug/l # 43
42) 1-Chlorobutane	5.05	56	257	0.009	ug/l 86
43) Dibromomethane	6.57	93	68	0.009	ug/l # 1
44) Bromodichloromethane	6.77	83	81	0.004	ug/l # 27
47) Methyl methacrylate	6.62	69	122	0.017	ug/l # 1
48) Ethyl methacrylate	8.00	69	71	0.005	ug/l 72
49) Toluene	7.65	92	428	0.012	ug/l # 74
50) t-1,3-Dichloropropene	7.89	75	61	0.003	ug/l # 45
52) 1,1,2-Trichloroethane	8.03	97	44	0.004	ug/l # 5
53) 1,3-Dichloropropane	8.00	76	61	0.003	ug/l # 1
56) 1,2-Dibromoethane	8.59	107	20	0.002	ug/l # 1
58) Tetrachloroethene	8.23	164	236	0.015	ug/l # 75

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

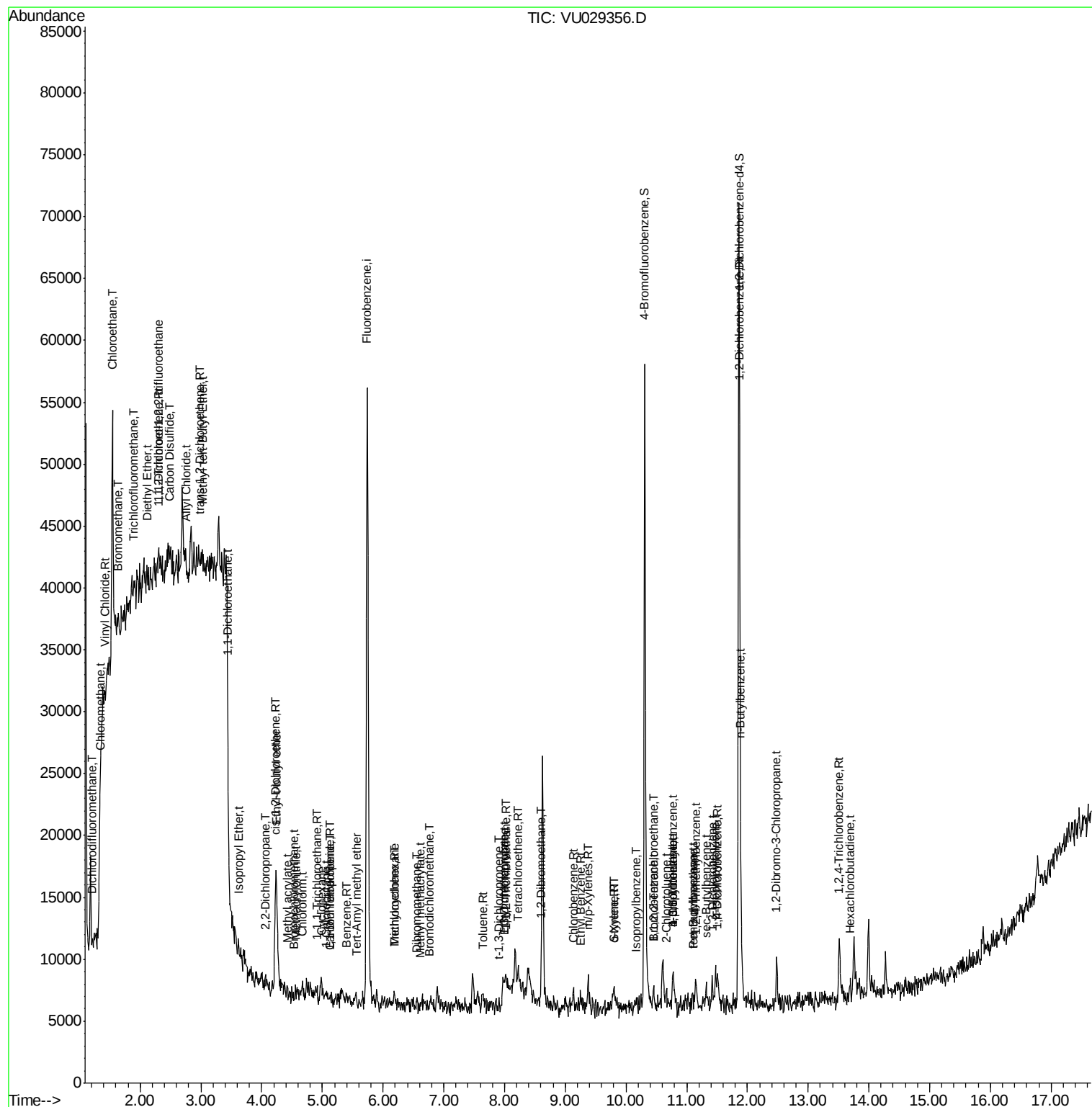
59) Chlorobenzene	9.13	112	755	0.018	ug/l #	42
61) Pentachloroethane	11.11	117	19	0.002	ug/l #	8
63) Ethyl Benzene	9.25	91	1380	0.019	ug/l	100
64) m/p-Xylenes	9.38	106	654	0.023	ug/l	87
65) o-Xylene	9.79	106	247	0.009	ug/l	62
66) Styrene	9.80	104	652	0.014	ug/l #	42
69) Isopropylbenzene	10.17	105	911	0.012	ug/l #	70
70) 1,1,2,2-Tetrachloroethane	10.46	83	282	0.021	ug/l #	84
72) Bromobenzene	10.45	156	325	0.018	ug/l	54
73) n-propylbenzene	10.78	120	382	0.019	ug/l	66
74) 2-Chlorotoluene	10.67	126	305	0.018	ug/l	93
75) 1,3,5-Trimethylbenzene	10.78	105	1127	0.018	ug/l #	81
76) 4-Chlorotoluene	10.78	126	407	0.023	ug/l	94
77) tert-Butylbenzene	11.10	119	809	0.013	ug/l #	79
78) 1,2,4-Trimethylbenzene	11.15	105	1593	0.025	ug/l	87
79) sec-Butylbenzene	11.33	105	1609	0.020	ug/l #	85
81) p-Isopropyltoluene	11.48	119	1672	0.024	ug/l #	88
82) 1,3-Dichlorobenzene	11.42	146	1090	0.031	ug/l	90
83) 1,4-Dichlorobenzene	11.51	146	1410	0.041	ug/l #	89
84) n-Butylbenzene	11.89	91	3182	0.050	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	880	0.027	ug/l #	50
86) 1,2-Dibromo-3-Chloropropan	12.48	75	42	0.017	ug/l #	11
87) 1,2,4-Trichlorobenzene	13.51	180	2023	0.088	ug/l	100
88) Hexachlorobutadiene	13.69	225	555	0.041	ug/l #	84

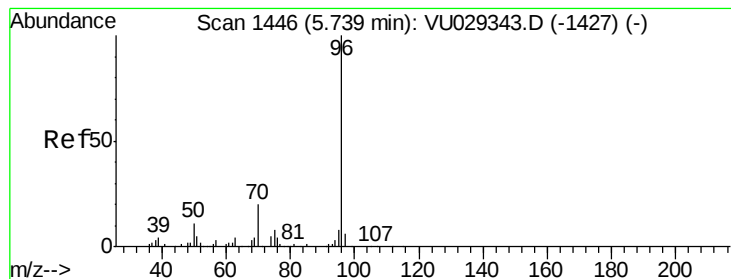
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

VBLK51

Tot Ion: 96 Resp: 51845

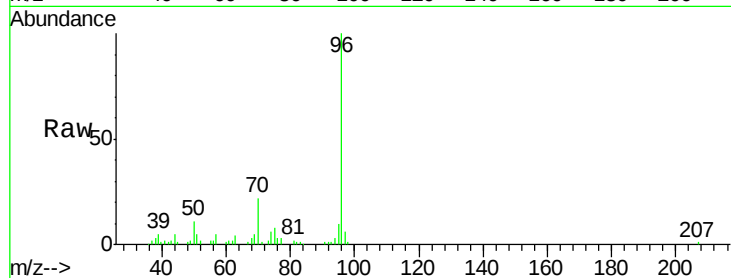
Ion Ratio Lower Upper

96 100

70 18.8 16.2 24.2

95 9.1 7.4 11.2

97 3.2 0.0 0.0#

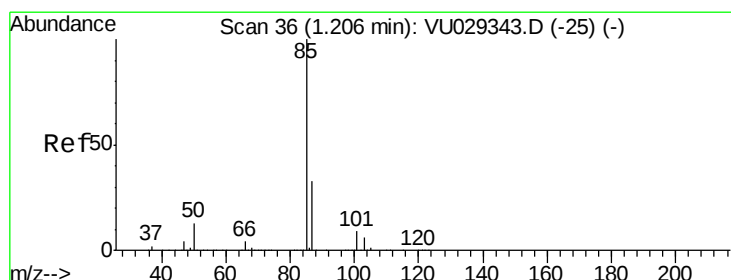
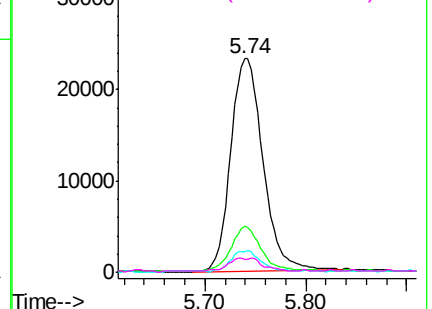
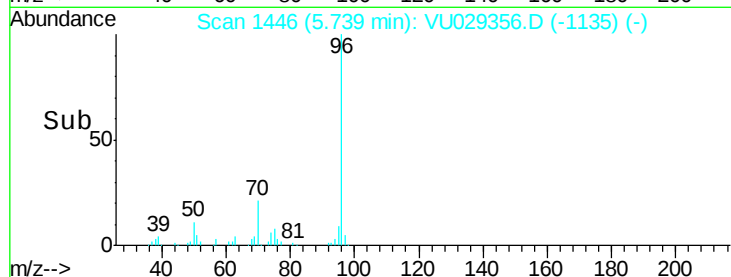


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 0.010 ug/l

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029356.D

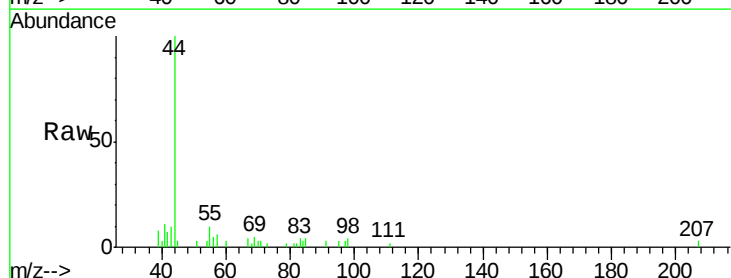
Acq: 06 Feb 2019 10:43

Tgt Ion: 85 Resp: 193

Ion Ratio Lower Upper

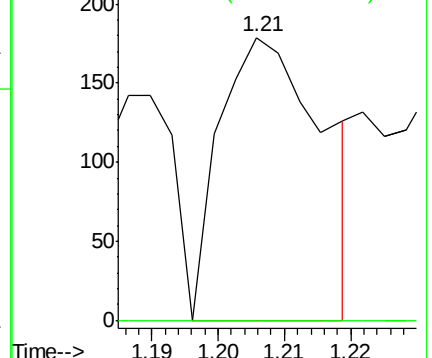
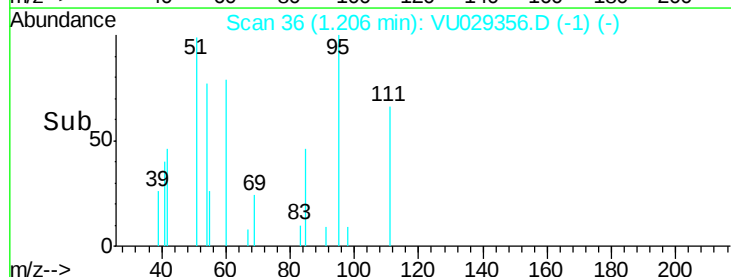
85 100

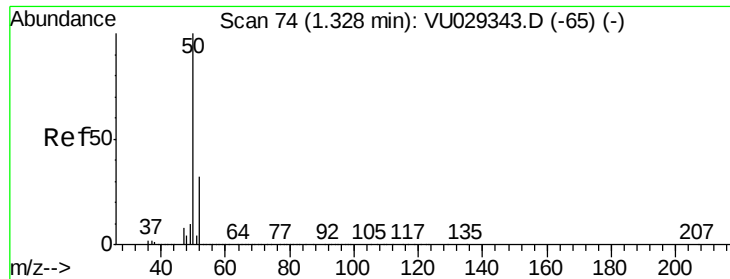
87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.033 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

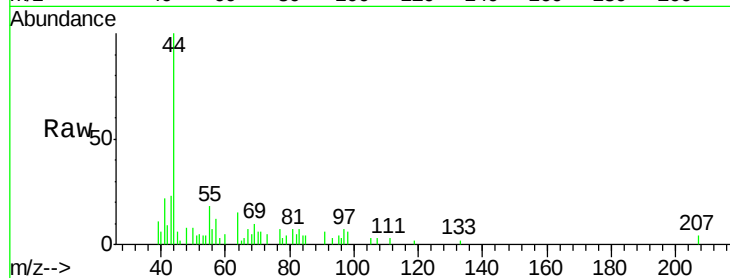
VBLK51

Tot Ion: 50 Resp: 592

Ion Ratio Lower Upper

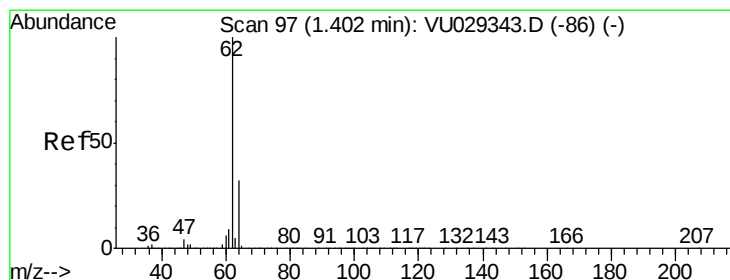
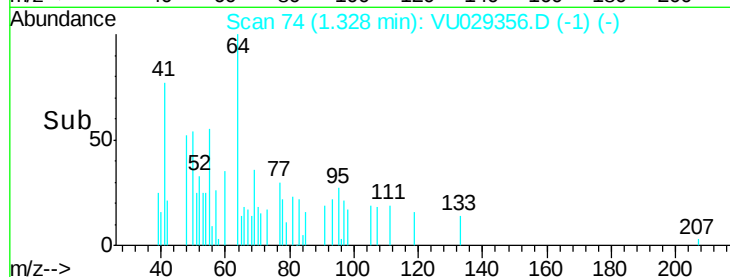
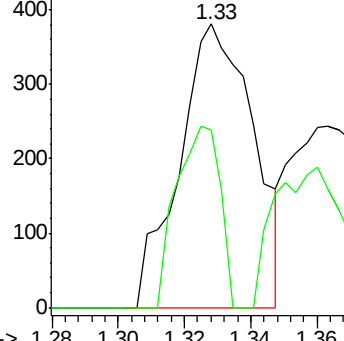
50 100

52 62.5 27.3 40.9#



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 0.003 ug/l

RT: 1.42 min Scan# 104

Delta R.T. 0.02 min

Lab File: VU029356.D

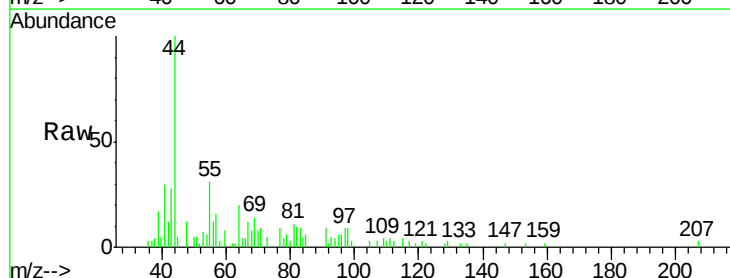
Acq: 06 Feb 2019 10:43

Tgt Ion: 62 Resp: 71

Ion Ratio Lower Upper

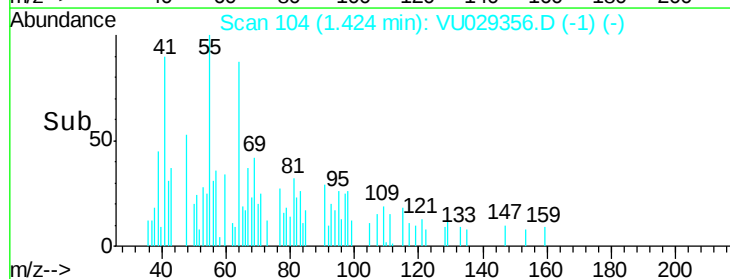
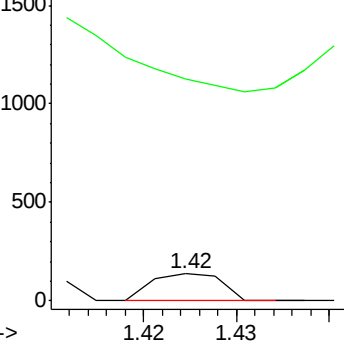
62 100

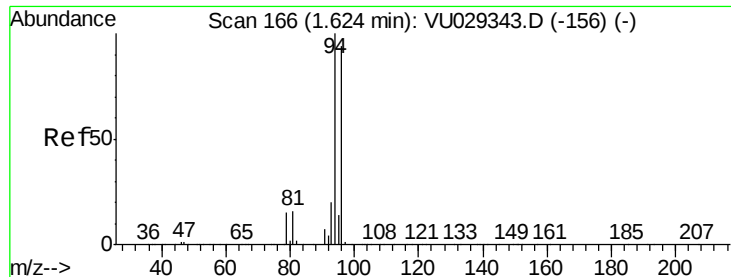
64 33.8 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.028 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

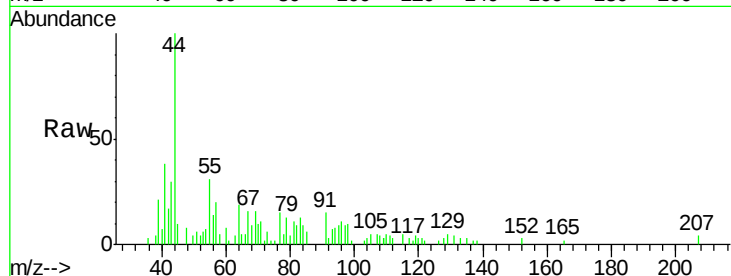
VBLK51

Tot Ion: 94 Resp: 328

Ion Ratio Lower Upper

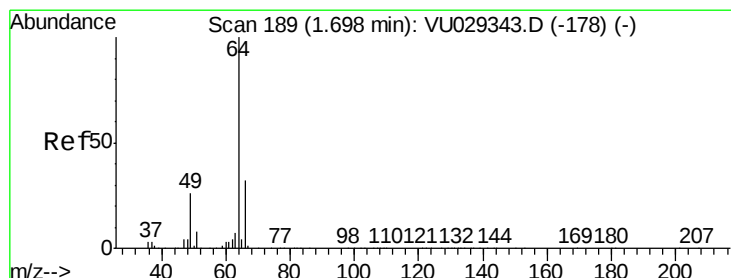
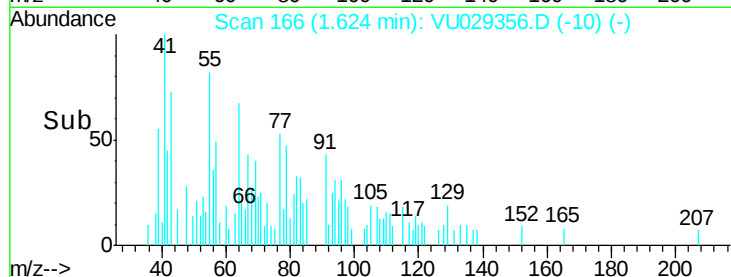
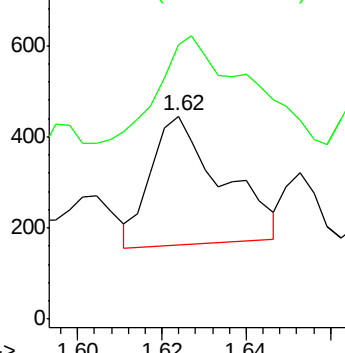
94 100

96 80.6 71.7 107.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 0.030 ug/l

RT: 1.53 min Scan# 137

Delta R.T. -0.17 min

Lab File: VU029356.D

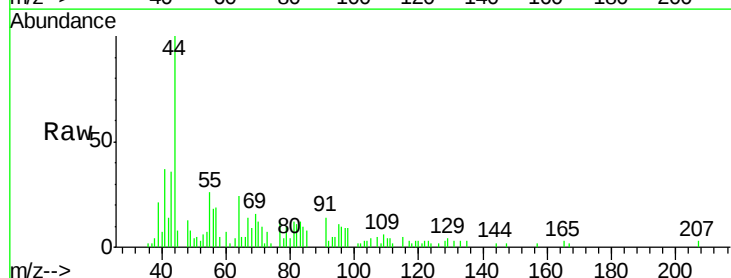
Acq: 06 Feb 2019 10:43

Tgt Ion: 64 Resp: 360

Ion Ratio Lower Upper

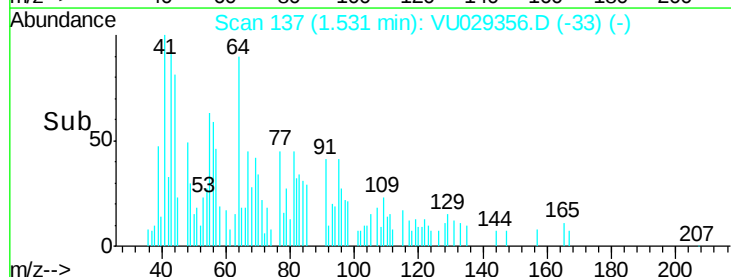
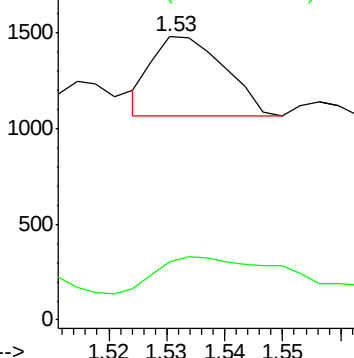
64 100

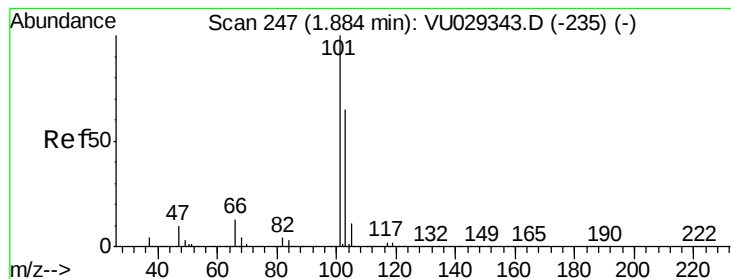
66 33.4 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



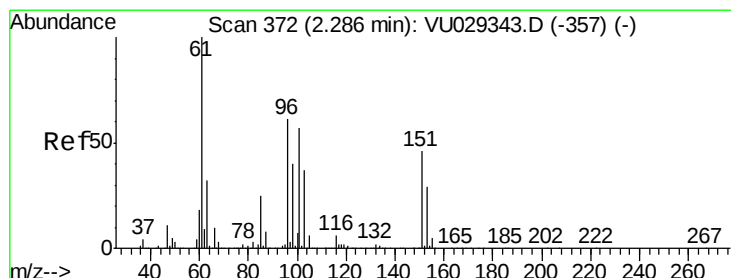
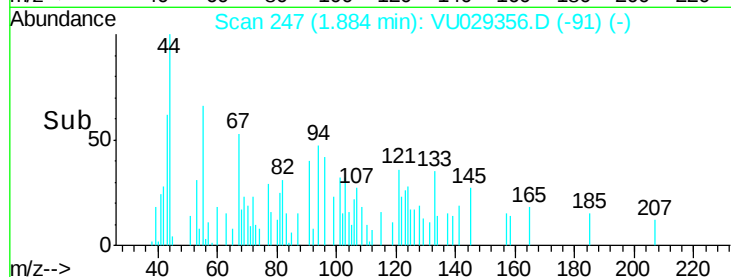
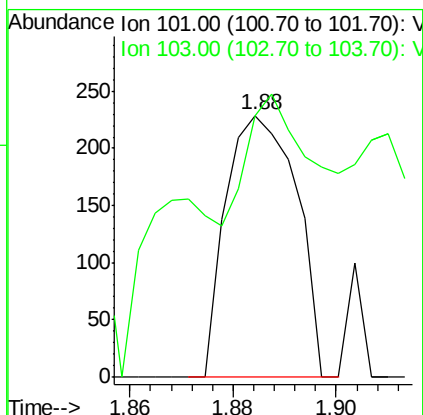
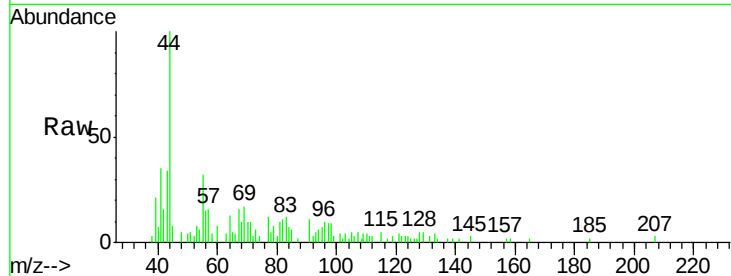


#7

Trichlorofluoromethane
Concen: 0.007 ug/l
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Instrument :
MSVOA_U
ClientSampled :
VBLK51

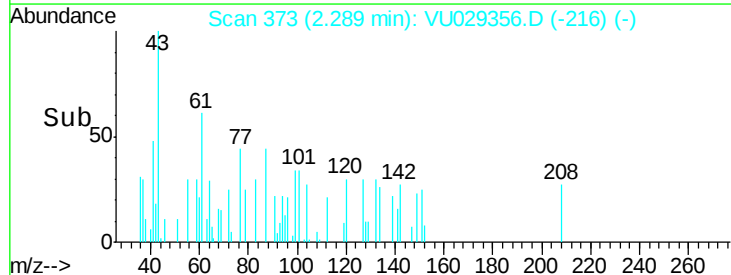
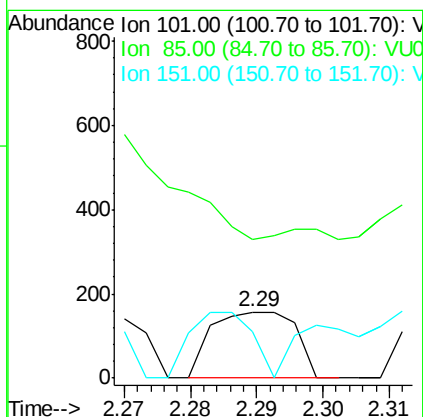
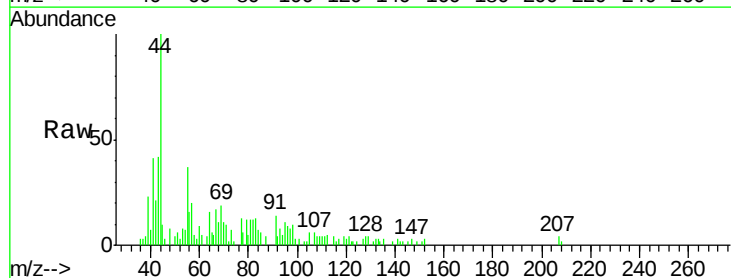
Tot Ion:101 Resp: 216
Ion Ratio Lower Upper
101 100
103 31.9 53.9 80.9#

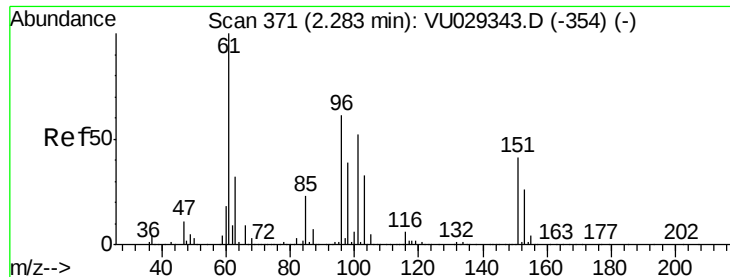


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.009 ug/l
RT: 2.29 min Scan# 373
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion:101 Resp: 138
Ion Ratio Lower Upper
101 100
85 0.0 40.3 60.5#
151 74.6 58.1 87.1





#9

1,1-Dichloroethene

Concen: 0.025 ug/l

RT: 2.30 min Scan# 376

Delta R.T. 0.02 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

VBLK51

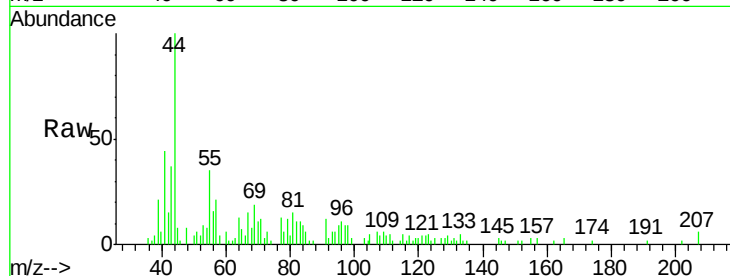
Tot Ion: 96 Resp: 372

Ion Ratio Lower Upper

96 100

61 43.6 0.0 641.4

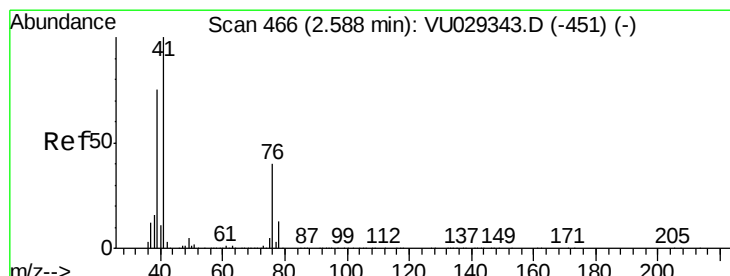
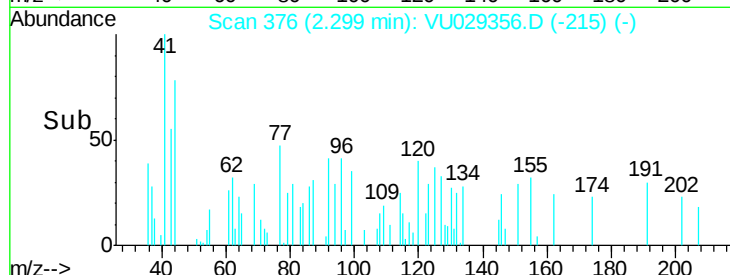
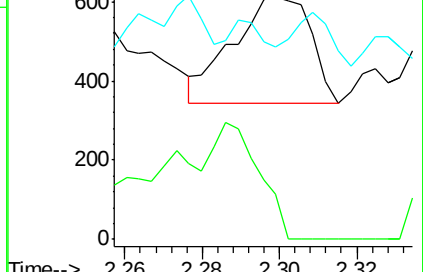
98 3.0 0.0 122.6



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#11

Allyl Chloride

Concen: 0.026 ug/l

RT: 2.77 min Scan# 521

Delta R.T. 0.18 min

Lab File: VU029356.D

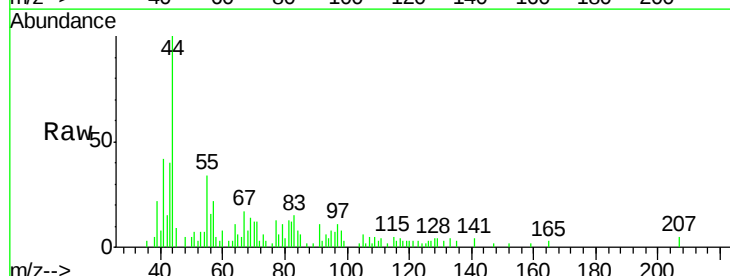
Acq: 06 Feb 2019 10:43

Tgt Ion: 41 Resp: 650

Ion Ratio Lower Upper

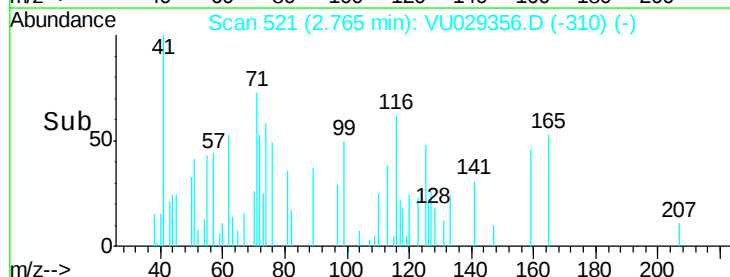
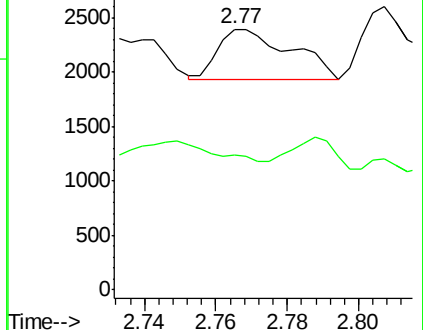
41 100

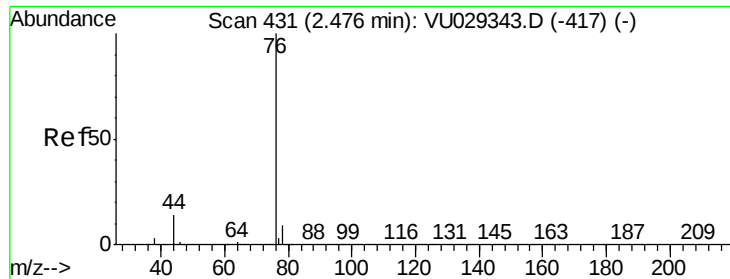
39 87.4 67.2 100.8



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

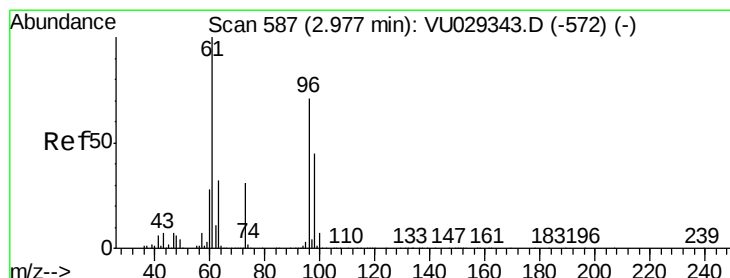
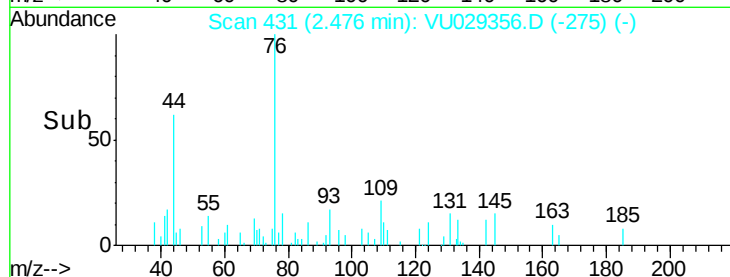
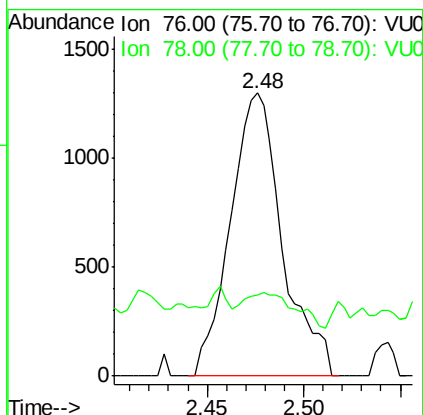
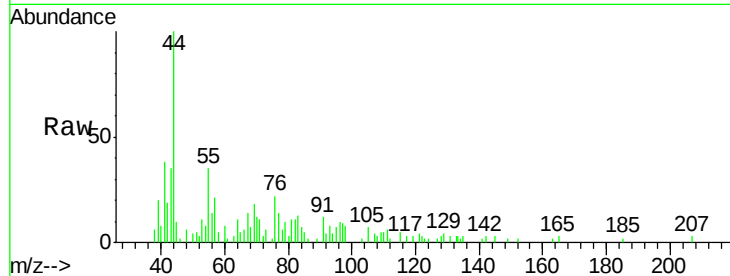




#14
Carbon Disulfide
Concen: 0.046 ug/l
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

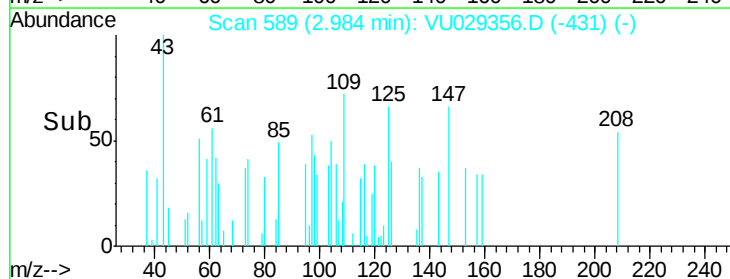
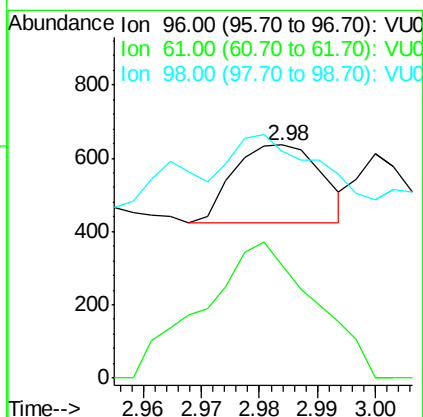
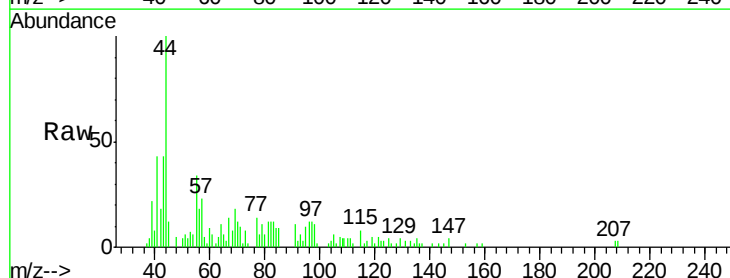
Instrument :
MSVOA_U
ClientSampleId :
VBLK51

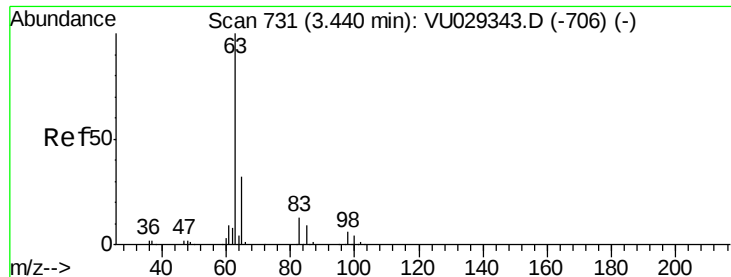
Tot Ion: 76 Resp: 2432
Ion Ratio Lower Upper
76 100
78 4.5 7.1 10.7#



#16
trans-1,2-Dichloroethene
Concen: 0.014 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.01 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion: 96 Resp: 226
Ion Ratio Lower Upper
96 100
61 73.7 140.6 210.8#
98 29.6 49.3 73.9#





#17

1,1-Dichloroethane

Concen: 0.006 ug/l

RT: 3.45 min Scan# 734

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

Tot Ion: 63 Resp: 162

Ion Ratio Lower Upper

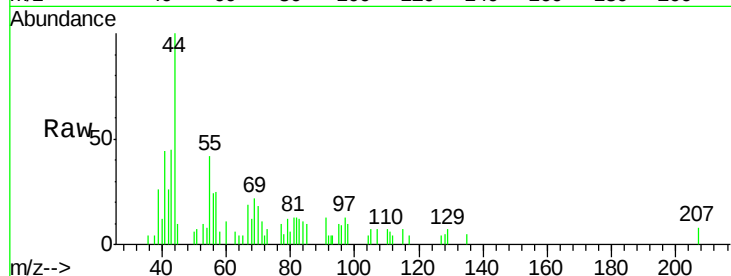
63 100

98 7.7

100 0.0

2.9 8.8

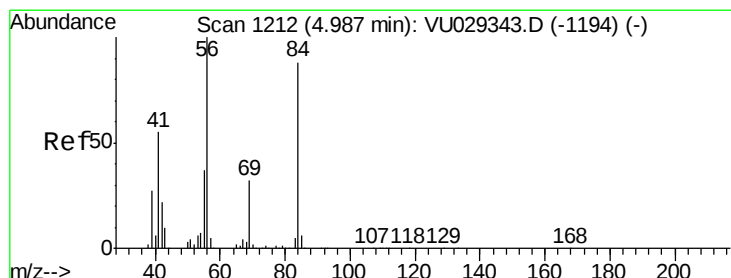
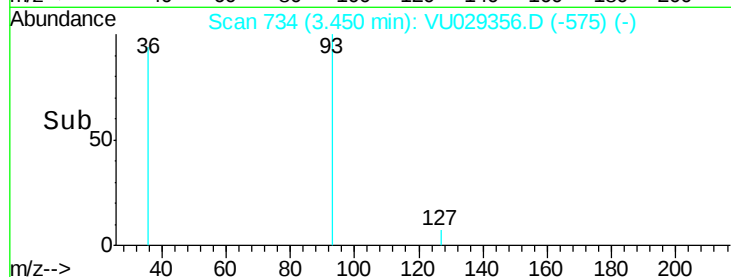
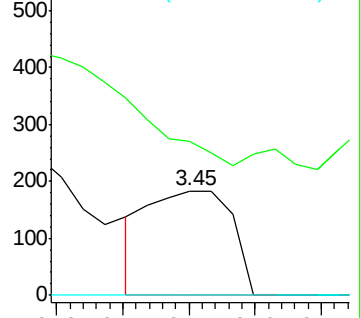
1.7 5.1#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#19

Cyclohexane

Concen: 0.008 ug/l

RT: 5.00 min Scan# 1215

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Tgt Ion: 56 Resp: 190

Ion Ratio Lower Upper

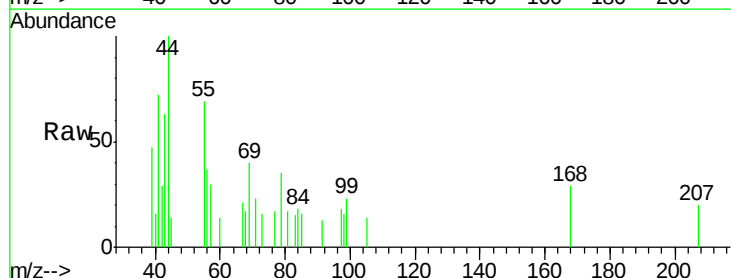
56 100

69 90.5

84 0.0

26.8 40.2#

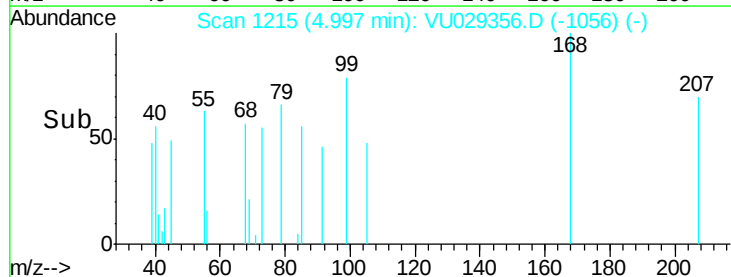
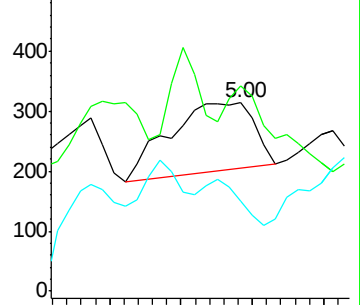
71.5 107.3#

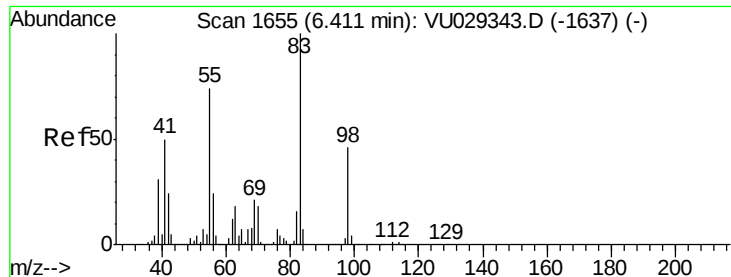


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

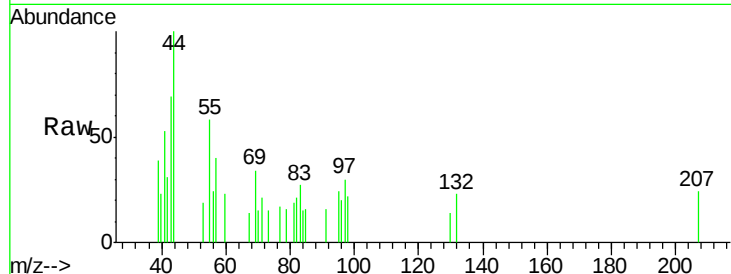




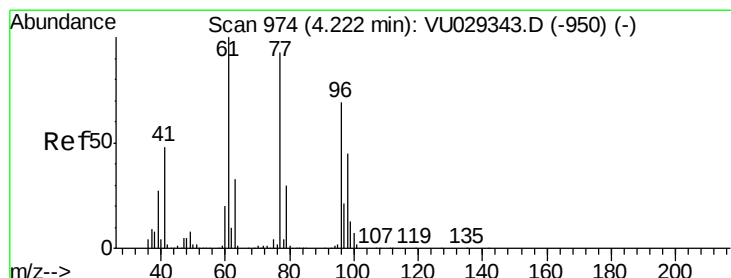
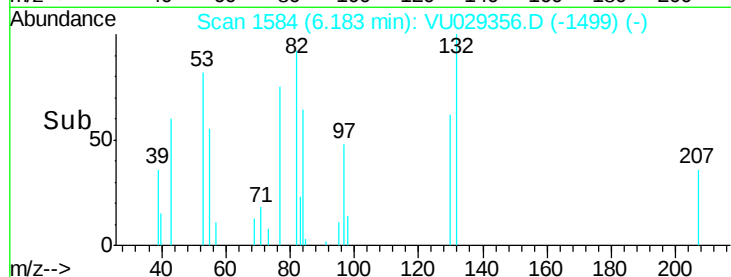
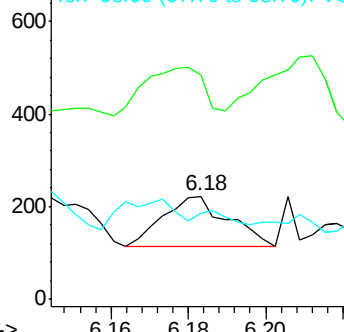
#20
Methvlcvclohexane
Concen: 0.005 ug/l
RT: 6.18 min Scan# 1584
Delta R.T. -0.23 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Instrument :
MSVOA_U
ClientSampleId :
VBLK51

Tot Ion: 83 Resp: 127
Ion Ratio Lower Upper
83 100
55 81.9 72.4 108.6
98 39.4 36.6 54.8

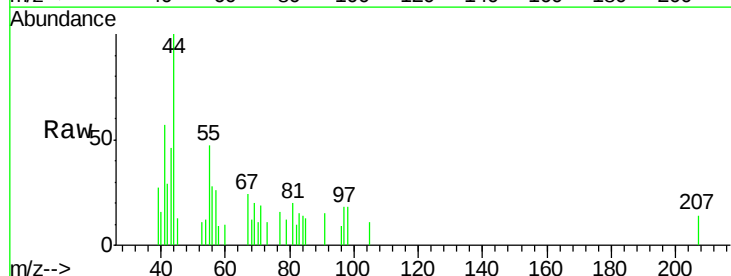


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

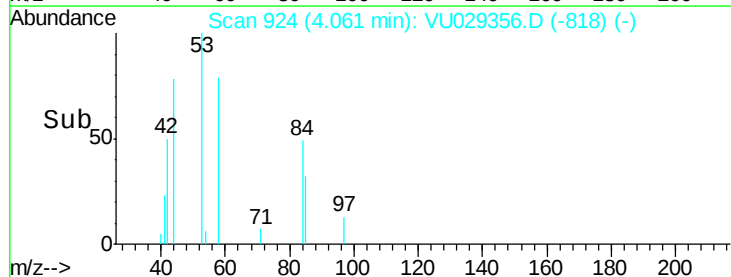
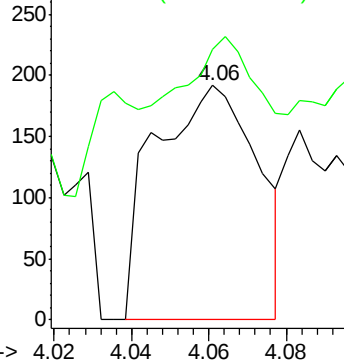


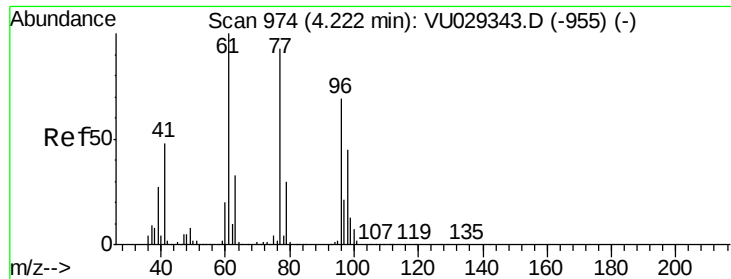
#21
2,2-Dichloropropane
Concen: 0.014 ug/l
RT: 4.06 min Scan# 924
Delta R.T. -0.16 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion: 77 Resp: 353
Ion Ratio Lower Upper
77 100
97 19.3 15.6 23.4



Abundance Ion 77.00 (76.70 to 77.70): VU0
Ion 97.00 (96.70 to 97.70): VU0



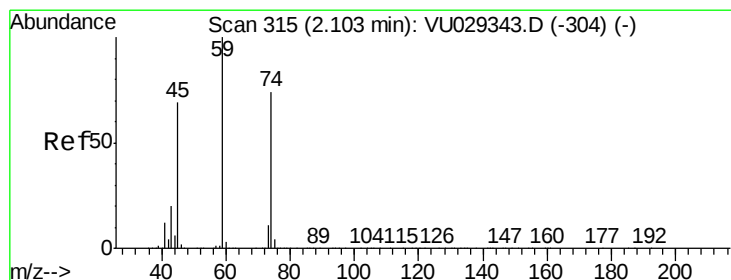
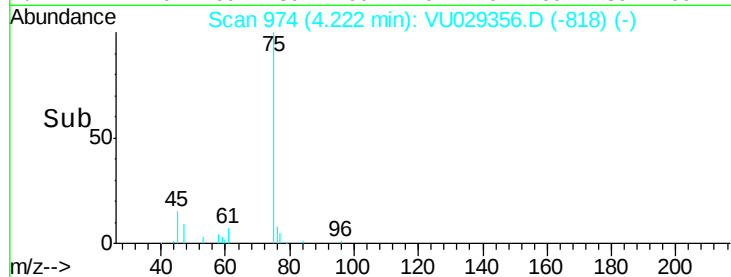
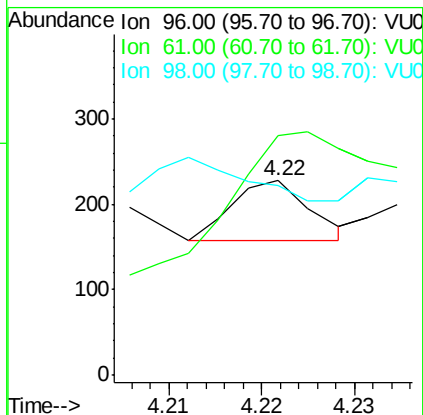
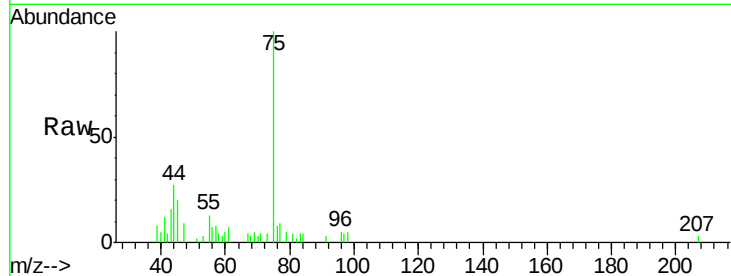


#22

cis-1,2-Dichloroethene
 Concen: 0.003 ug/l
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

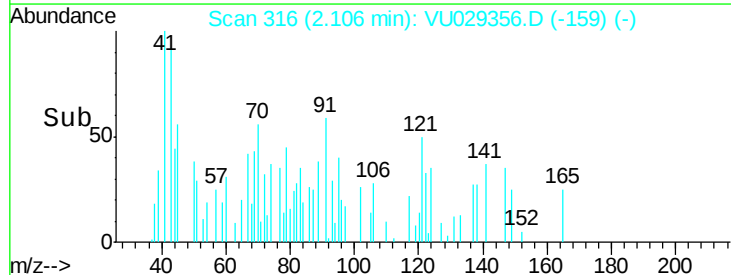
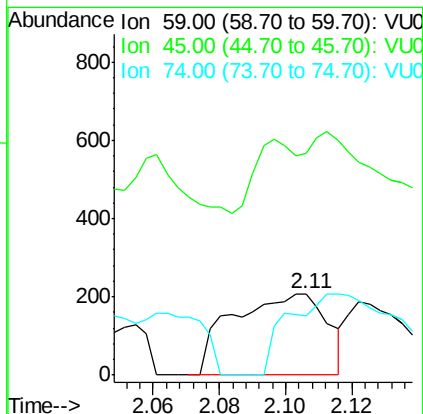
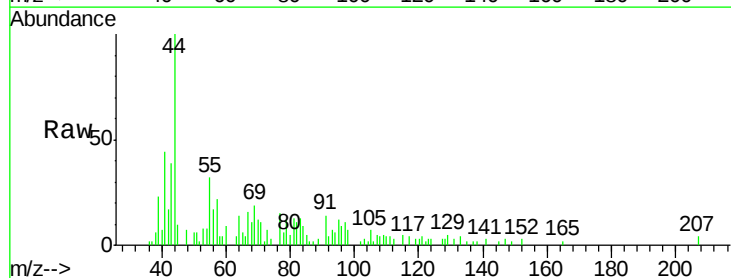
Tot Ion: 96 Resp: 40
 Ion Ratio Lower Upper
 96 100
 61 1142.5 0.0 460.0#
 98 365.0 32.6 97.7#

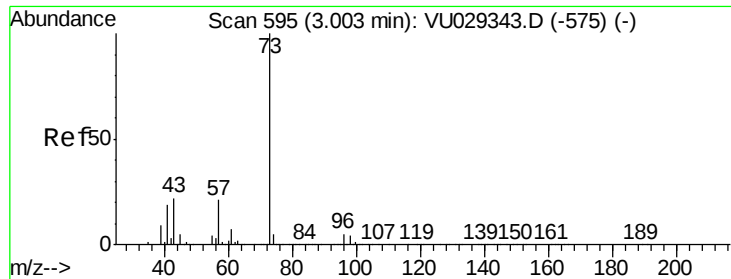


#23

Diethyl Ether
 Concen: 0.034 ug/l
 RT: 2.11 min Scan# 316
 Delta R.T. 0.00 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion: 59 Resp: 411
 Ion Ratio Lower Upper
 59 100
 45 47.7 64.2 96.4#
 74 108.8 55.3 82.9#



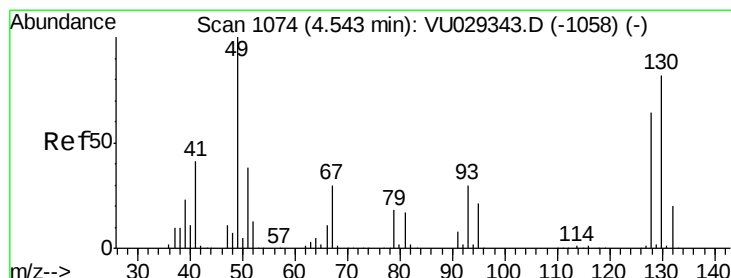
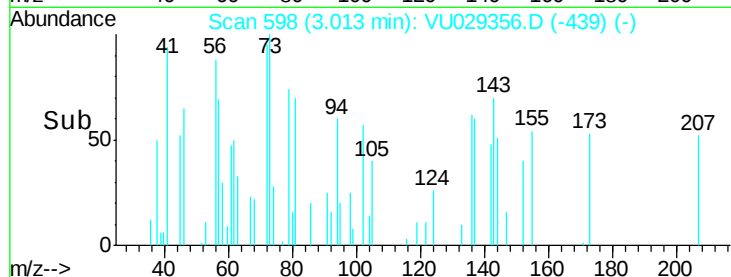
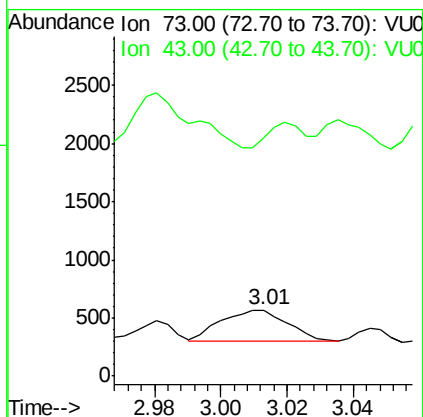
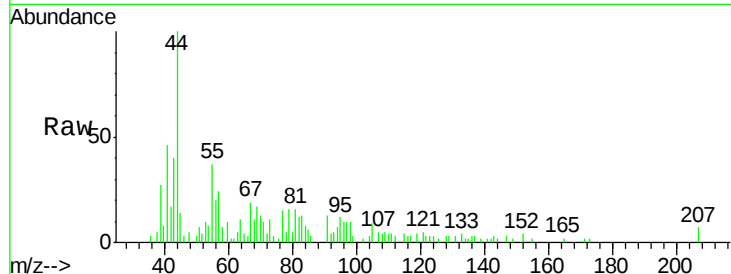


#25

Methyl tert-Butyl Ether
Concen: 0.009 ug/l
RT: 3.01 min Scan# 598
Delta R.T. 0.01 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Instrument :
MSVOA_U
ClientSampleId :
VBLK51

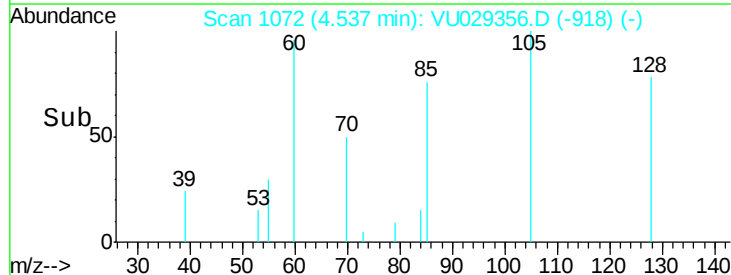
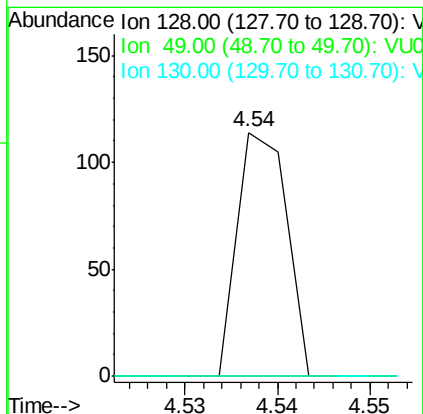
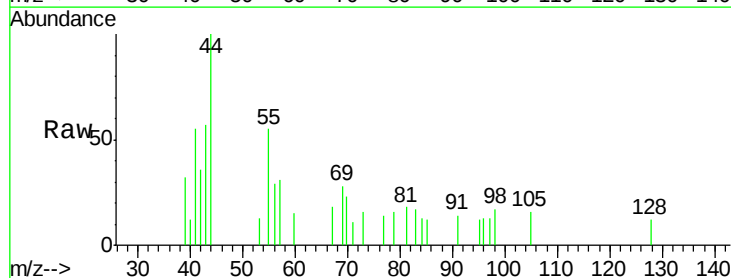
Tot Ion: 73 Resp: 369
Ion Ratio Lower Upper
73 100
43 0.0 22.1 33.1#

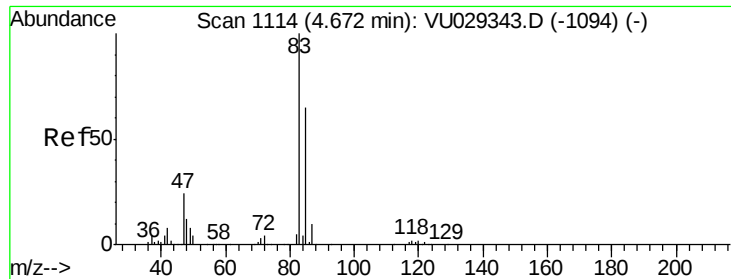


#26

Bromochloromethane
Concen: 0.006 ug/l
RT: 4.54 min Scan# 1072
Delta R.T. -0.01 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion: 128 Resp: 42
Ion Ratio Lower Upper
128 100
49 0.0 0.0 401.6
130 0.0 108.0 162.0#





#27

Chloroform

Concen: 0.008 ug/l

RT: 4.68 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

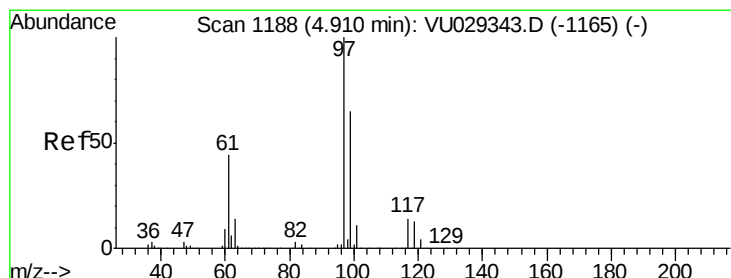
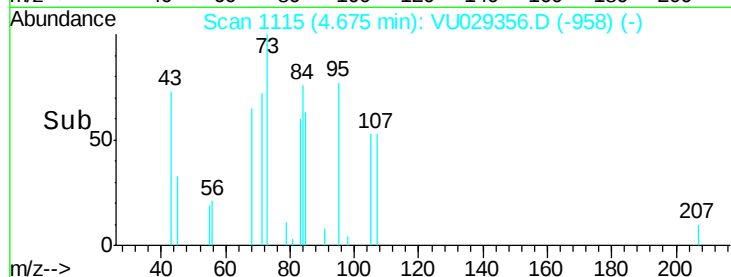
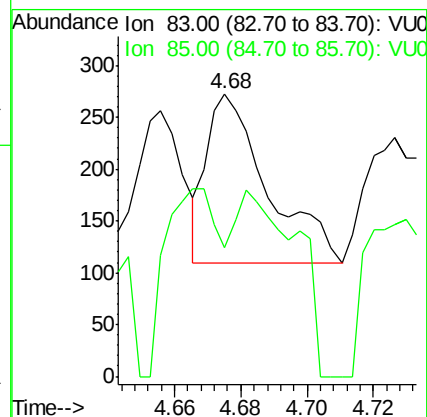
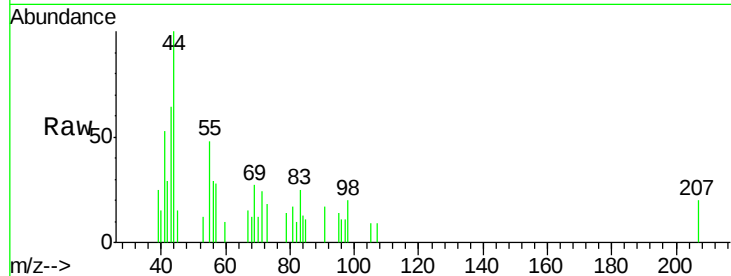
VBLK51

Tot Ion: 83 Resp: 206

Ion Ratio Lower Upper

83 100

85 76.1 0.0 126.6



#28

1,1,1-Trichloroethane

Concen: 0.013 ug/l

RT: 4.92 min Scan# 1192

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

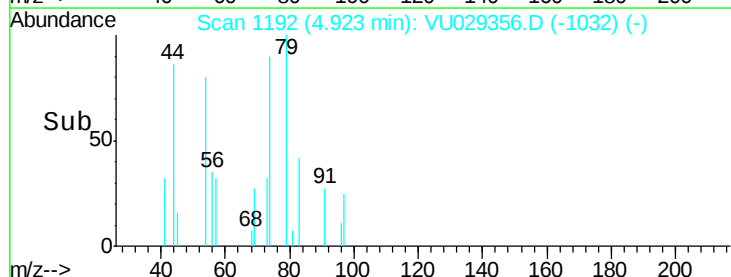
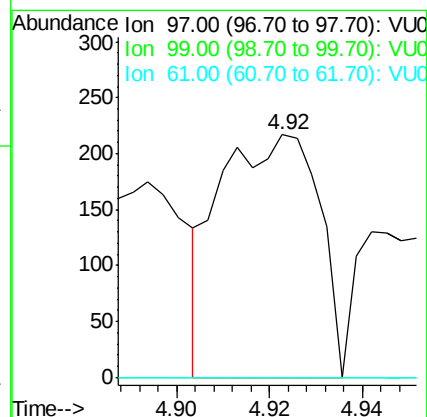
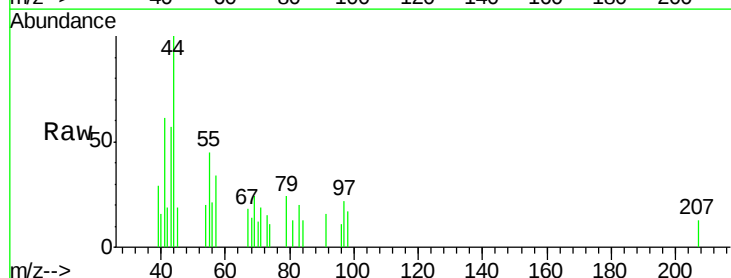
Tgt Ion: 97 Resp: 321

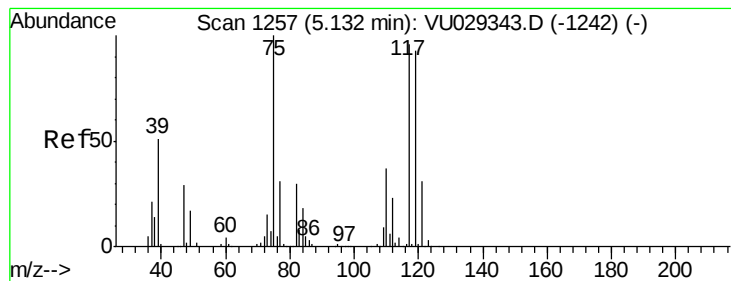
Ion Ratio Lower Upper

97 100

99 0.0 32.4 97.2#

61 0.0 24.4 73.2#





#29

1,1-Dichloropropene

Concen: 0.005 ug/l

RT: 5.14 min Scan# 1259

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

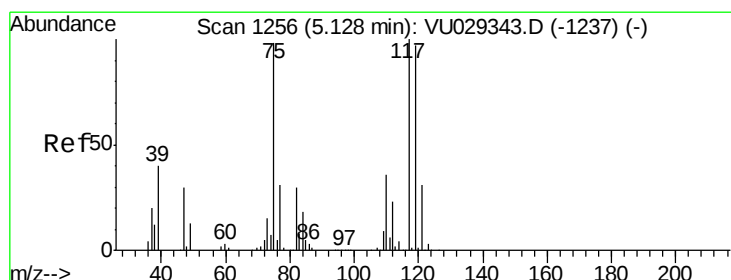
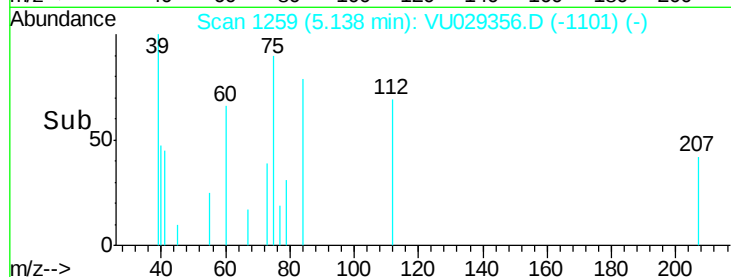
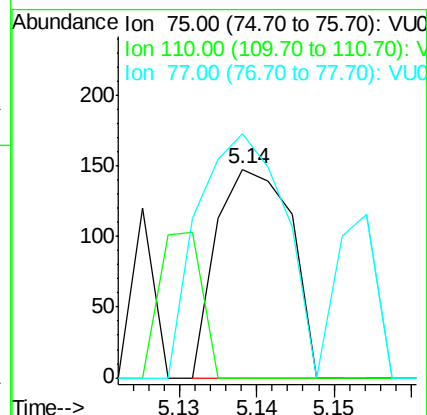
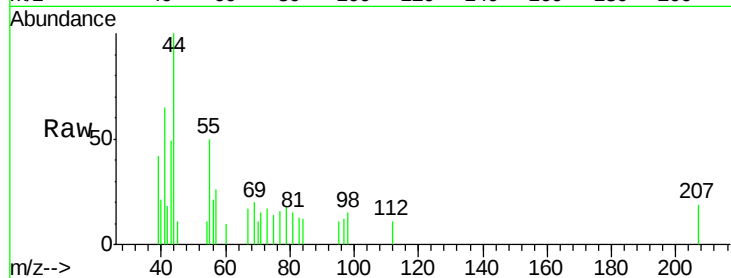
Tot Ion: 75 Resp: 100

Ion Ratio Lower Upper

75 100

110 39.0 15.4 46.2

77 135.0 24.1 36.1#



#30

Carbon Tetrachloride

Concen: 0.002 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

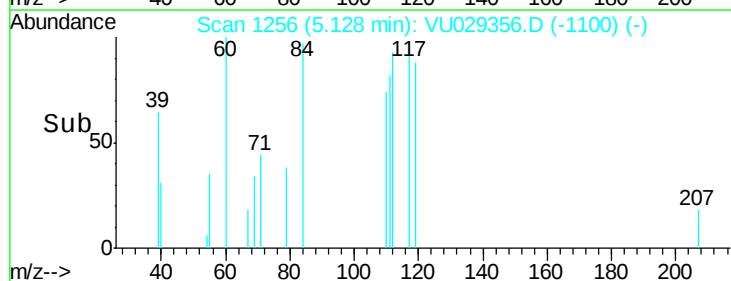
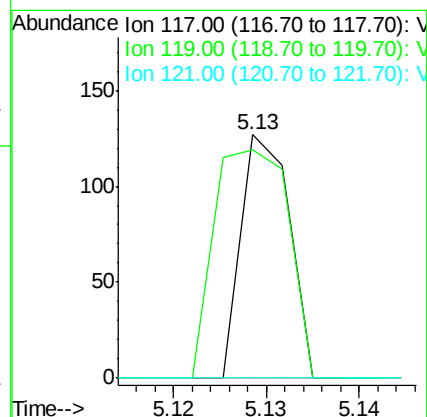
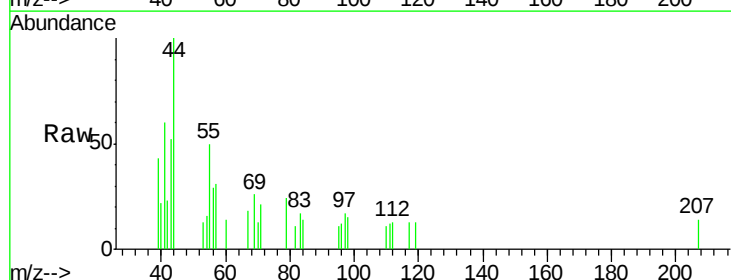
Tgt Ion: 117 Resp: 46

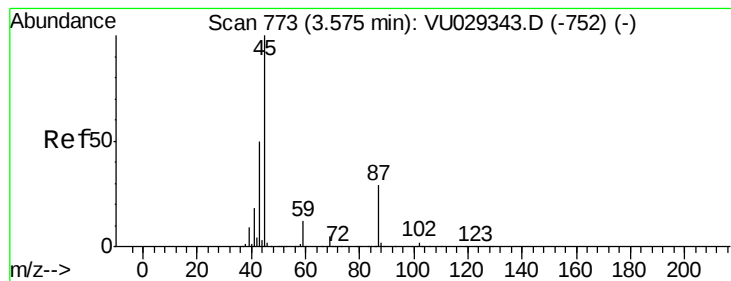
Ion Ratio Lower Upper

117 100

119 93.7 76.8 115.2

121 0.0 24.4 36.6#





#31

Isopropyl Ether

Concen: 0.001 ug/l

RT: 3.61 min Scan# 784

Delta R.T. 0.04 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

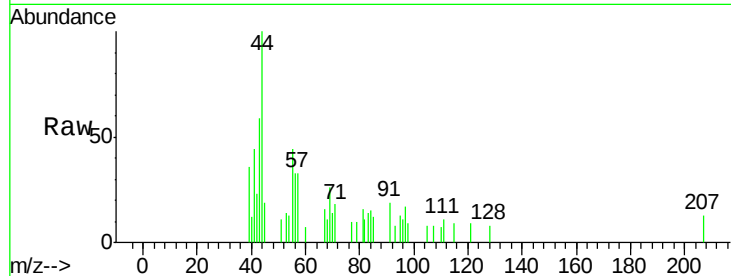
VBLK51

Tot Ion: 45 Resp: 56

Ion Ratio Lower Upper

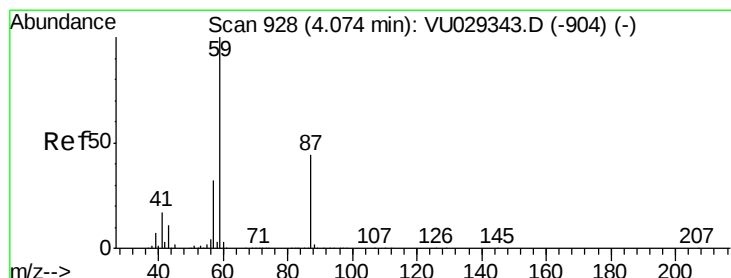
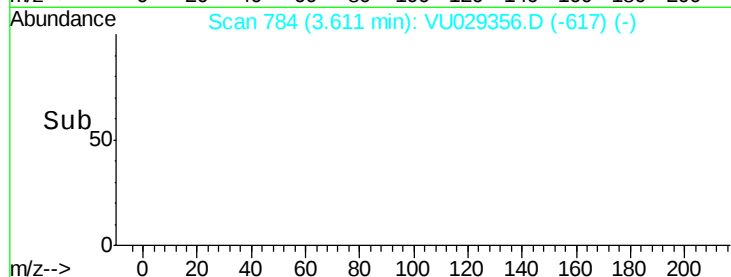
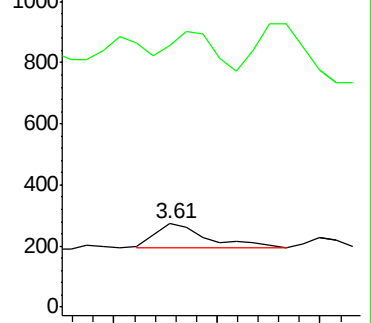
45 100

43 223.2 28.4 85.3#



Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0



#32

Ethyl-t-butyl ether

Concen: 0.006 ug/l

RT: 4.23 min Scan# 978

Delta R.T. 0.16 min

Lab File: VU029356.D

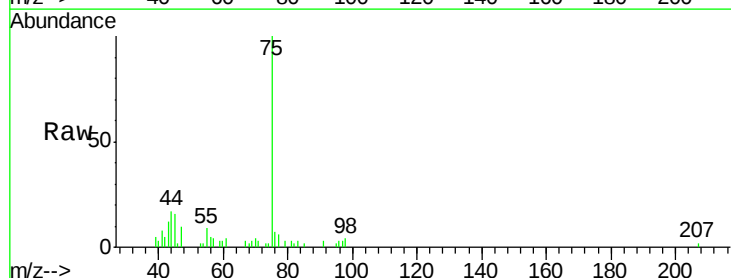
Acq: 06 Feb 2019 10:43

Tgt Ion: 59 Resp: 241

Ion Ratio Lower Upper

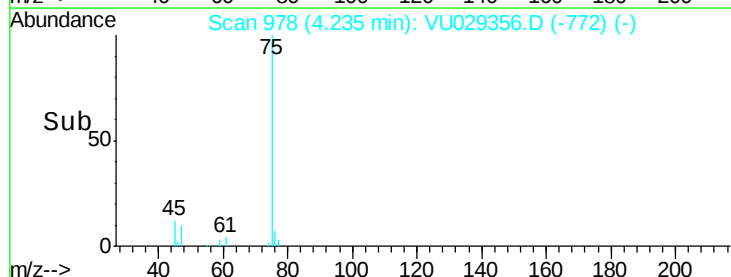
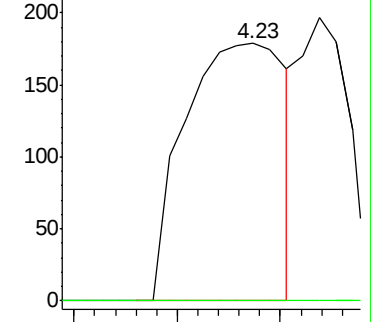
59 100

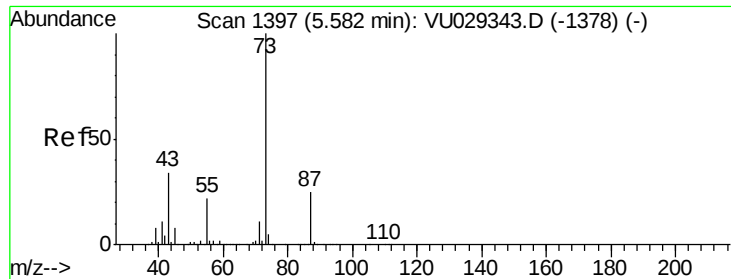
87 0.0 31.1 46.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



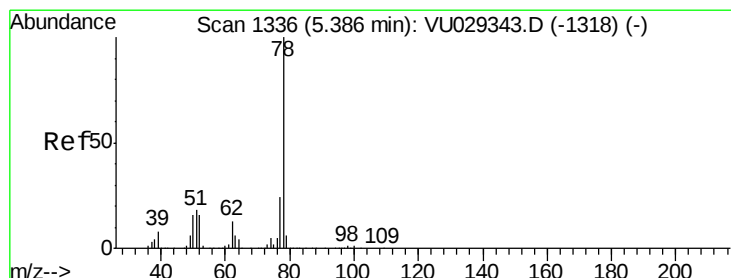
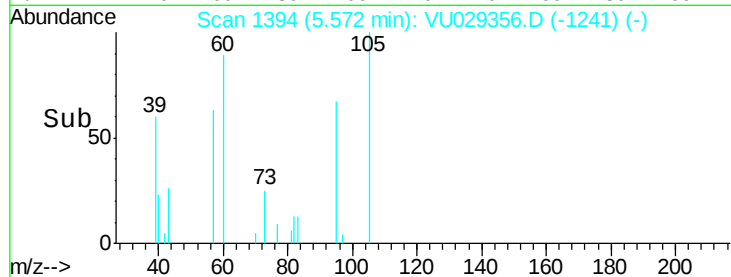
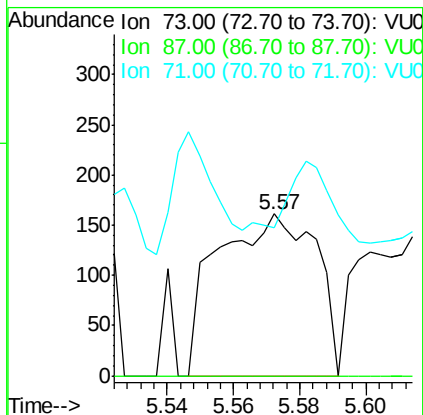
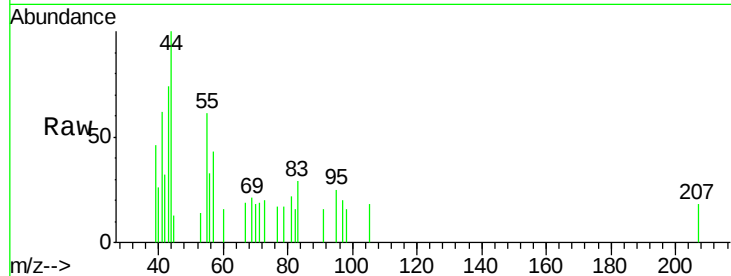


#33

Tert-Butyl methyl ether
 Concen: 0.009 ug/l
 RT: 5.57 min Scan# 1394
 Delta R.T. -0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

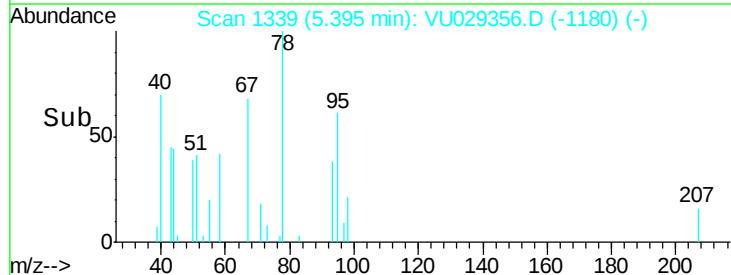
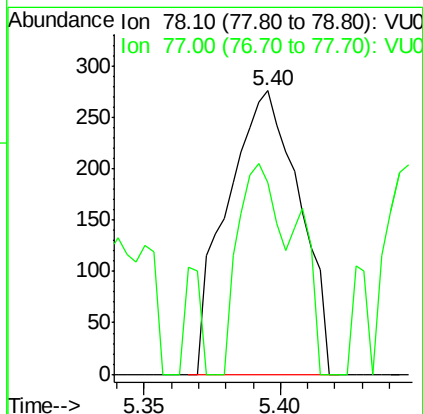
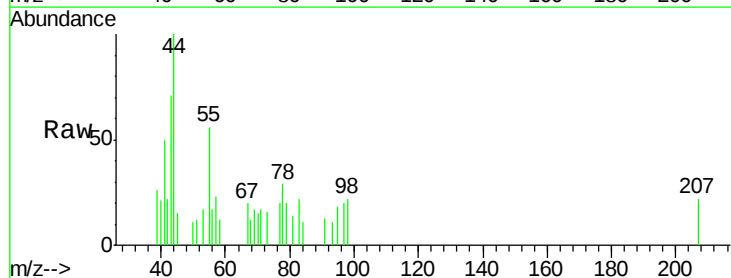
Tot Ion: 73 Resp: 333
 Ion Ratio Lower Upper
 73 100
 87 0.0 19.4 29.0#
 71 16.5 9.0 13.4#

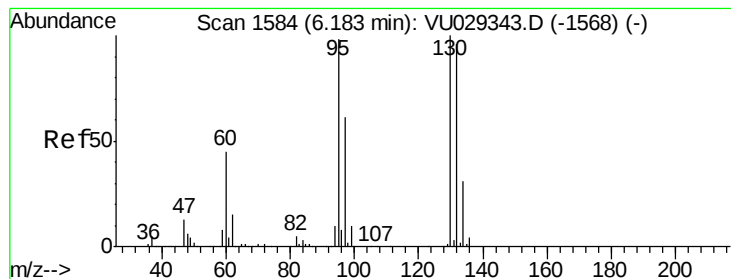


#35

Benzene
 Concen: 0.009 ug/l
 RT: 5.40 min Scan# 1339
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion: 78 Resp: 507
 Ion Ratio Lower Upper
 78 100
 77 67.8 19.8 29.8#





#37

Trichloroethene

Concen: 0.007 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

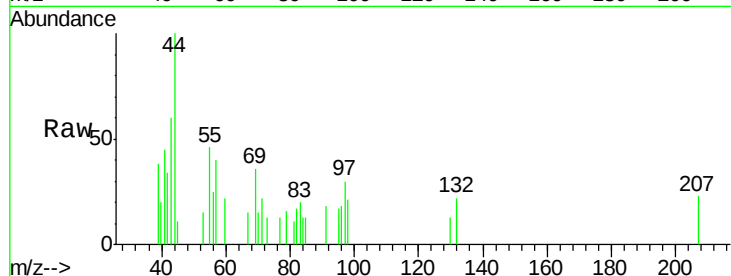
VBLK51

Tot Ion:130 Resp: 108

Ion Ratio Lower Upper

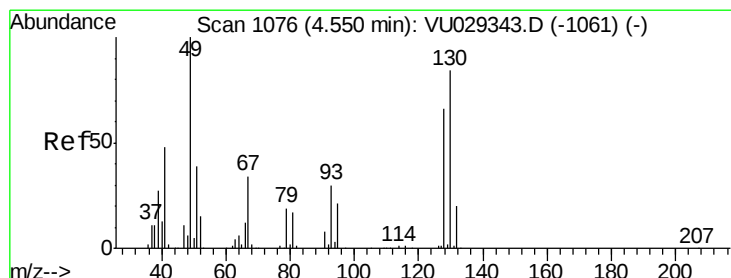
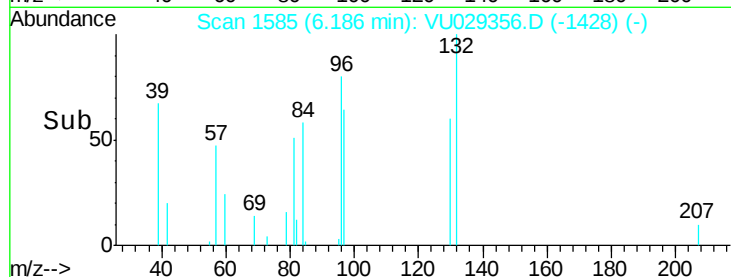
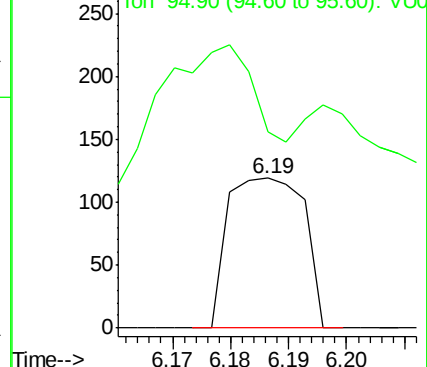
130 100

95 0.0 85.4 128.0#



Abundance Ion 129.90 (129.60 to 130.60): VU029343.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU029343.D (-1568) (-)



#39

Methacrylonitrile

Concen: 0.010 ug/l

RT: 4.55 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Tgt Ion: 41 Resp: 50

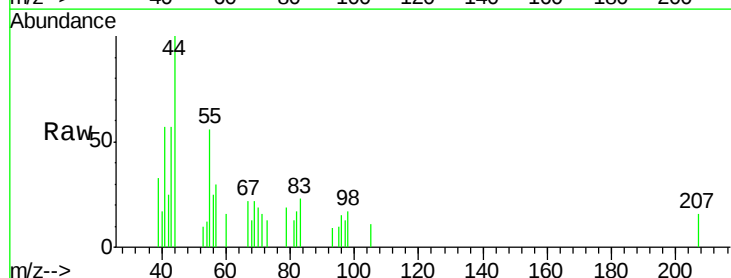
Ion Ratio Lower Upper

41 100

67 174.0 50.1 75.1#

39 154.0 47.9 71.9#

52 0.0 24.8 37.2#

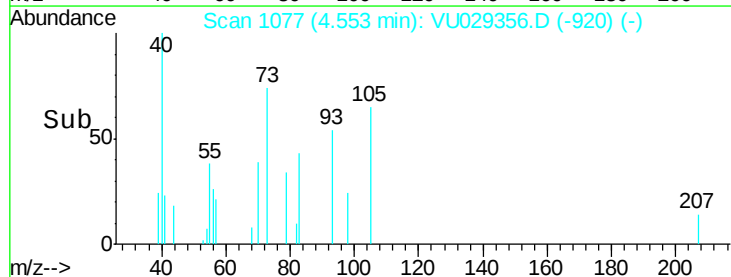
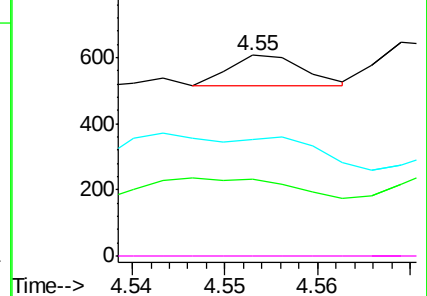


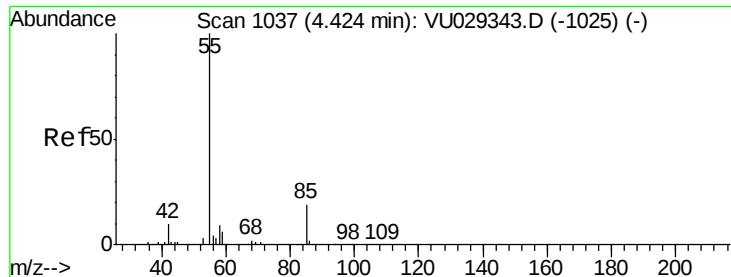
Abundance Ion 41.00 (40.70 to 41.70): VU029343.D (-1061) (-)

Ion 67.00 (66.70 to 67.70): VU029343.D (-1061) (-)

Ion 39.00 (38.70 to 39.70): VU029343.D (-1061) (-)

Ion 52.00 (51.70 to 52.70): VU029343.D (-1061) (-)





#40

Methyl acrylate

Concen: 0.022 ug/l

RT: 4.43 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

VBLK51

Tot Ion: 55 Resp: 159

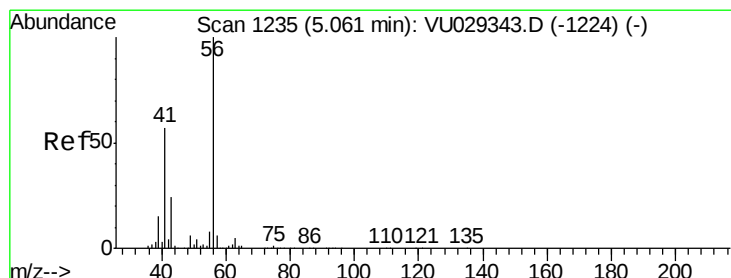
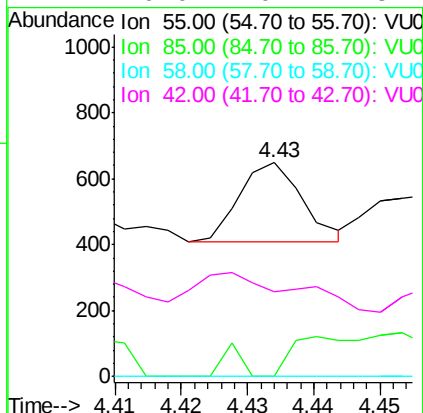
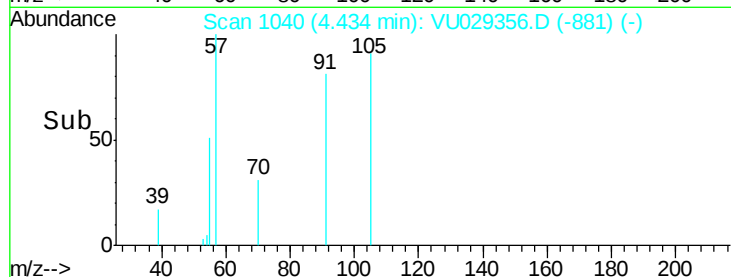
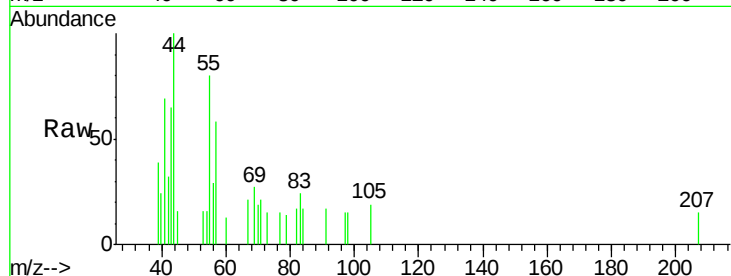
Ion Ratio Lower Upper

55 100

85 54.7 11.3 16.9#

58 0.0 6.2 9.4#

42 0.0 10.1 15.1#



#42

1-Chlorobutane

Concen: 0.009 ug/l

RT: 5.05 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VU029356.D

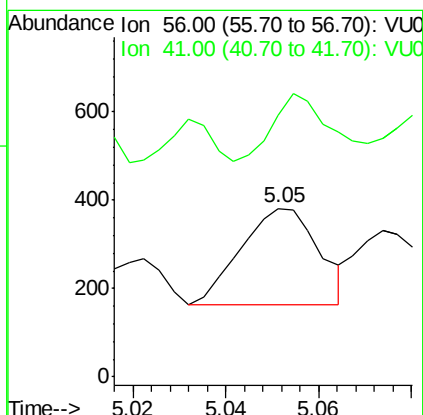
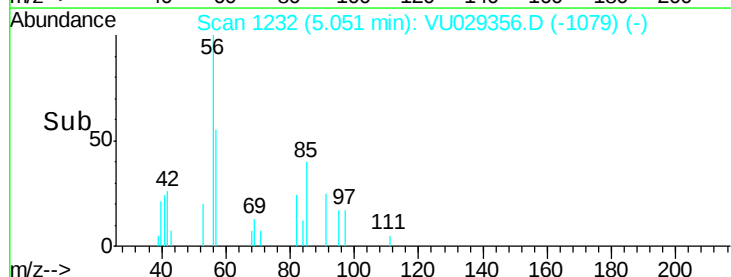
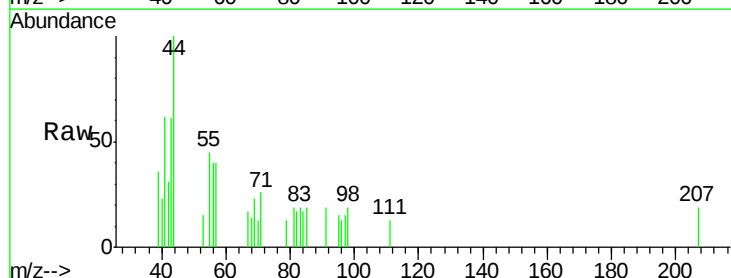
Acq: 06 Feb 2019 10:43

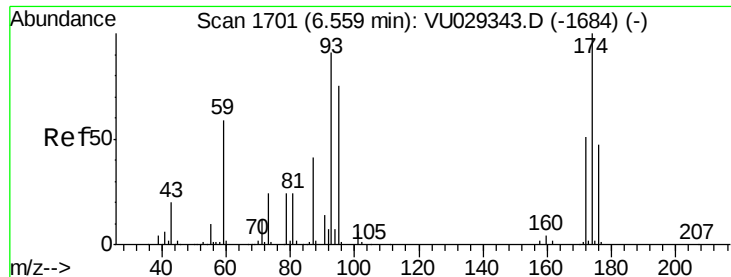
Tgt Ion: 56 Resp: 257

Ion Ratio Lower Upper

56 100

41 51.4 31.3 93.8





#43

Dibromomethane

Concen: 0.009 ug/l

RT: 6.57 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

VBLK51

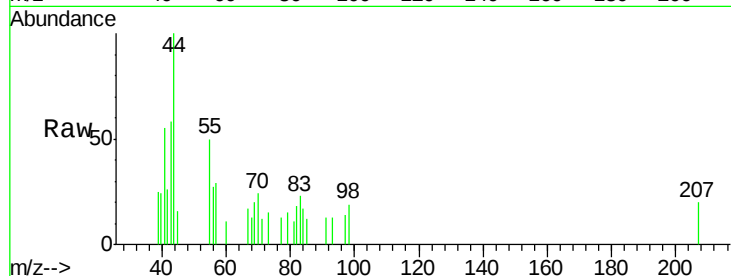
Tot Ion: 93 Resp: 68

Ion Ratio Lower Upper

93 100

95 314.7 68.2 102.2#

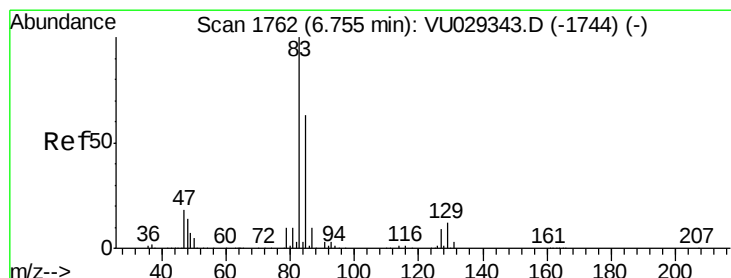
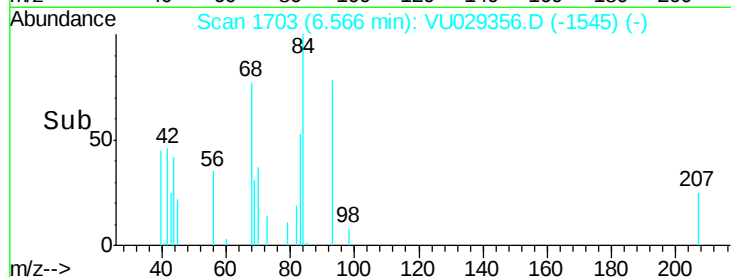
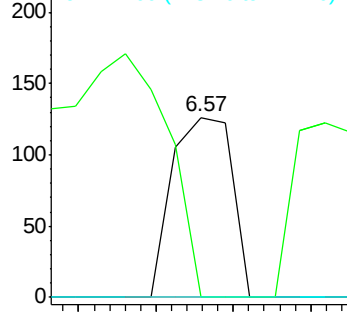
174 0.0 77.6 116.4#



Abundance Ion 93.00 (92.70 to 93.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V



#44

Bromodichloromethane

Concen: 0.004 ug/l

RT: 6.77 min Scan# 1766

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

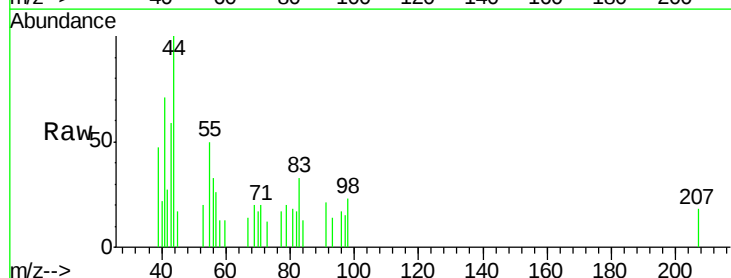
Tgt Ion: 83 Resp: 81

Ion Ratio Lower Upper

83 100

85 0.0 49.2 73.8#

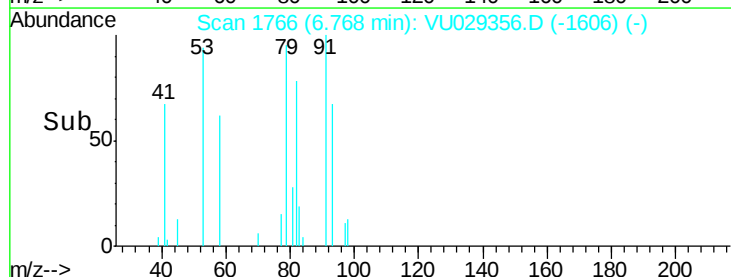
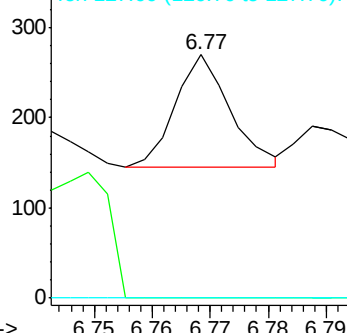
127 0.0 7.0 10.6#

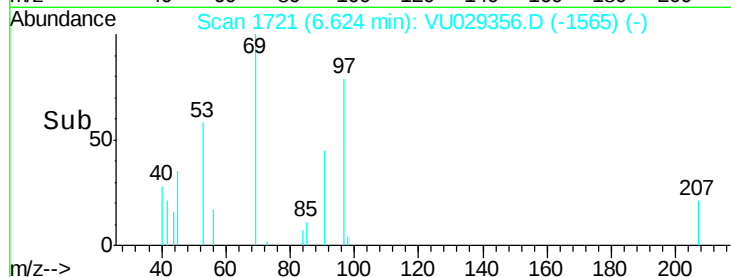
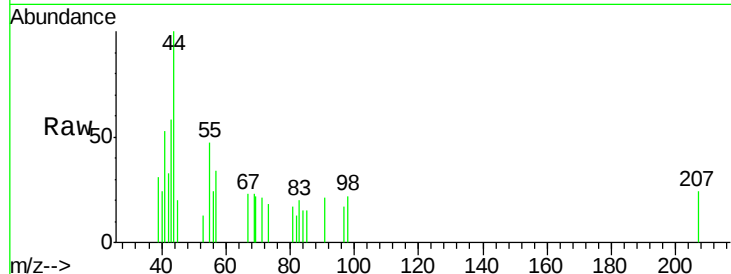
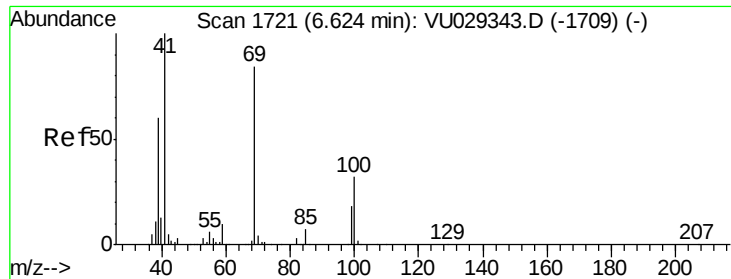


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

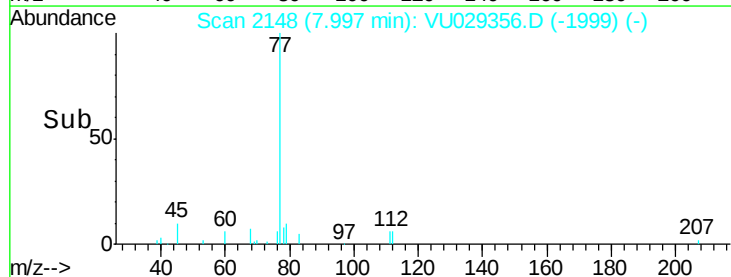
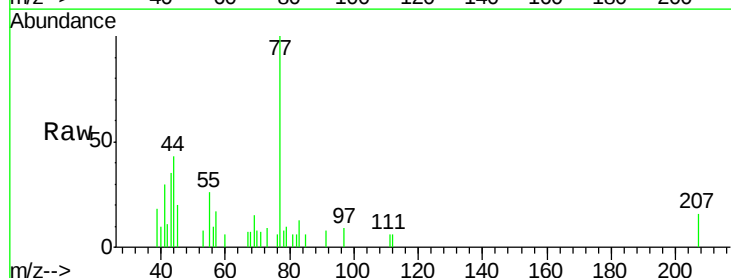
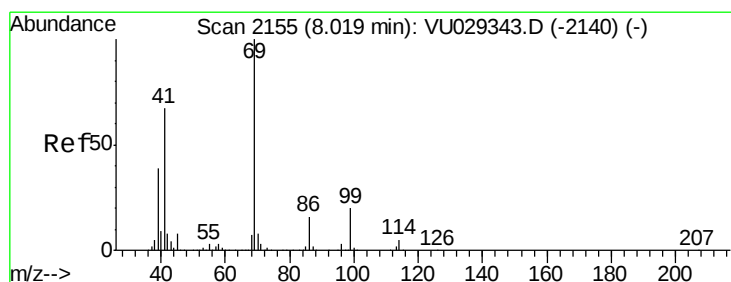
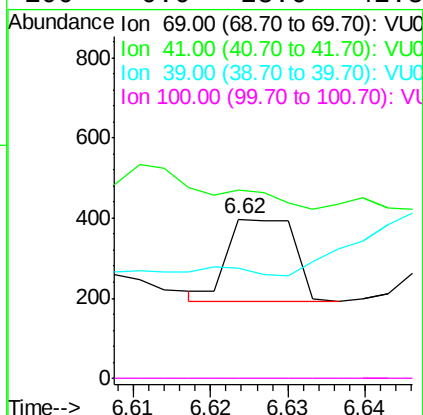




#47
Methyl methacrylate
Concen: 0.017 ug/l
RT: 6.62 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

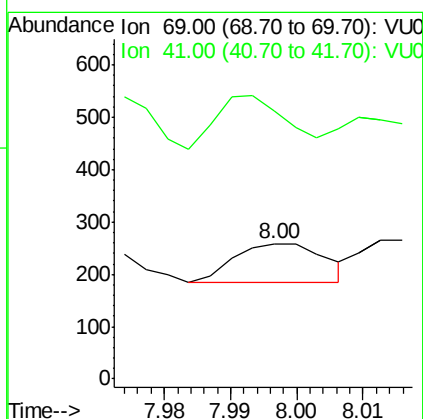
Instrument :
MSVOA_U
ClientSampled :
VBLK51

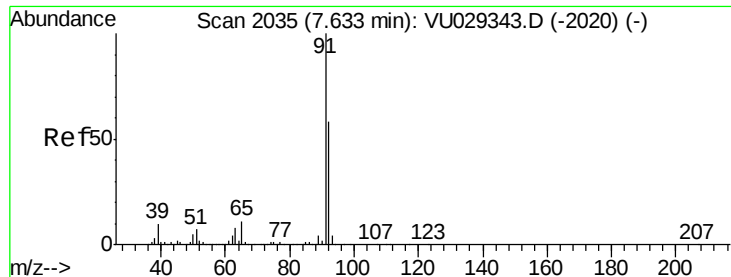
Tot Ion: 69 Resp: 122
Ion Ratio Lower Upper
69 100
41 0.0 0.0 296.2
39 0.0 71.2 106.8#
100 0.0 28.6 42.8#



#48
Ethyl methacrylate
Concen: 0.005 ug/l
RT: 8.00 min Scan# 2148
Delta R.T. -0.02 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion: 69 Resp: 71
Ion Ratio Lower Upper
69 100
41 104.2 39.9 119.7





#49

Toluene

Concen: 0.012 ug/l

RT: 7.65 min Scan# 2039

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

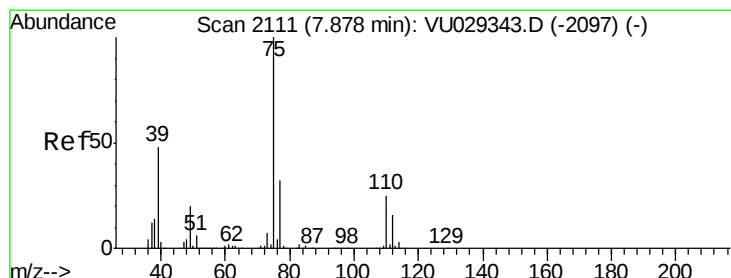
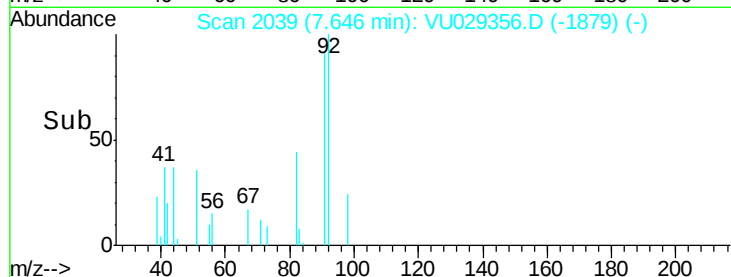
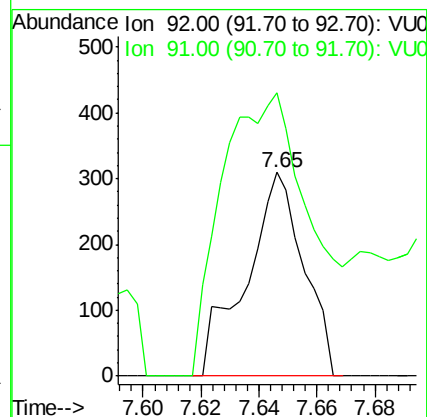
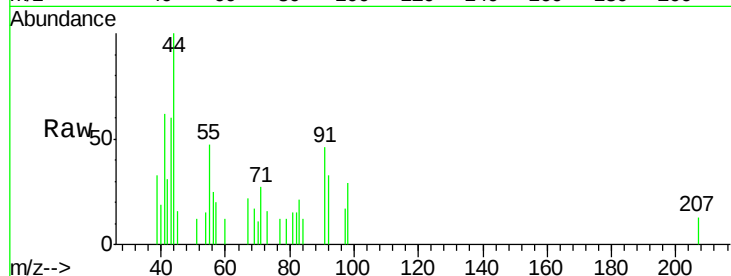
VBLK51

Tot Ion: 92 Resp: 428

Ion Ratio Lower Upper

92 100

91 212.6 140.7 211.1#



#50

t-1,3-Dichloropropene

Concen: 0.003 ug/l

RT: 7.89 min Scan# 2116

Delta R.T. 0.02 min

Lab File: VU029356.D

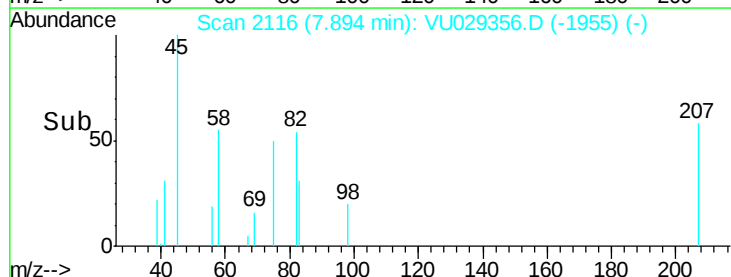
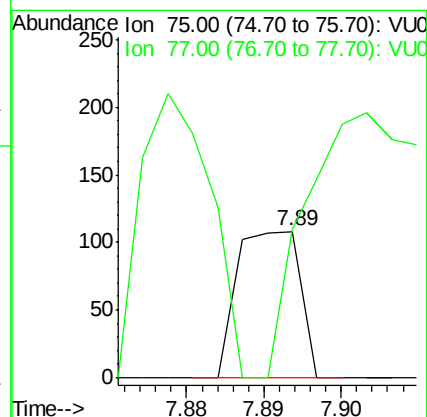
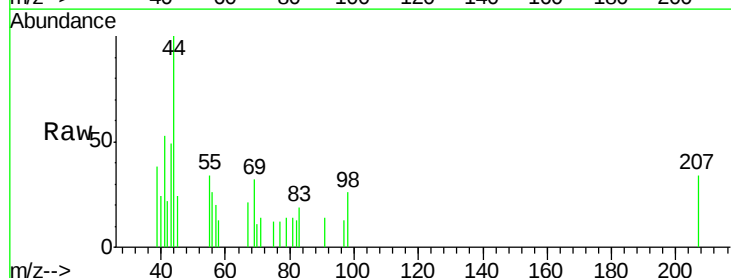
Acq: 06 Feb 2019 10:43

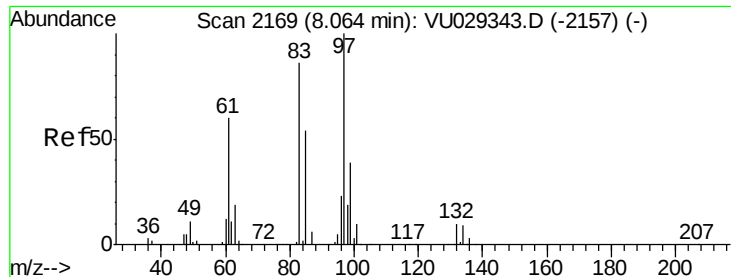
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 0.0 23.6 35.4#

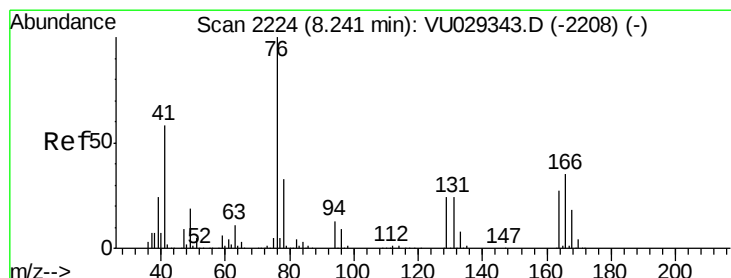
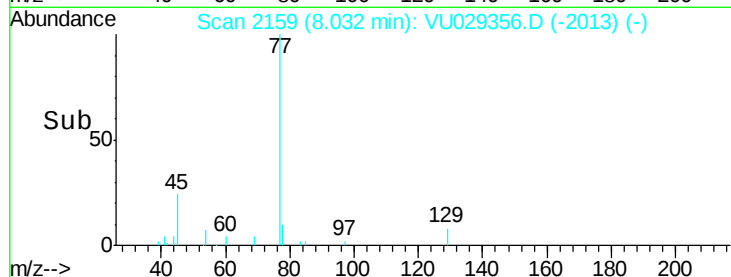
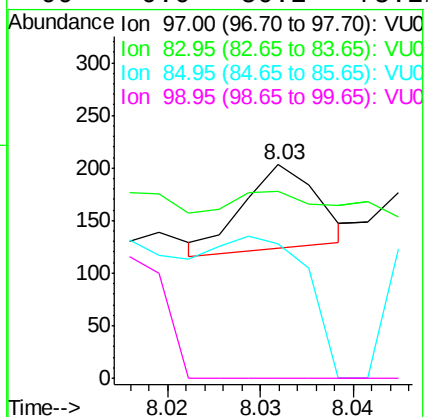
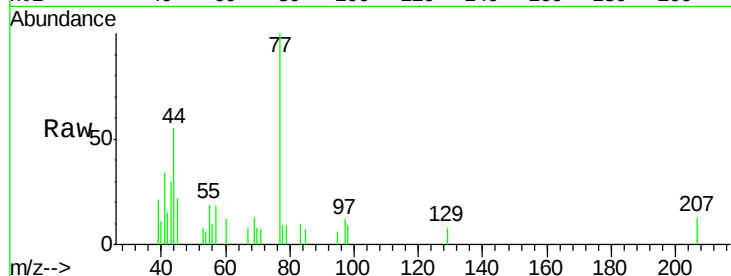




#52
 1,1,2-Trichloroethane
 Concen: 0.004 ug/l
 RT: 8.03 min Scan# 2159
 Delta R.T. -0.03 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

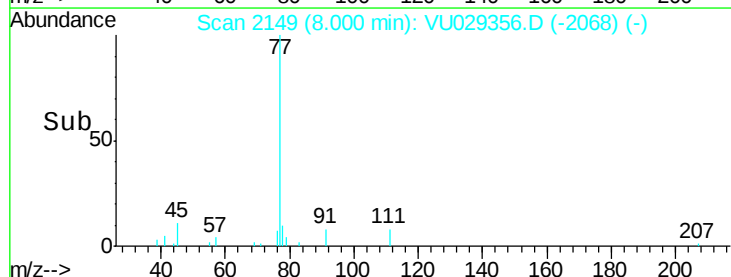
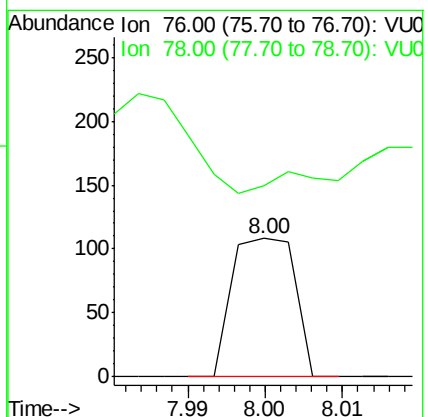
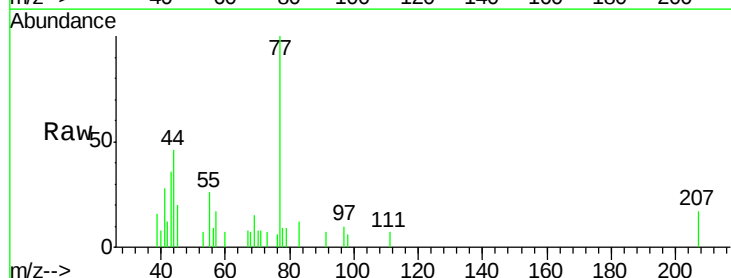
Instrument :
 MSVOA_U
 ClientSampleID :
 VBLK51

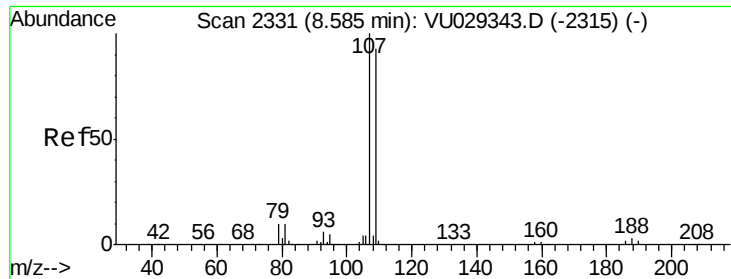
Tot Ion: 97 Resp: 44
 Ion Ratio Lower Upper
 97 100
 83 28.4 69.9 104.9#
 85 173.0 45.8 68.6#
 99 0.0 50.2 75.2#



#53
 1,3-Dichloropropane
 Concen: 0.003 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. -0.24 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion: 76 Resp: 61
 Ion Ratio Lower Upper
 76 100
 78 224.6 26.3 39.5#





#56

1,2-Dibromoethane

Concen: 0.002 ug/l

RT: 8.59 min Scan# 2334

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

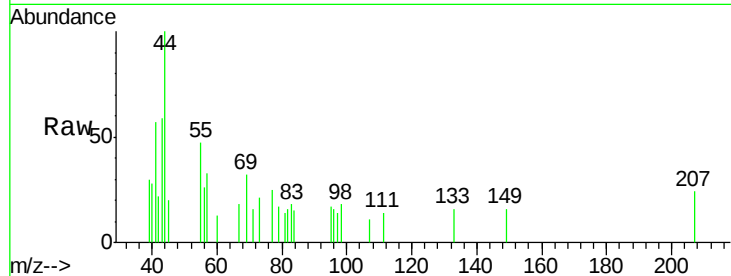
VBLK51

Tot Ion:107 Resp: 20

Ion Ratio Lower Upper

107 100

109 225.0 0.0 189.6#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.59

100

80

60

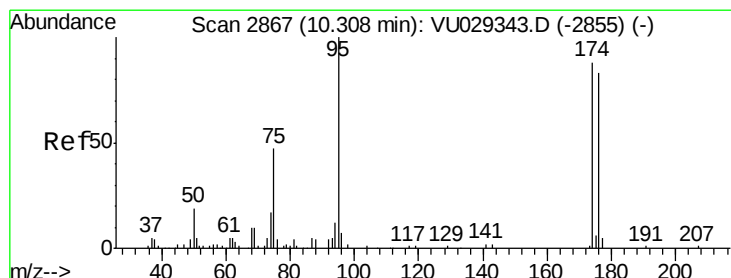
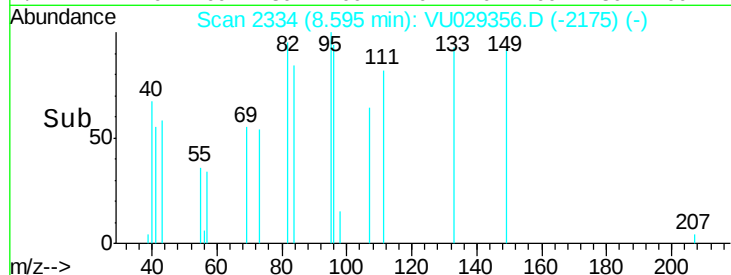
40

20

0

8.59 8.59 8.60 8.60 8.61

Time-->



#57

4-Bromofluorobenzene

Concen: 0.002 ug/l

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

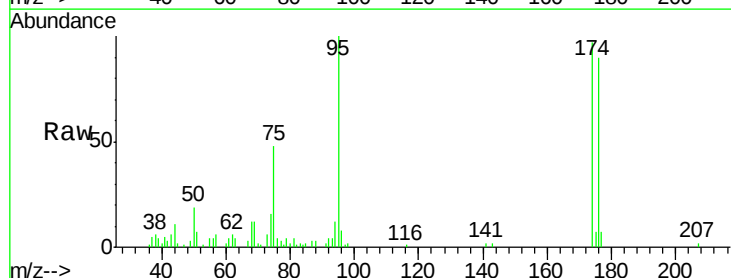
Tgt Ion: 95 Resp: 19720

Ion Ratio Lower Upper

95 100

174 87.7 64.2 96.2

176 85.6 62.3 93.5



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

10.31

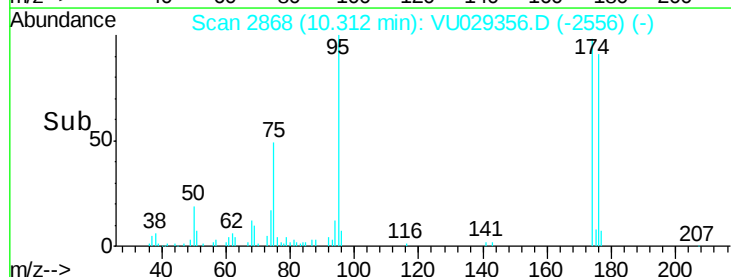
10000

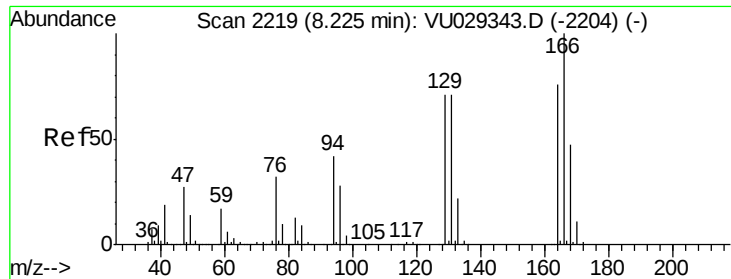
5000

0

10.30 10.30 10.40

Time-->





#58

Tetrachloroethene

Concen: 0.015 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

Tot Ion:164 Resp: 236

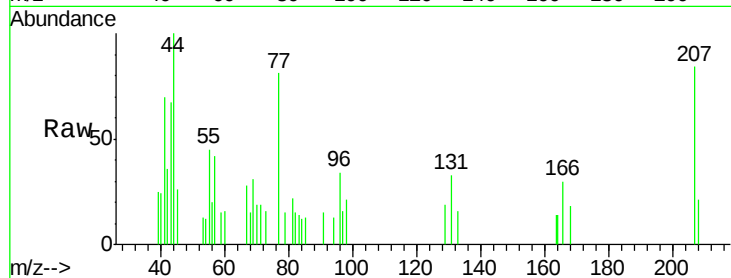
Ion Ratio Lower Upper

164 100

166 105.7 106.6 159.8#

129 69.6 79.9 119.9#

131 117.0 75.8 113.8#

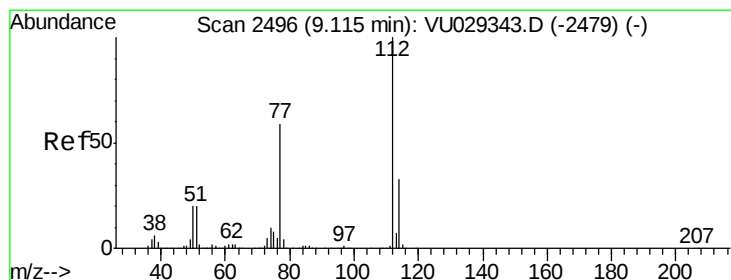
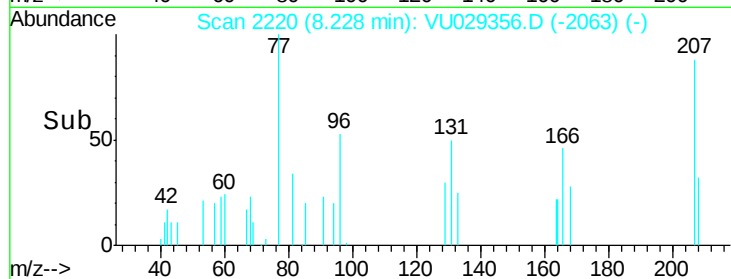
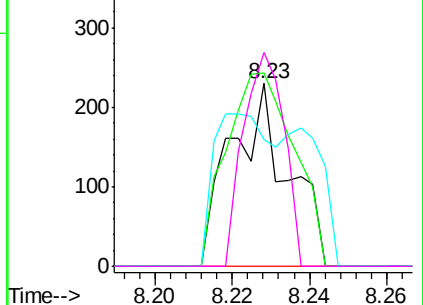


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#59

Chlorobenzene

Concen: 0.018 ug/l

RT: 9.13 min Scan# 2499

Delta R.T. 0.01 min

Lab File: VU029356.D

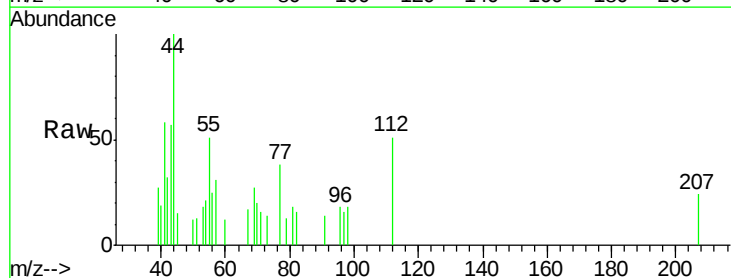
Acq: 06 Feb 2019 10:43

Tgt Ion:112 Resp: 755

Ion Ratio Lower Upper

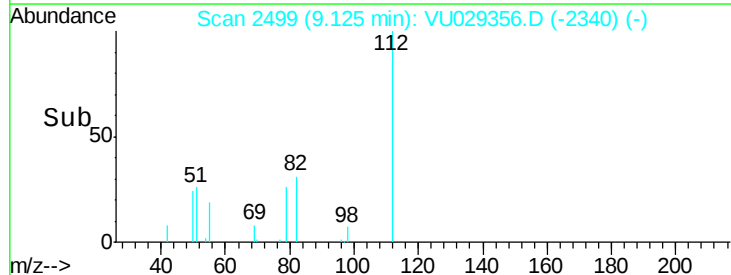
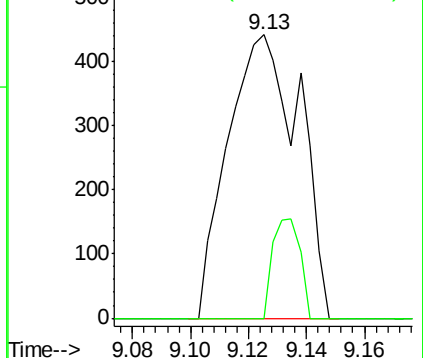
112 100

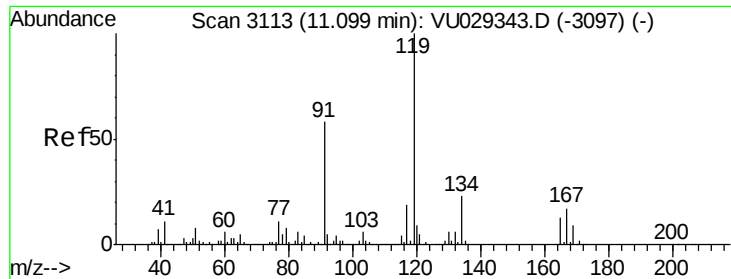
114 0.0 26.2 39.4#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

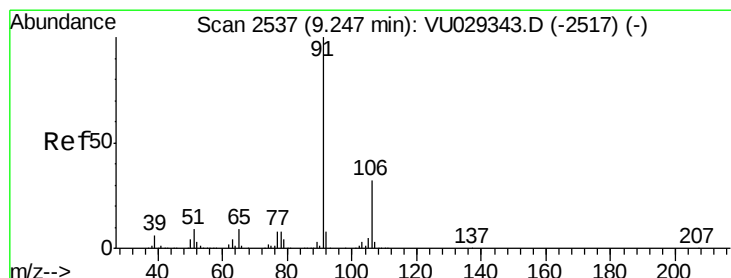
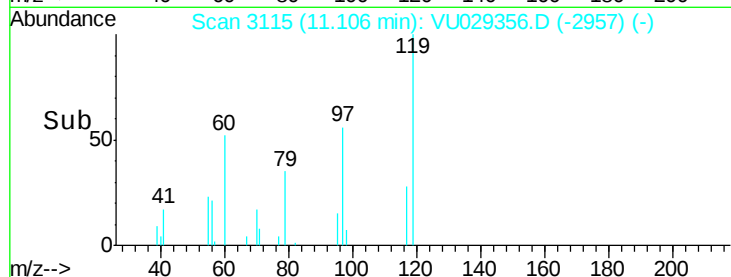
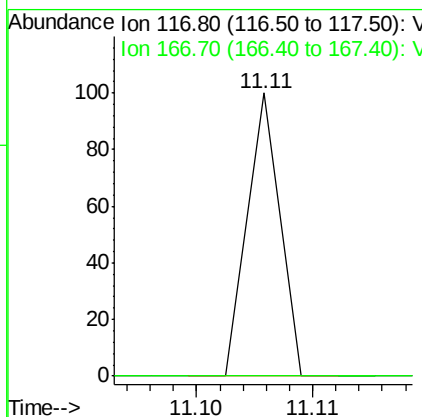
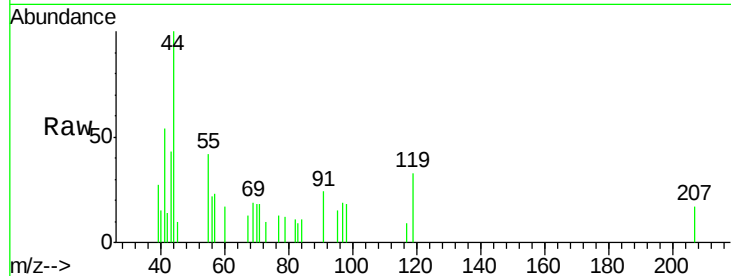




#61
 Pentachloroethane
 Concen: 0.002 ug/l
 RT: 11.11 min Scan# 3115
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

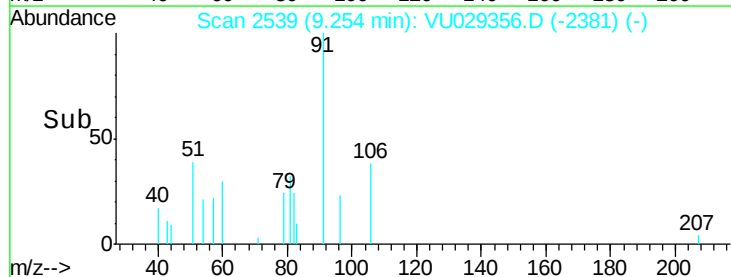
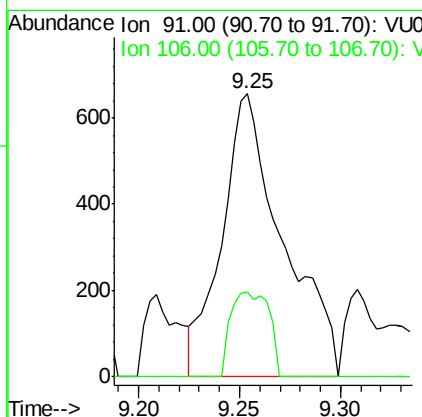
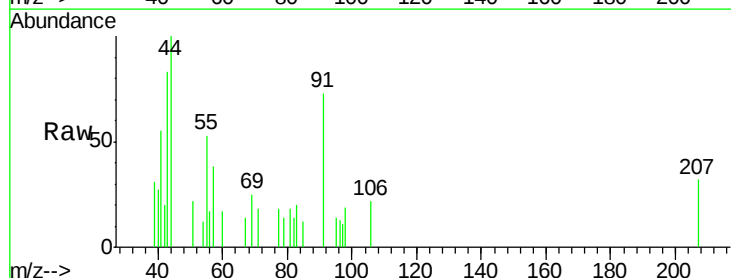
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

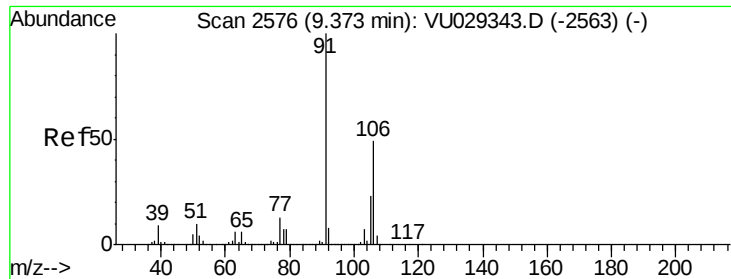
Tot Ion:117 Resp: 19
 Ion Ratio Lower Upper
 117 100
 167 0.0 65.9 98.9#



#63
 Ethyl Benzene
 Concen: 0.019 ug/l
 RT: 9.25 min Scan# 2539
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion: 91 Resp: 1380
 Ion Ratio Lower Upper
 91 100
 106 29.9 23.8 35.6

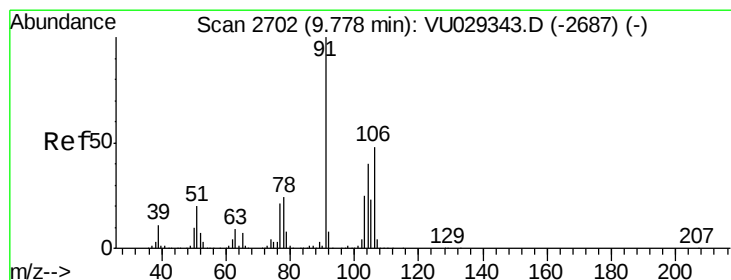
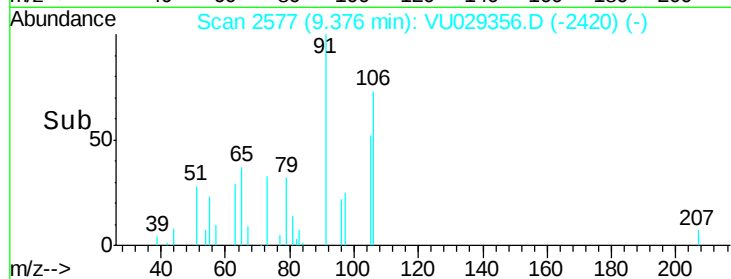
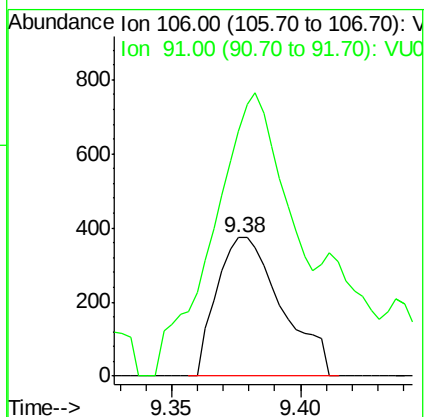
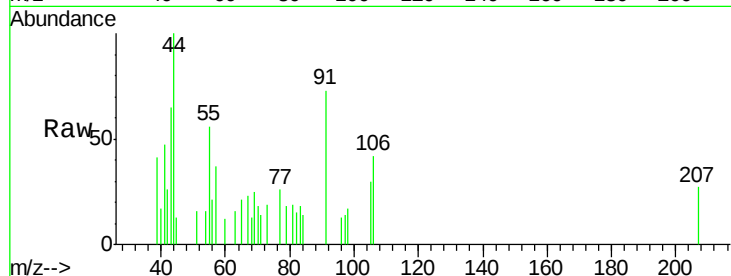




#64
m/p-Xylenes
Concen: 0.023 ug/l
RT: 9.38 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

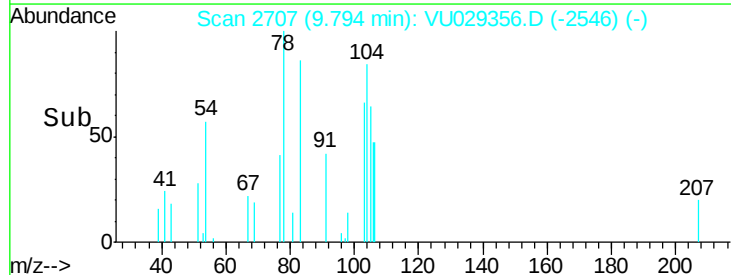
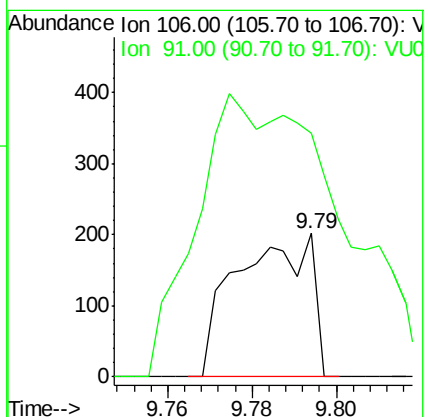
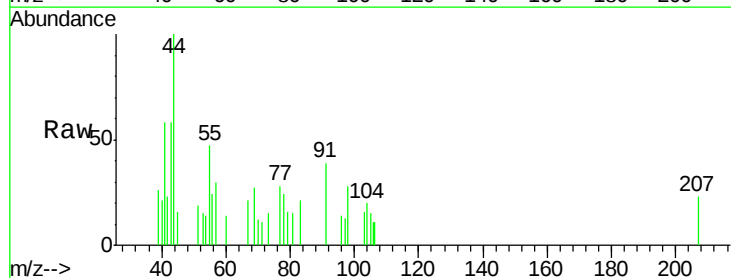
Instrument :
MSVOA_U
ClientSampleId :
VBLK51

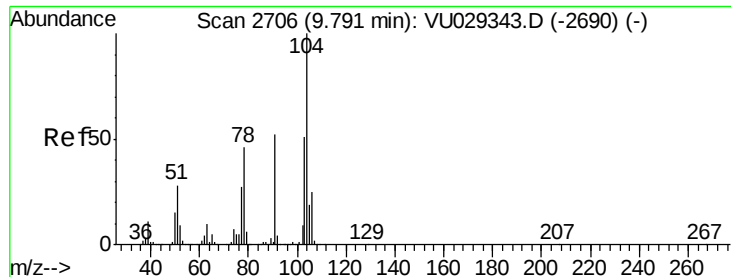
Tot Ion:106 Resp: 654
Ion Ratio Lower Upper
106 100
91 238.5 174.6 261.8



#65
o-Xylene
Concen: 0.009 ug/l
RT: 9.79 min Scan# 2707
Delta R.T. 0.02 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion:106 Resp: 247
Ion Ratio Lower Upper
106 100
91 165.6 114.5 343.4

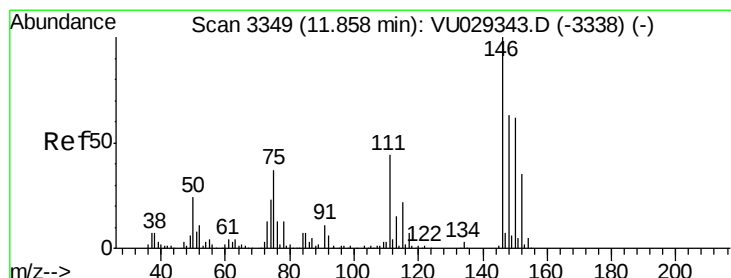
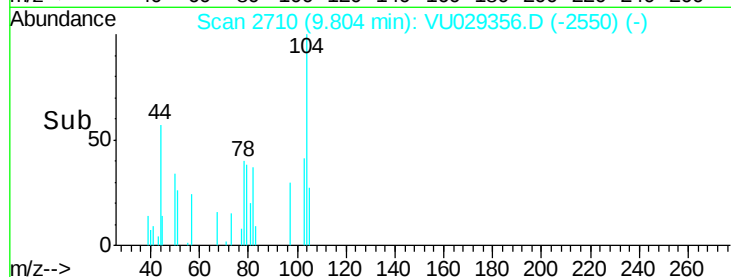
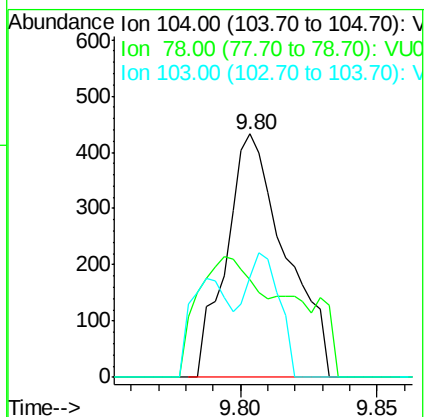
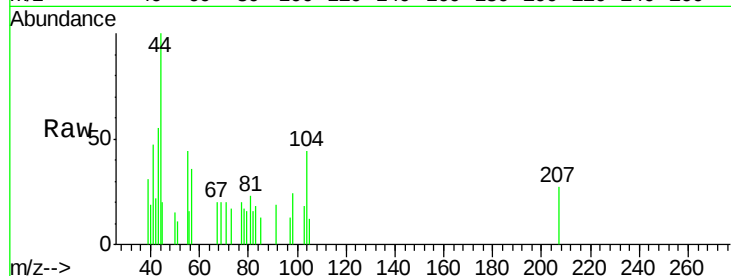




#66
Stvrene
Concen: 0.014 ug/l
RT: 9.80 min Scan# 2710
Delta R.T. 0.01 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

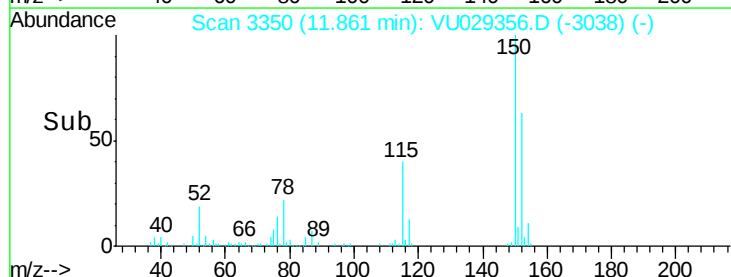
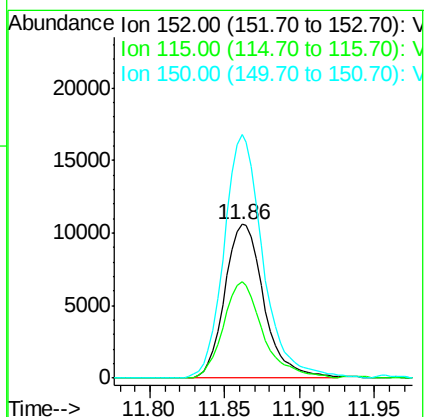
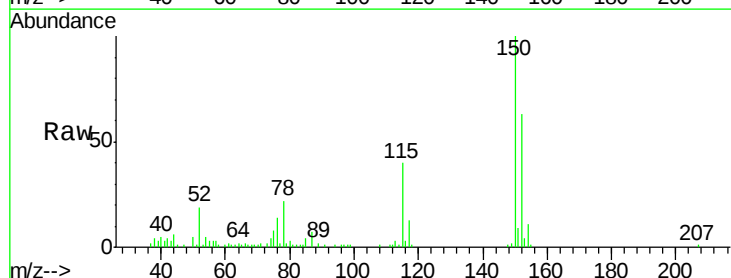
Instrument :
MSVOA_U
ClientSampleId :
VBLK51

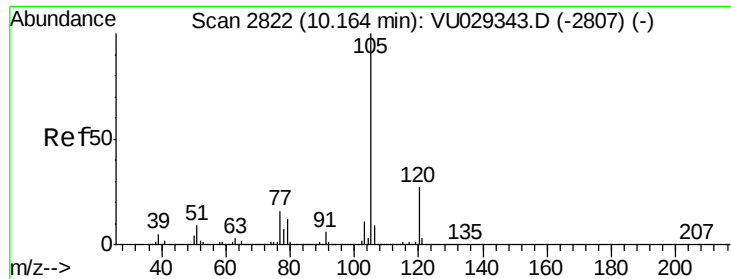
Tot Ion:104 Resp: 652
Ion Ratio Lower Upper
104 100
78 0.0 46.5 69.7#
103 29.6 44.7 67.1#



#68
1,2-Dichlorobenzene-d4
Concen: N.D. ug/l
RT: 11.86 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VU029356.D
Acq: 06 Feb 2019 10:43

Tgt Ion:152 Resp: 19353
Ion Ratio Lower Upper
152 100
115 63.4 0.0 133.4
150 157.5 0.0 670.8





#69

Isopropylbenzene

Concen: 0.012 ug/l

RT: 10.17 min Scan# 2824

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

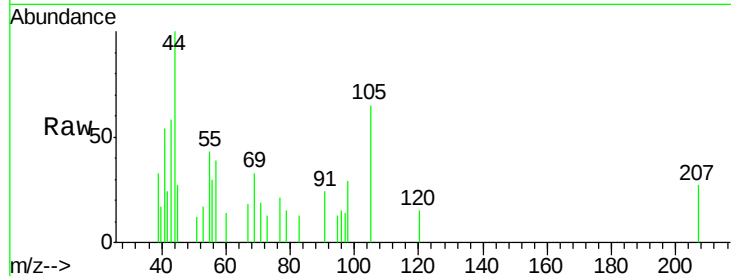
VBLK51

Tot Ion:105 Resp: 911

Ion Ratio Lower Upper

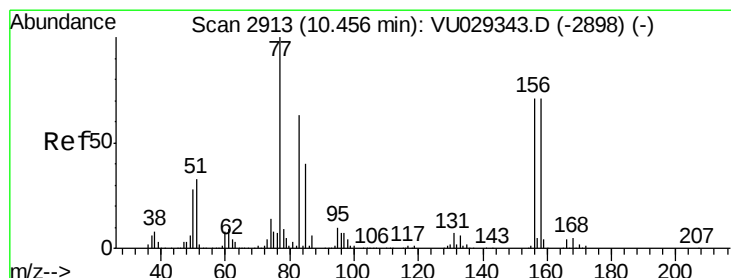
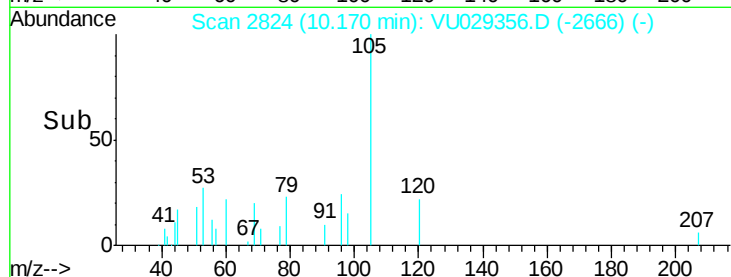
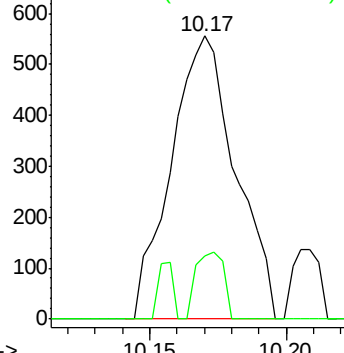
105 100

120 10.1 12.6 37.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#70

1,1,2,2-Tetrachloroethane

Concen: 0.021 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

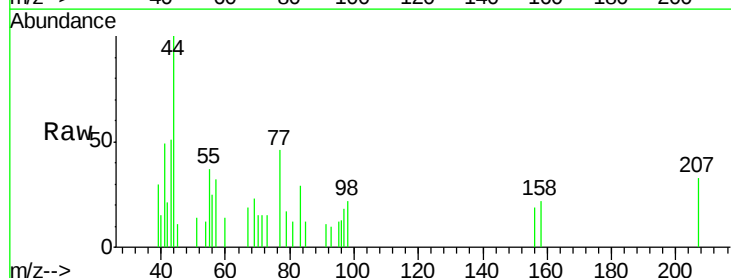
Tgt Ion: 83 Resp: 282

Ion Ratio Lower Upper

83 100

131 0.0 8.1 12.1#

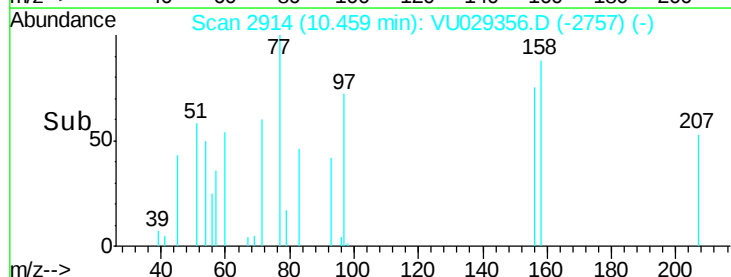
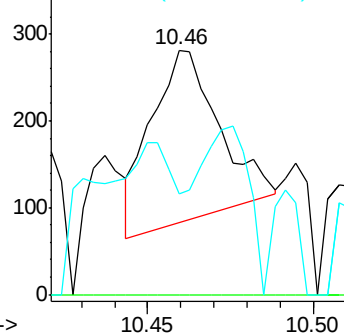
85 52.1 50.3 75.5

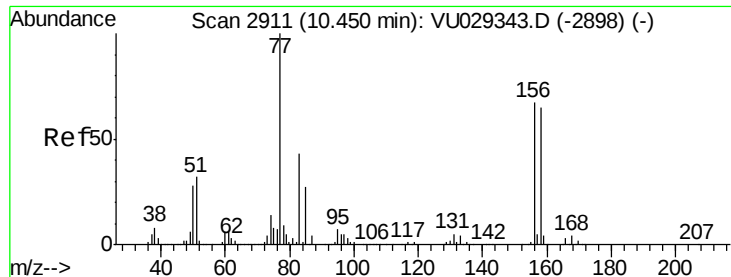


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0





#72

Bromobenzene

Concen: 0.018 ug/l

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

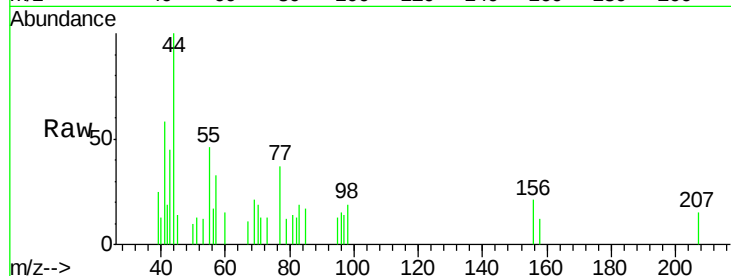
Tot Ion:156 Resp: 325

Ion Ratio Lower Upper

156 100

77 263.4 0.0 343.8

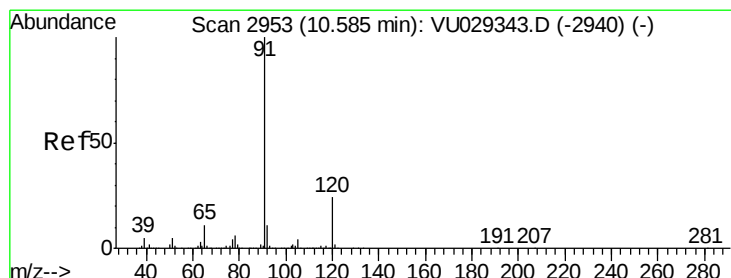
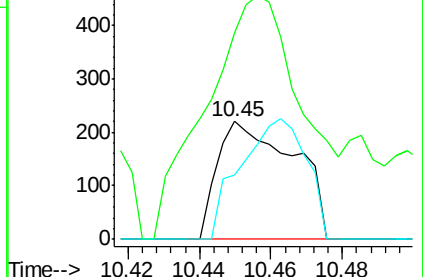
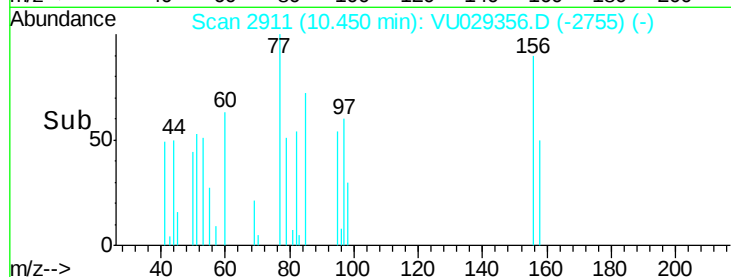
158 88.3 0.0 195.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V



#73

n-propylbenzene

Concen: 0.019 ug/l

RT: 10.78 min Scan# 3013

Delta R.T. 0.19 min

Lab File: VU029356.D

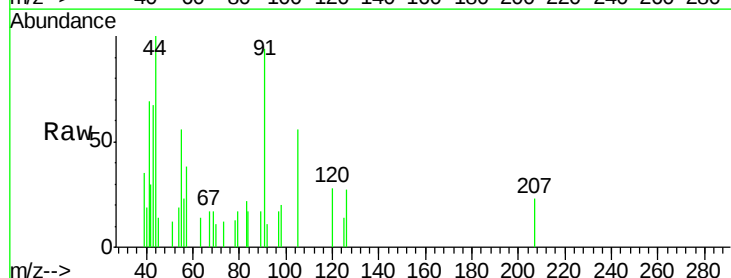
Acq: 06 Feb 2019 10:43

Tgt Ion:120 Resp: 382

Ion Ratio Lower Upper

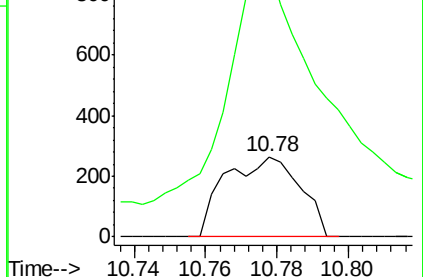
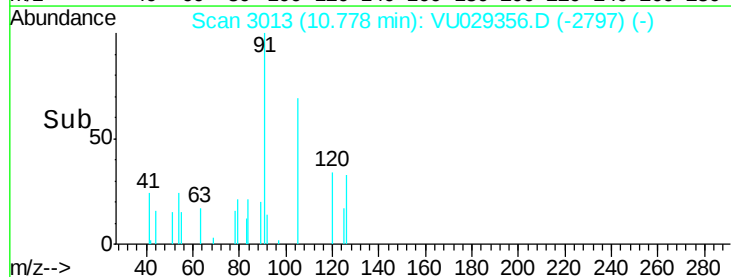
120 100

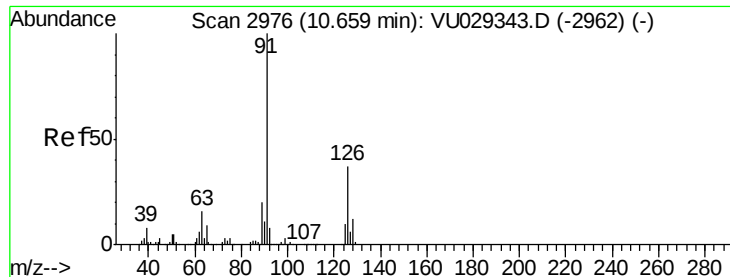
91 372.5 370.0 555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 0.018 ug/l

RT: 10.67 min Scan# 2978

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

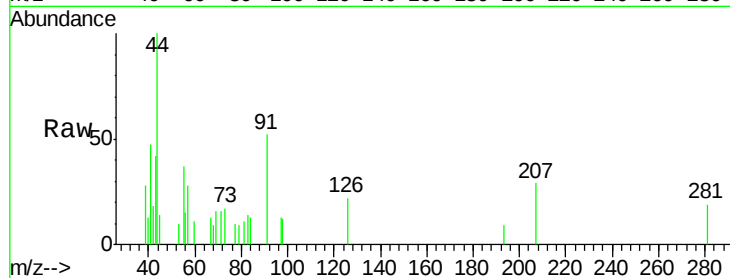
VBLK51

Tot Ion:126 Resp: 305

Ion Ratio Lower Upper

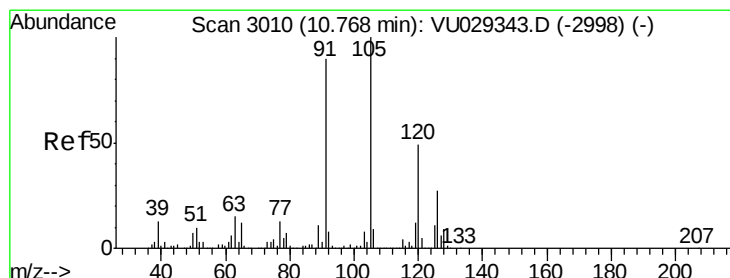
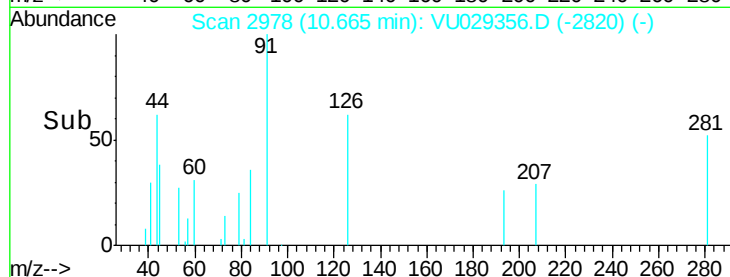
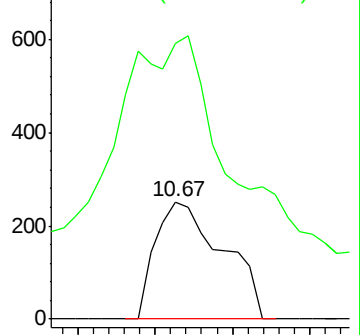
126 100

91 307.9 0.0 643.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.018 ug/l

RT: 10.78 min Scan# 3014

Delta R.T. 0.01 min

Lab File: VU029356.D

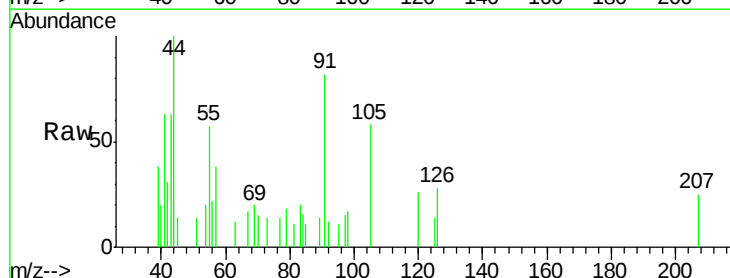
Acq: 06 Feb 2019 10:43

Tgt Ion:105 Resp: 1127

Ion Ratio Lower Upper

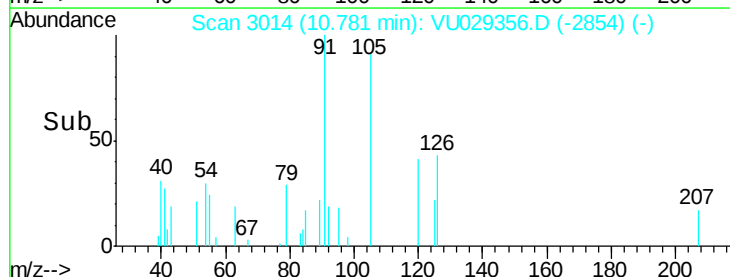
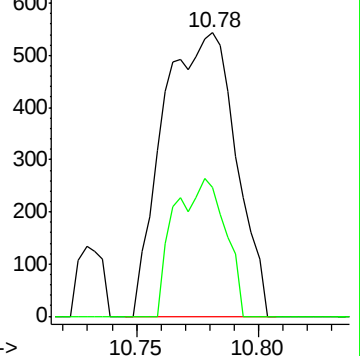
105 100

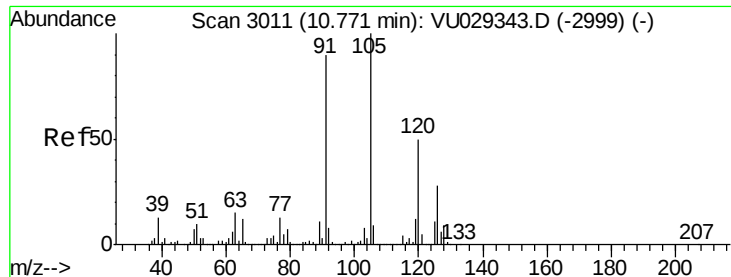
120 33.9 37.3 55.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

4-Chlorotoluene

Concen: 0.023 ug/l

RT: 10.78 min Scan# 3014

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampled :

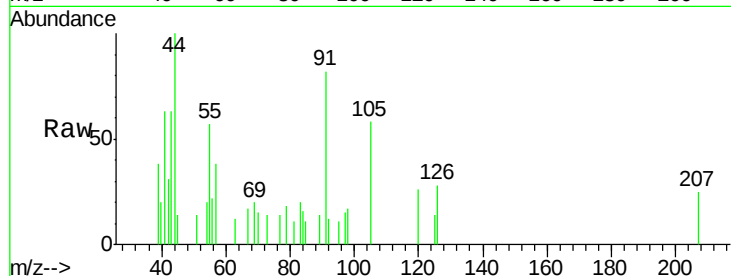
VBLK51

Tot Ion:126 Resp: 407

Ion Ratio Lower Upper

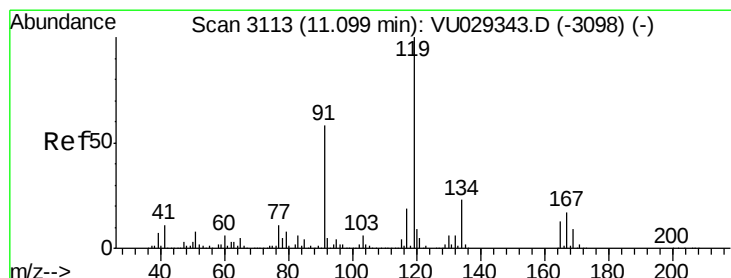
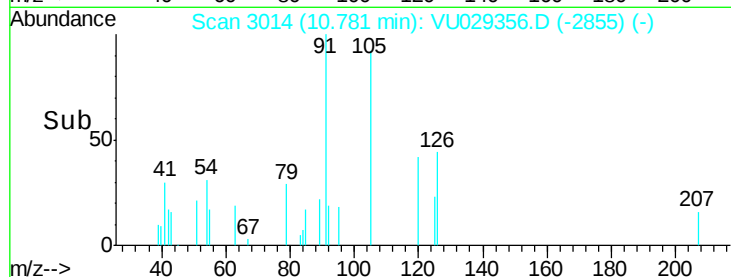
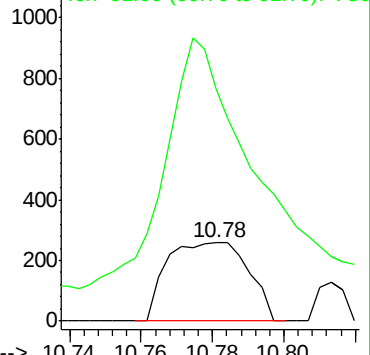
126 100

91 349.6 0.0 727.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#77

tert-Butylbenzene

Concen: 0.013 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

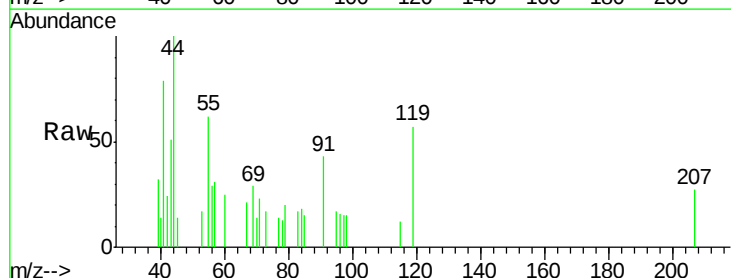
Tgt Ion:119 Resp: 809

Ion Ratio Lower Upper

119 100

91 77.3 32.2 96.6

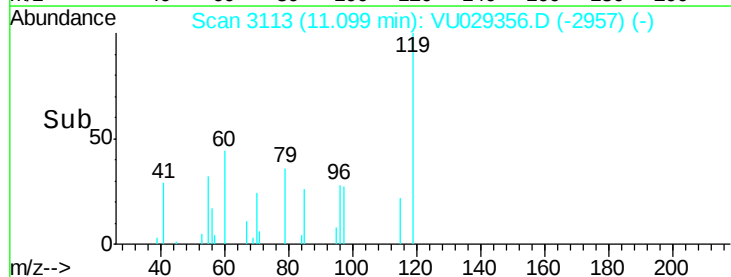
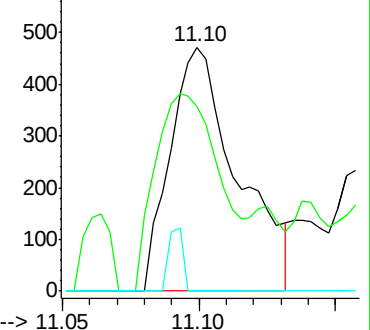
134 5.7 17.6 26.4#

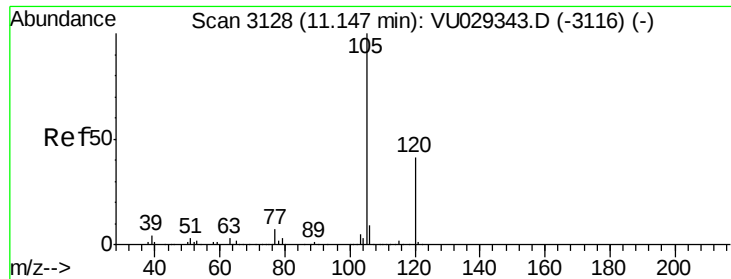


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V

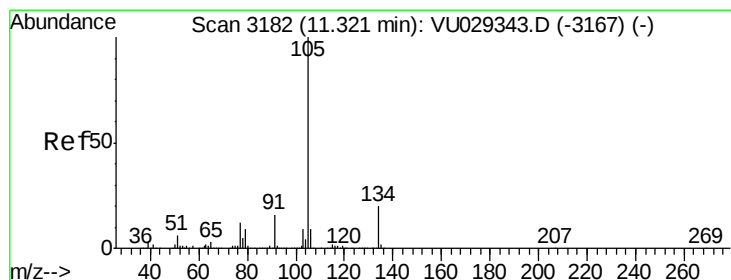
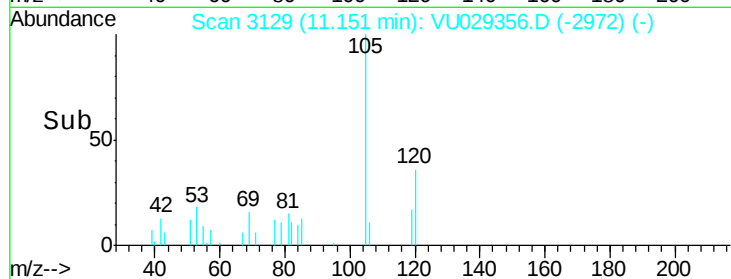
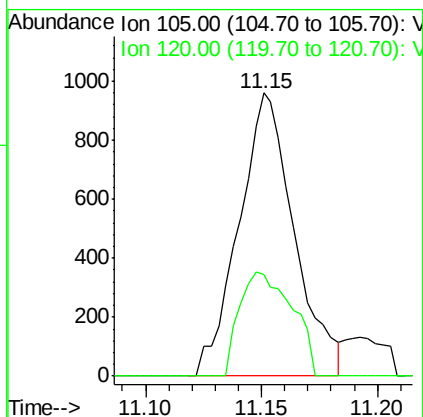
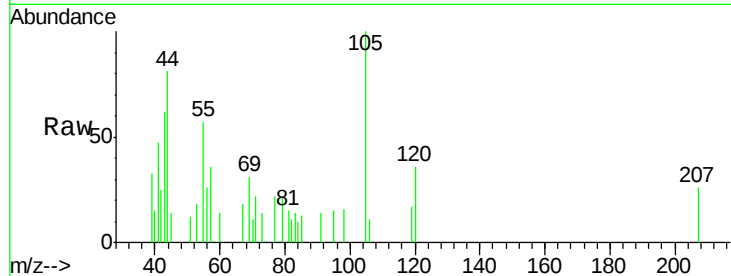




#78
 1,2,4-Trimethylbenzene
 Concen: 0.025 ug/l
 RT: 11.15 min Scan# 3129
 Delta R.T. 0.00 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

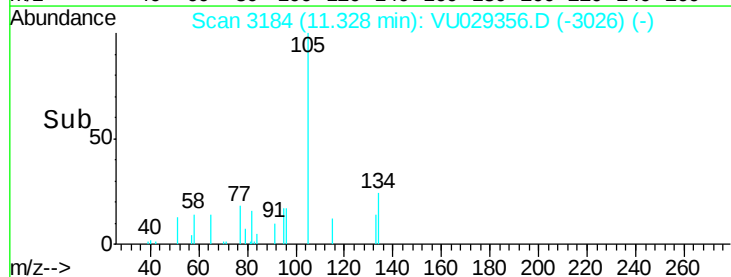
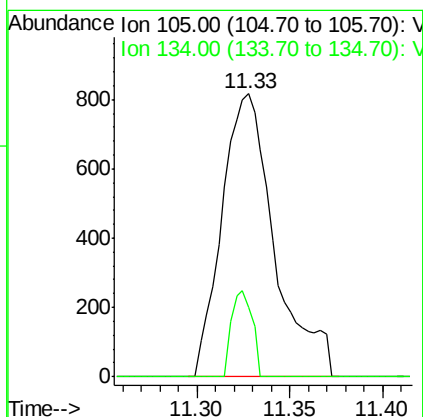
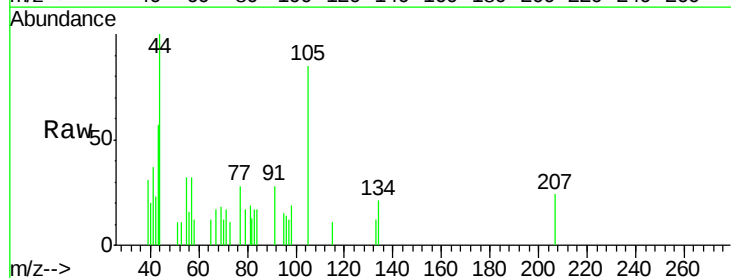
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

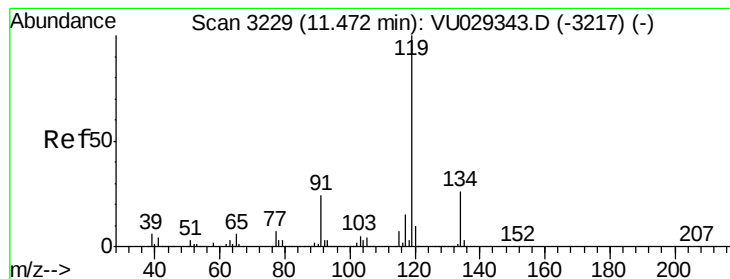
Tot Ion:105 Resp: 1593
 Ion Ratio Lower Upper
 105 100
 120 34.9 21.4 64.3



#79
 sec-Butylbenzene
 Concen: 0.020 ug/l
 RT: 11.33 min Scan# 3184
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion:105 Resp: 1609
 Ion Ratio Lower Upper
 105 100
 134 11.9 15.0 22.6#





#81

p-Isopropyltoluene

Concen: 0.024 ug/l

RT: 11.48 min Scan# 3231

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

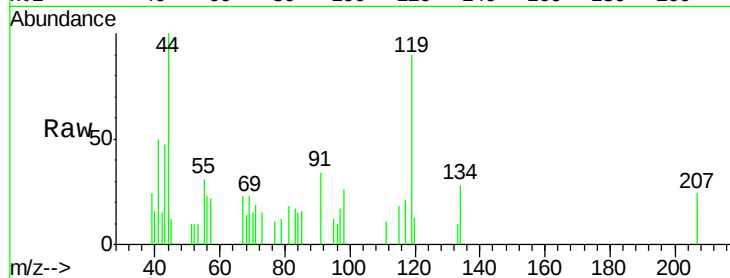
Tot Ion:119 Resp: 1672

Ion Ratio Lower Upper

119 100

134 23.7 19.8 29.6

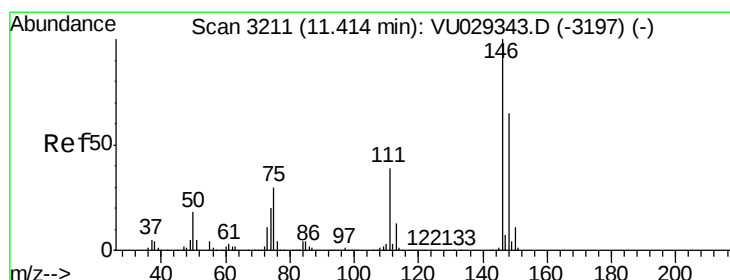
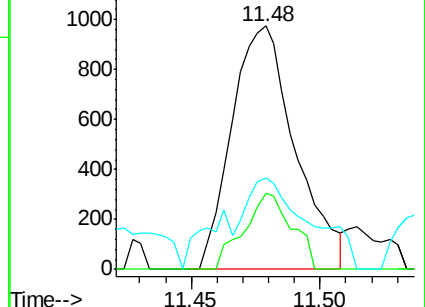
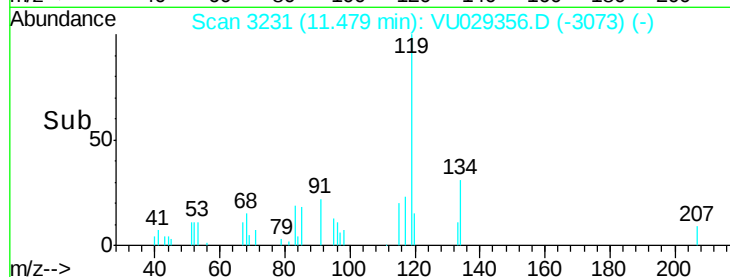
91 37.7 21.5 32.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#82

1,3-Dichlorobenzene

Concen: 0.031 ug/l

RT: 11.42 min Scan# 3213

Delta R.T. 0.01 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

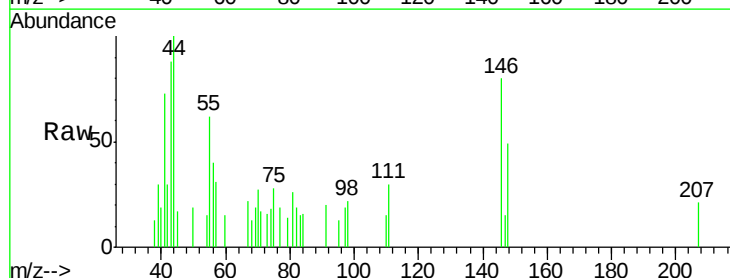
Tgt Ion:146 Resp: 1090

Ion Ratio Lower Upper

146 100

111 51.1 34.1 51.1

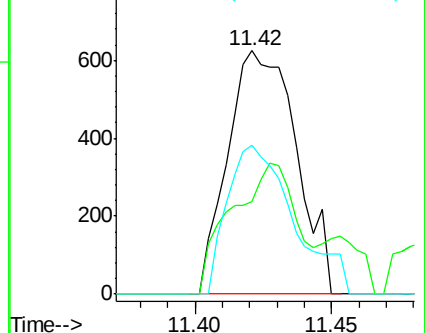
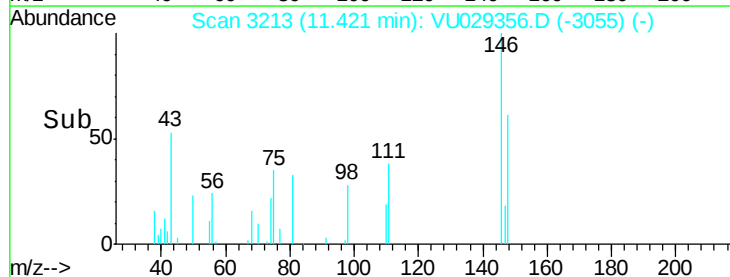
148 59.3 52.3 78.5

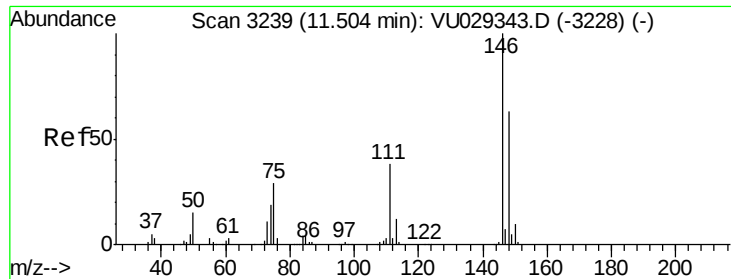


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

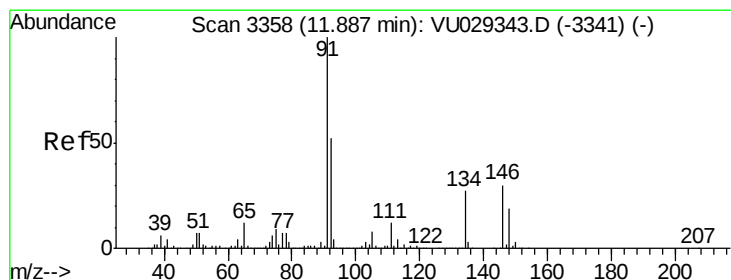
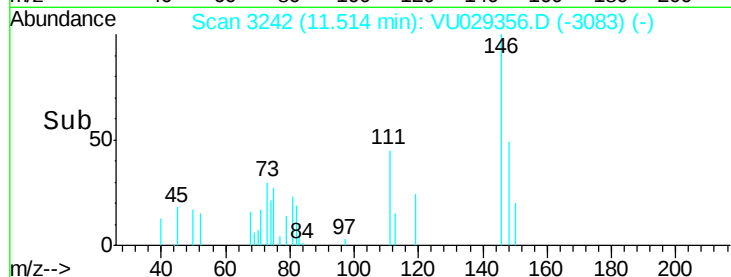
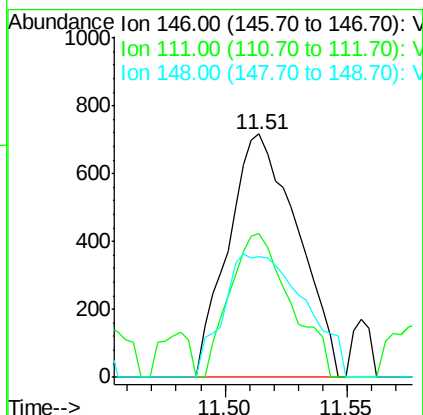
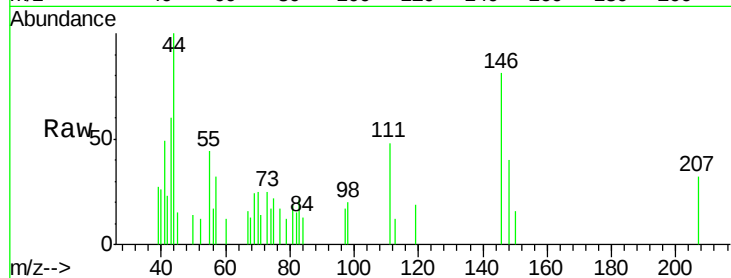




#83
 1,4-Dichlorobenzene
 Concen: 0.041 ug/l
 RT: 11.51 min Scan# 3242
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

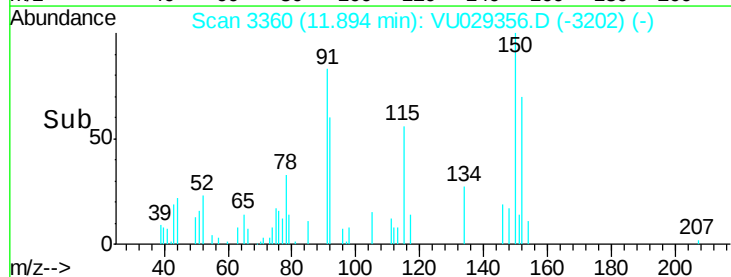
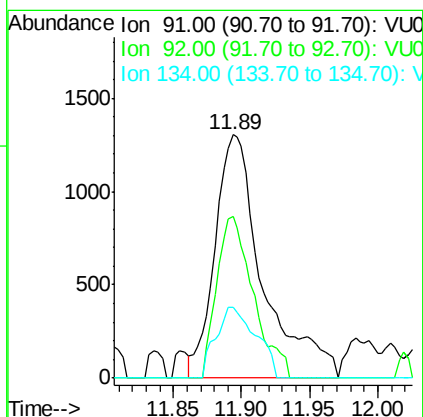
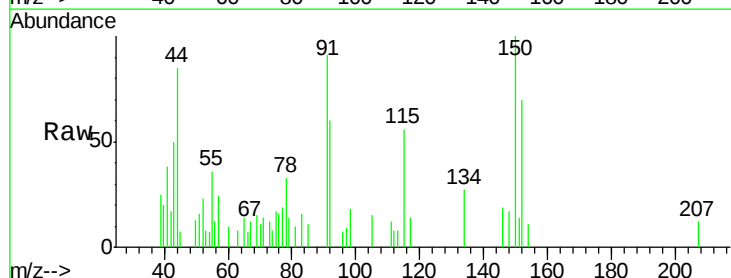
Instrument :
 MSVOA_U
 ClientSampled :
 VBLK51

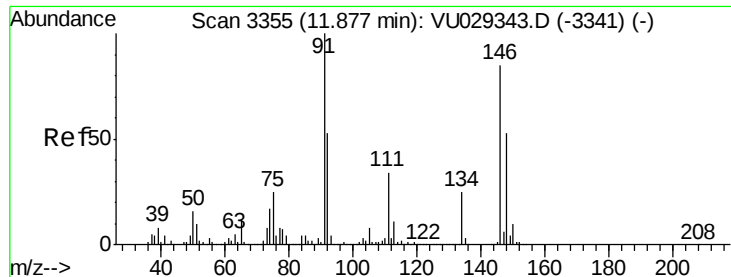
Tot Ion:146 Resp: 1410
 Ion Ratio Lower Upper
 146 100
 111 51.8 32.9 49.3#
 148 59.1 51.8 77.6



#84
 n-Butylbenzene
 Concen: 0.050 ug/l
 RT: 11.89 min Scan# 3360
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion: 91 Resp: 3182
 Ion Ratio Lower Upper
 91 100
 92 50.8 41.0 61.6
 134 24.4 19.1 28.7





#85

1,2-Dichlorobenzene

Concen: 0.027 ug/l

RT: 11.88 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VBLK51

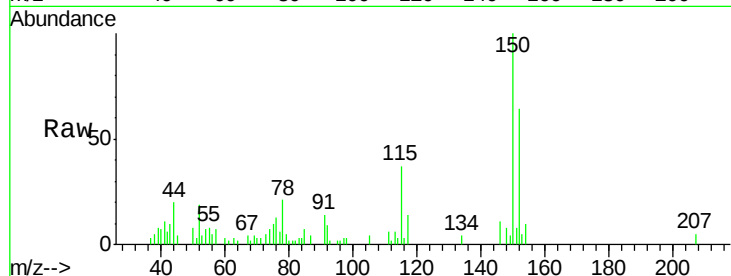
Tot Ion:146 Resp: 880

Ion Ratio Lower Upper

146 100

111 94.3 21.9 65.8#

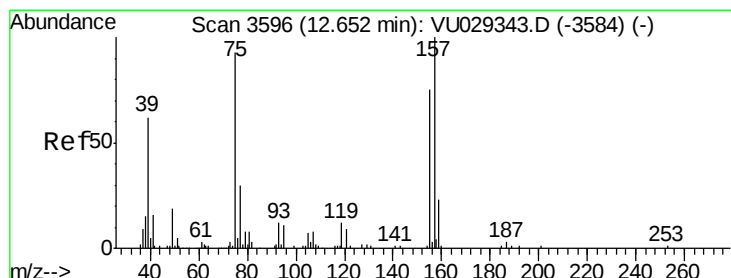
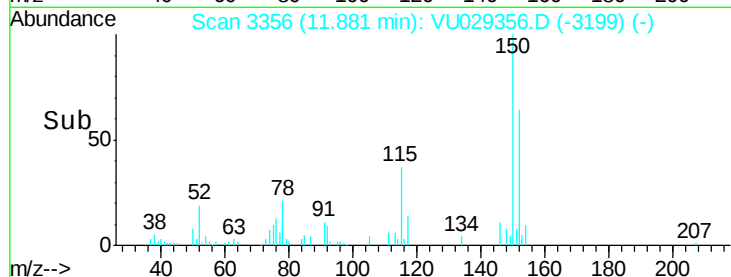
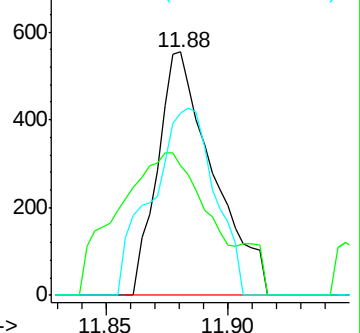
148 86.8 31.8 95.3



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



#86

1,2-Dibromo-3-Chloropropane

Concen: 0.017 ug/l

RT: 12.48 min Scan# 3541

Delta R.T. -0.18 min

Lab File: VU029356.D

Acq: 06 Feb 2019 10:43

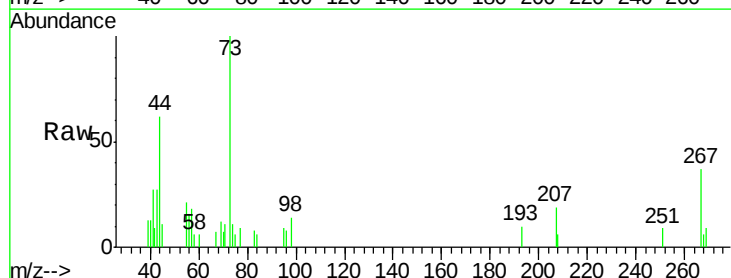
Tgt Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

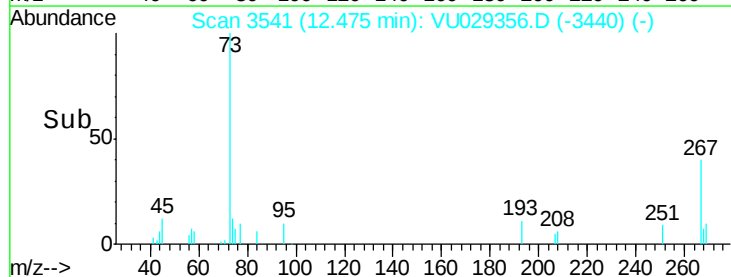
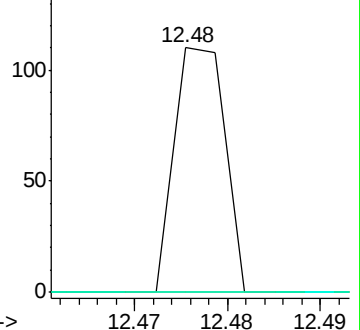
157 0.0 69.2 103.8#

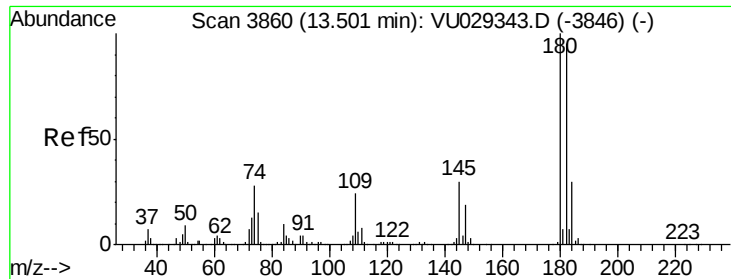


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

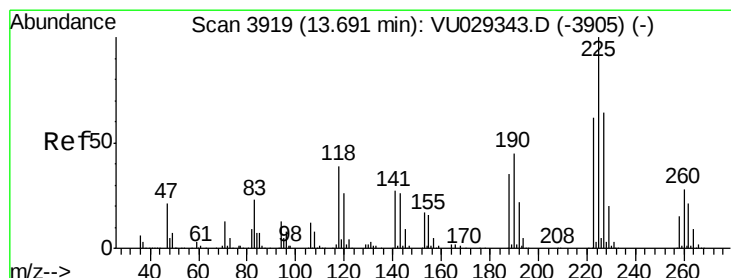
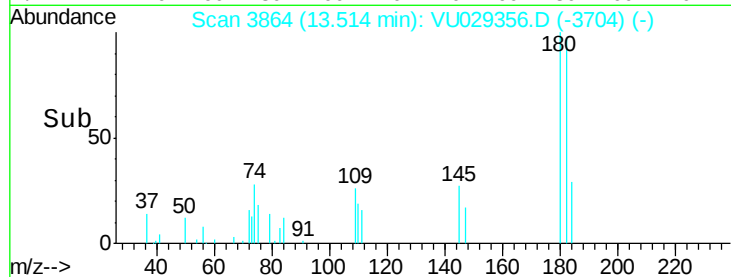
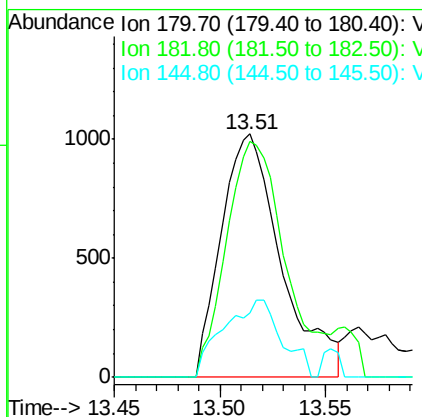
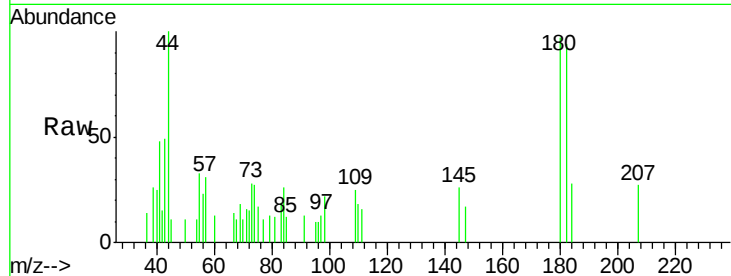




#87
 1,2,4-Trichlorobenzene
 Concen: 0.088 ug/l
 RT: 13.51 min Scan# 3864
 Delta R.T. 0.01 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK51

Tot Ion:180 Resp: 2023
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.6 114.8
 145 30.7 24.6 36.8



#88
 Hexachlorobutadiene
 Concen: 0.041 ug/l
 RT: 13.69 min Scan# 3920
 Delta R.T. 0.00 min
 Lab File: VU029356.D
 Acq: 06 Feb 2019 10:43

Tgt Ion:225 Resp: 555
 Ion Ratio Lower Upper
 225 100
 223 46.3 49.5 74.3#
 227 53.3 50.4 75.6

