

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029378.D
 Acq On : 08 Feb 2019 14:34
 Operator : JC/SP
 Sample : K1161-09DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:18:52 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	55788	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	19925	0.91	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	20144	0.90	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.00%	

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	68	0.003	ug/l # 43
3) Chloromethane	1.33	50	397	0.021	ug/l 90
4) Vinyl Chloride	1.64	62	41	0.002	ug/l # 43
5) Bromomethane	1.63	94	831	0.067	ug/l # 7
6) Chloroethane	1.49	64	154	0.012	ug/l 93
7) Trichlorofluoromethane	2.09	101	20	0.001	ug/l # 55
8) 1,1,2-Trichloro-1,2,2-trif	2.28	101	117	0.007	ug/l # 48
9) 1,1-Dichloroethene	2.26	96	87	0.005	ug/l 1
10) Iodomethane	2.41	142	231	0.309	ug/l # 83
11) Allyl Chloride	2.53	41	126	0.005	ug/l 98
12) Acrylonitrile	2.94	53	148	0.041	ug/l # 1
13) Acetone	2.37	43	207	0.060	ug/l 94
14) Carbon Disulfide	2.47	76	1163	0.020	ug/l # 91
15) Methylene Chloride	2.70	84	6551	0.336	ug/l # 75
16) trans-1,2-Dichloroethene	2.94	96	155	0.009	ug/l # 34
17) 1,1-Dichloroethane	3.45	63	21	0.001	ug/l # 85
18) 2-Butanone	4.25	43	39	0.010	ug/l 91
19) Cyclohexane	4.97	56	187	0.007	ug/l # 1
21) 2,2-Dichloropropane	4.21	77	198	0.008	ug/l 98
22) cis-1,2-Dichloroethene	4.22	96	69	0.004	ug/l # 1
23) Diethyl Ether	2.11	59	878	0.068	ug/l 88
24) tert-Butyl Alcohol	2.84	59	1387	1.033	ug/l # 58
25) Methyl tert-Butyl Ether	3.00	73	21	0.000	ug/l # 47
27) Chloroform	4.67	83	107033	3.859	ug/l 97
28) 1,1,1-Trichloroethane	4.90	97	21	0.001	ug/l # 22
31) Isopropyl Ether	3.35	45	373	0.009	ug/l 78
33) Tert-Amyl methyl ether	5.59	73	185	0.005	ug/l # 39
35) Benzene	5.38	78	65	0.001	ug/l # 50
39) Methacrylonitrile	4.56	41	77	0.015	ug/l # 65
40) Methyl acrylate	4.43	55	49	0.006	ug/l # 1
41) Tetrahydrofuran	4.66	42	687	0.261	ug/l # 55
42) 1-Chlorobutane	5.05	56	111	0.004	ug/l 80
43) Dibromomethane	6.75	93	6209	0.726	ug/l # 4
44) Bromodichloromethane	6.76	83	201805	9.257	ug/l 95
45) 4-Methyl-2-Pentanone	7.47	43	349	0.035	ug/l # 56
46) t-1,4-Dichloro-2-butene	10.31	75	9386	1.921	ug/l # 16
47) Methyl methacrylate	6.63	69	120	0.016	ug/l # 62
48) Ethyl methacrylate	7.97	69	64	0.004	ug/l 70
52) 1,1,2-Trichloroethane	8.08	97	49	0.004	ug/l # 14
54) 2-Hexanone	8.35	43	325	0.046	ug/l # 48
55) Dibromochloromethane	8.48	129	20096	1.248	ug/l 98

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 ALS Vial : 8 Sample Multiplier: 1

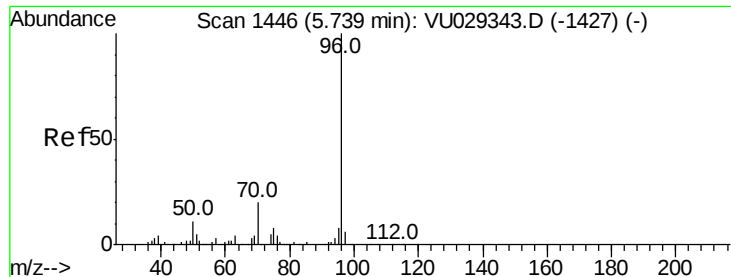
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:18:52 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)

58) Tetrachloroethene	8.23	164	21	0.001	ug/l #	1
59) Chlorobenzene	9.12	112	102	0.002	ug/l #	42
63) Ethyl Benzene	9.26	91	50	0.001	ug/l #	45
64) m/p-Xylenes	9.38	106	44	0.001	ug/l #	1
67) Bromoform	9.96	173	54273	5.419	ug/l	100
69) Isopropylbenzene	10.17	105	167	0.002	ug/l #	50
70) 1,1,2,2-Tetrachloroethane	10.42	83	21	0.001	ug/l #	26
71) 1,2,3-Trichloropropane	10.31	75	9386	0.942	ug/l #	49
73) n-propylbenzene	10.59	120	701	0.032	ug/l	72
75) 1,3,5-Trimethylbenzene	10.71	105	40	0.001	ug/l	87
78) 1,2,4-Trimethylbenzene	11.15	105	182	0.003	ug/l #	33
79) sec-Butylbenzene	11.31	105	39	0.000	ug/l #	58
80) Nitrobenzene	12.90	77	92	0.142	ug/l #	43
81) p-Isopropyltoluene	11.49	119	83	0.001	ug/l #	75
82) 1,3-Dichlorobenzene	11.42	146	116	0.003	ug/l #	24
83) 1,4-Dichlorobenzene	11.51	146	194	0.005	ug/l #	54
84) n-Butylbenzene	11.89	91	234	0.003	ug/l #	34
85) 1,2-Dichlorobenzene	11.88	146	25	0.001	ug/l #	1
86) 1,2-Dibromo-3-Chloropropan	12.49	75	350	0.129	ug/l #	11
89) Naphthalene	13.81	128	21	0.000	ug/l #	69

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 96 Resp: 55788

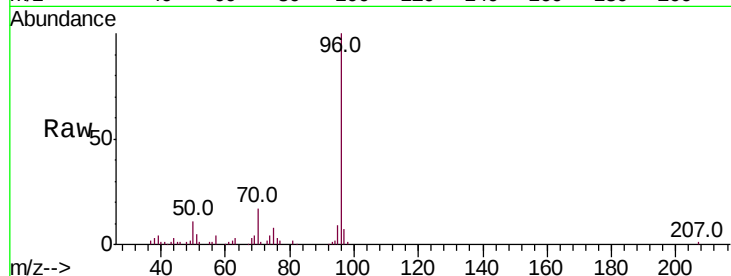
Ion Ratio Lower Upper

96 100

70 17.6 16.2 24.2

95 9.6 7.4 11.2

97 6.8 0.0 0.0#

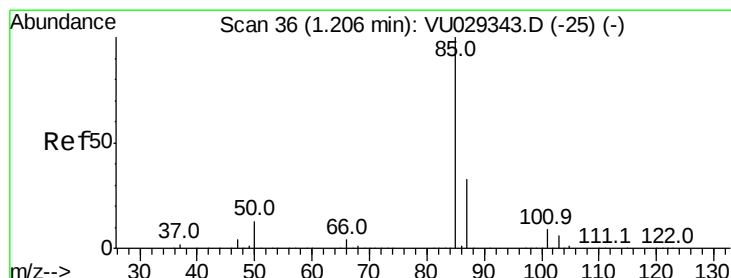
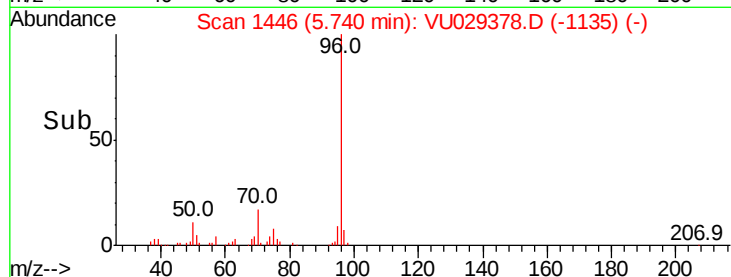
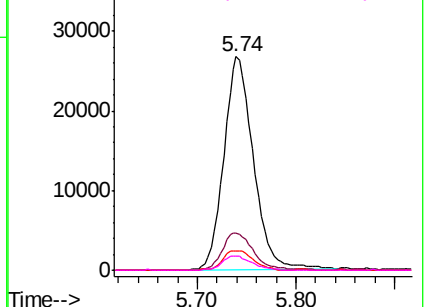


Abundance Ion 96.00 (95.70 to 96.70): VU0

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: 0.003 ug/l

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029378.D

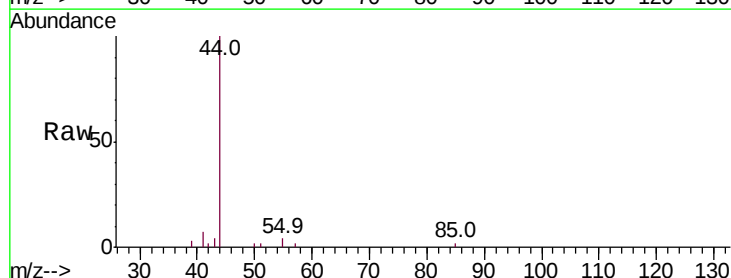
Acq: 08 Feb 2019 14:34

Tgt Ion: 85 Resp: 68

Ion Ratio Lower Upper

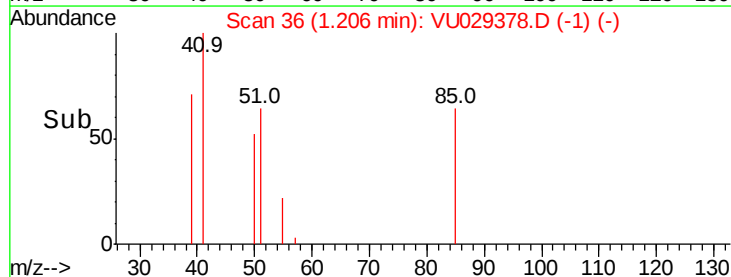
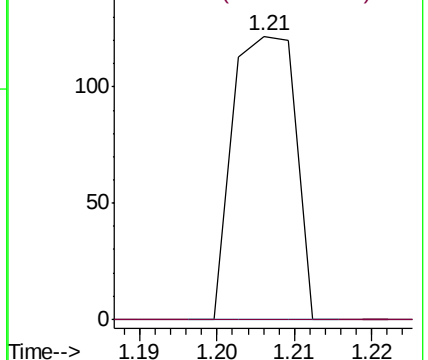
85 100

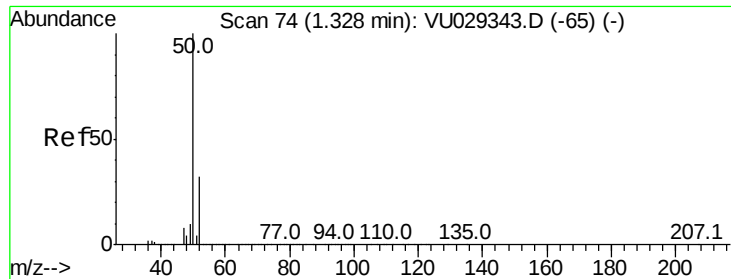
87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.021 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

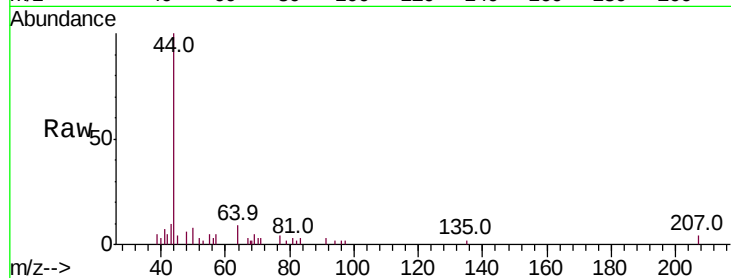
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 397

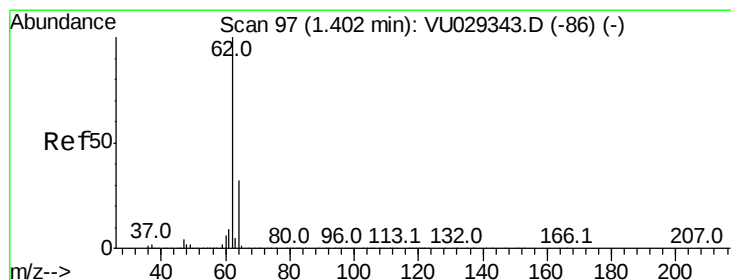
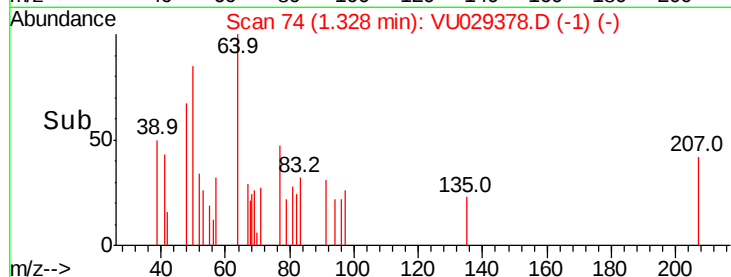
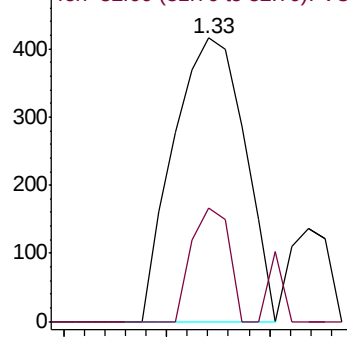
Ion Ratio Lower Upper

50 100

52 39.9 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: 0.002 ug/l

RT: 1.64 min Scan# 170

Delta R.T. 0.23 min

Lab File: VU029378.D

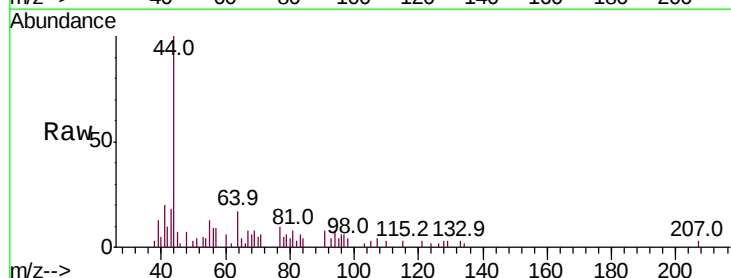
Acq: 08 Feb 2019 14:34

Tgt Ion: 62 Resp: 41

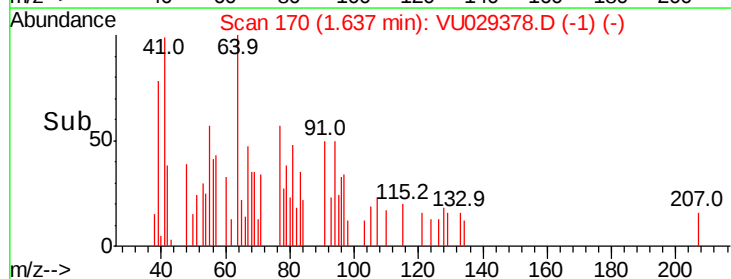
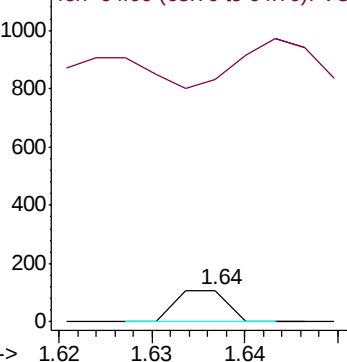
Ion Ratio Lower Upper

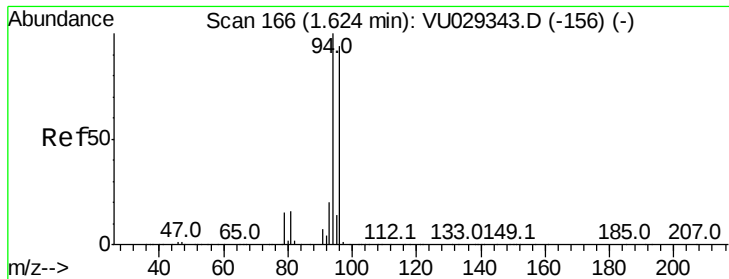
62 100

64 0.0 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: 0.067 ug/l

RT: 1.63 min Scan# 169

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

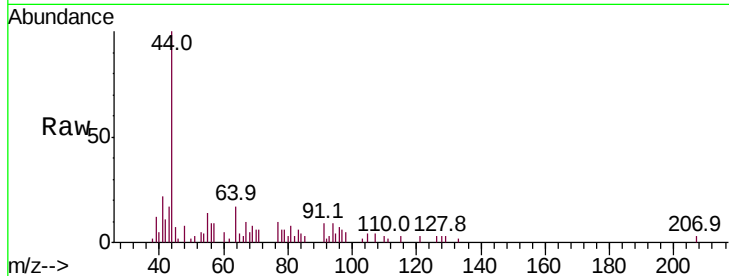
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 831

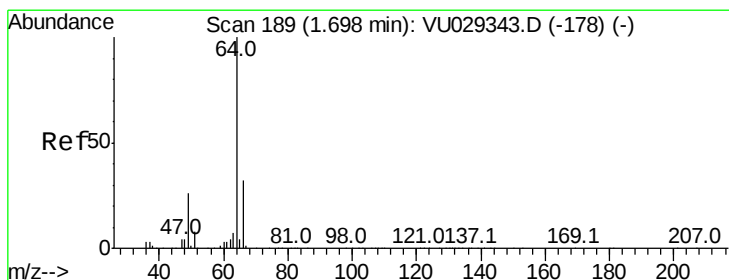
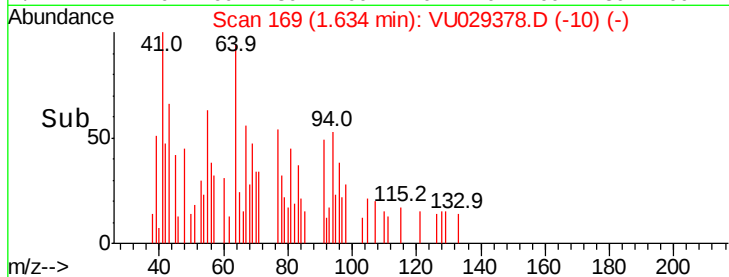
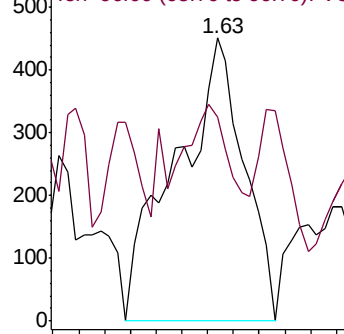
Ion Ratio Lower Upper

94 100

96 2.0 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: 0.012 ug/l

RT: 1.49 min Scan# 125

Delta R.T. -0.21 min

Lab File: VU029378.D

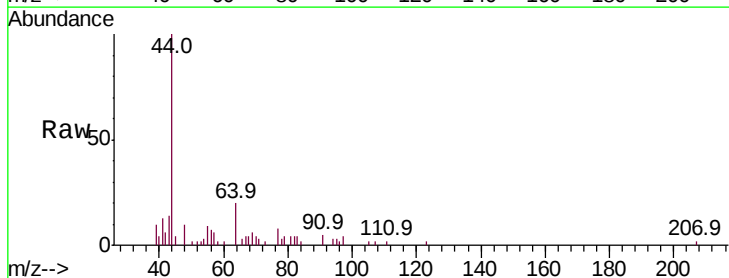
Acq: 08 Feb 2019 14:34

Tgt Ion: 64 Resp: 154

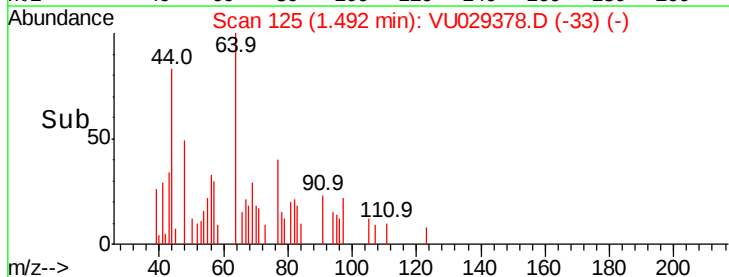
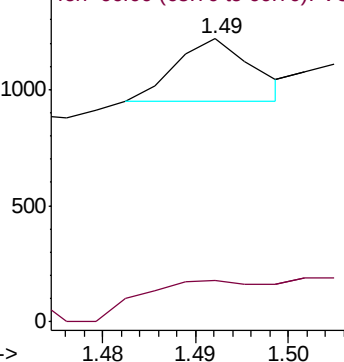
Ion Ratio Lower Upper

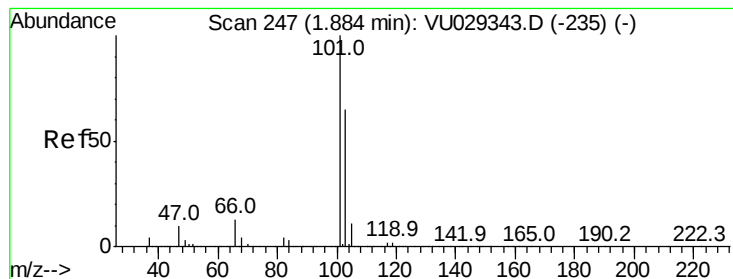
64 100

66 28.7 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VU0
Ion 66.00 (65.70 to 66.70): VU0



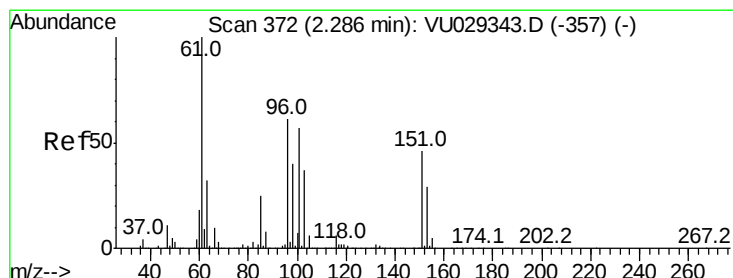
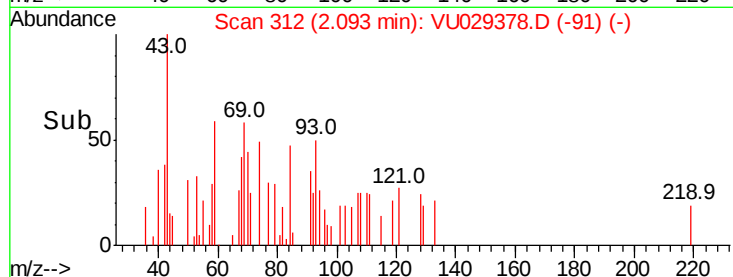
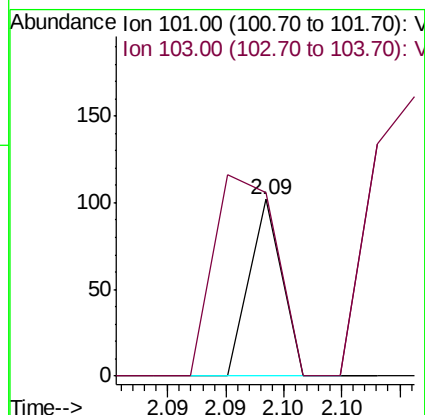
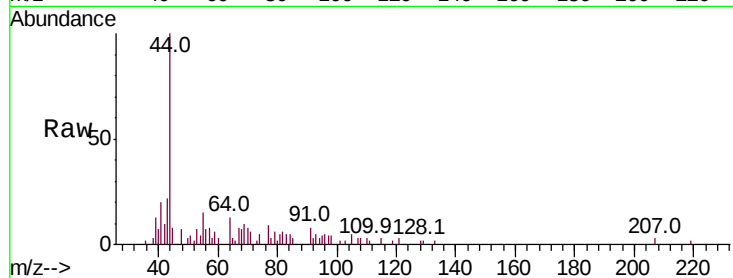


#7

Trichlorofluoromethane
Concen: 0.001 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.21 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampled :

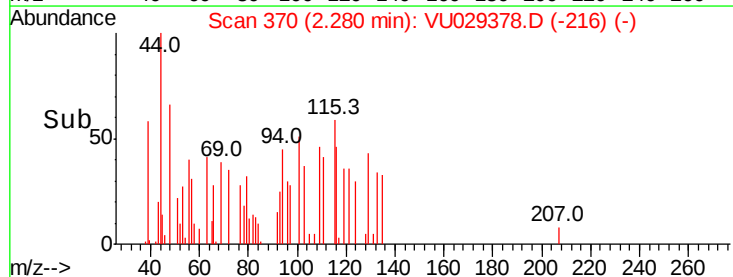
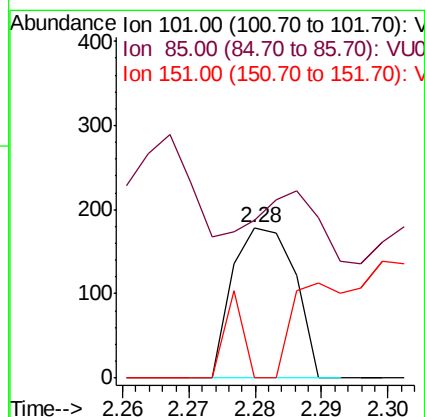
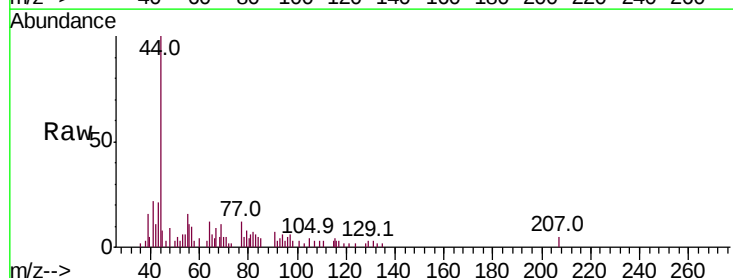
Tot Ion:101 Resp: 20
Ion Ratio Lower Upper
101 100
103 103.9 53.9 80.9#

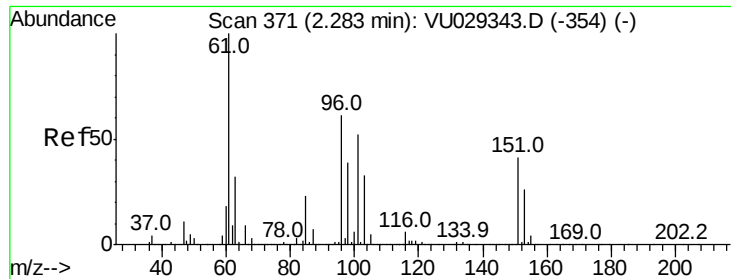


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.007 ug/l
RT: 2.28 min Scan# 370
Delta R.T. -0.01 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion:101 Resp: 117
Ion Ratio Lower Upper
101 100
85 28.2 40.3 60.5#
151 17.1 58.1 87.1#

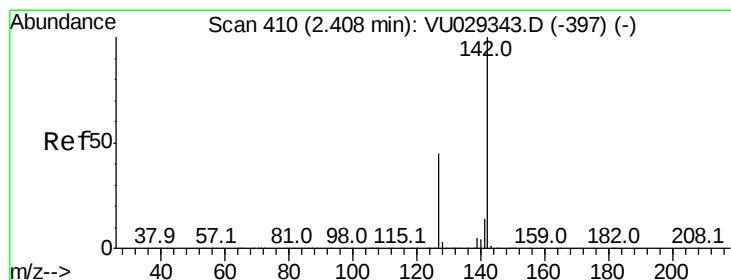
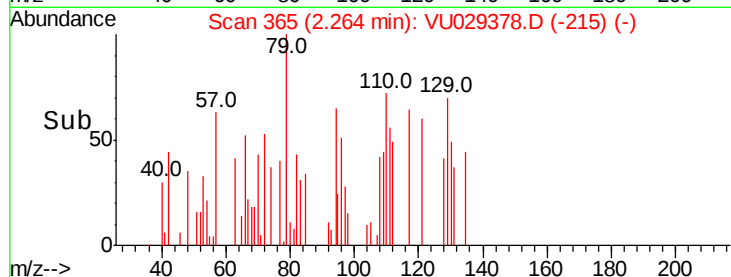
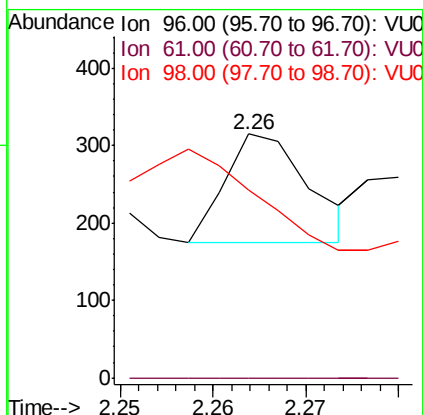
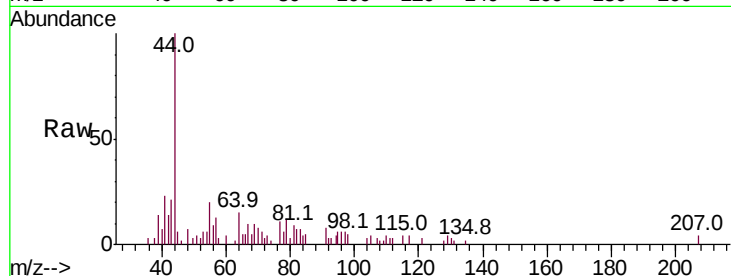




#9
 1,1-Dichloroethene
 Concen: 0.005 ug/l
 RT: 2.26 min Scan# 365
 Delta R.T. -0.02 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

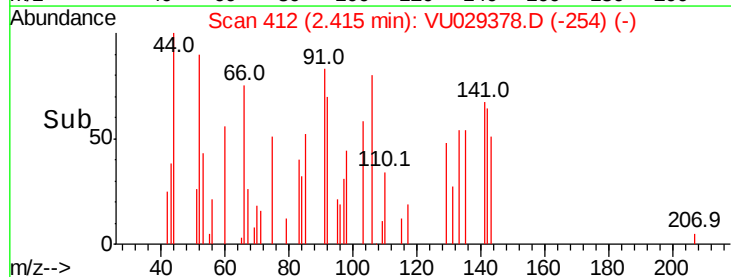
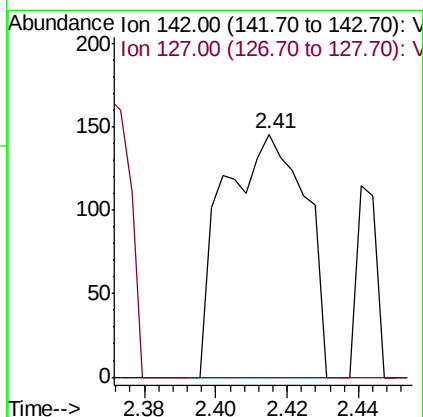
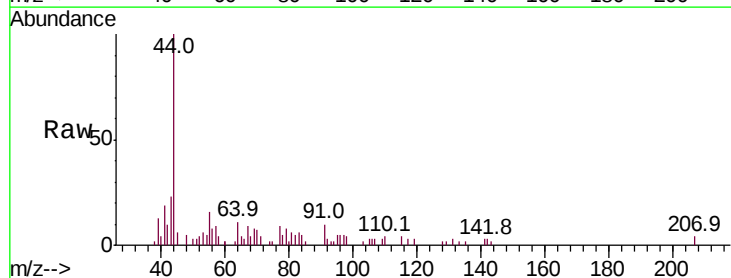
Instrument :
 MSVOA_U
 ClientSampled :

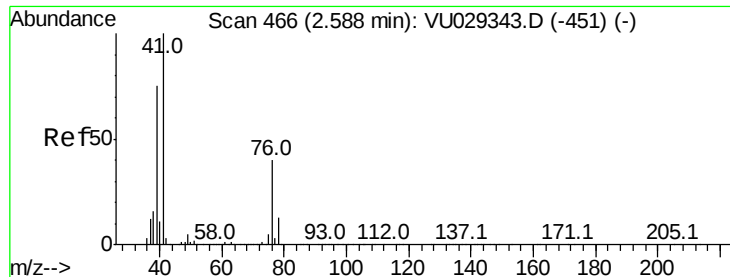
Tot Ion: 96 Resp: 87
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 641.4
 98 55.0 0.0 122.6



#10
 Iodomethane
 Concen: 0.309 ug/l
 RT: 2.41 min Scan# 412
 Delta R.T. 0.01 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

Tgt Ion:142 Resp: 231
 Ion Ratio Lower Upper
 142 100
 127 46.8 47.6 71.4#

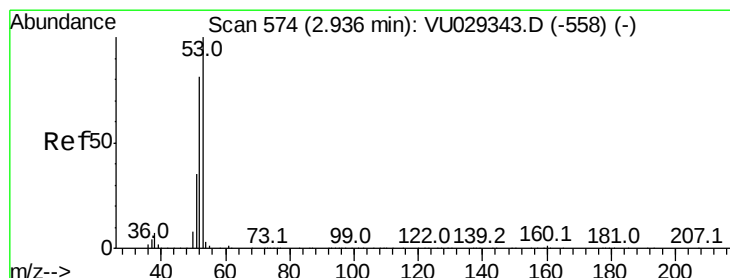
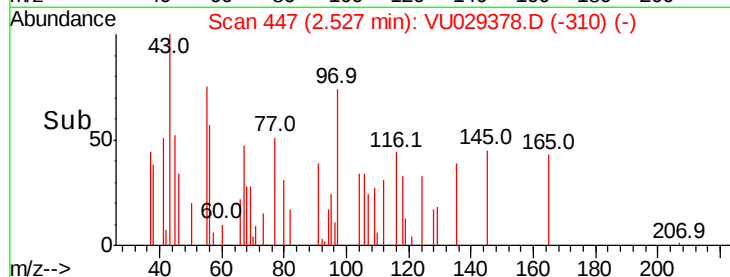
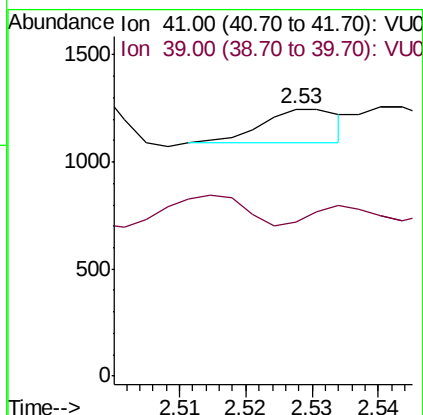
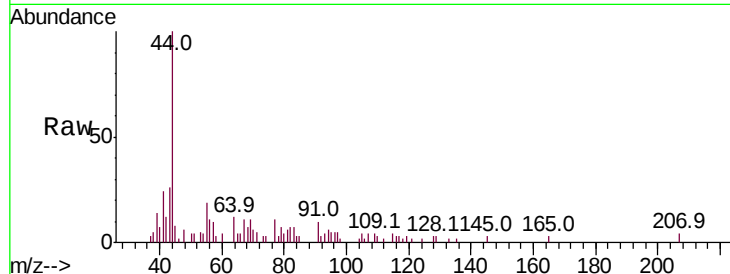




#11
Allvl Chloride
Concen: 0.005 ug/l
RT: 2.53 min Scan# 447
Delta R.T. -0.06 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

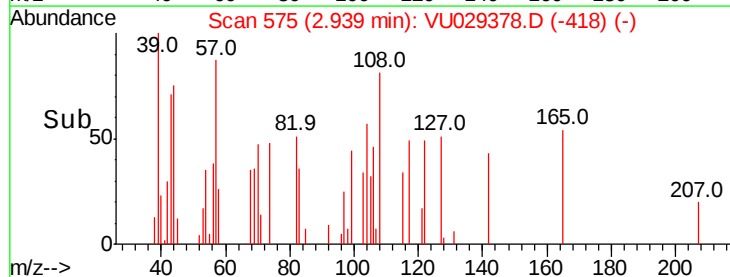
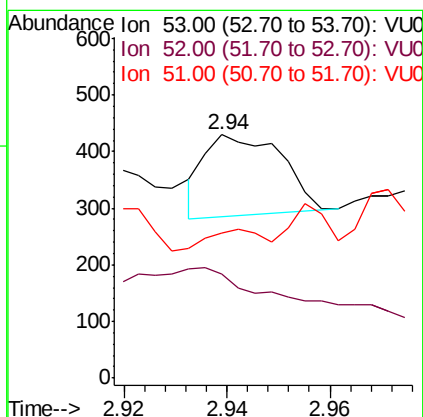
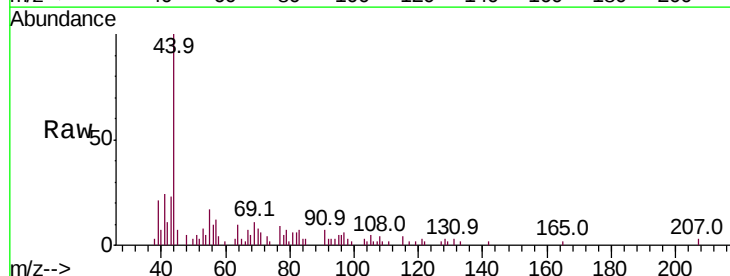
Instrument :
MSVOA_U
ClientSampled :

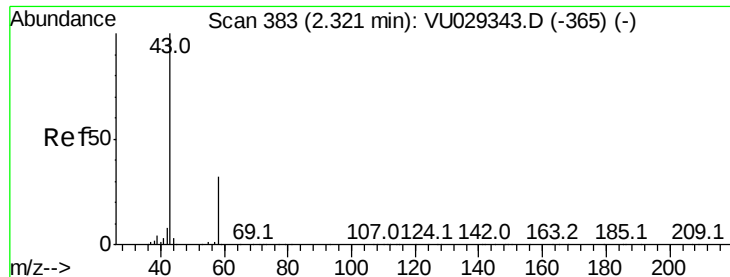
Tot Ion: 41 Resp: 126
Ion Ratio Lower Upper
41 100
39 85.7 67.2 100.8



#12
Acrylonitrile
Concen: 0.041 ug/l
RT: 2.94 min Scan# 575
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 53 Resp: 148
Ion Ratio Lower Upper
53 100
52 438.5 67.6 101.4#
51 45.9 31.0 46.4





#13

Acetone

Concen: 0.060 ug/l

RT: 2.37 min Scan# 397

Delta R.T. 0.05 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

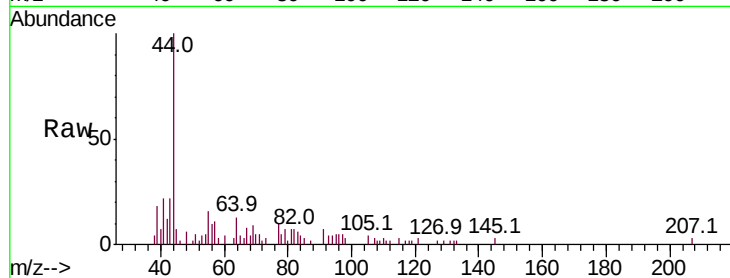
ClientSampled :

Tot Ion: 43 Resp: 207

Ion Ratio Lower Upper

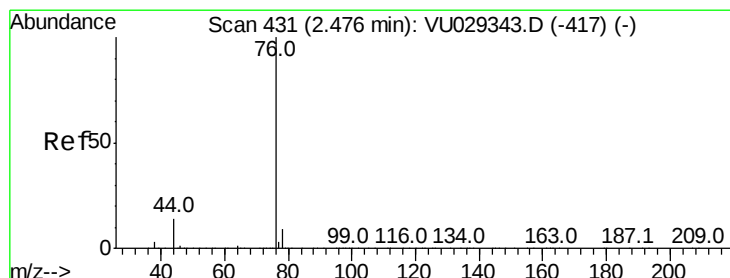
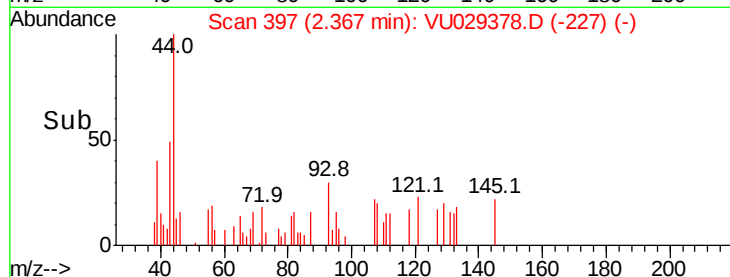
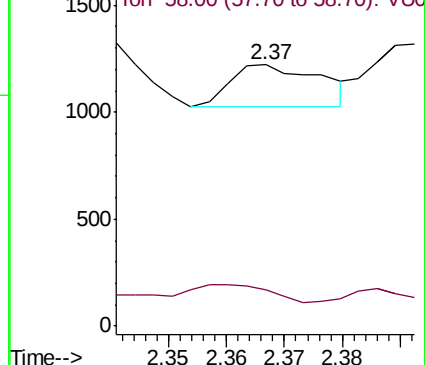
43 100

58 21.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon Disulfide

Concen: 0.020 ug/l

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029378.D

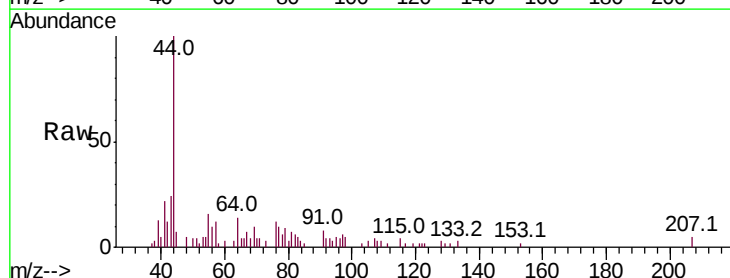
Acq: 08 Feb 2019 14:34

Tgt Ion: 76 Resp: 1163

Ion Ratio Lower Upper

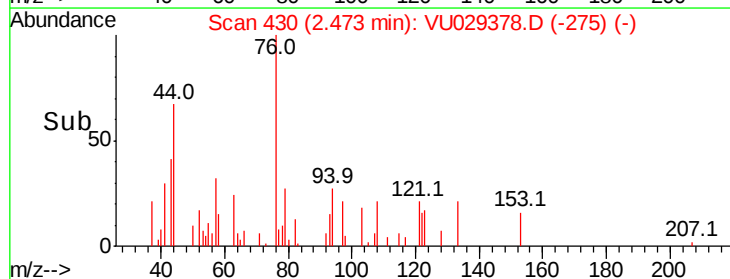
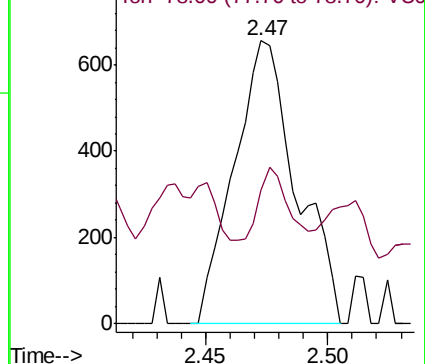
76 100

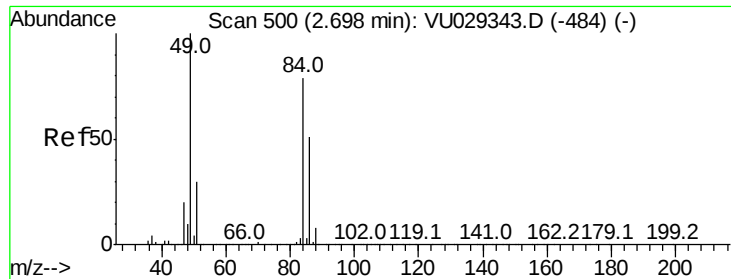
78 5.8 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

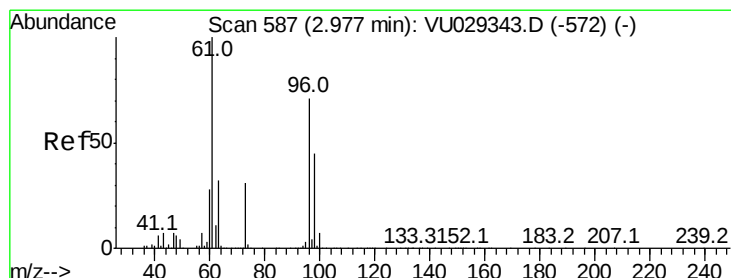
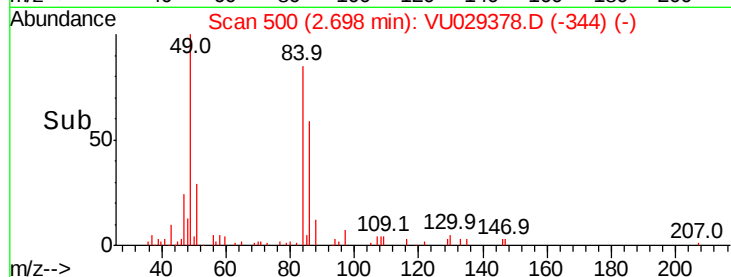
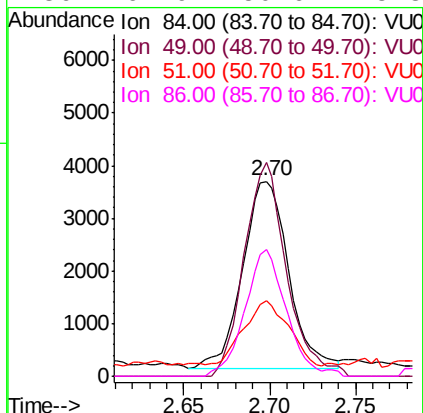
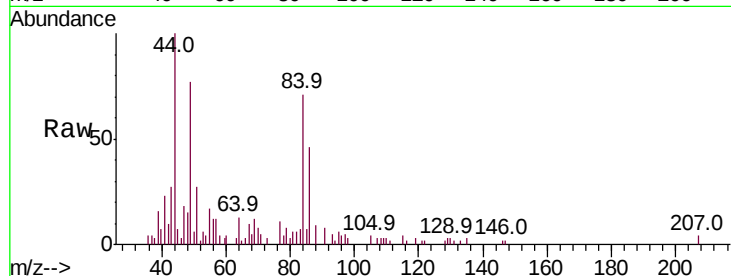




#15
Methylene Chloride
Concen: 0.336 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

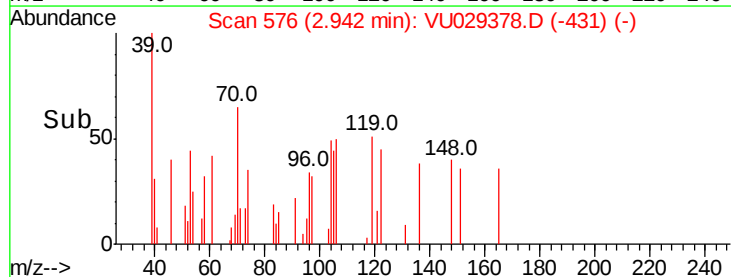
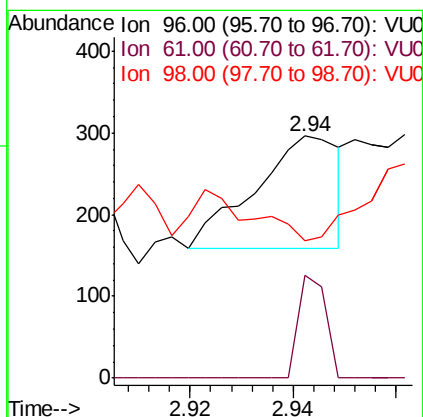
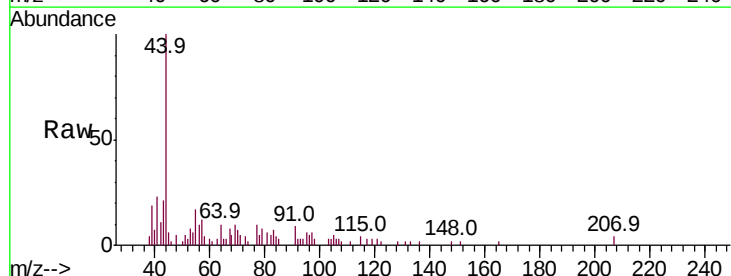
Instrument :
MSVOA_U
ClientSampled :

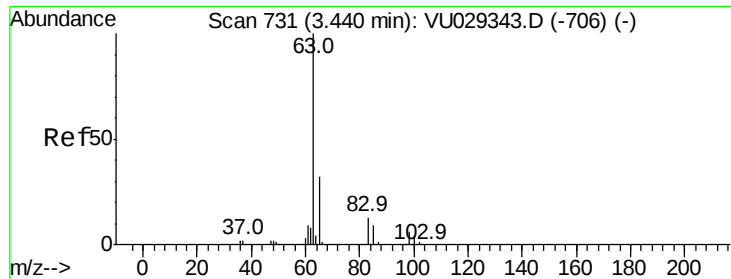
Tot Ion: 84 Resp: 6551
Ion Ratio Lower Upper
84 100
49 114.5 127.0 190.6#
51 34.0 0.0 93.4
86 67.9 50.6 75.8



#16
trans-1,2-Dichloroethene
Concen: 0.009 ug/l
RT: 2.94 min Scan# 576
Delta R.T. -0.04 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 96 Resp: 155
Ion Ratio Lower Upper
96 100
61 91.2 140.6 210.8#
98 0.0 49.3 73.9#





#17

1,1-Dichloroethane

Concen: 0.001 ug/l

RT: 3.45 min Scan# 734

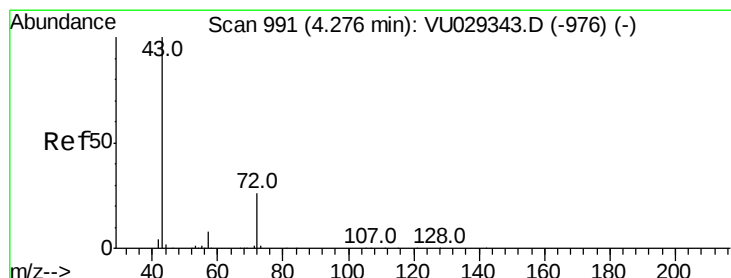
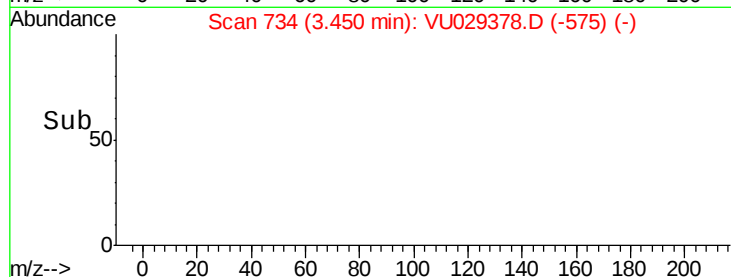
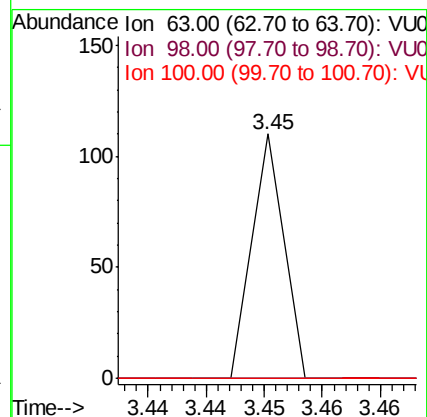
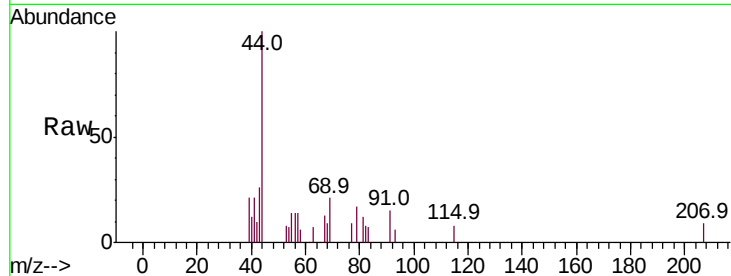
Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	63	Resp:	21
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.9	8.8#
100	0.0	1.7	5.1#



#18

2-Butanone

Concen: 0.010 ug/l

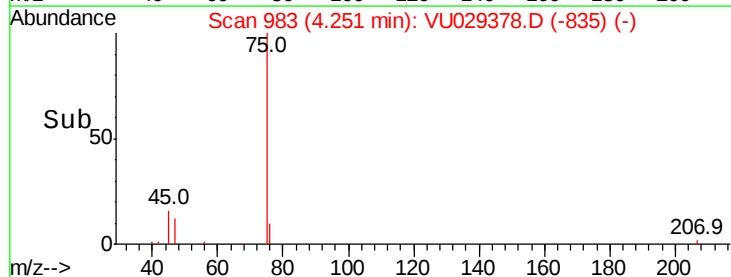
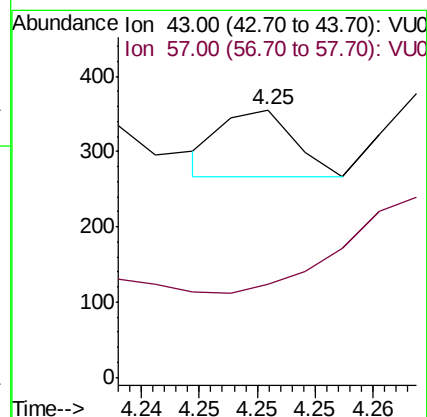
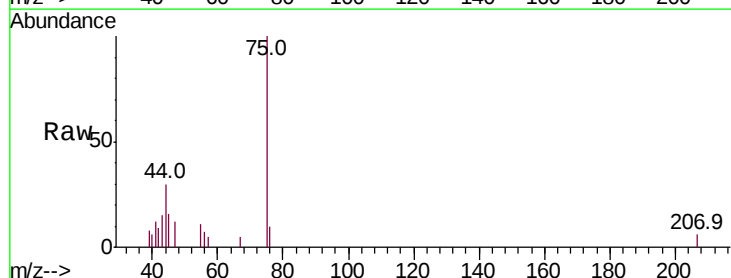
RT: 4.25 min Scan# 983

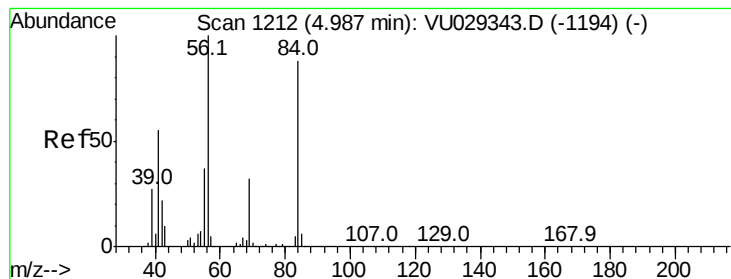
Delta R.T. -0.03 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Tgt Ion:	43	Resp:	39
Ion	Ratio	Lower	Upper
43	100		
57	11.2	0.0	15.8





#19

Cvclohexane

Concen: 0.007 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampleId :

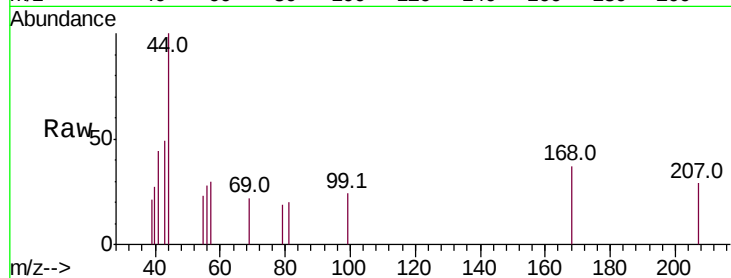
Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

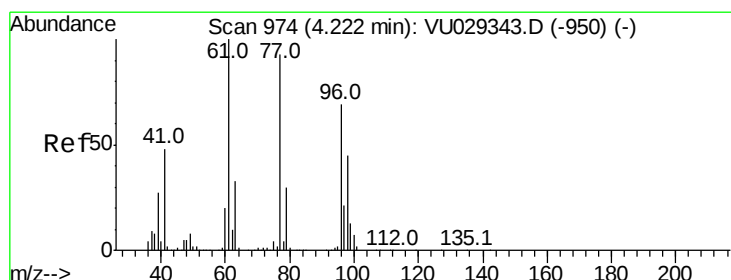
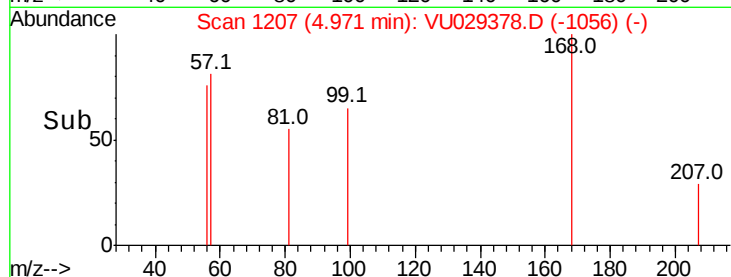
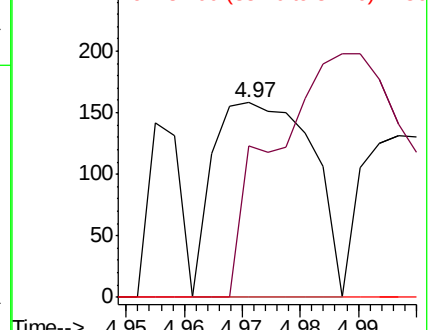
56 100

69 181.3 26.8 40.2#

84 0.0 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



#21

2,2-Dichloropropane

Concen: 0.008 ug/l

RT: 4.21 min Scan# 971

Delta R.T. -0.01 min

Lab File: VU029378.D

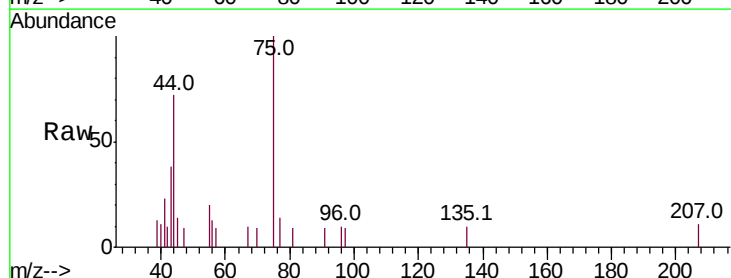
Acq: 08 Feb 2019 14:34

Tgt Ion: 77 Resp: 198

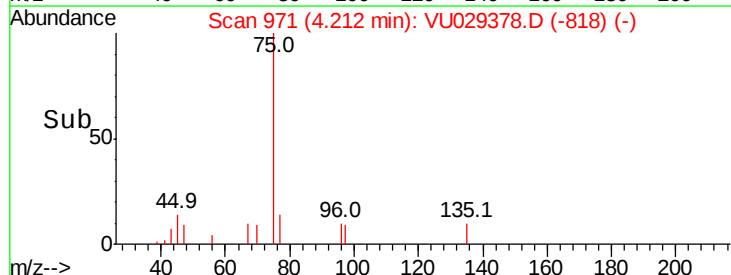
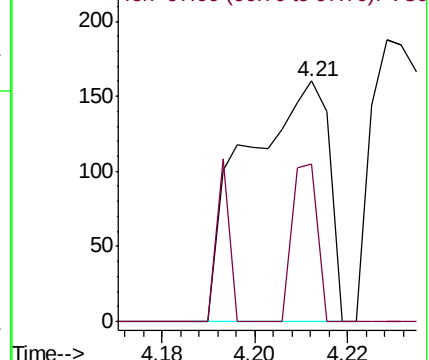
Ion Ratio Lower Upper

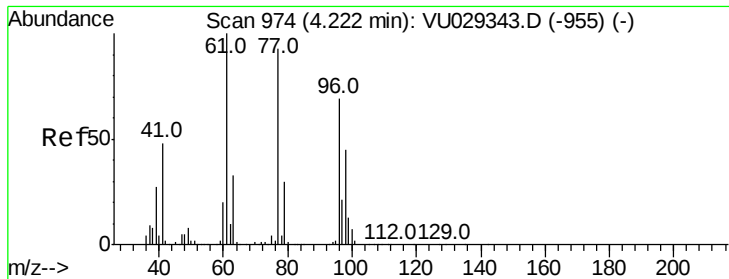
77 100

97 20.2 15.6 23.4



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



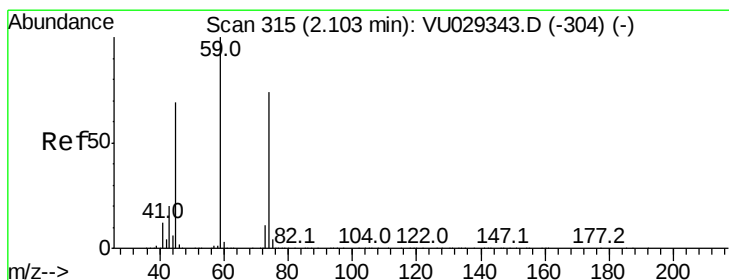
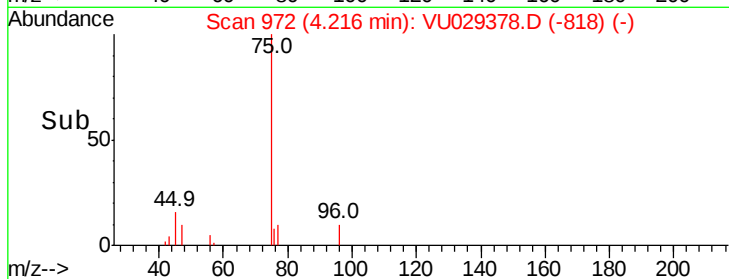
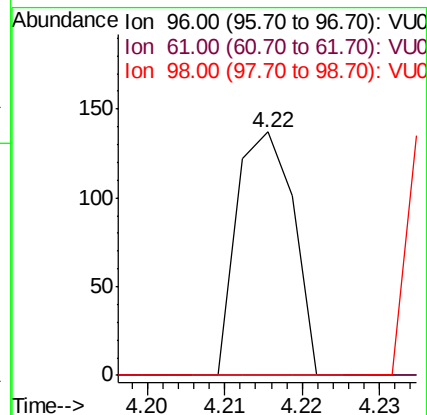
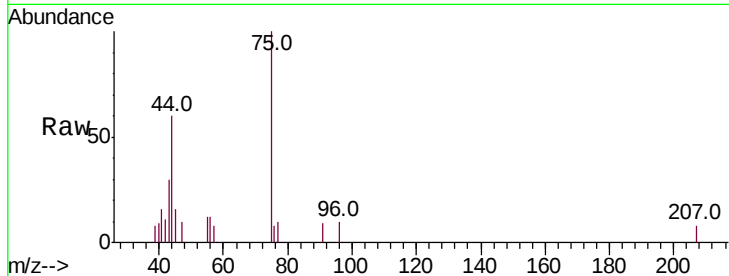


#22

cis-1,2-Dichloroethene
Concen: 0.004 ug/l
RT: 4.22 min Scan# 972
Delta R.T. -0.01 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampleId :

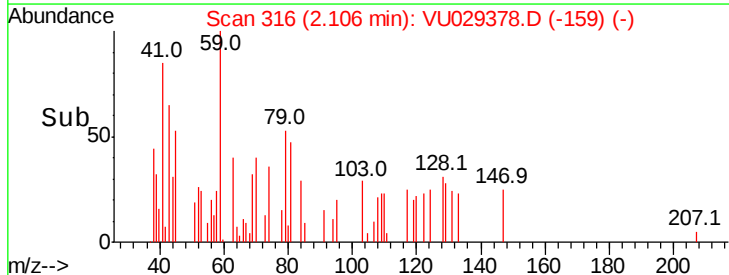
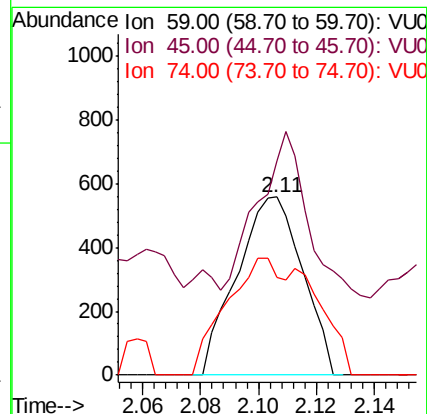
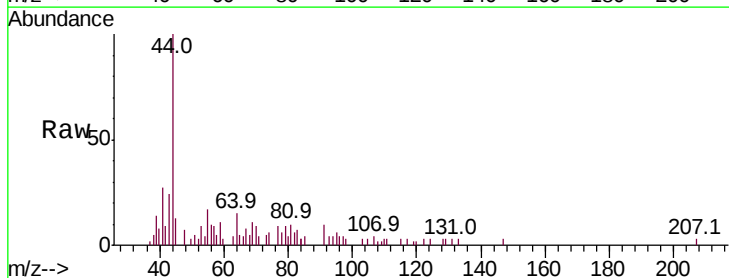
Tot Ion: 96 Resp: 69
Ion Ratio Lower Upper
96 100
61 0.0 0.0 460.0
98 171.0 32.6 97.7#

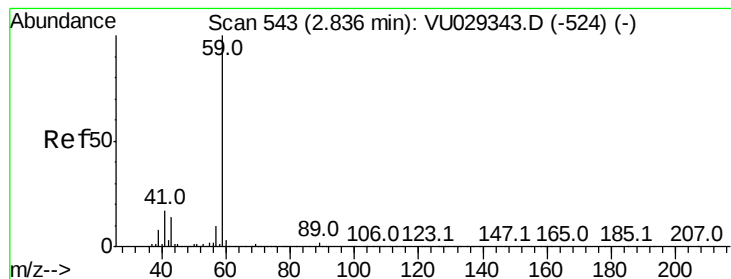


#23

Diethyl Ether
Concen: 0.068 ug/l
RT: 2.11 min Scan# 316
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 59 Resp: 878
Ion Ratio Lower Upper
59 100
45 70.6 64.2 96.4
74 57.7 55.3 82.9





#24

tert-Butyl Alcohol

Concen: 1.033 ug/l

RT: 2.84 min Scan# 544

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

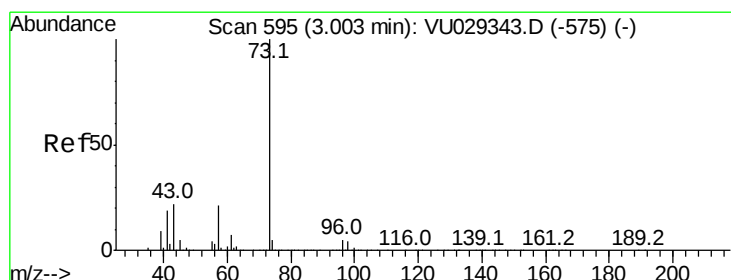
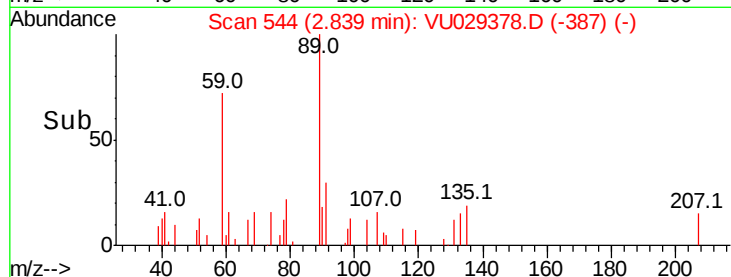
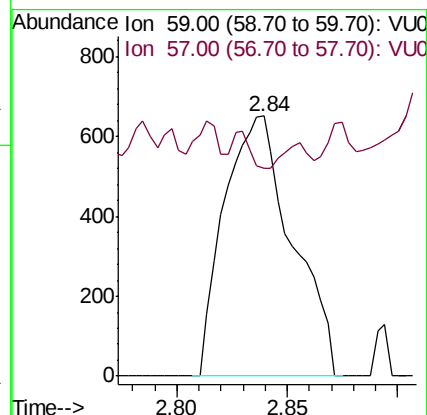
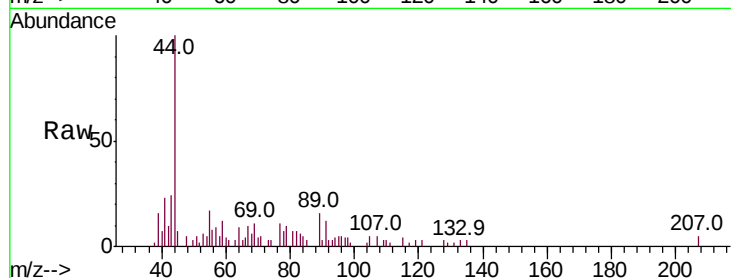
ClientSampleId :

Tot Ion: 59 Resp: 1387

Ion Ratio Lower Upper

59 100

57 26.9 8.8 13.2#



#25

Methyl tert-Butyl Ether

Concen: 0.000 ug/l

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU029378.D

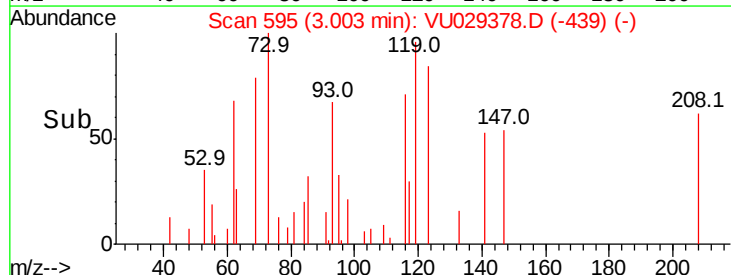
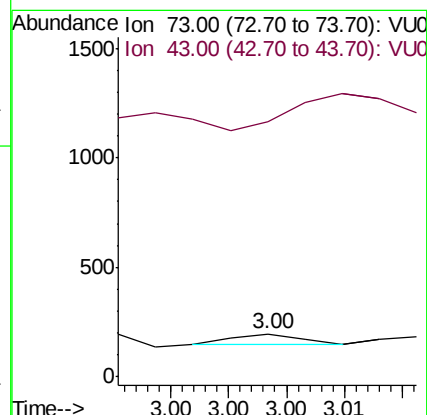
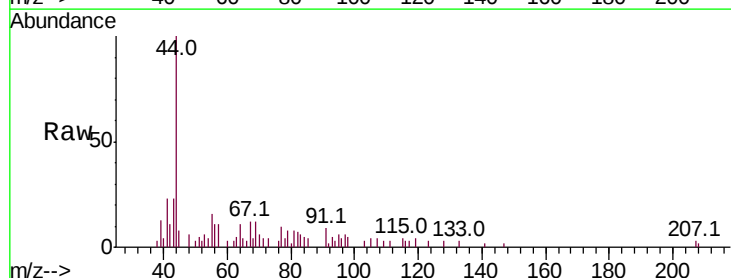
Acq: 08 Feb 2019 14:34

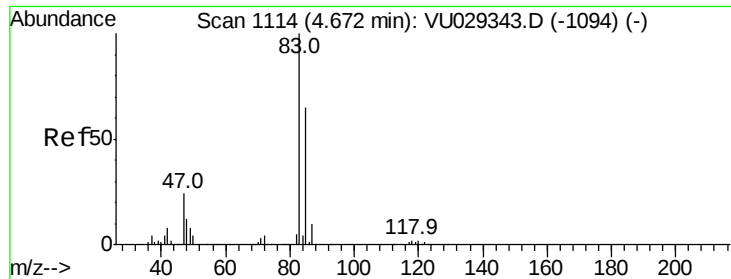
Tgt Ion: 73 Resp: 21

Ion Ratio Lower Upper

73 100

43 0.0 22.1 33.1#





#27

Chloroform

Concen: 3.859 ug/l

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

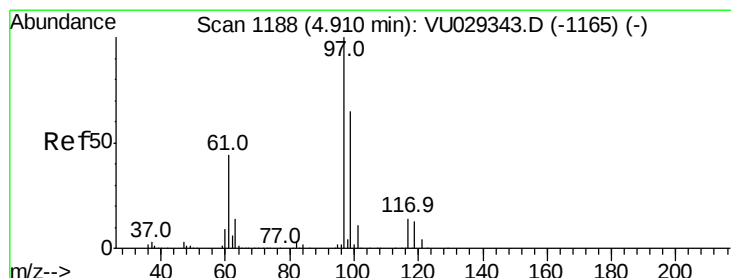
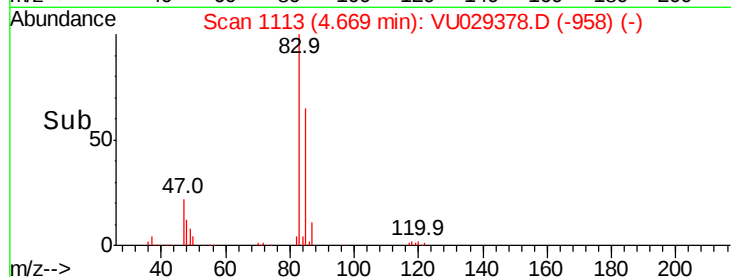
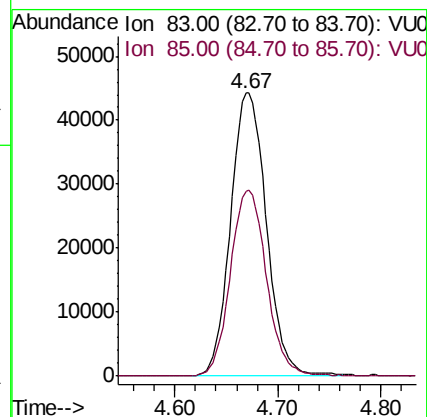
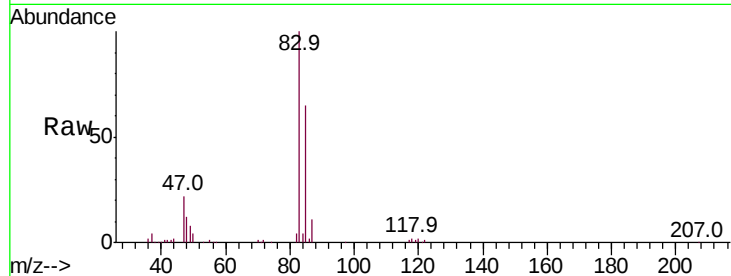
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 107033

Ion Ratio Lower Upper

83 100

85 65.4 0.0 126.6



#28

1,1,1-Trichloroethane

Concen: 0.001 ug/l

RT: 4.90 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

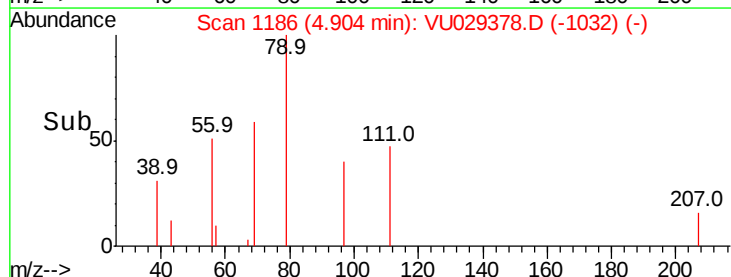
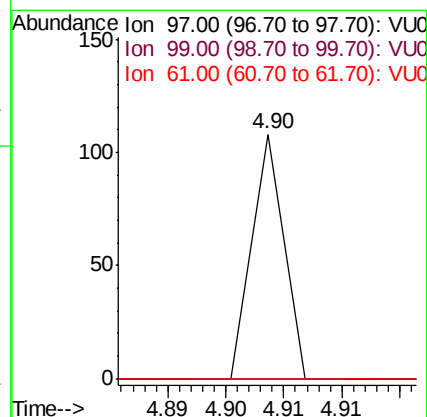
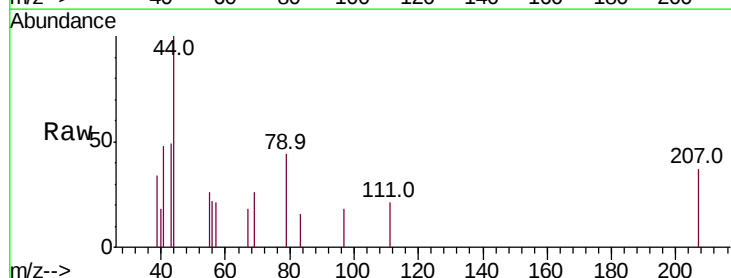
Tgt Ion: 97 Resp: 21

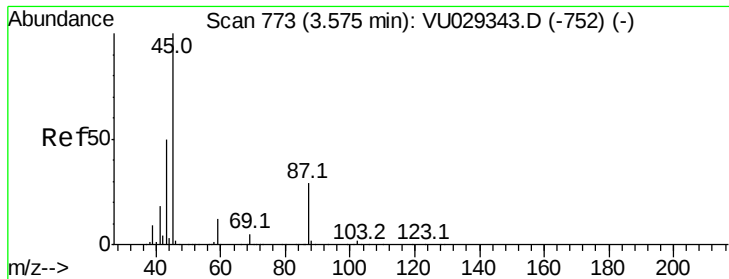
Ion Ratio Lower Upper

97 100

99 0.0 32.4 97.2#

61 0.0 24.4 73.2#





#31

Isopropyl Ether

Concen: 0.009 ug/l

RT: 3.35 min Scan# 703

Delta R.T. -0.22 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

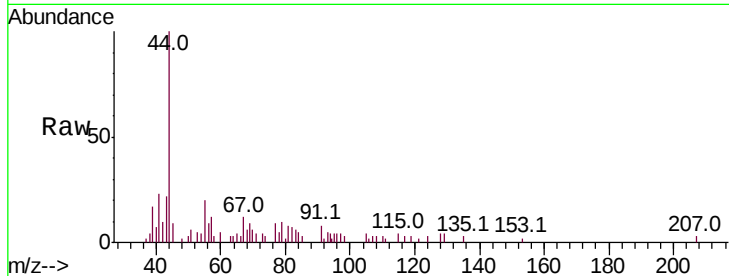
ClientSampled :

Tot Ion: 45 Resp: 373

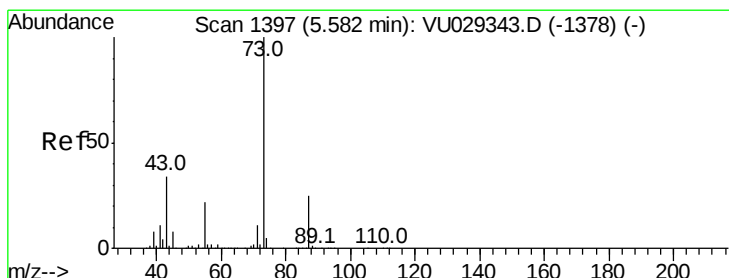
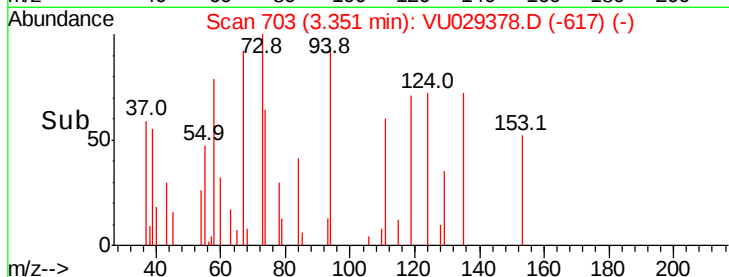
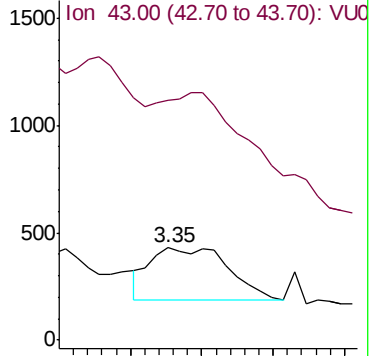
Ion Ratio Lower Upper

45 100

43 73.2 28.4 85.3



Abundance Ion 45.00 (44.70 to 45.70): VU029378.D (-617) (-)



#33

Tert-Amyl methyl ether

Concen: 0.005 ug/l

RT: 5.59 min Scan# 1399

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

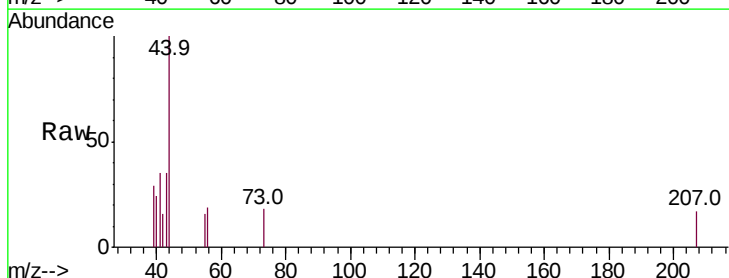
Tgt Ion: 73 Resp: 185

Ion Ratio Lower Upper

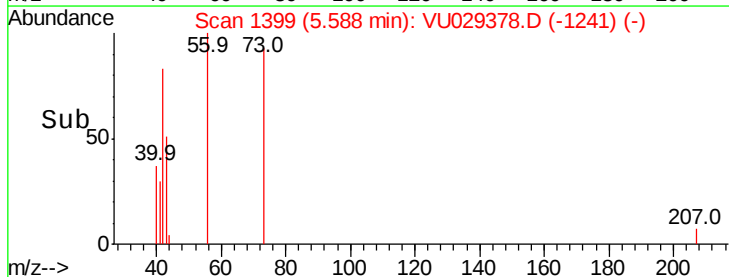
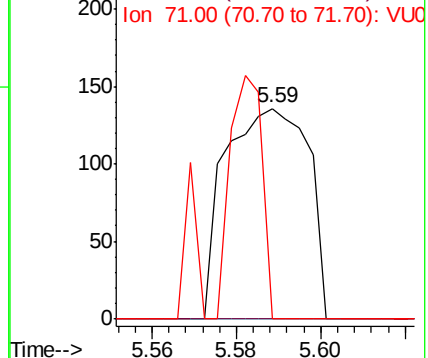
73 100

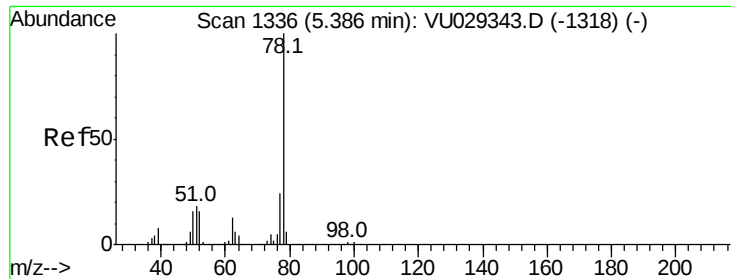
87 0.0 19.4 29.0#

71 44.3 9.0 13.4#



Abundance Ion 73.00 (72.70 to 73.70): VU029378.D (-1241) (-)





#35

Benzene

Concen: 0.001 ug/l

RT: 5.38 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

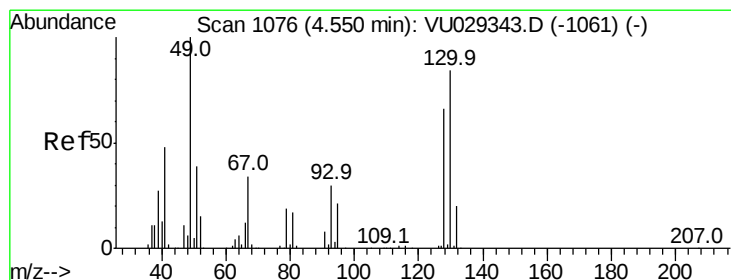
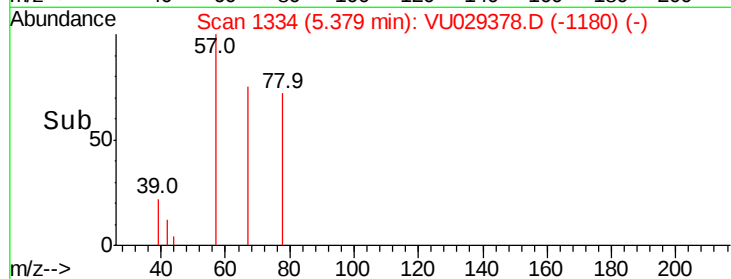
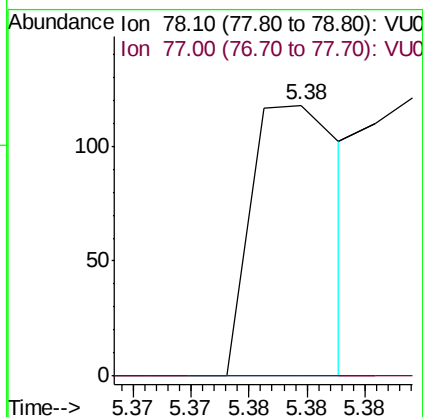
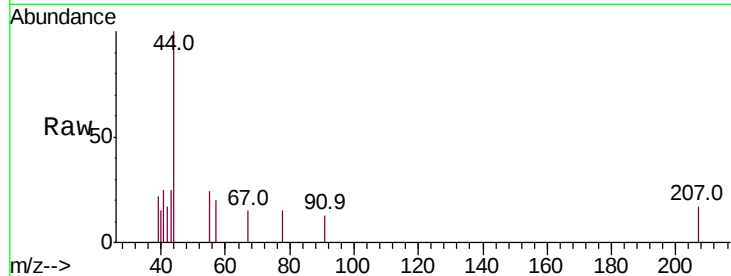
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 78 Resp: 65

Ion Ratio Lower Upper

78 100

77 0.0 19.8 29.8#



#39

Methacrylonitrile

Concen: 0.015 ug/l

RT: 4.56 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Tgt Ion: 41 Resp: 77

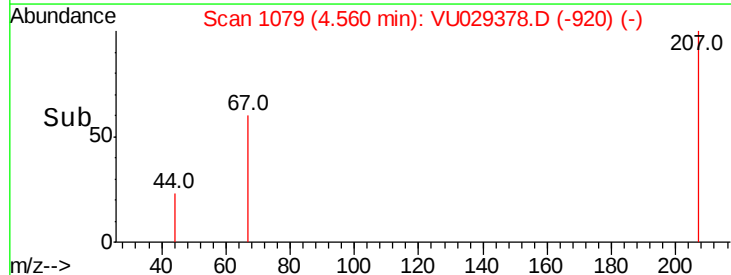
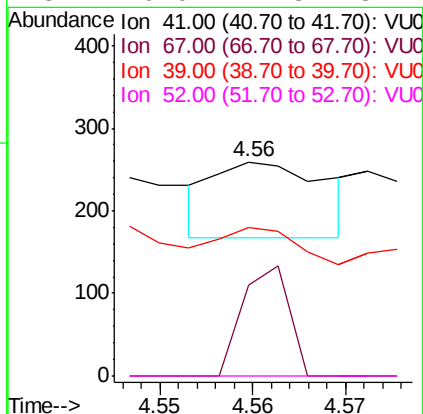
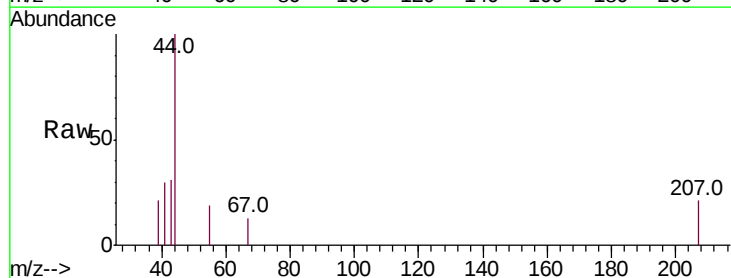
Ion Ratio Lower Upper

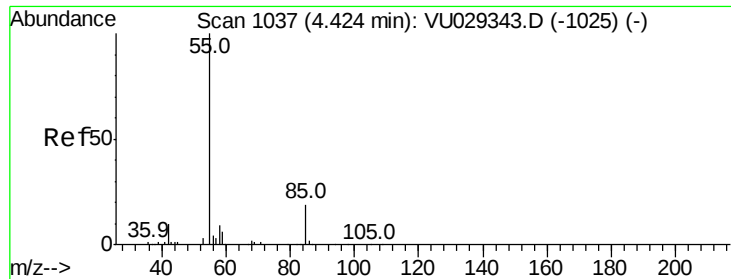
41 100

67 61.0 50.1 75.1

39 103.9 47.9 71.9#

52 0.0 24.8 37.2#

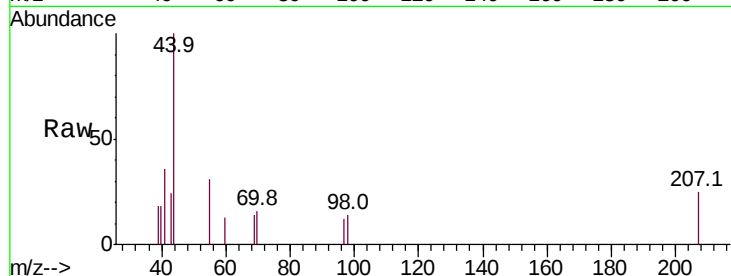




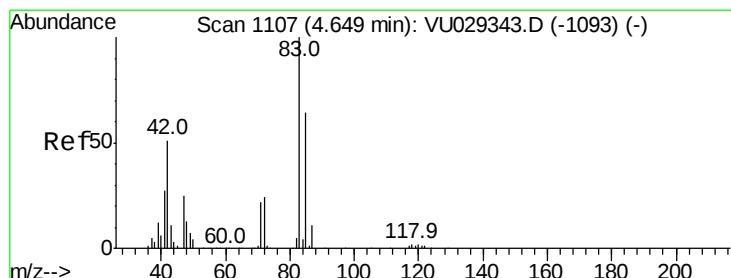
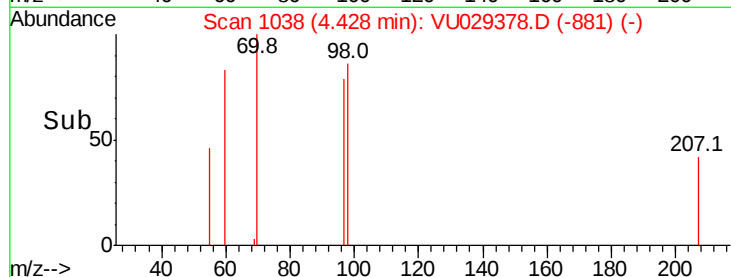
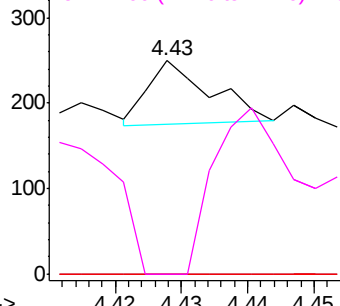
#40
Methvl acrvlate
Concen: 0.006 ug/l
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	55	Resp:	49
Ion	Ratio	Lower	Upper
55	100		
85	0.0	11.3	16.9#
58	0.0	6.2	9.4#
42	334.7	10.1	15.1#

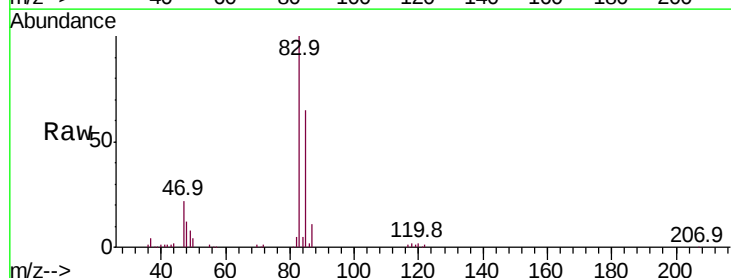


Abundance Ion 55.00 (54.70 to 55.70): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 42.00 (41.70 to 42.70): VU0

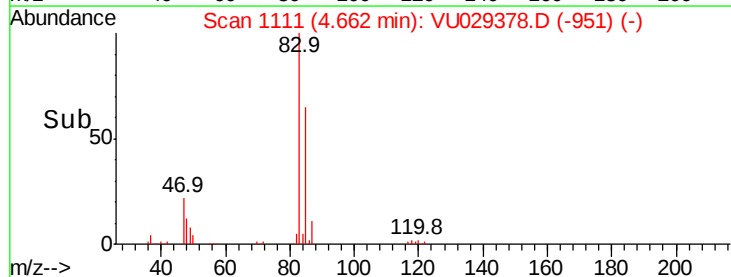
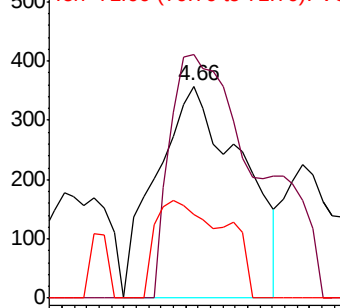


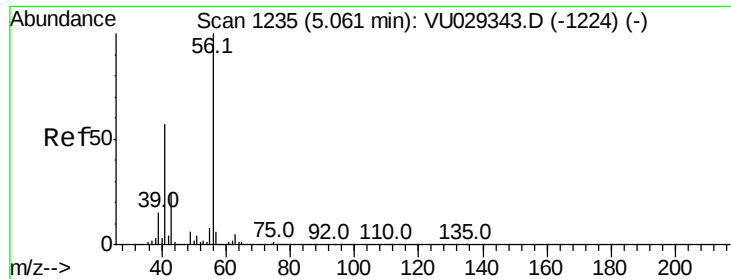
#41
Tetrahydrofuran
Concen: 0.261 ug/l
RT: 4.66 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion:	42	Resp:	687
Ion	Ratio	Lower	Upper
42	100		
72	95.1	33.1	49.7#
71	37.8	30.2	45.2



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

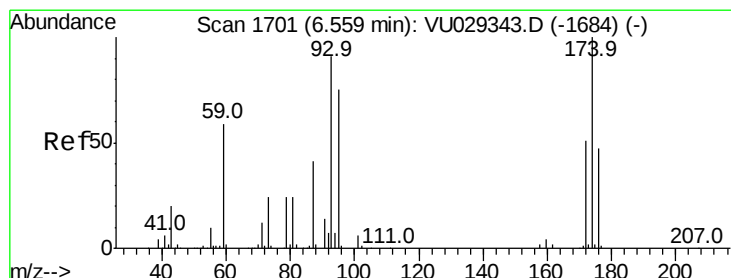
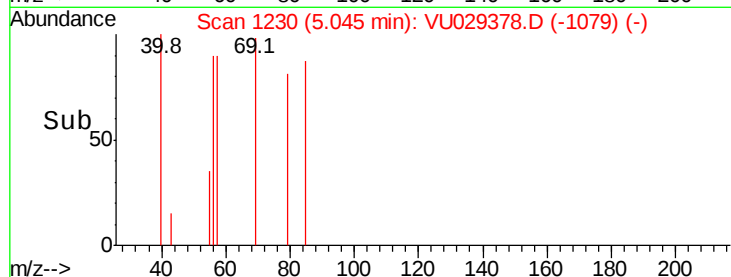
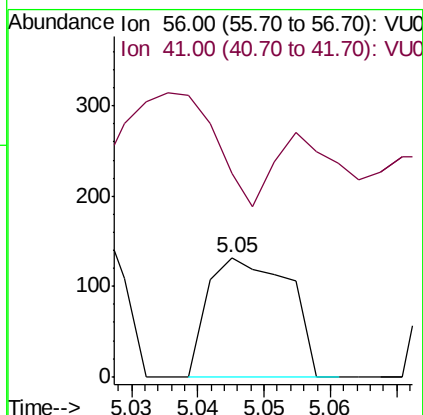
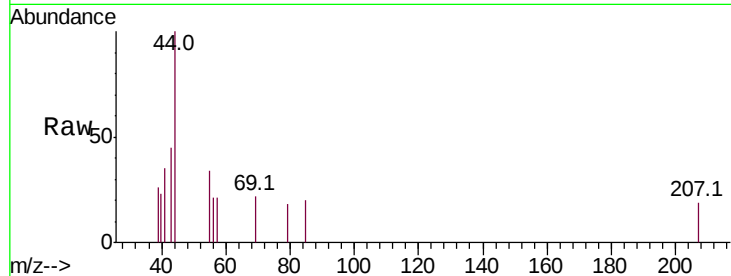




#42
1-Chlorobutane
Concen: 0.004 ug/l
RT: 5.05 min Scan# 1230
Delta R.T. -0.02 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

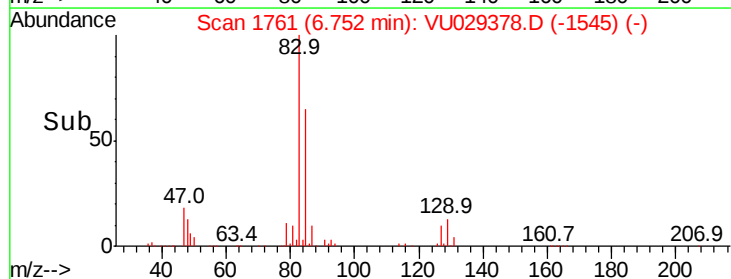
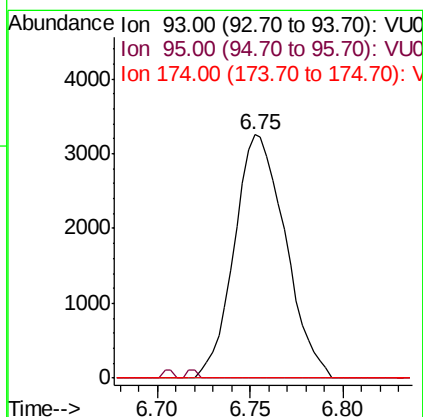
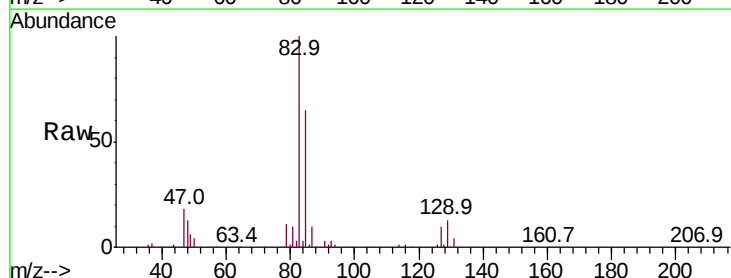
Instrument :
MSVOA_U
ClientSampleId :

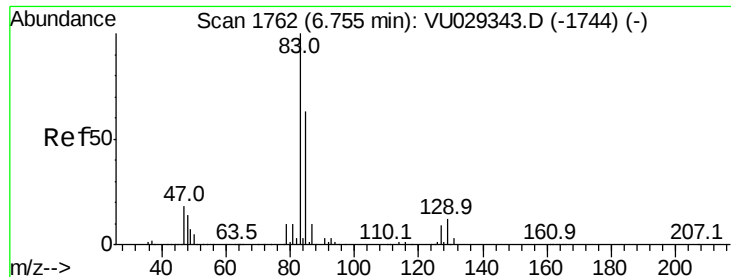
Tot Ion: 56 Resp: 111
Ion Ratio Lower Upper
56 100
41 46.8 31.3 93.8



#43
Dibromomethane
Concen: 0.726 ug/l
RT: 6.75 min Scan# 1761
Delta R.T. 0.19 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 93 Resp: 6209
Ion Ratio Lower Upper
93 100
95 0.7 68.2 102.2#
174 0.0 77.6 116.4#





#44

Bromodichloromethane

Concen: 9.257 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

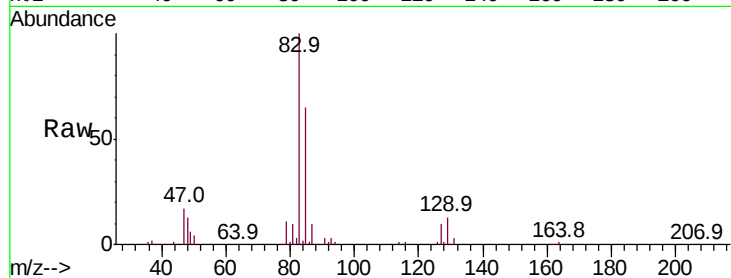
Tot Ion: 83 Resp: 201805

Ion Ratio Lower Upper

83 100

85 65.1 49.2 73.8

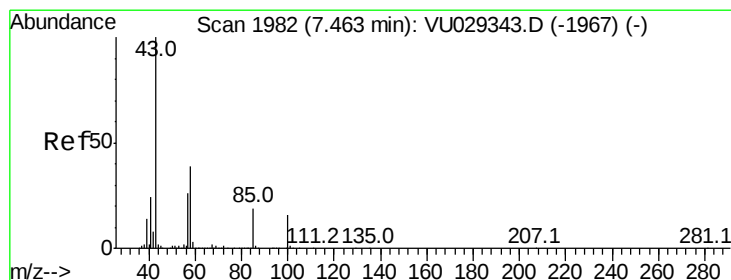
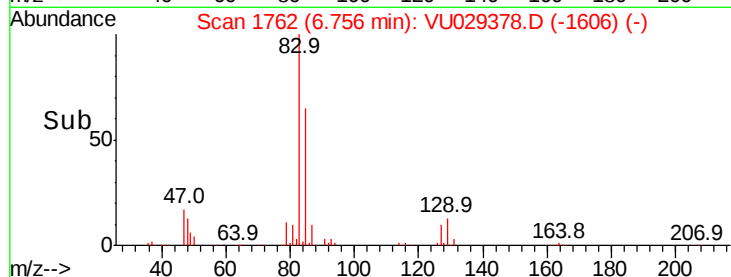
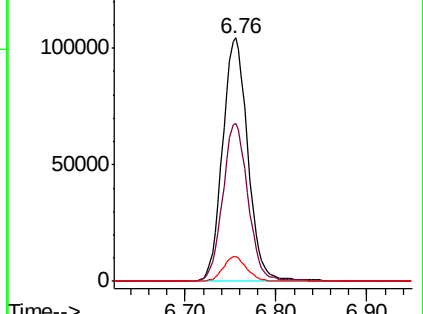
127 10.2 7.0 10.6



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



#45

4-Methyl-2-Pentanone

Concen: 0.035 ug/l

RT: 7.47 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

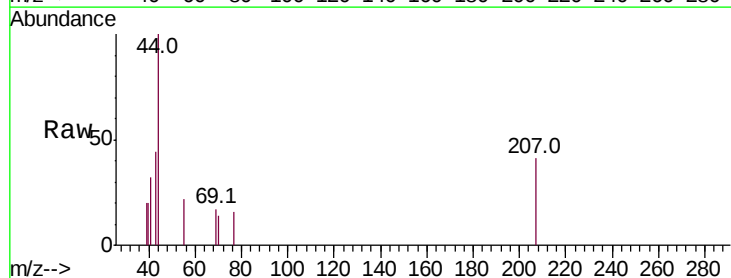
Tgt Ion: 43 Resp: 349

Ion Ratio Lower Upper

43 100

58 0.0 17.6 52.8#

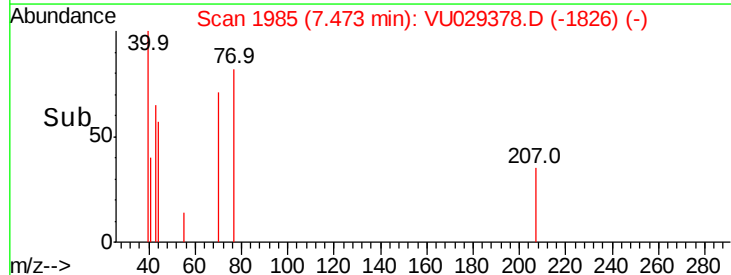
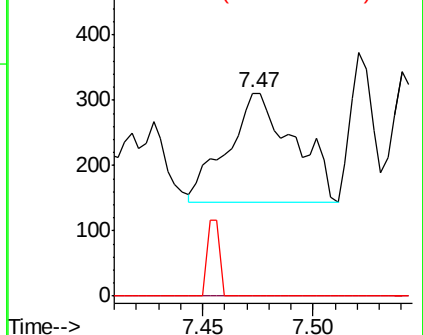
85 12.9 12.3 18.5

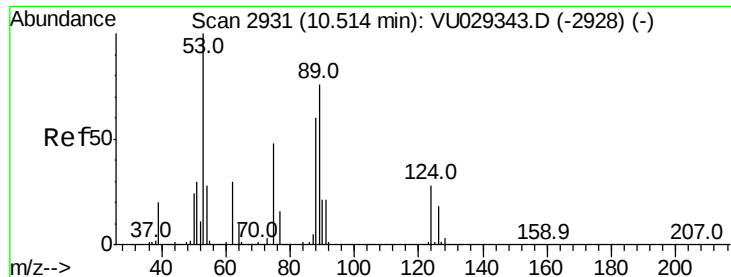


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

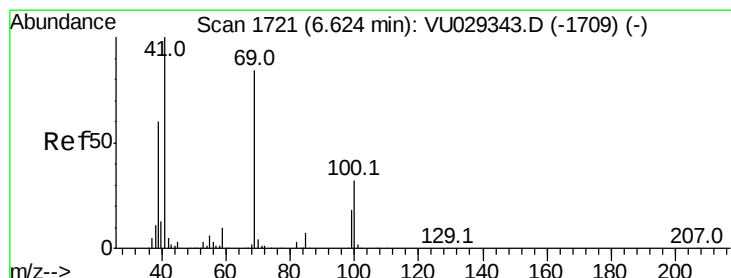
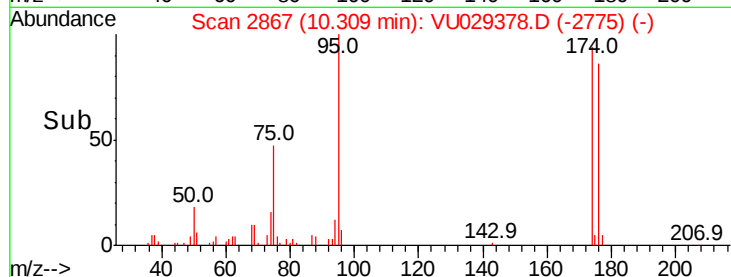
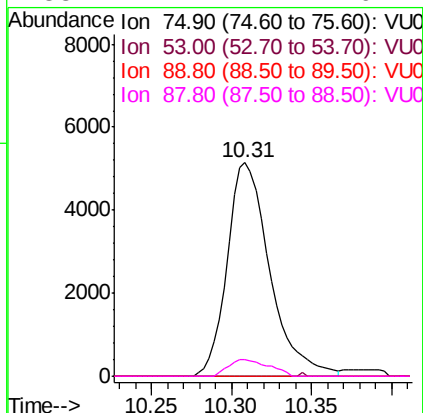
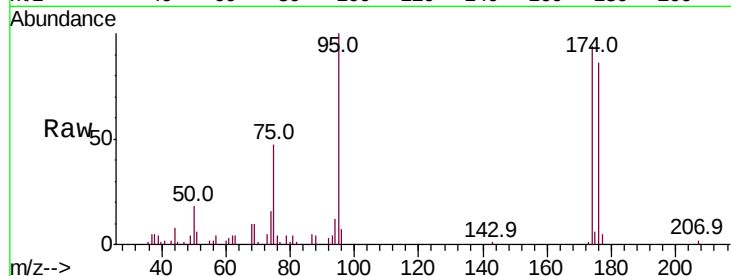




#46
t-1,4-Dichloro-2-butene
Concen: 1.921 ug/l
RT: 10.31 min Scan# 2867
Delta R.T. -0.21 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

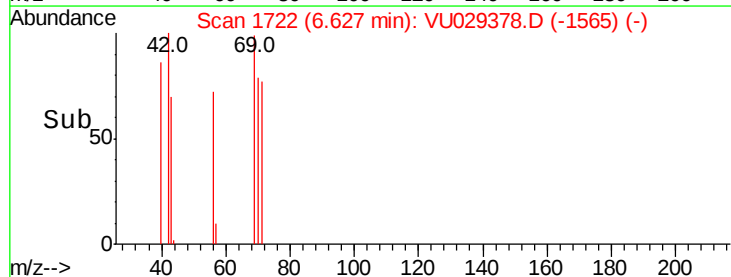
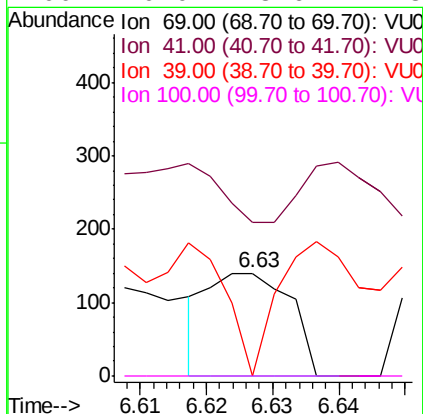
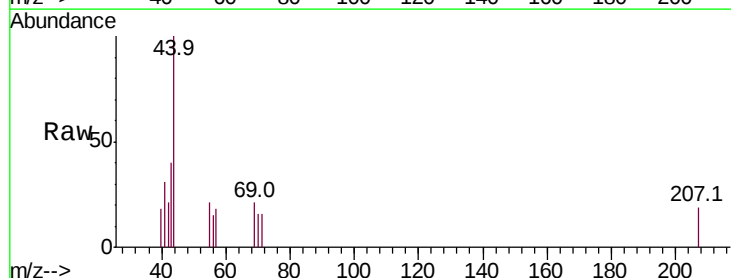
Instrument :
MSVOA_U
ClientSampleId :

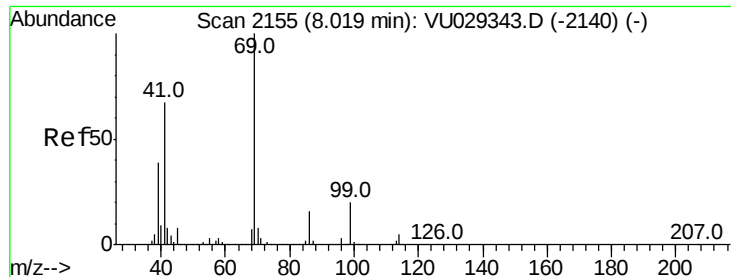
Tot Ion: 75 Resp: 9386
Ion Ratio Lower Upper
75 100
53 0.2 78.2 117.4#
89 0.0 44.2 66.4#
88 7.4 41.4 62.2#



#47
Methyl methacrylate
Concen: 0.016 ug/l
RT: 6.63 min Scan# 1722
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 69 Resp: 120
Ion Ratio Lower Upper
69 100
41 116.7 0.0 296.2
39 137.5 71.2 106.8#
100 0.0 28.6 42.8#





#48

Ethyl methacrylate

Concen: 0.004 ug/l

RT: 7.97 min Scan# 2140

Delta R.T. -0.05 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

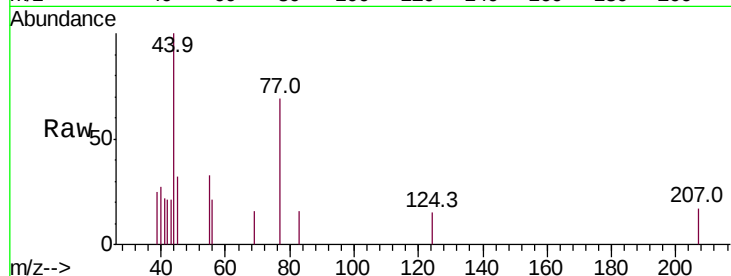
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 69 Resp: 64

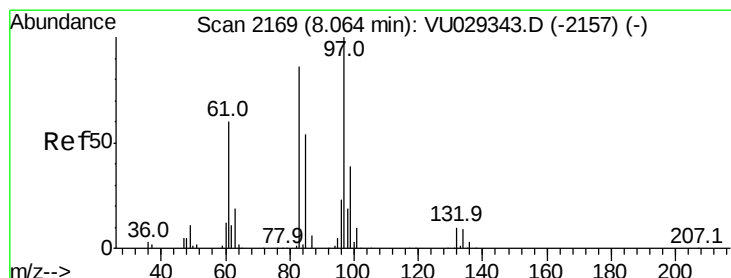
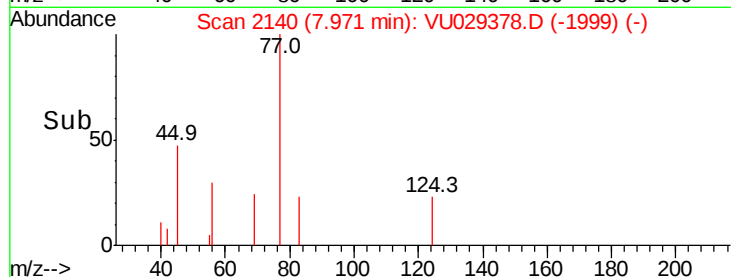
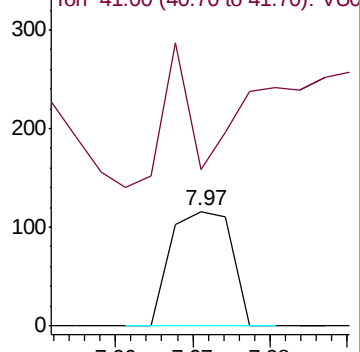
Ion Ratio Lower Upper

69 100

41 53.1 39.9 119.7



Abundance Ion 69.00 (68.70 to 69.70): VU029378.D (-1999) (-)



#52

1,1,2-Trichloroethane

Concen: 0.004 ug/l

RT: 8.08 min Scan# 2175

Delta R.T. 0.02 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Tgt Ion: 97 Resp: 49

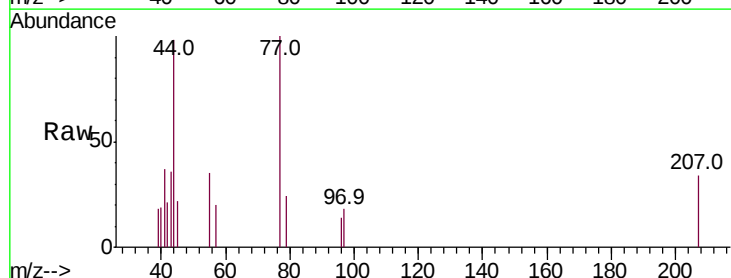
Ion Ratio Lower Upper

97 100

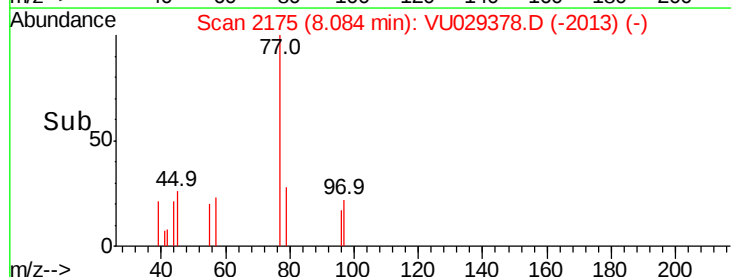
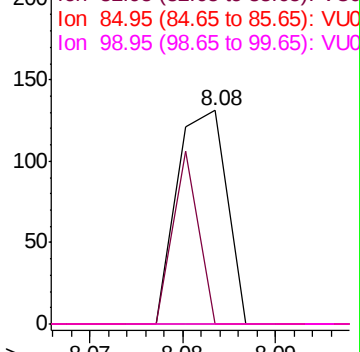
83 0.0 69.9 104.9#

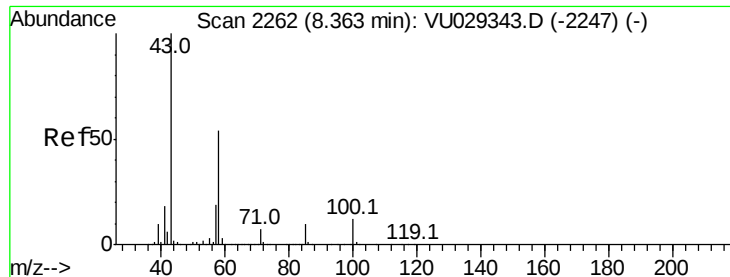
85 0.0 45.8 68.6#

99 0.0 50.2 75.2#



Abundance Ion 97.00 (96.70 to 97.70): VU029378.D (-2133) (-)





#54

2-Hexanone

Concen: 0.046 ug/l

RT: 8.35 min Scan# 2258

Delta R.T. -0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :
MSVOA_U
ClientSampleId :

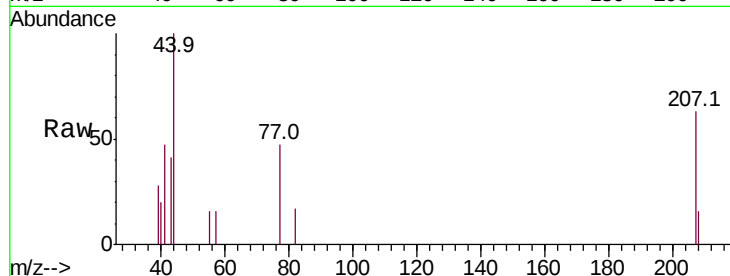
Tot Ion: 43 Resp: 325

Ion Ratio Lower Upper

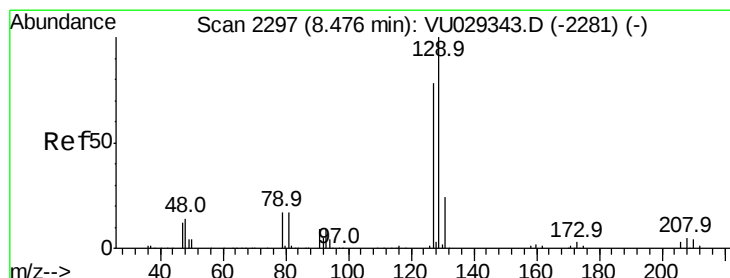
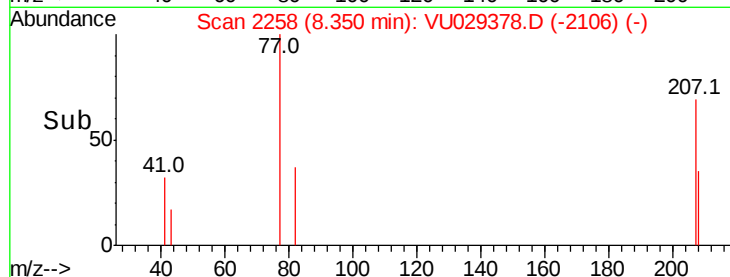
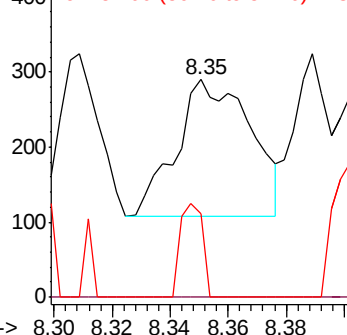
43 100

58 0.0 26.0 66.0#

57 20.3 0.0 37.7



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0



#55

Dibromochloromethane

Concen: 1.248 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU029378.D

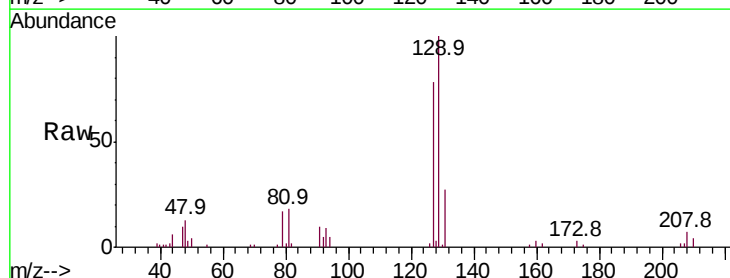
Acq: 08 Feb 2019 14:34

Tgt Ion: 129 Resp: 20096

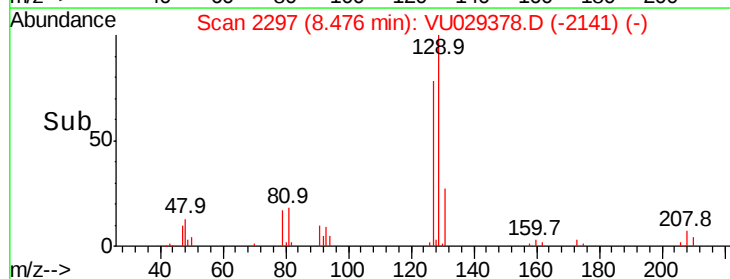
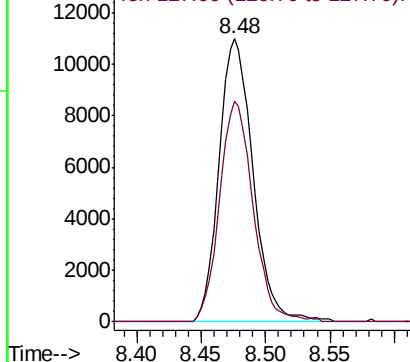
Ion Ratio Lower Upper

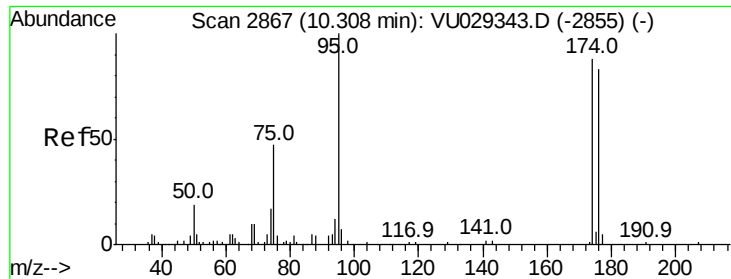
129 100

127 77.1 60.5 90.7



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

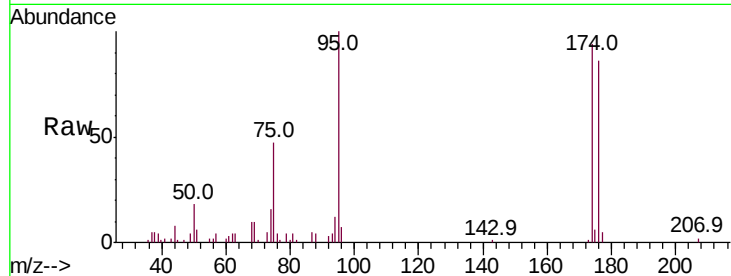
Tot Ion: 95 Resp: 19925

Ion Ratio Lower Upper

95 100

174 91.0 64.2 96.2

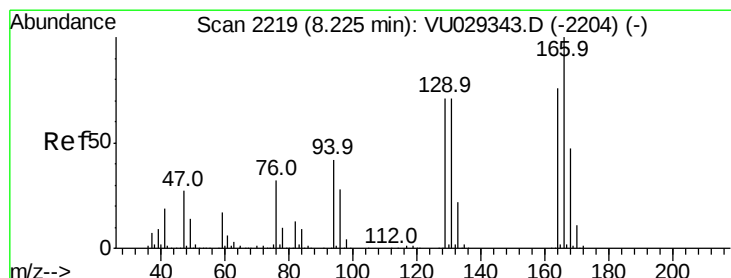
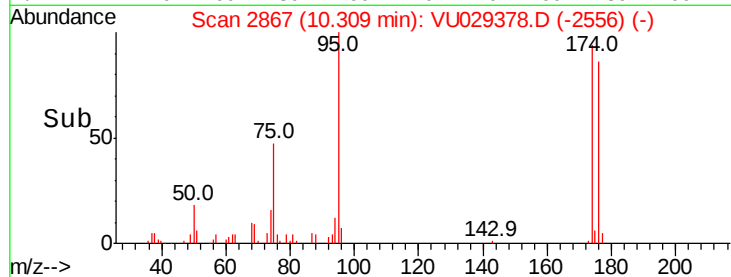
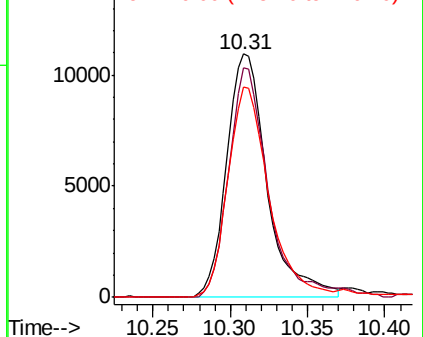
176 87.1 62.3 93.5



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



#58

Tetrachloroethene

Concen: 0.001 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Tgt Ion: 164 Resp: 21

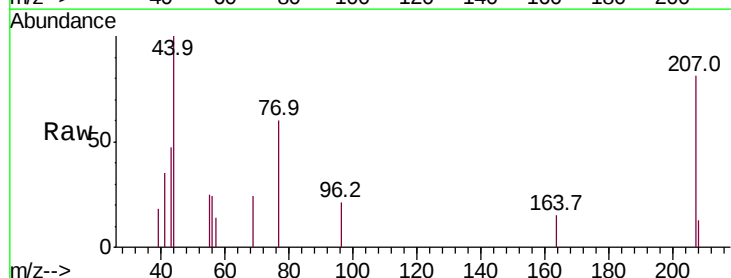
Ion Ratio Lower Upper

164 100

166 0.0 106.6 159.8#

129 0.0 79.9 119.9#

131 0.0 75.8 113.8#

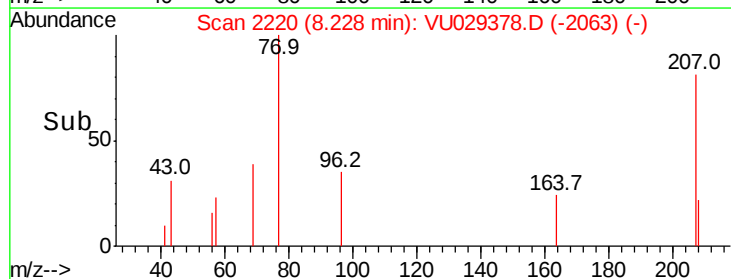
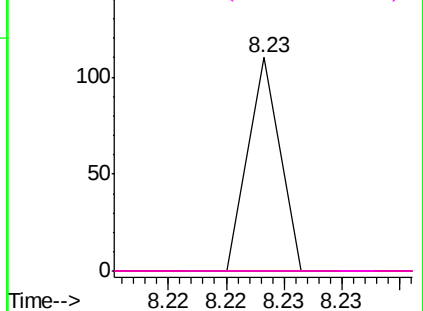


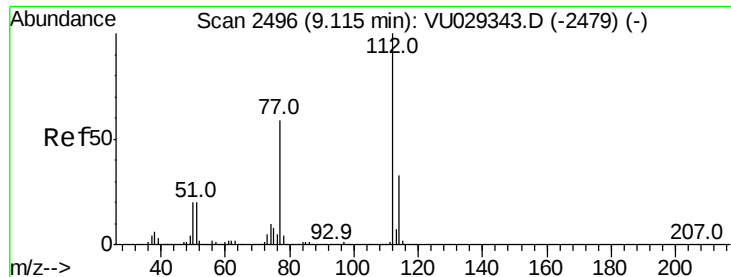
Abundance Ion 163.85 (163.55 to 164.55): V

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: 0.002 ug/l

RT: 9.12 min Scan# 2498

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

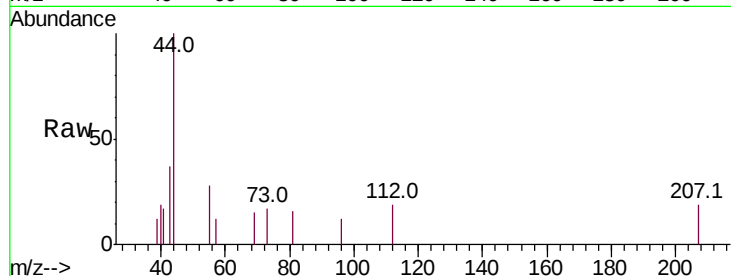
ClientSampled :

Tot Ion:112 Resp: 102

Ion Ratio Lower Upper

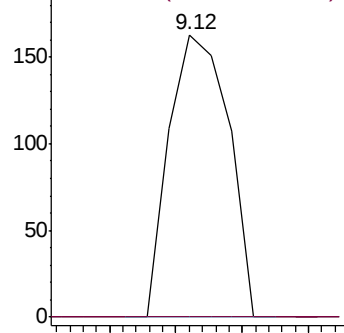
112 100

114 0.0 26.2 39.4#

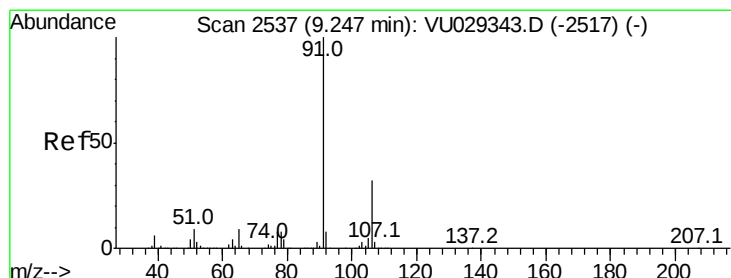
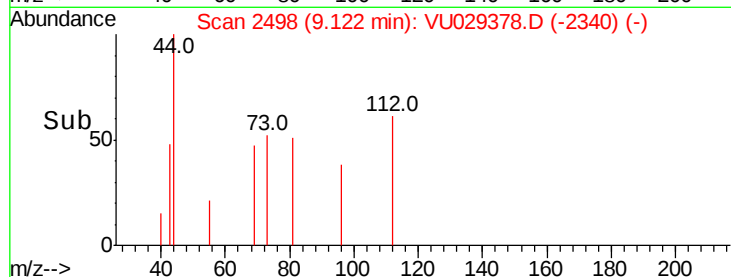


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#63

Ethyl Benzene

Concen: 0.001 ug/l

RT: 9.26 min Scan# 2541

Delta R.T. 0.01 min

Lab File: VU029378.D

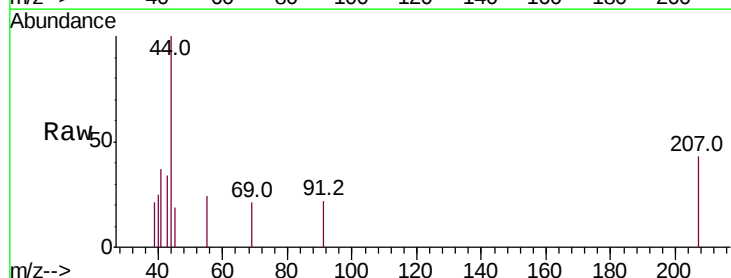
Acq: 08 Feb 2019 14:34

Tgt Ion: 91 Resp: 50

Ion Ratio Lower Upper

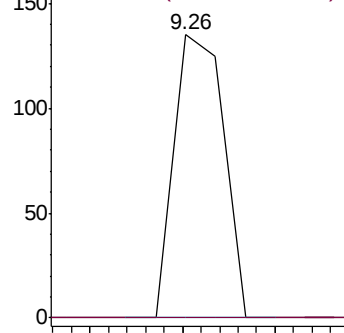
91 100

106 0.0 23.8 35.6#

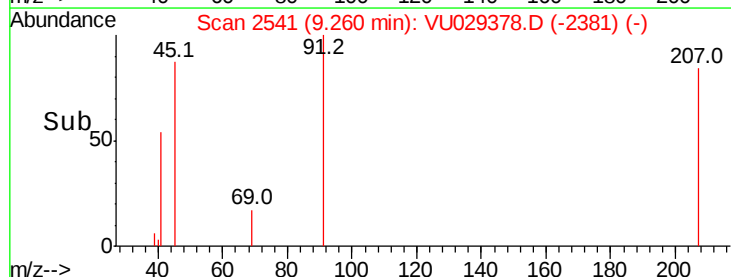


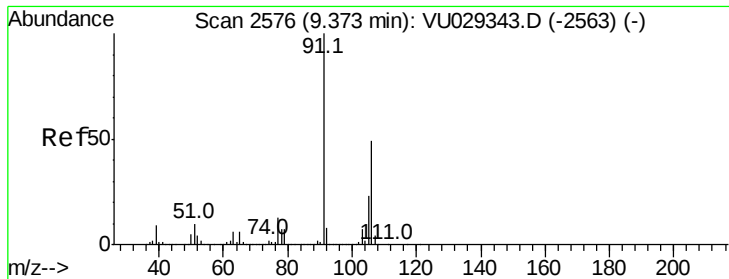
Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



Time-->





#64

m/p-Xvlenes

Concen: 0.001 ug/l

RT: 9.38 min Scan# 2579

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

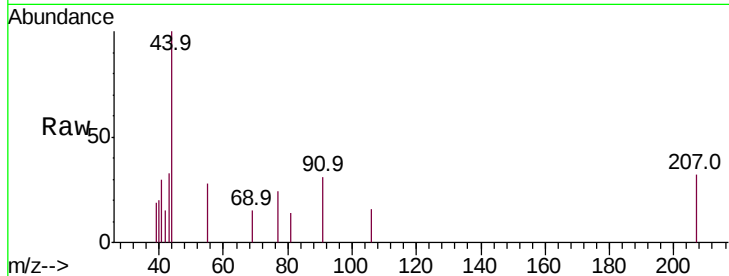
ClientSampled :

Tot Ion:106 Resp: 44

Ion Ratio Lower Upper

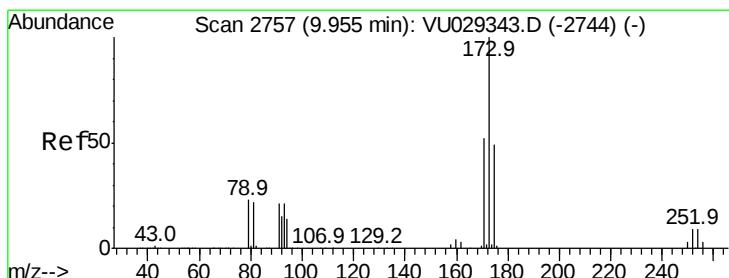
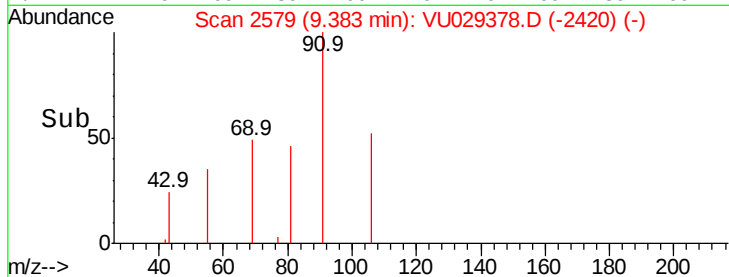
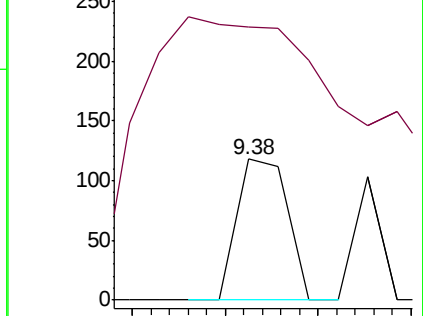
106 100

91 909.1 174.6 261.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#67

Bromoform

Concen: 5.419 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

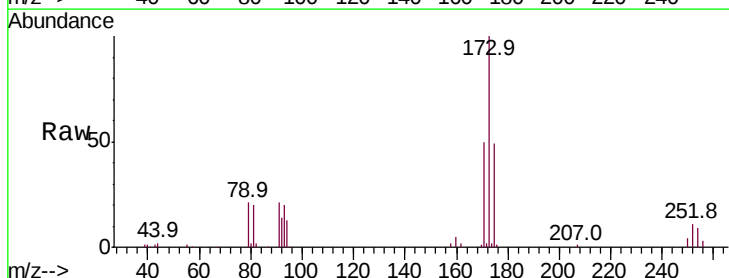
Tgt Ion:173 Resp: 54273

Ion Ratio Lower Upper

173 100

175 48.7 38.9 58.3

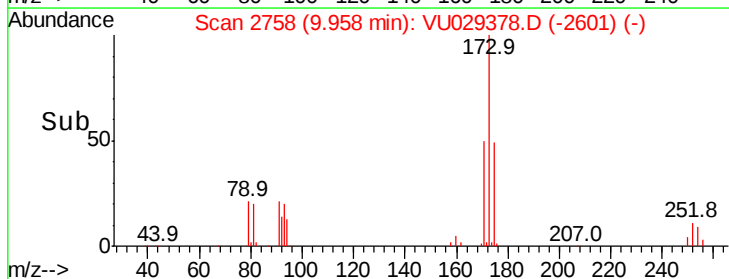
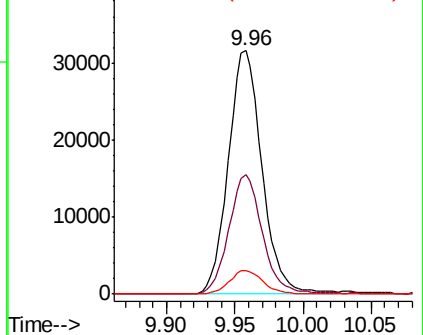
254 9.6 7.4 11.2

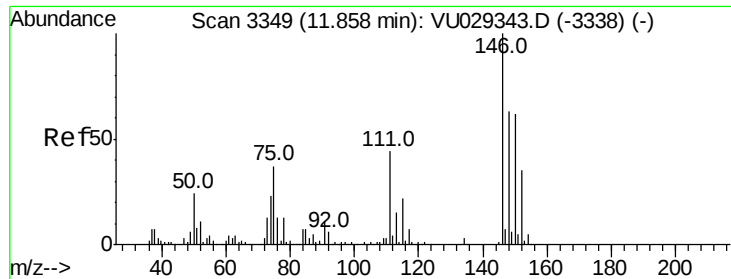


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

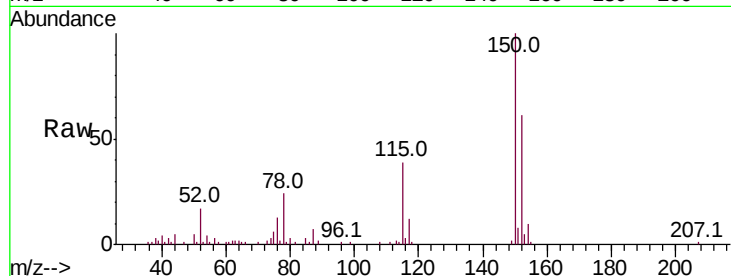




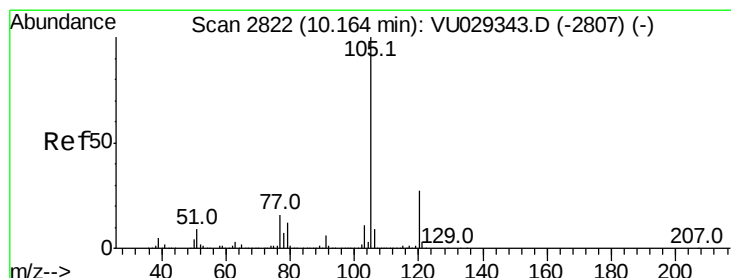
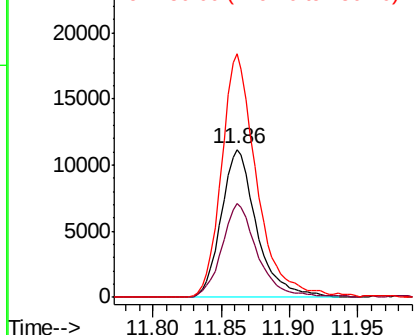
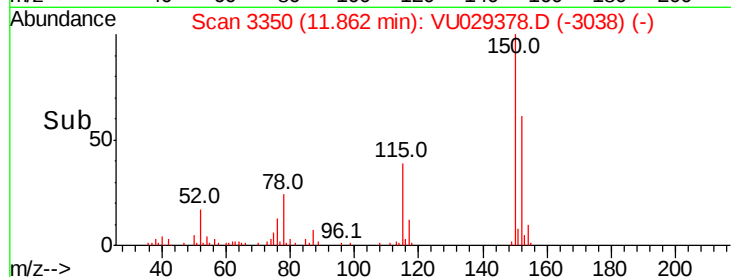
#68
 1,2-Dichlorobenzene-d4
 Concen: 5.419 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:152 Resp: 20144
 Ion Ratio Lower Upper
 152 100
 115 63.1 0.0 133.4
 150 163.1 0.0 670.8

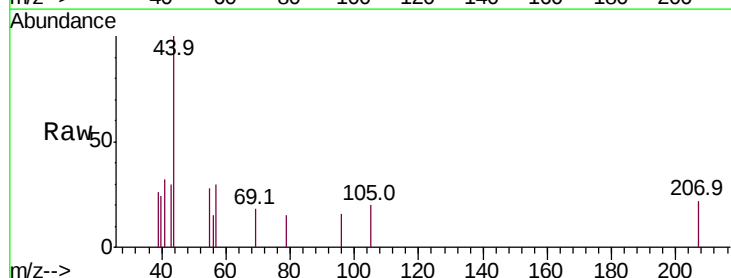


Abundance Ion 152.00 (151.70 to 152.70): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 150.00 (149.70 to 150.70): V

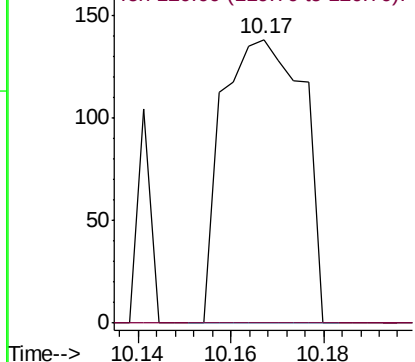
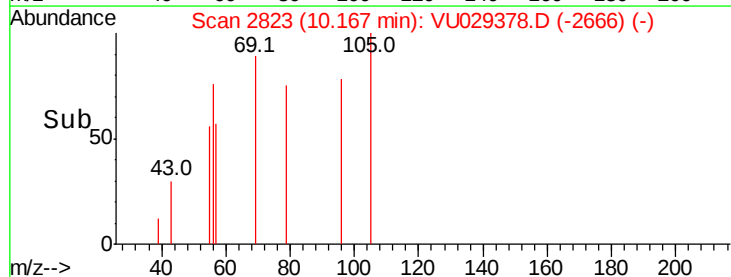


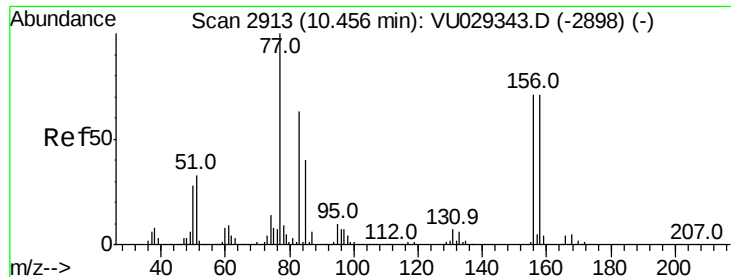
#69
 Isopropylbenzene
 Concen: 0.002 ug/l
 RT: 10.17 min Scan# 2823
 Delta R.T. 0.00 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

Tgt Ion:105 Resp: 167
 Ion Ratio Lower Upper
 105 100
 120 0.0 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: 0.001 ug/l

RT: 10.42 min Scan# 2901

Delta R.T. -0.04 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

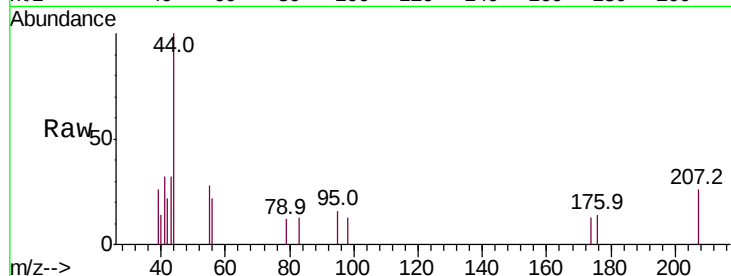
Tot Ion: 83 Resp: 21

Ion Ratio Lower Upper

83 100

131 0.0 8.1 12.1#

85 0.0 50.3 75.5#



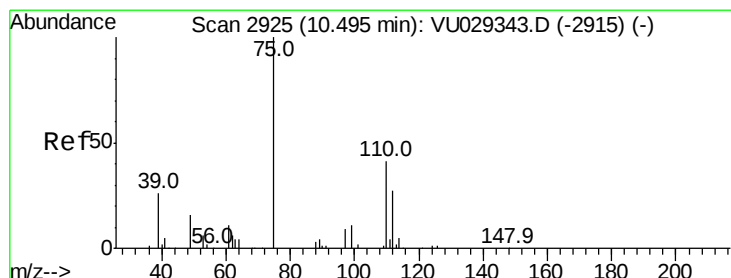
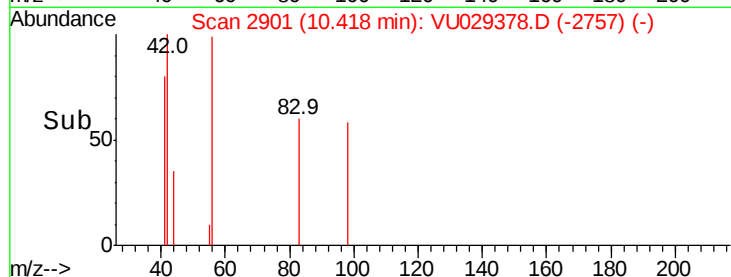
Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0

10.42

Time--> 10.41 10.41 10.42 10.43



#71

1,2,3-Trichloropropane

Concen: 0.942 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. -0.19 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Tgt Ion: 75 Resp: 9386

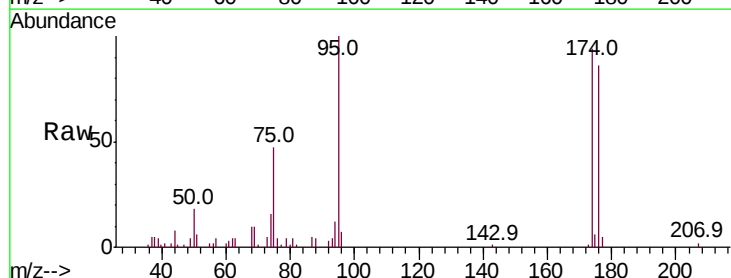
Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#

110 0.0 0.0 63.6

97 0.0 0.0 31.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

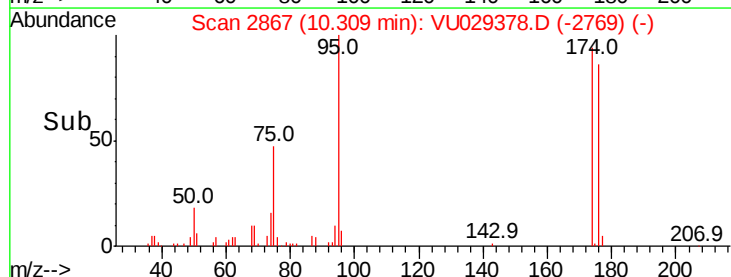
Ion 77.00 (76.70 to 77.70): VU0

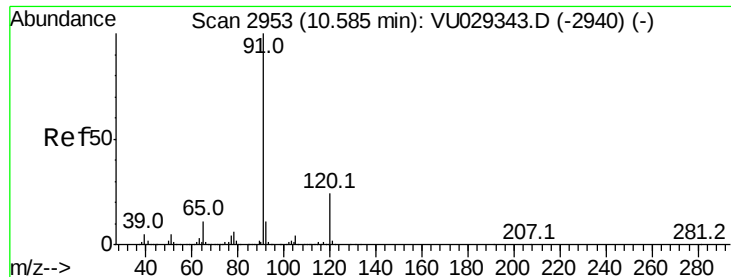
Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0

10.31

Time--> 10.25 10.30 10.35





#73

n-propylbenzene

Concen: 0.032 ug/l

RT: 10.59 min Scan# 2956

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

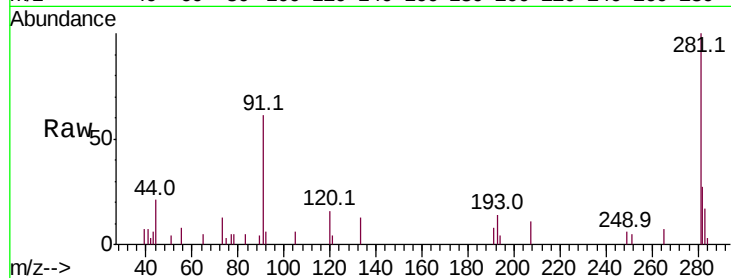
ClientSampled :

Tot Ion:120 Resp: 701

Ion Ratio Lower Upper

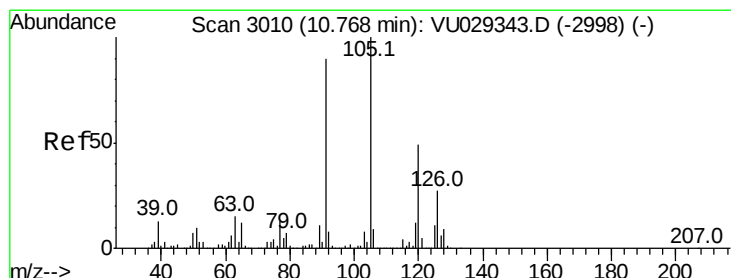
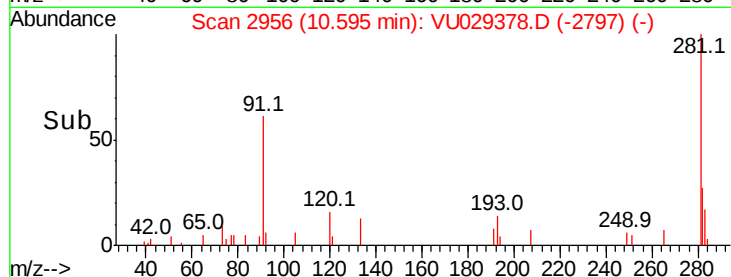
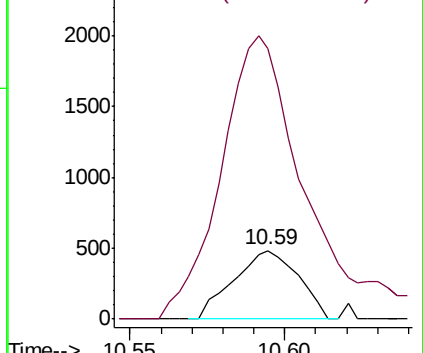
120 100

91 536.7 370.0 555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.001 ug/l

RT: 10.71 min Scan# 2991

Delta R.T. -0.06 min

Lab File: VU029378.D

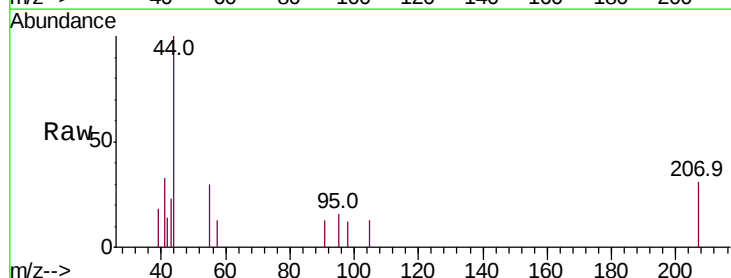
Acq: 08 Feb 2019 14:34

Tgt Ion:105 Resp: 40

Ion Ratio Lower Upper

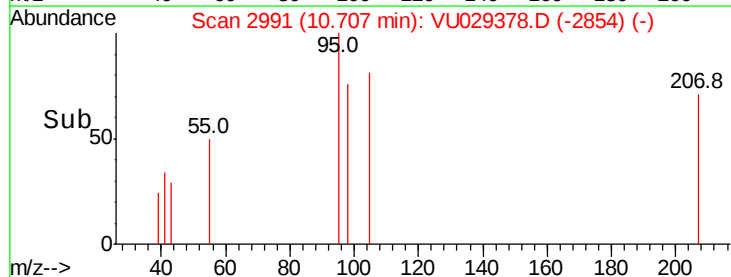
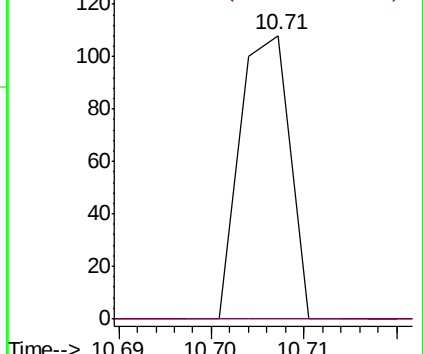
105 100

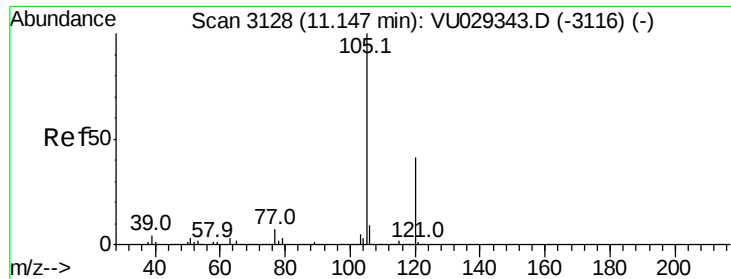
120 55.0 37.3 55.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

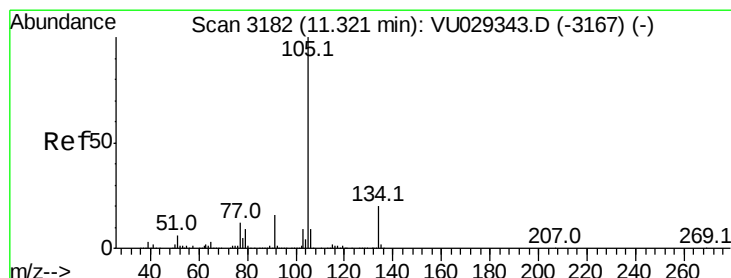
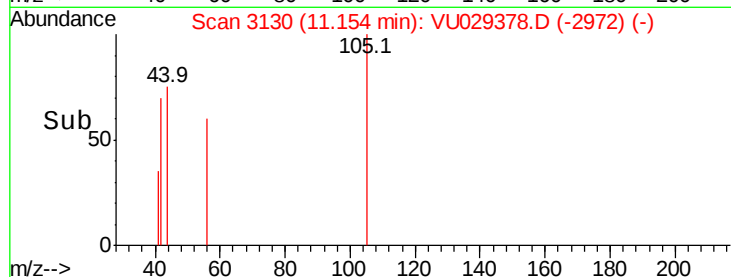
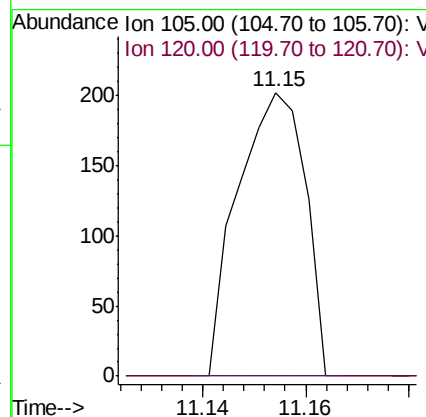
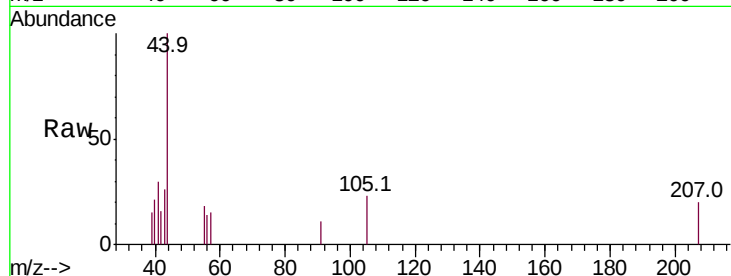




#78
 1,2,4-Trimethylbenzene
 Concen: 0.003 ug/l
 RT: 11.15 min Scan# 3130
 Delta R.T. 0.01 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

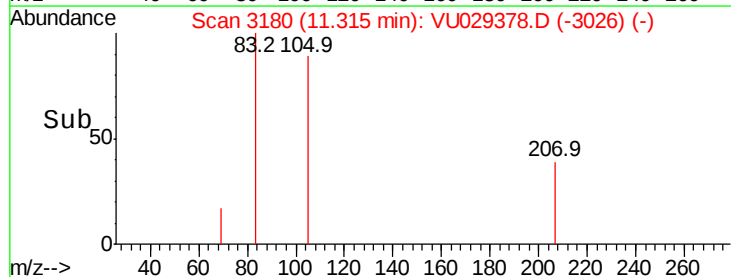
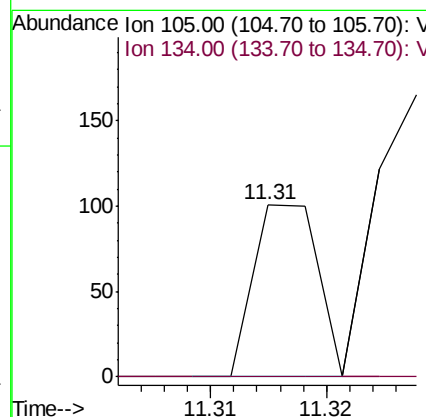
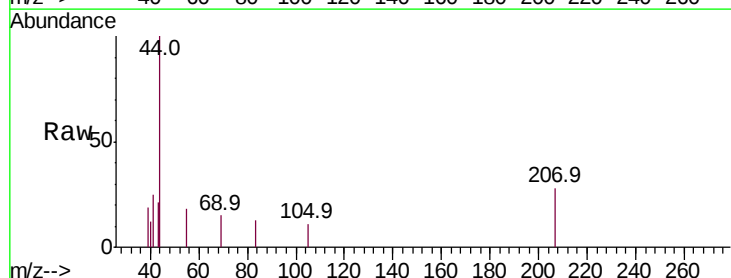
Instrument :
 MSVOA_U
 ClientSampled :

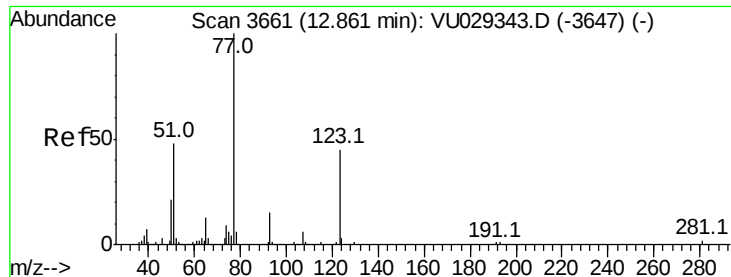
Tot Ion:105 Resp: 182
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.4 64.3#



#79
 sec-Butylbenzene
 Concen: 0.000 ug/l
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.01 min
 Lab File: VU029378.D
 Acq: 08 Feb 2019 14:34

Tgt Ion:105 Resp: 39
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.0 22.6#





#80

Nitrobenzene

Concen: 0.142 ug/l

RT: 12.90 min Scan# 3673

Delta R.T. 0.04 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

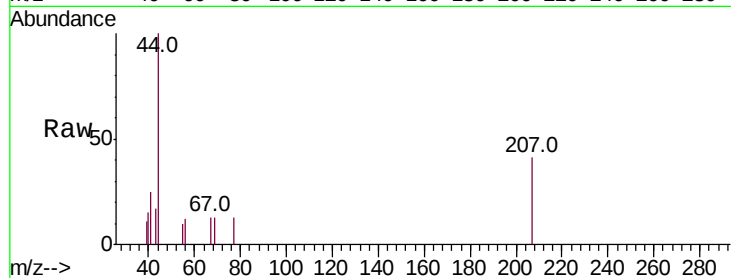
Tot Ion: 77 Resp: 92

Ion Ratio Lower Upper

77 100

123 0.0 17.5 61.9#

65 0.0 10.8 13.8#



Abundance Ion 77.00 (76.70 to 77.70): VU029378.D (-3647) (-)

Ion 123.00 (122.70 to 123.70): VU029378.D (-3647) (-)

Ion 65.00 (64.70 to 65.70): VU029378.D (-3647) (-)

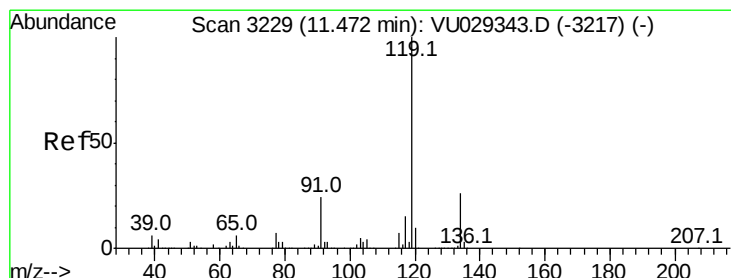
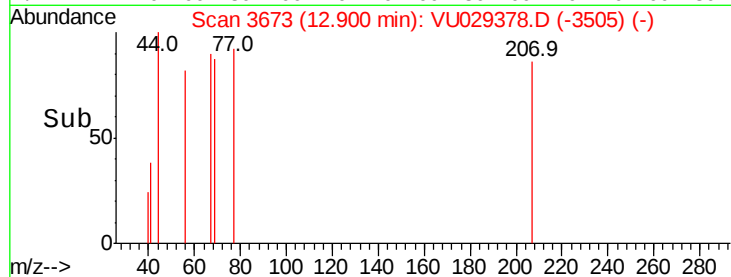
12.90

100

50

0

Time--> 12.88 12.90 12.92



#81

p-Isopropyltoluene

Concen: 0.001 ug/l

RT: 11.49 min Scan# 3235

Delta R.T. 0.02 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

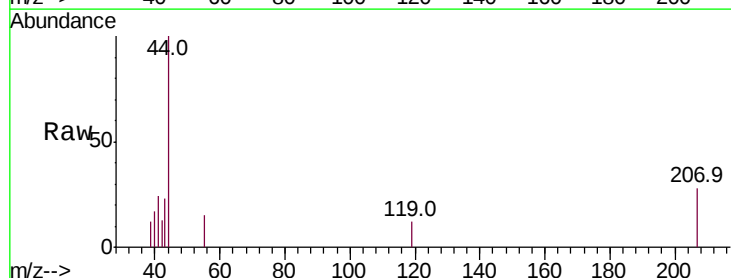
Tgt Ion: 119 Resp: 83

Ion Ratio Lower Upper

119 100

134 0.0 19.8 29.6#

91 25.3 21.5 32.3



Abundance Ion 119.00 (118.70 to 119.70): VU029378.D (-3073) (-)

Ion 134.00 (133.70 to 134.70): VU029378.D (-3073) (-)

Ion 91.00 (90.70 to 91.70): VU029378.D (-3073) (-)

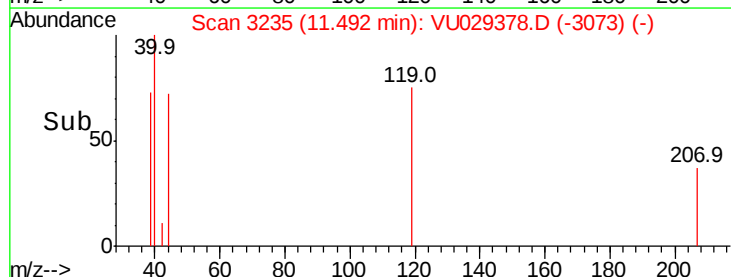
11.49

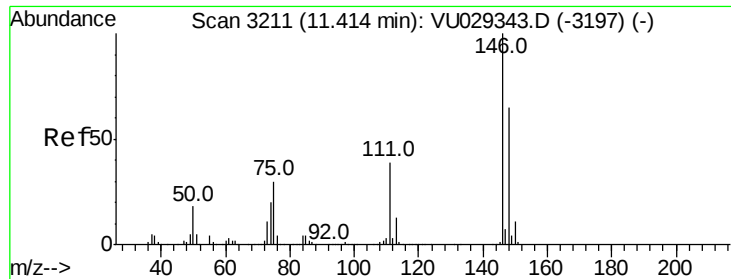
100

50

0

Time--> 11.48 11.50





#82

1,3-Dichlorobenzene

Concen: 0.003 ug/l

RT: 11.42 min Scan# 3214

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

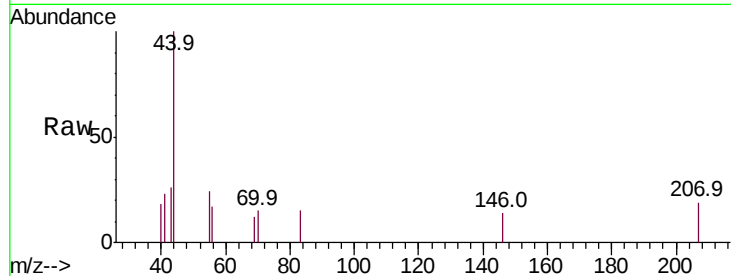
Tot Ion:146 Resp: 116

Ion Ratio Lower Upper

146 100

111 0.0 34.1 51.1#

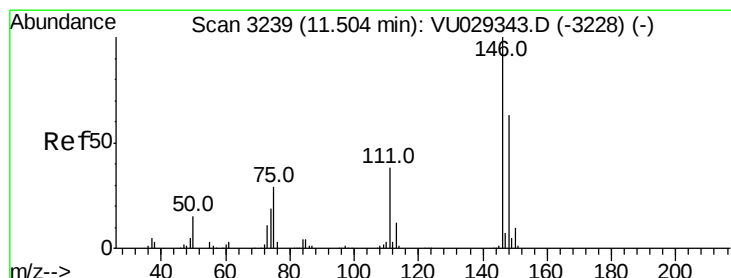
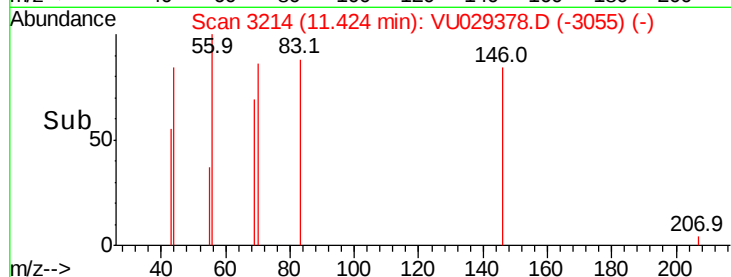
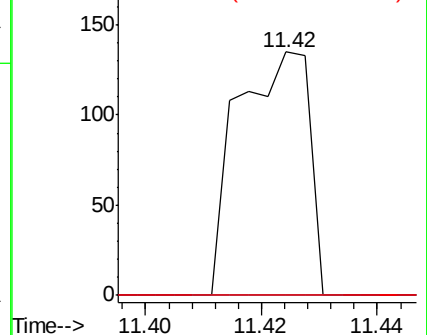
148 0.0 52.3 78.5#



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: 0.005 ug/l

RT: 11.51 min Scan# 3242

Delta R.T. 0.01 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

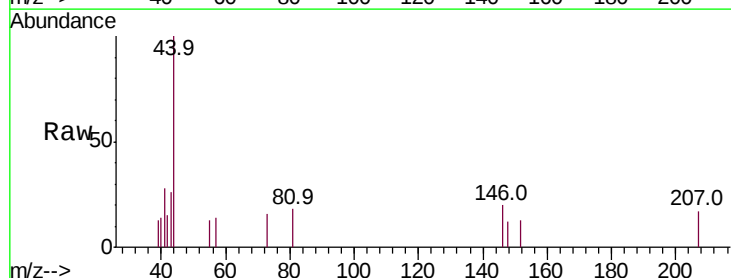
Tgt Ion:146 Resp: 194

Ion Ratio Lower Upper

146 100

111 0.0 32.9 49.3#

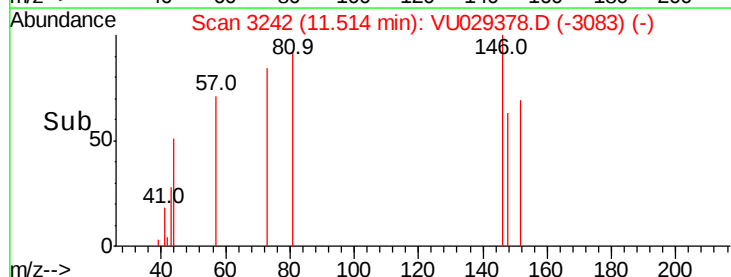
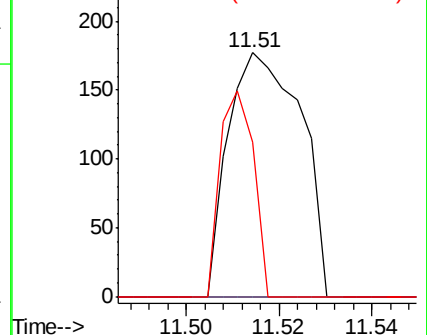
148 38.7 51.8 77.6#

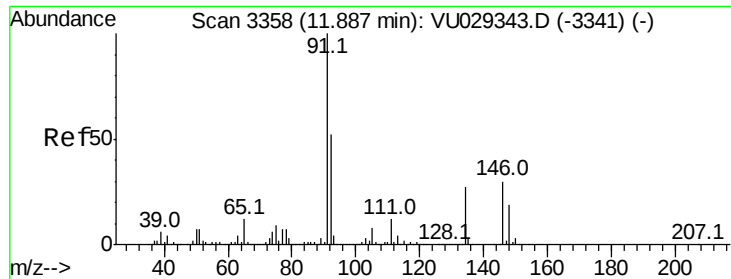


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

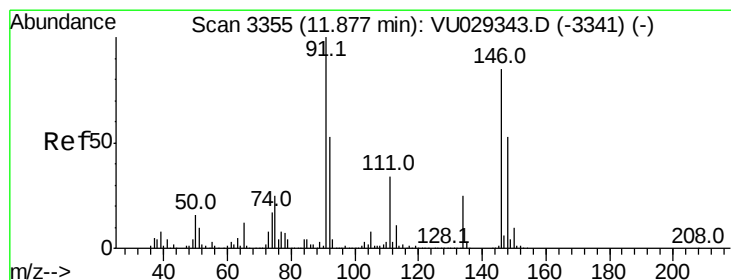
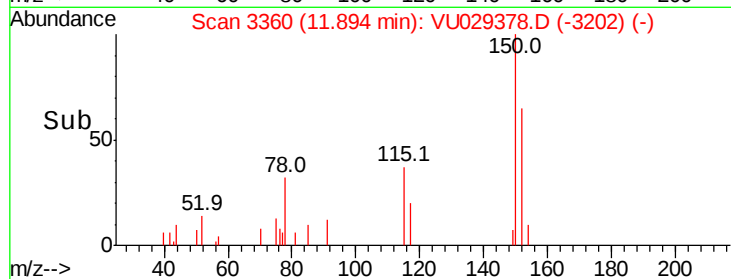
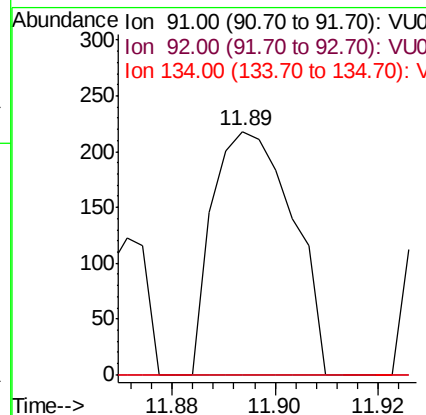
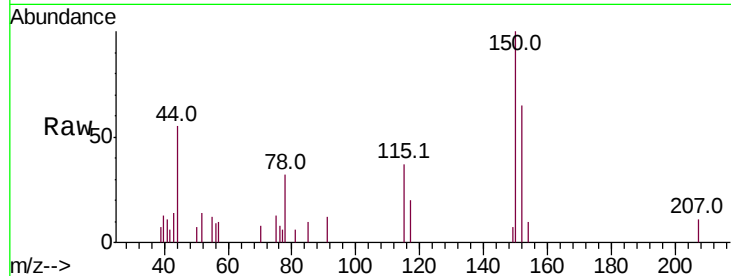




#84
n-Butylbenzene
Concen: 0.003 ug/l
RT: 11.89 min Scan# 3360
Delta R.T. 0.01 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

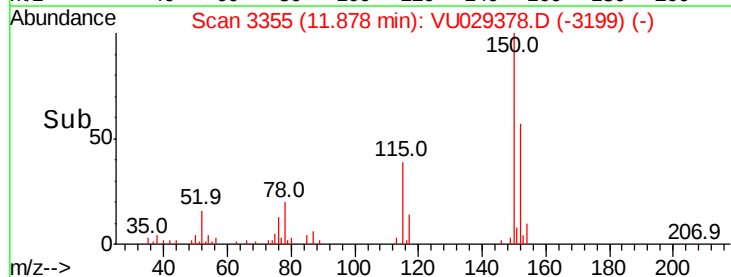
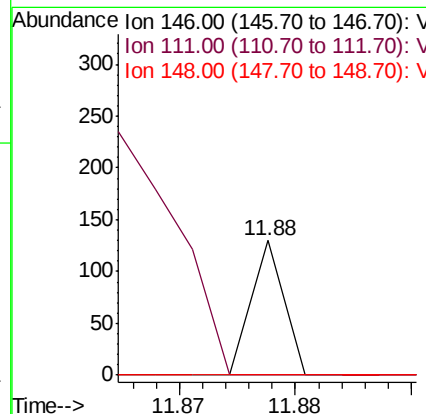
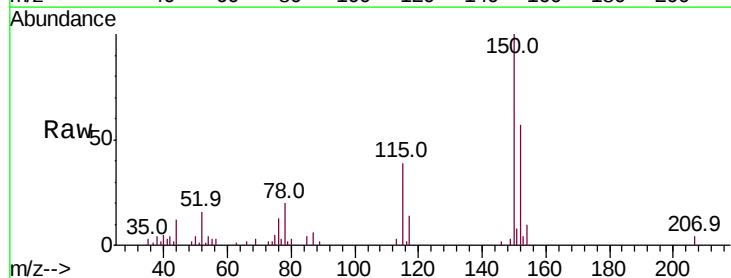
Instrument :
MSVOA_U
ClientSampled :

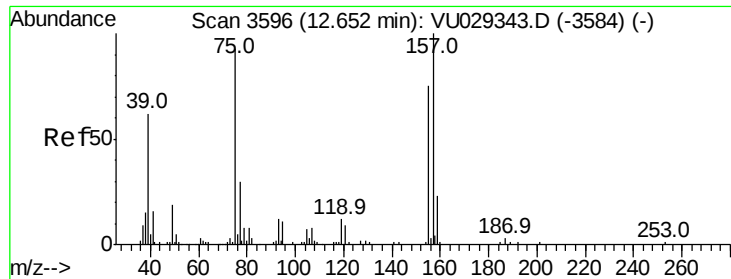
Tot Ion: 91 Resp: 234
Ion Ratio Lower Upper
91 100
92 0.0 41.0 61.6#
134 0.0 19.1 28.7#



#85
1,2-Dichlorobenzene
Concen: 0.001 ug/l
RT: 11.88 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VU029378.D
Acq: 08 Feb 2019 14:34

Tgt Ion: 146 Resp: 25
Ion Ratio Lower Upper
146 100
111 1240.0 21.9 65.8#
148 0.0 31.8 95.3#





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.129 ug/l

RT: 12.49 min Scan# 3544

Delta R.T. -0.17 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

Instrument :

MSVOA_U

ClientSampleId :

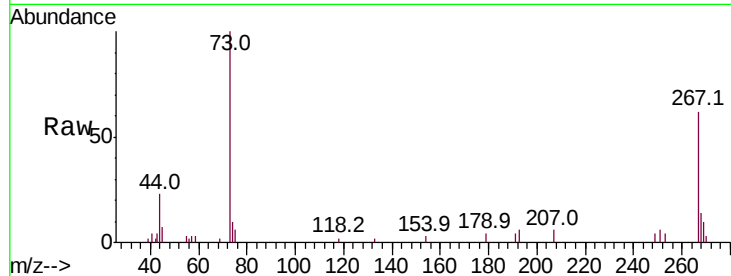
Tot Ion: 75 Resp: 350

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

157 0.0 69.2 103.8#

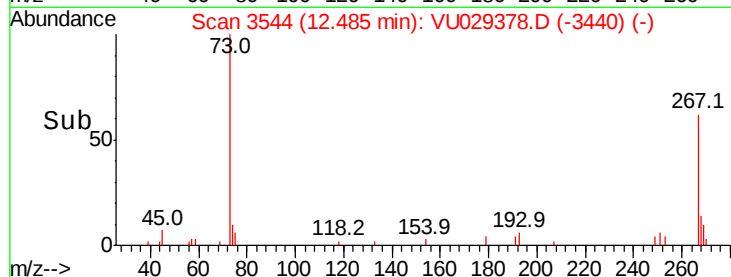


Abundance Ion 75.00 (74.70 to 75.70): VU029343.D (-3584) (-)

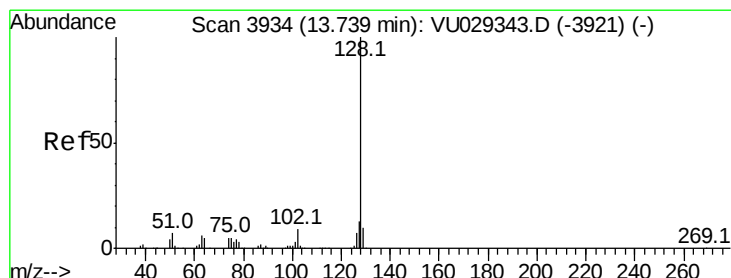
Ion 155.00 (154.70 to 155.70): VU029343.D (-3584) (-)

Ion 157.00 (156.70 to 157.70): VU029343.D (-3584) (-)

Time--> 12.44 12.46 12.48 12.50



Time--> 12.44 12.46 12.48 12.50



#89

Naphthalene

Concen: 0.000 ug/l

RT: 13.81 min Scan# 3957

Delta R.T. 0.07 min

Lab File: VU029378.D

Acq: 08 Feb 2019 14:34

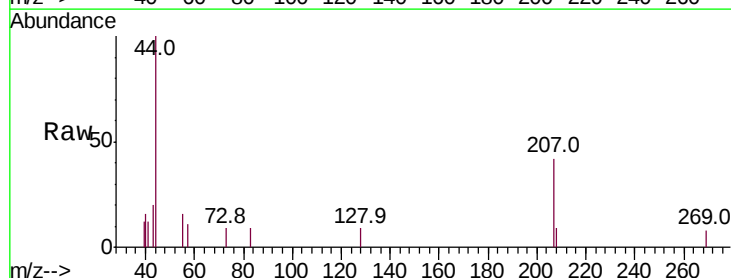
Tgt Ion: 128 Resp: 21

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.2 12.4#

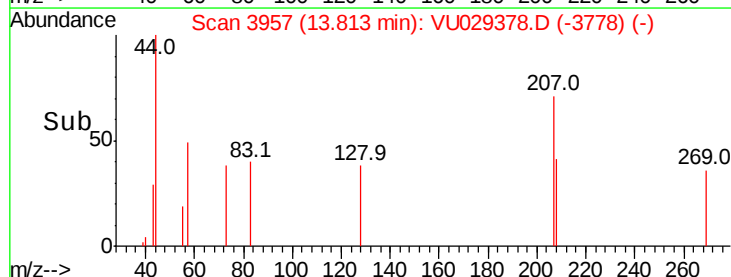


Abundance Ion 128.00 (127.70 to 128.70): VU029343.D (-3921) (-)

Ion 127.00 (126.70 to 127.70): VU029343.D (-3921) (-)

Ion 129.00 (128.70 to 129.70): VU029343.D (-3921) (-)

Time--> 13.81 13.82



Time--> 13.81 13.82