

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111218\
 Data File : VU028070.D
 Acq On : 12 Nov 2018 17:21
 Operator : MD/SY
 Sample : J5269-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-12-D

Quant Time: Nov 13 02:46:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	174832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	330706	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	302907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	118421	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	151909	58.44	ug/l	0.00
Spiked Amount			Recovery	=	116.88%	
35) Dibromofluoromethane	4.88	113	109522	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
50) Toluene-d8	7.57	98	438322	54.42	ug/l	0.00
Spiked Amount			Recovery	=	108.84%	
62) 4-Bromofluorobenzene	10.31	95	143054	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	

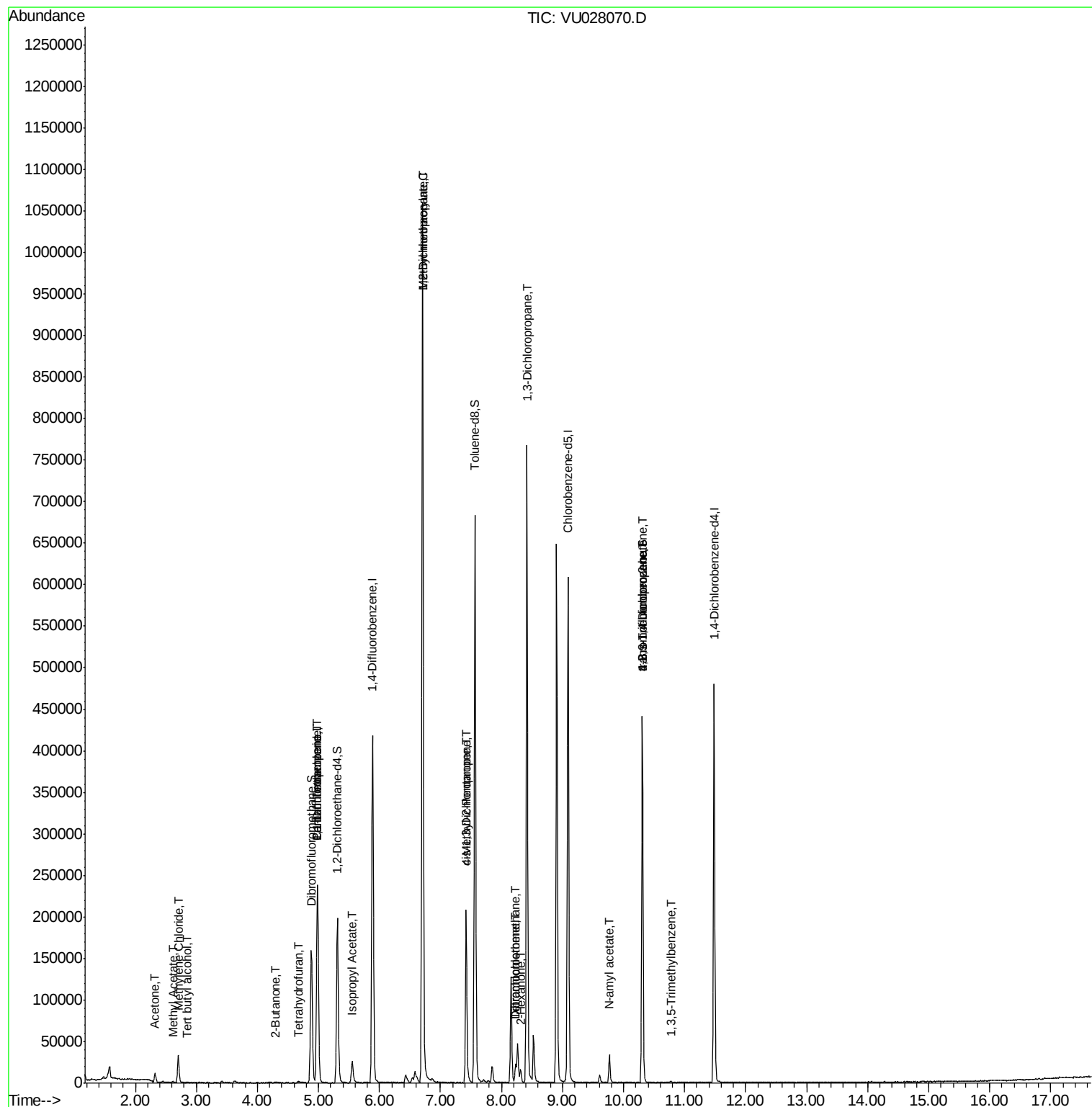
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	354	0.514	ug/l #	73
13) Acrolein	2.25	56	67	Below Cal	#	51
16) Acetone	2.32	43	11970	7.422	ug/l	97
18) Methyl Acetate	2.62	43	2122	0.478	ug/l #	67
20) Methylene Chloride	2.70	84	13449	5.712	ug/l	89
25) 2-Butanone	4.30	43	690	0.269	ug/l #	54
29) Tetrahydrofuran	4.67	42	689	0.402	ug/l #	58
31) Cyclohexane	4.98	56	4207	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15974	4.612	ug/l #	49
38) Carbon Tetrachloride	4.98	117	17356	5.654	ug/l #	17
43) Isopropyl Acetate	5.55	43	32900	4.138	ug/l	98
45) 1,2-Dichloropropane	6.71	63	1159	0.380	ug/l #	44
48) Methyl methacrylate	6.71	41	93667	24.040	ug/l #	46
51) 4-Methyl-2-Pentanone	7.42	43	80709	15.200	ug/l #	48
54) cis-1,3-Dichloropropene	7.42	75	33753	8.094	ug/l #	59
57) 1,3-Dichloropropane	8.41	76	6712	1.455	ug/l #	43
59) 2-Hexanone	8.31	43	13423	3.268	ug/l #	26
60) Dibromochloromethane	8.23	129	1466	0.612	ug/l #	10
64) Tetrachloroethene	8.22	164	1479	0.753	ug/l #	87
74) N-amyl acetate	9.77	43	12083	2.178	ug/l #	54
76) 1,2,3-Trichloropropane	10.31	75	76409	23.589	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	1576	0.207	ug/l	89
81) trans-1,4-Dichloro-2-buten	10.31	75	76409	58.850	ug/l #	100
95) Naphthalene	13.77	128	268	Below Cal	#	69

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

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QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

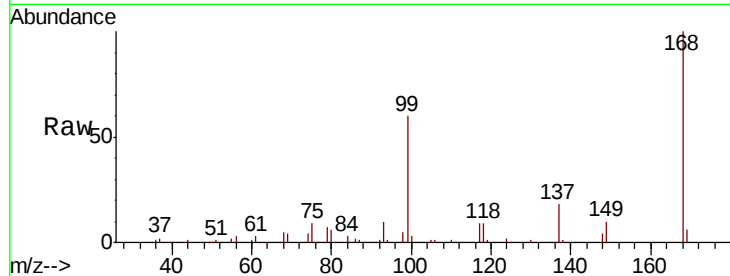
SB-12-D

Tot Ion:168 Resp: 174832

Ion Ratio Lower Upper

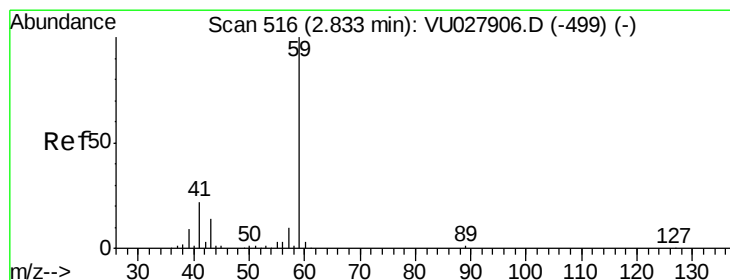
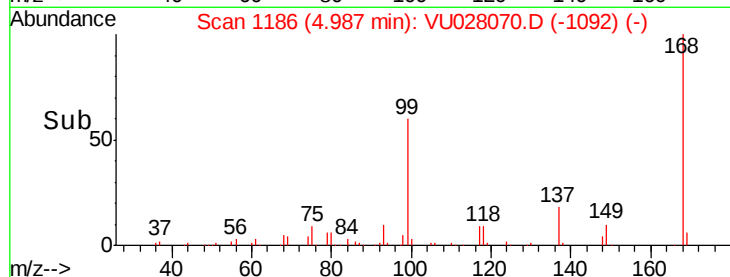
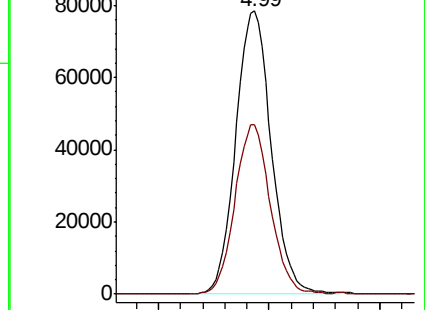
168 100

99 59.7 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU028070.D (-1092) (-)

Ion 98.90 (98.60 to 99.60): VU028070.D (-1092) (-)



#11

Tert butyl alcohol

Concen: 0.514 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028070.D

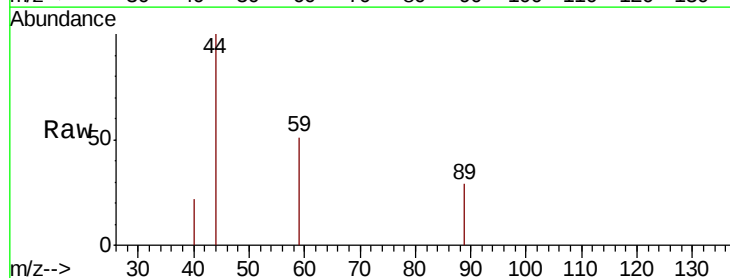
Acq: 12 Nov 2018 17:21

Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

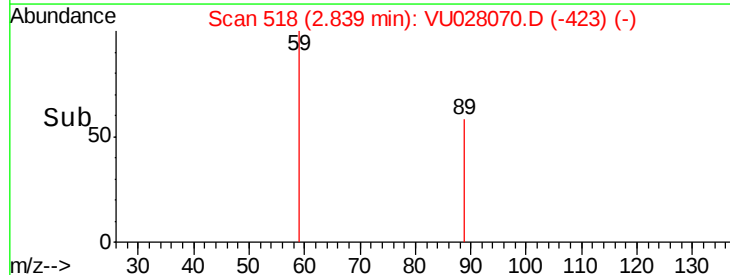
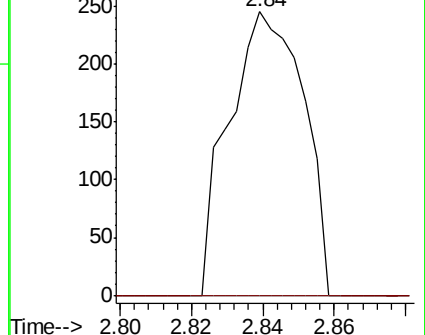
59 100

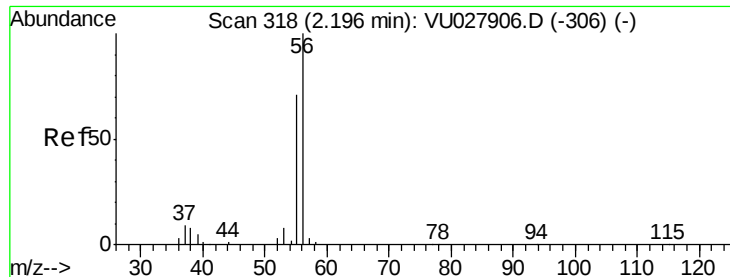
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU028070.D (-423) (-)

Ion 57.00 (56.70 to 57.70): VU028070.D (-423) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.25 min Scan# 336

Delta R.T. 0.06 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

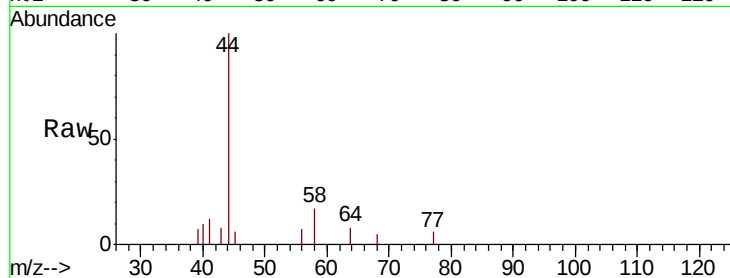
SB-12-D

Tot Ion: 56 Resp: 67

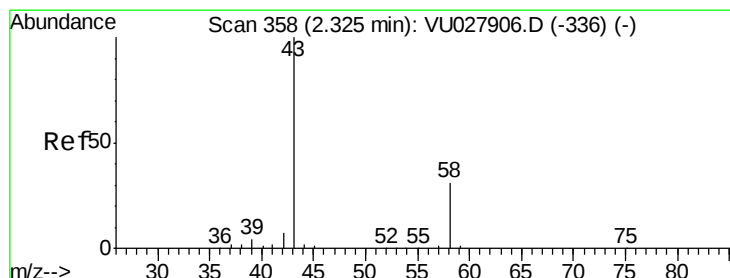
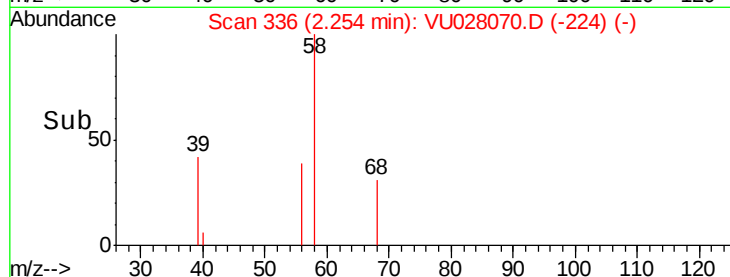
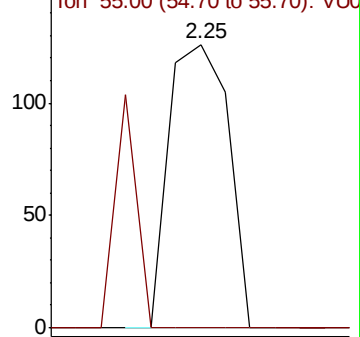
Ion Ratio Lower Upper

56 100

55 29.9 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)



#16

Acetone

Concen: 7.422 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028070.D

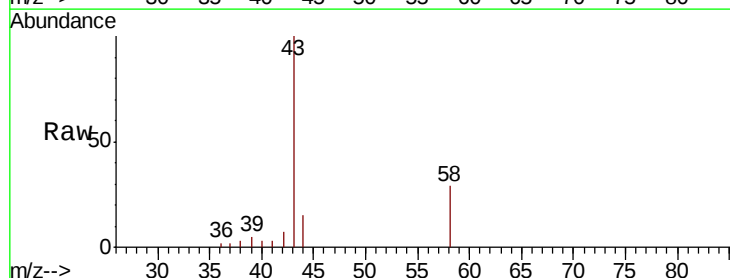
Acq: 12 Nov 2018 17:21

Tgt Ion: 43 Resp: 11970

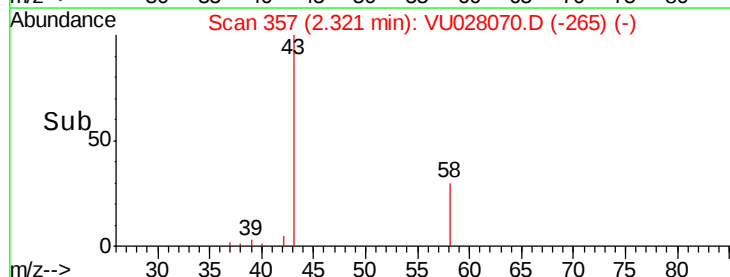
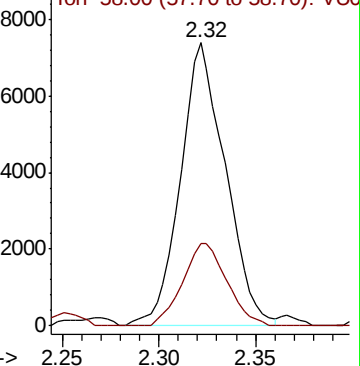
Ion Ratio Lower Upper

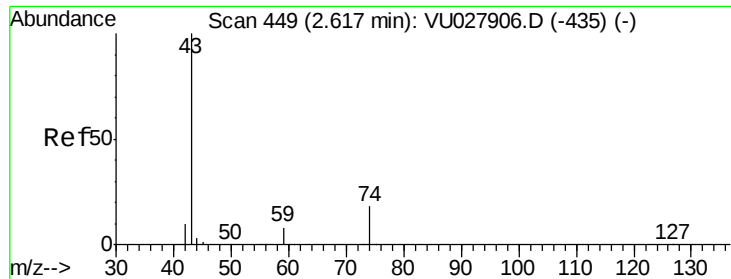
43 100

58 29.1 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-336) (-)

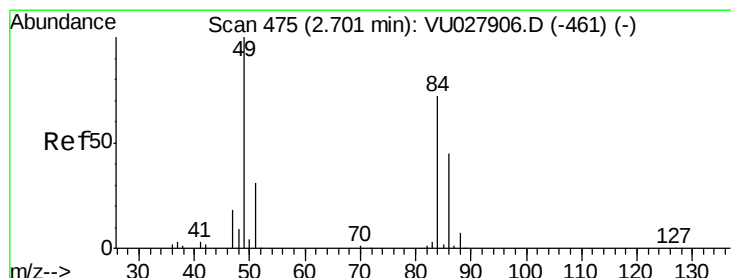
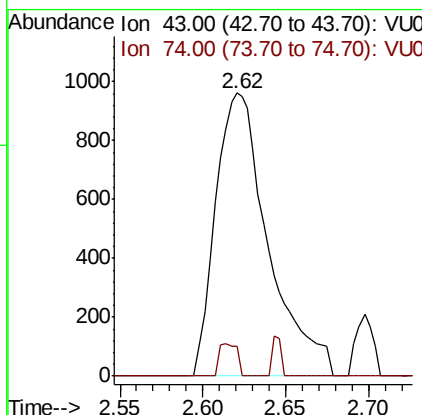
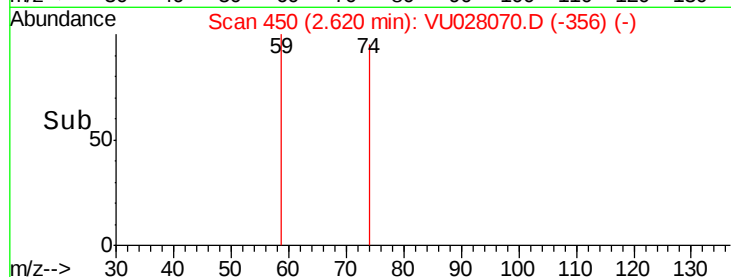
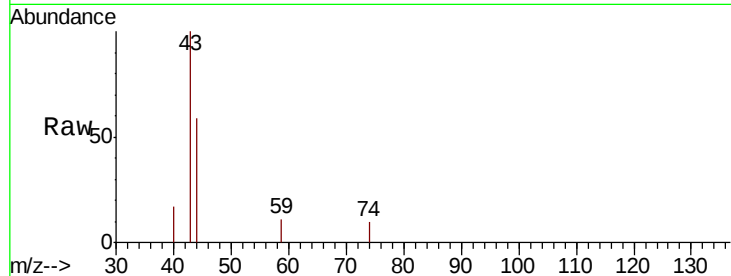




#18
Methyl Acetate
Concen: 0.478 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

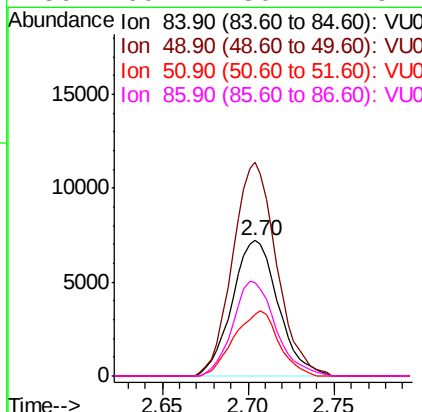
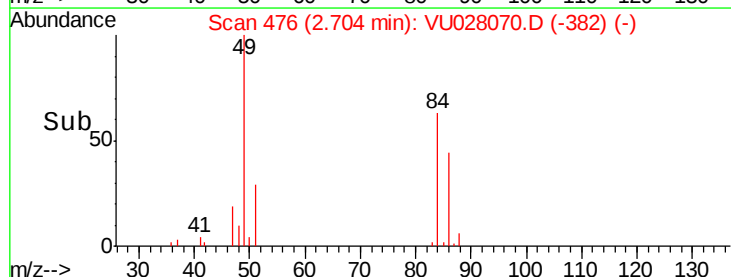
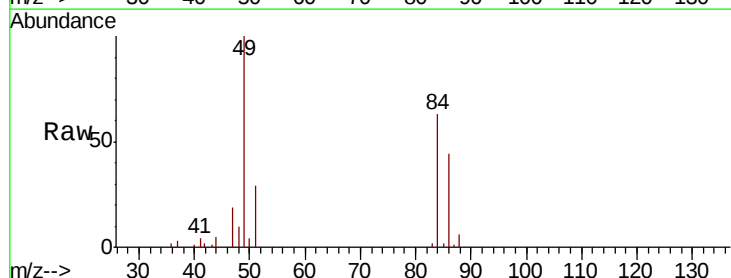
Instrument :
MSVOA_U
ClientSampled :
SB-12-D

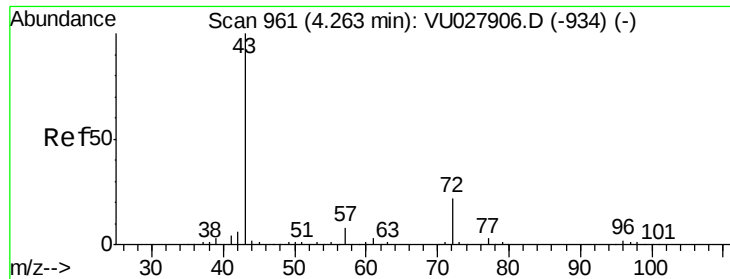
Tot Ion: 43 Resp: 2122
Ion Ratio Lower Upper
43 100
74 3.8 14.9 22.3#



#20
Methylene Chloride
Concen: 5.712 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Tgt Ion: 84 Resp: 13449
Ion Ratio Lower Upper
84 100
49 157.5 111.6 167.4
51 45.8 34.8 52.2
86 69.1 50.1 75.1





#25

2-Butanone

Concen: 0.269 ug/l

RT: 4.30 min Scan# 973

Delta R.T. 0.04 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

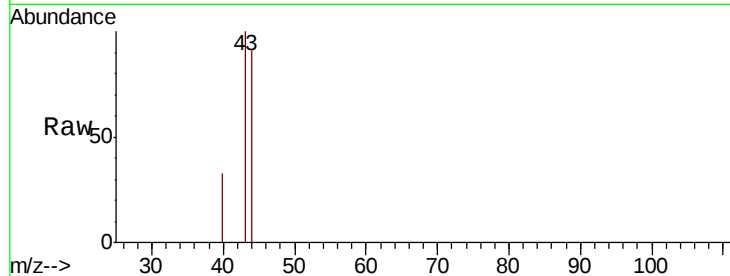
SB-12-D

Tot Ion: 43 Resp: 690

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.30

400

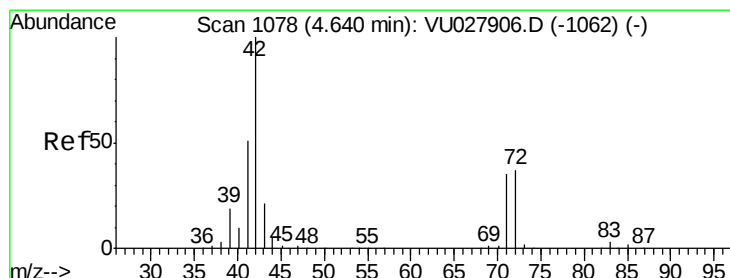
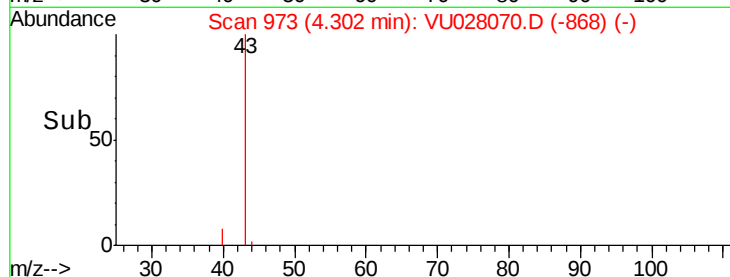
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.402 ug/l

RT: 4.67 min Scan# 1086

Delta R.T. 0.03 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

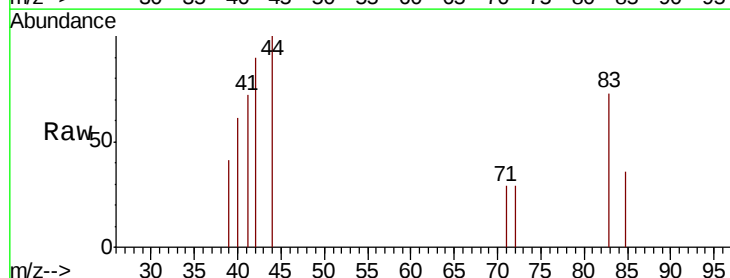
Tgt Ion: 42 Resp: 689

Ion Ratio Lower Upper

42 100

72 12.9 29.4 44.0#

71 9.3 27.9 41.9#



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

4.67

400

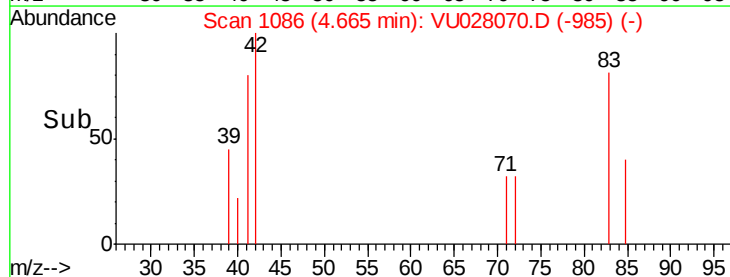
300

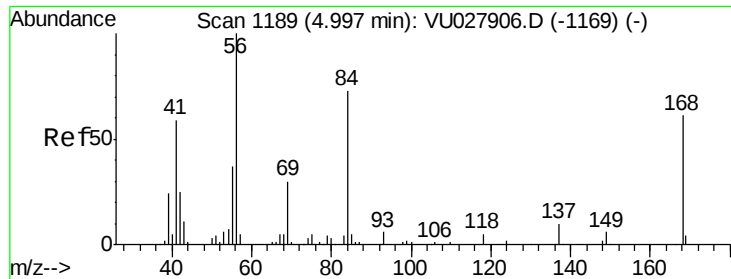
200

100

0

Time-->

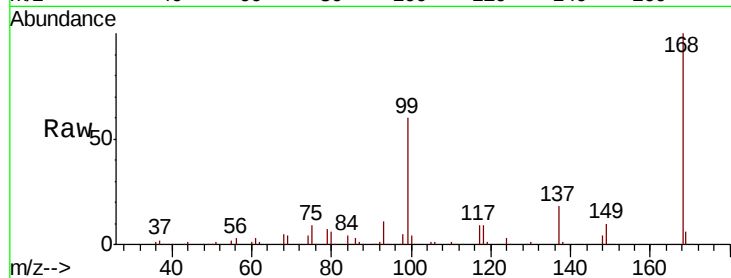




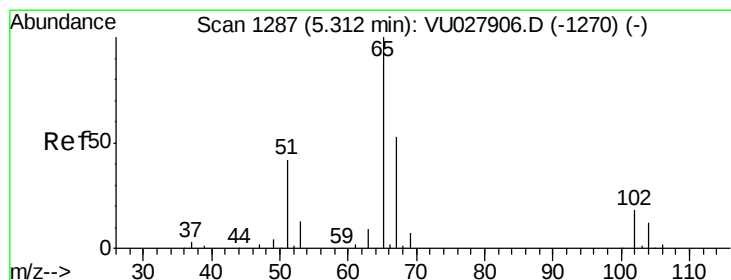
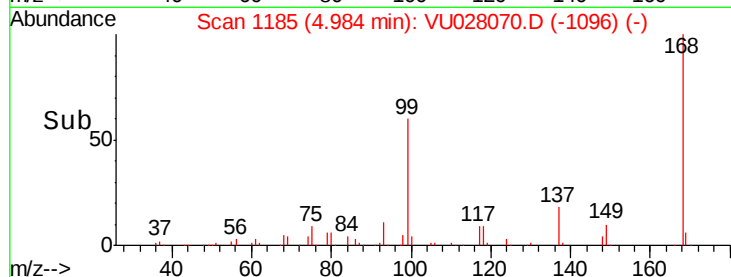
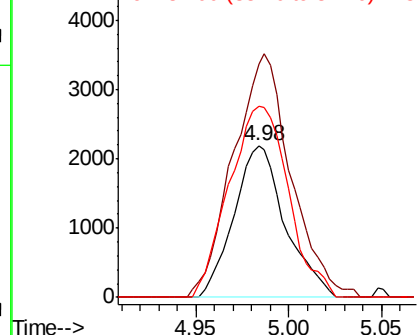
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Instrument :
MSVOA_U
ClientSampleId :
SB-12-D

Tot Ion: 56 Resp: 4207
Ion Ratio Lower Upper
56 100
69 148.6 23.7 35.5#
84 126.1 58.2 87.4#

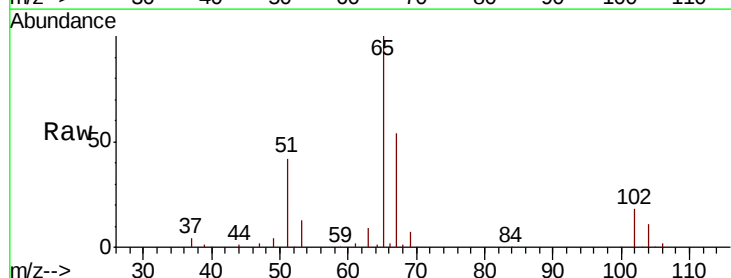


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

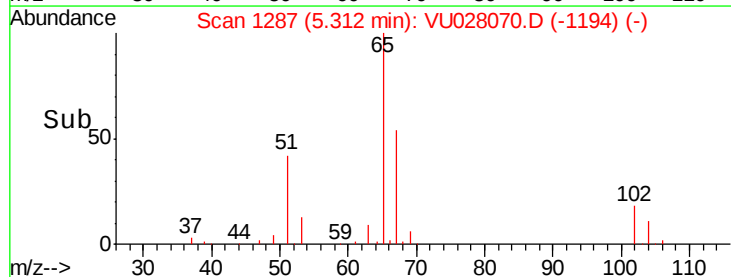
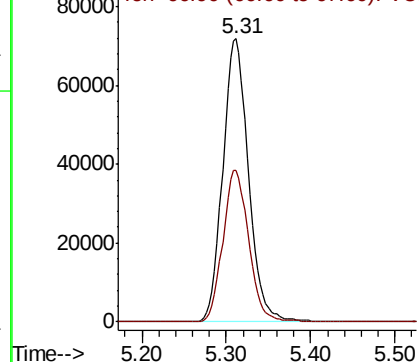


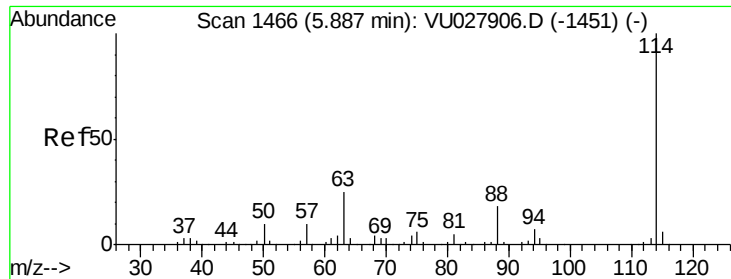
#33
1,2-Dichloroethane-d4
Concen: 58.442 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Tgt Ion: 65 Resp: 151909
Ion Ratio Lower Upper
65 100
67 53.7 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

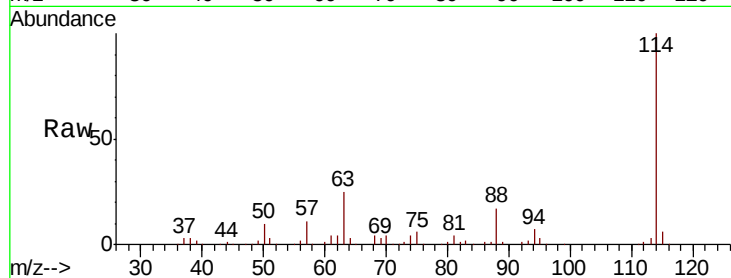




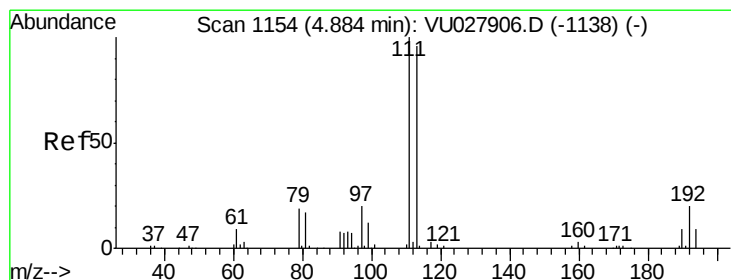
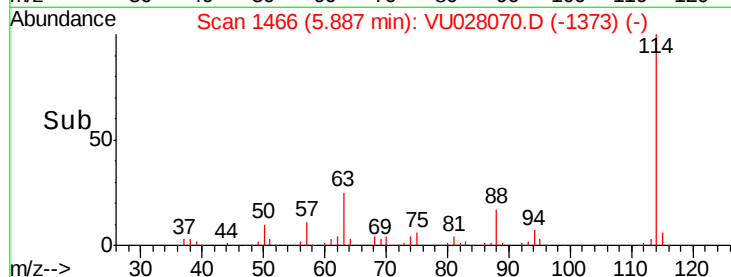
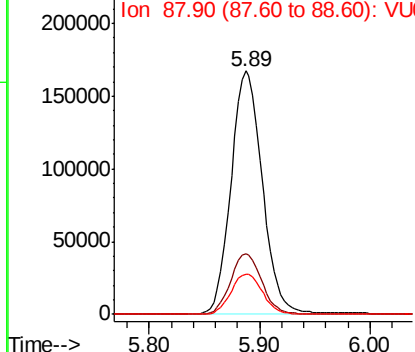
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028070.D
 Acq: 12 Nov 2018 17:21

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-12-D

Tot Ion:114 Resp: 330706
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 50.8
 88 16.7 0.0 35.8

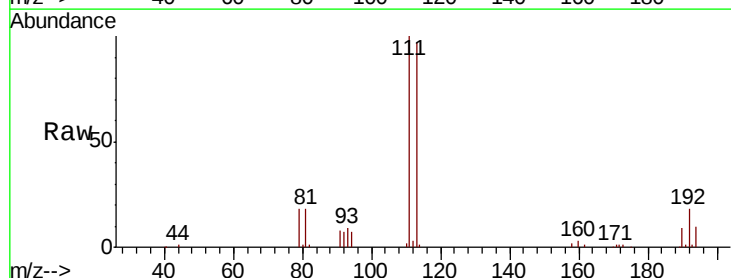


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

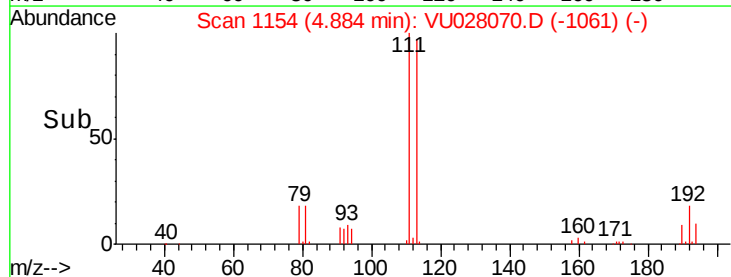
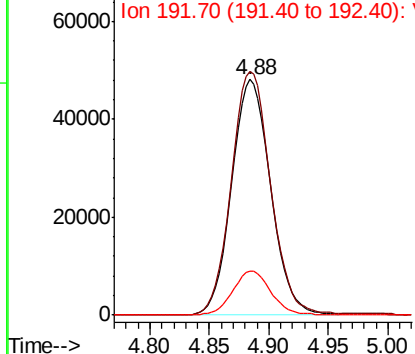


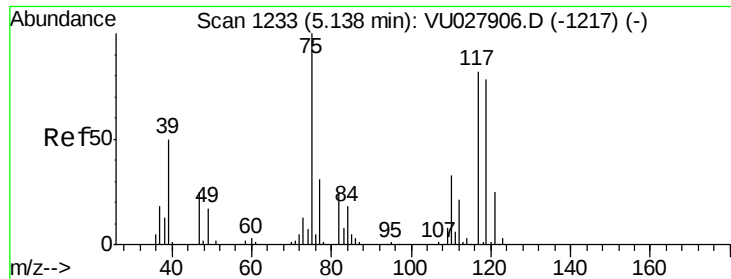
#35
 Dibromofluoromethane
 Concen: 52.525 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028070.D
 Acq: 12 Nov 2018 17:21

Tgt Ion:113 Resp: 109522
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.0 124.6
 192 18.2 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.612 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

SB-12-D

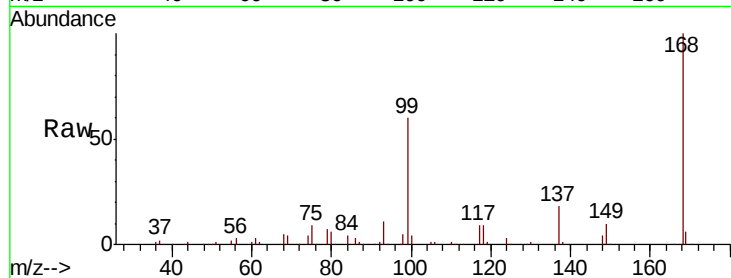
Tot Ion: 75 Resp: 15974

Ion Ratio Lower Upper

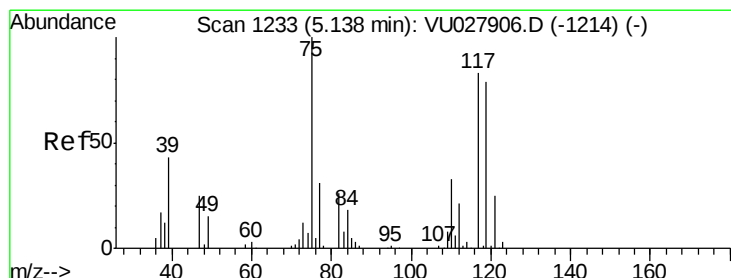
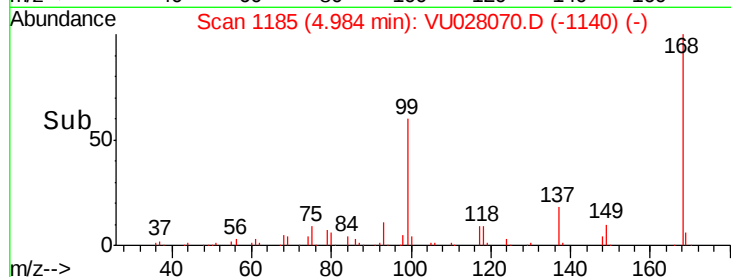
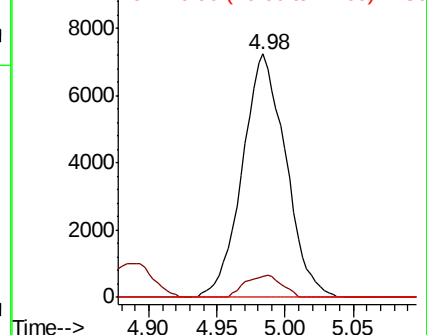
75 100

110 7.6 16.5 49.5#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0



#38

Carbon Tetrachloride

Concen: 5.654 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

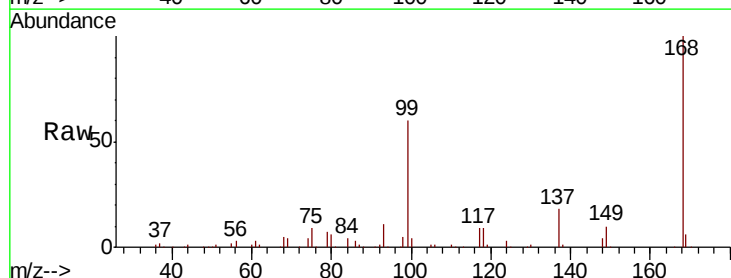
Tgt Ion: 117 Resp: 17356

Ion Ratio Lower Upper

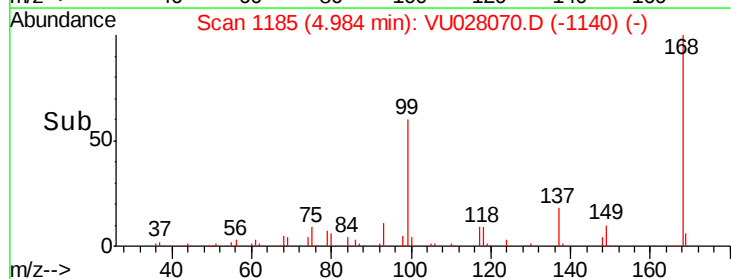
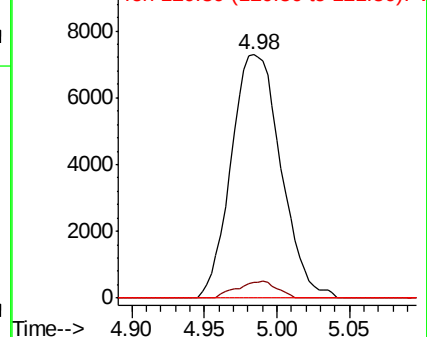
117 100

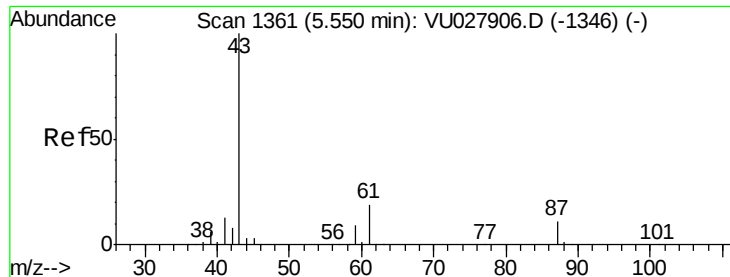
119 6.4 76.0 114.0#

121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

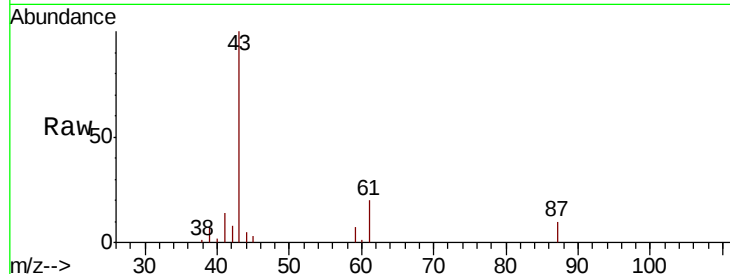




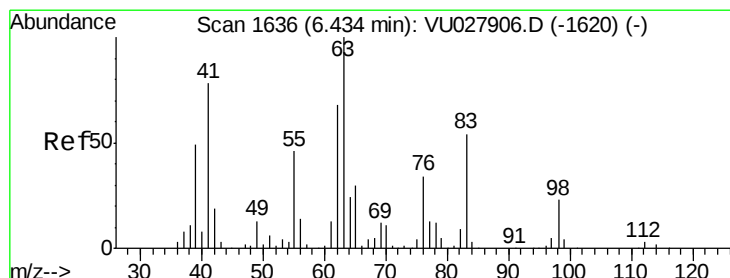
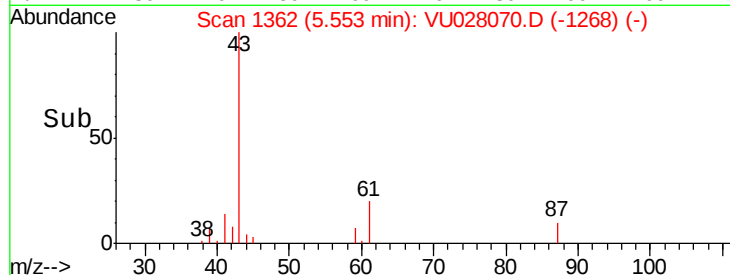
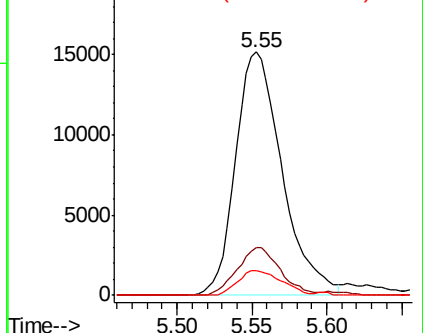
#43
Isopropyl Acetate
Concen: 4.138 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Instrument :
MSVOA_U
ClientSampled :
SB-12-D

Tot Ion	43.00	Resp	32900
Ion Ratio	Lower	Upper	
43	100		
61	18.0	15.0	22.4
87	9.6	8.6	12.8

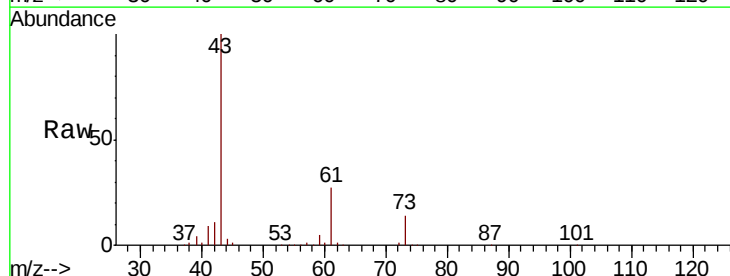


Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

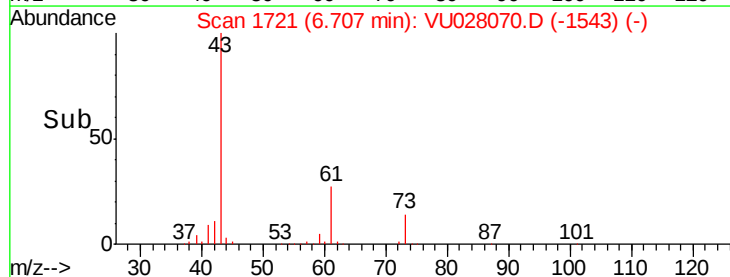
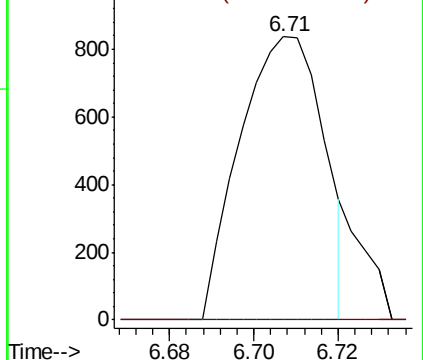


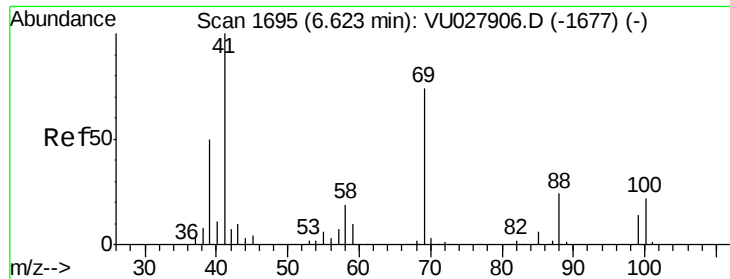
#45
1,2-Dichloropropane
Concen: 0.380 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.27 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Tgt Ion	63.00	Resp	1159
Ion Ratio	Lower	Upper	
63	100		
65	0.0	24.4	36.6#



Abundance Ion 62.90 (62.60 to 63.60): VU027906.D (-1620) (-)

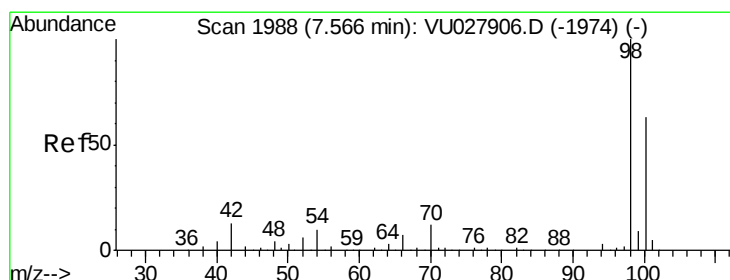
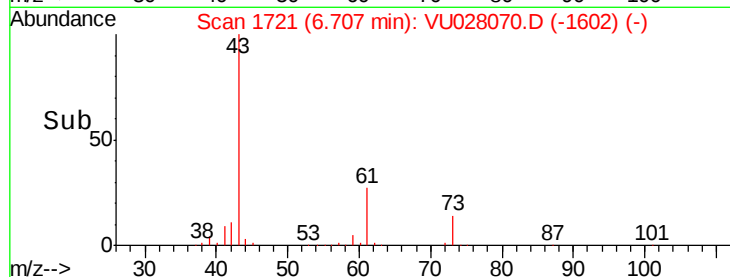
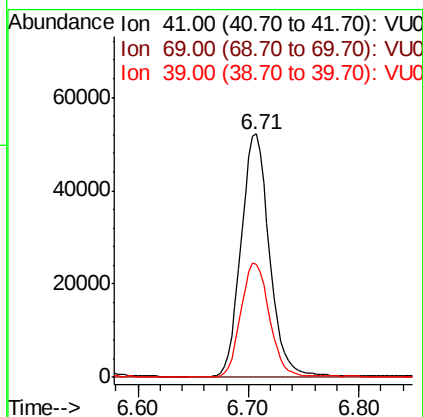
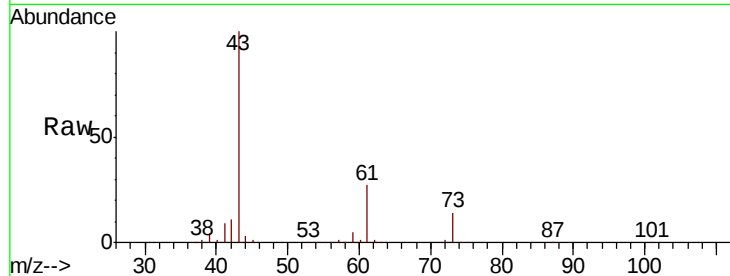




#48
Methvl methacrylate
Concen: 24.040 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.08 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

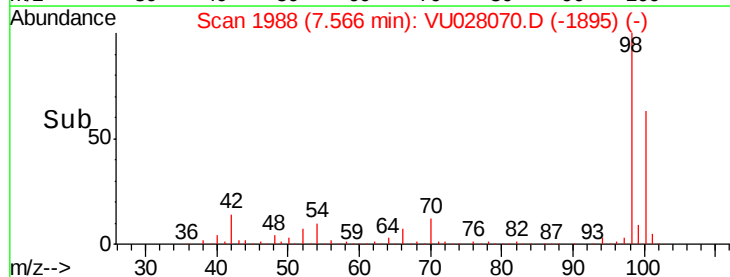
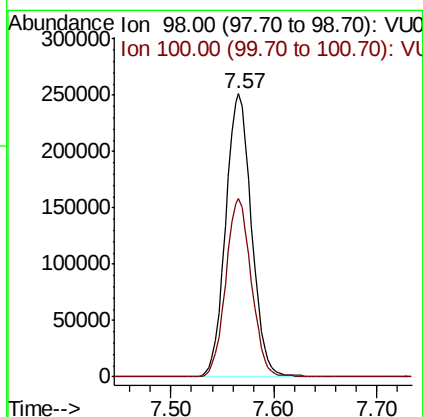
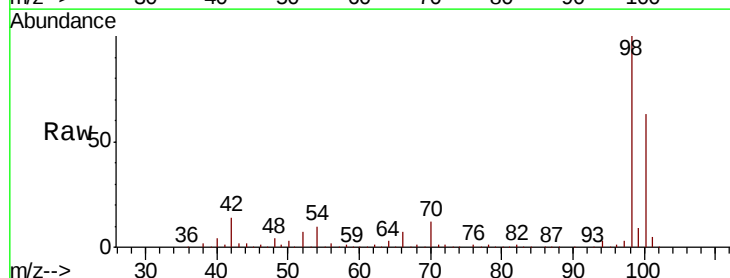
Instrument :
MSVOA_U
ClientSampleId :
SB-12-D

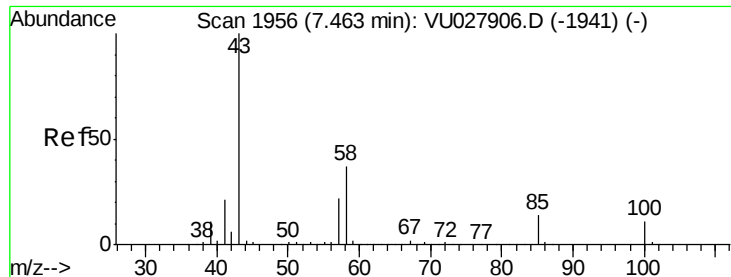
Tot Ion: 41 Resp: 93667
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 47.5 40.0 60.0



#50
Toluene-d8
Concen: 54.418 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Tgt Ion: 98 Resp: 438322
Ion Ratio Lower Upper
98 100
100 62.4 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 15.200 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. -0.04 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

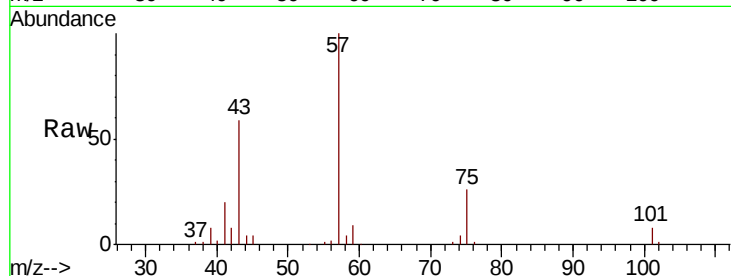
SB-12-D

Tot Ion: 43 Resp: 80709

Ion Ratio Lower Upper

43 100

58 5.8 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028070.D (-1863) (-)

Ion 58.00 (57.70 to 58.70): VU028070.D (-1863) (-)

7.42

50000

40000

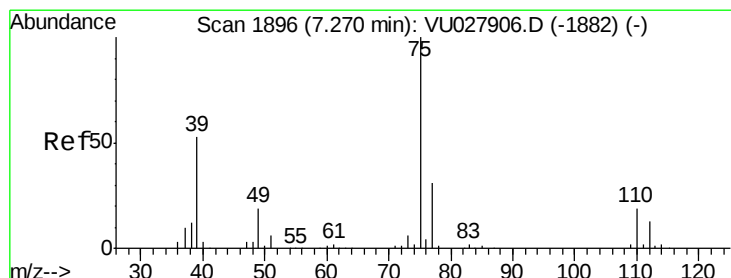
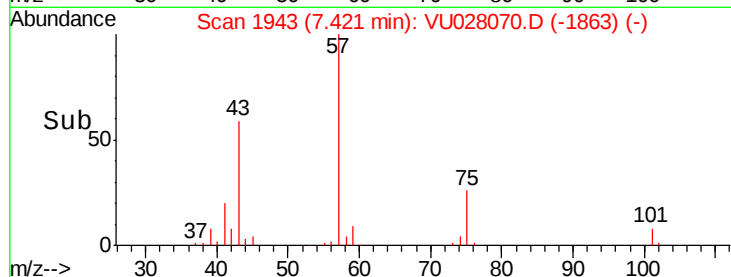
30000

20000

10000

0

Time--> 7.30 7.40 7.50



#54

cis-1,3-Dichloropropene

Concen: 8.094 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

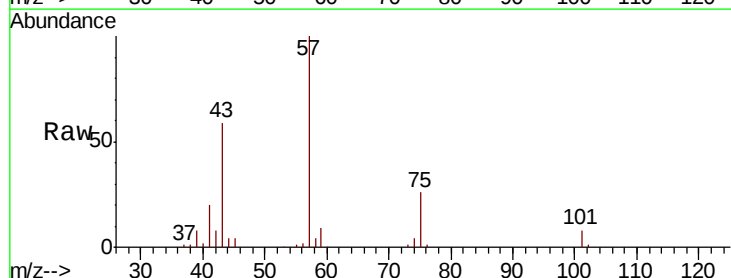
Tgt Ion: 75 Resp: 33753

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 30.8 42.6 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VU028070.D (-1803) (-)

Ion 76.90 (76.60 to 77.60): VU028070.D (-1803) (-)

Ion 39.00 (38.70 to 39.70): VU028070.D (-1803) (-)

7.42

25000

20000

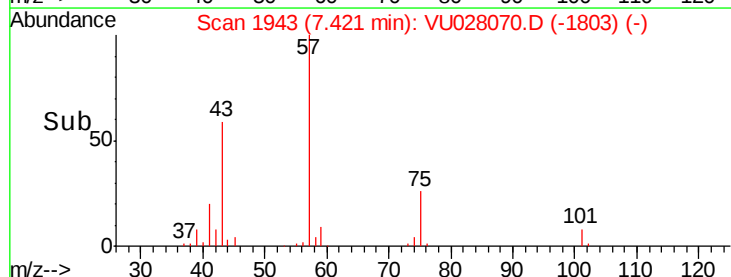
15000

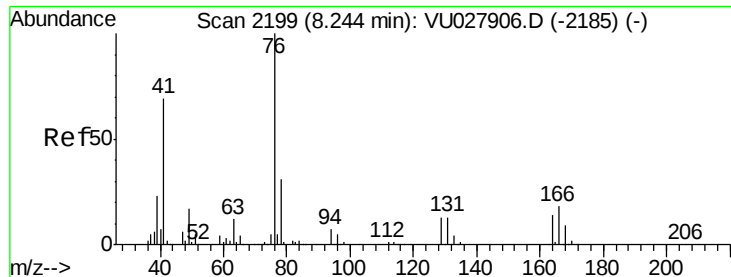
10000

5000

0

Time--> 7.35 7.40 7.45 7.50





#57

1,3-Dichloropropane

Concen: 1.455 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

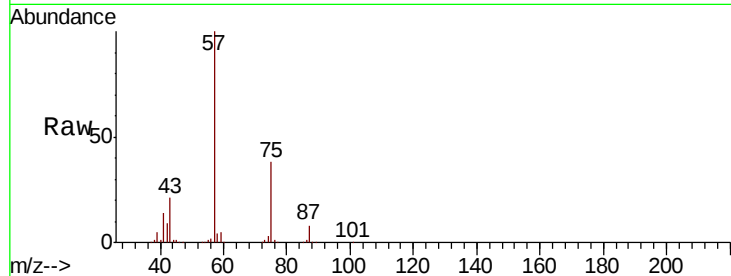
SB-12-D

Tot Ion: 76 Resp: 6712

Ion Ratio Lower Upper

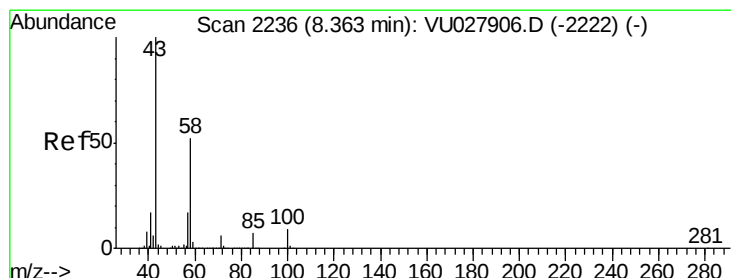
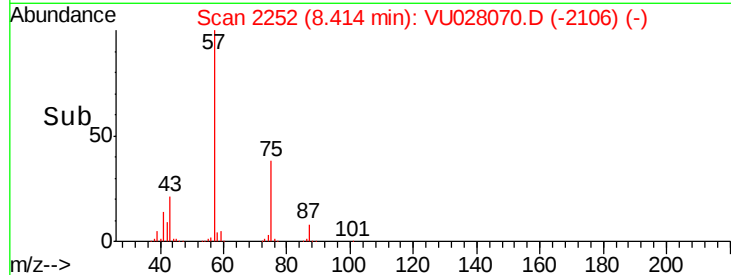
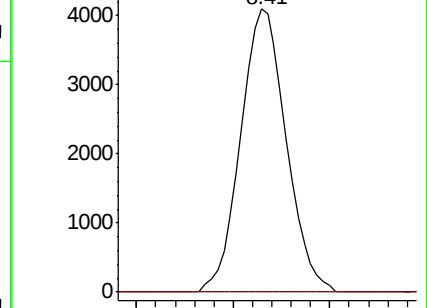
76 100

78 0.0 25.3 37.9#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 3.268 ug/l

RT: 8.31 min Scan# 2221

Delta R.T. -0.05 min

Lab File: VU028070.D

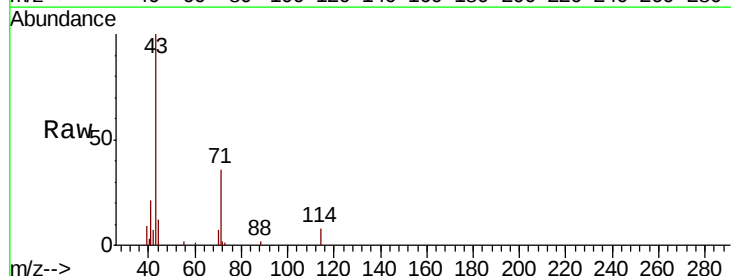
Acq: 12 Nov 2018 17:21

Tgt Ion: 43 Resp: 13423

Ion Ratio Lower Upper

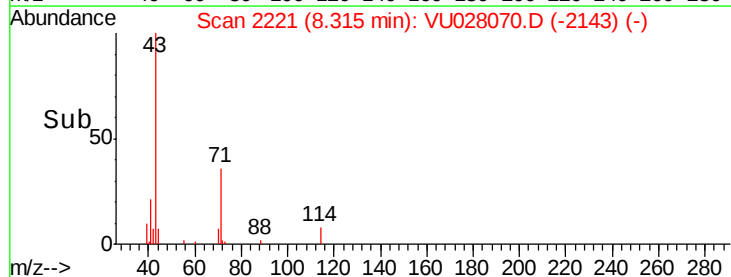
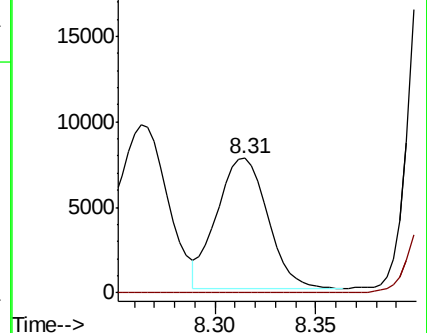
43 100

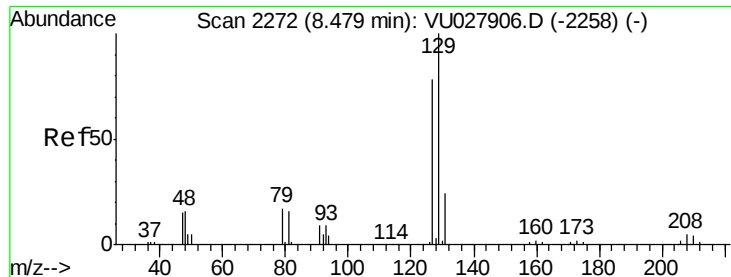
58 0.0 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#60

Dibromochloromethane

Concen: 0.612 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

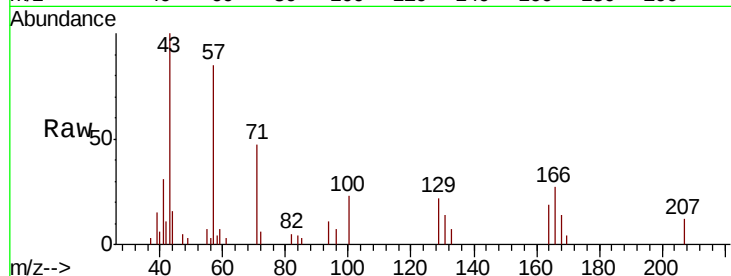
SB-12-D

Tot Ion:129 Resp: 1466

Ion Ratio Lower Upper

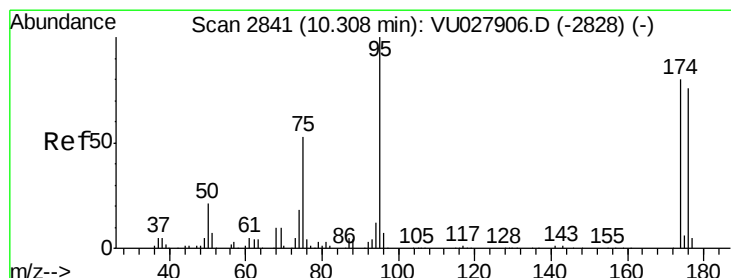
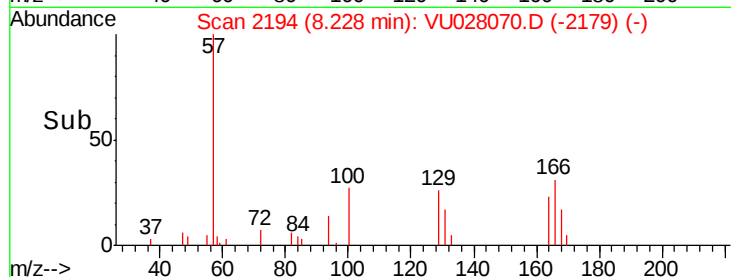
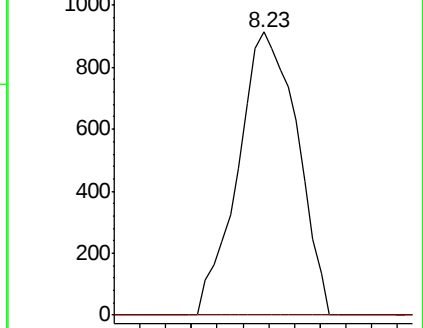
129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.151 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

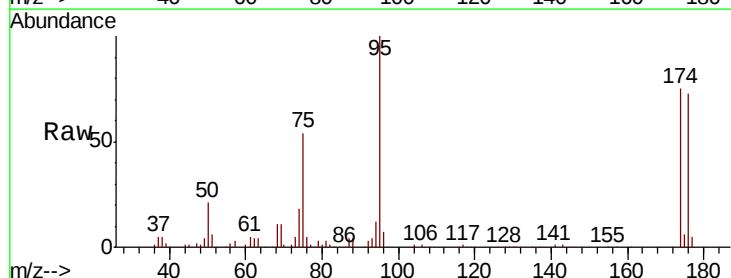
Tgt Ion: 95 Resp: 143054

Ion Ratio Lower Upper

95 100

174 74.5 0.0 156.4

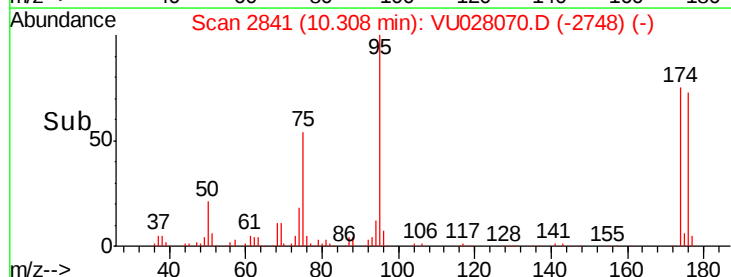
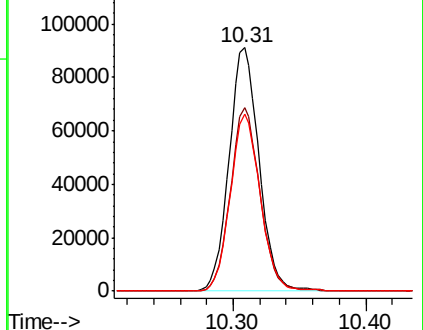
176 72.7 0.0 150.8

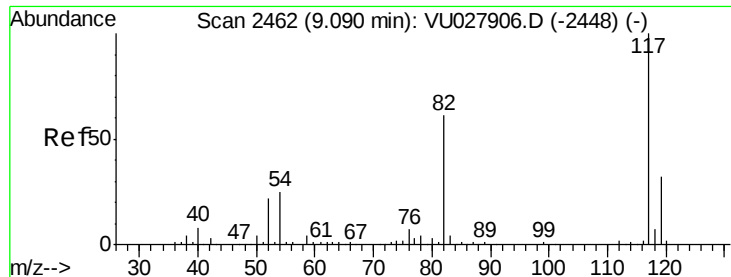


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

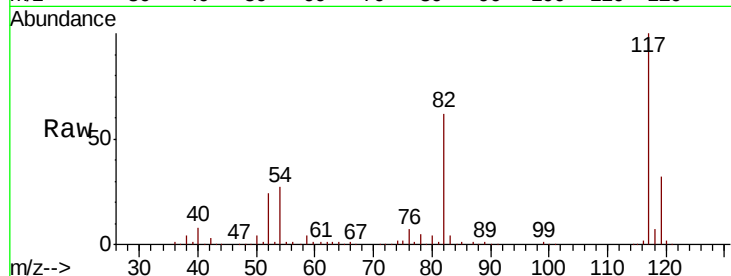




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Instrument :
MSVOA_U
ClientSampleId :
SB-12-D

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.9	48.6	73.0
119	32.2	25.8	38.8

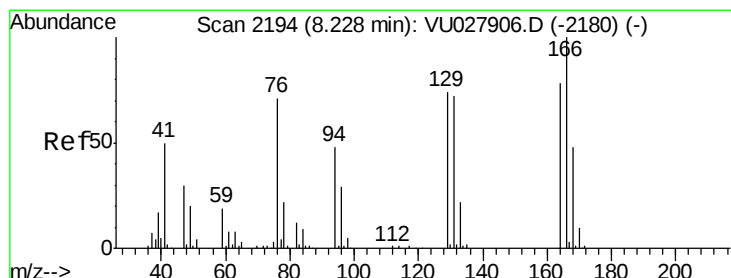
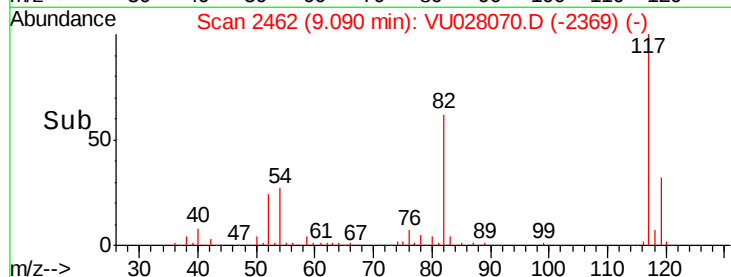
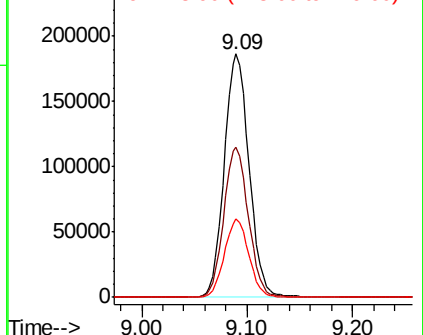


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.753 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028070.D
Acq: 12 Nov 2018 17:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.1	102.1	153.1
129	103.7	75.9	113.9
131	69.7	73.0	109.6

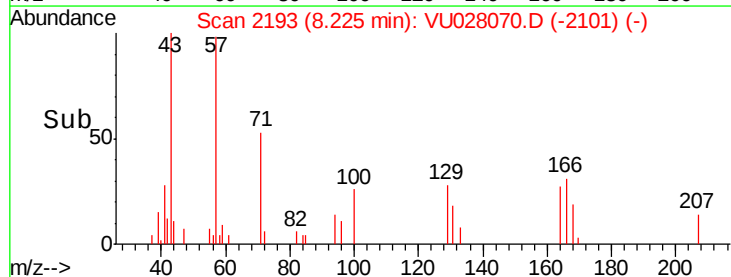
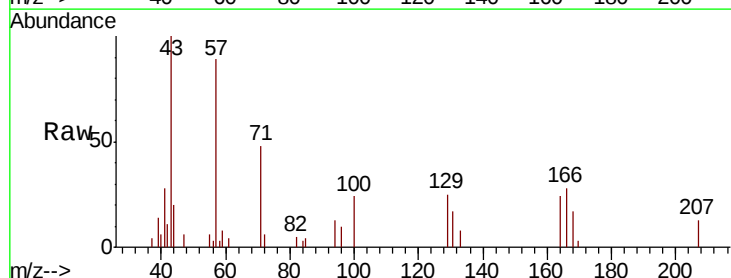
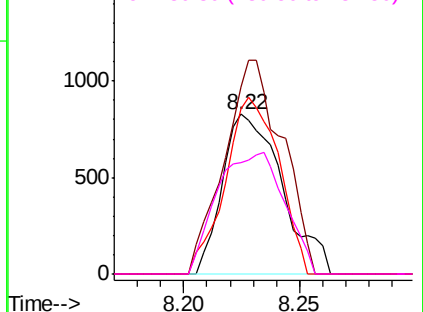
Abundance

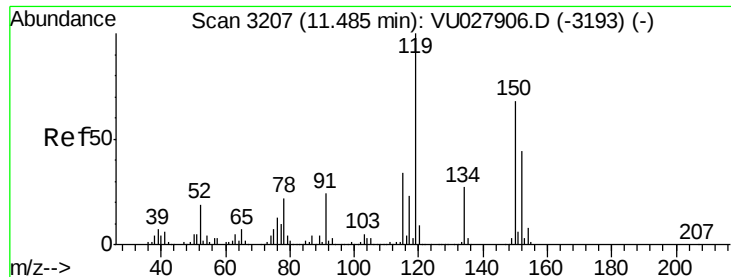
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

SB-12-D

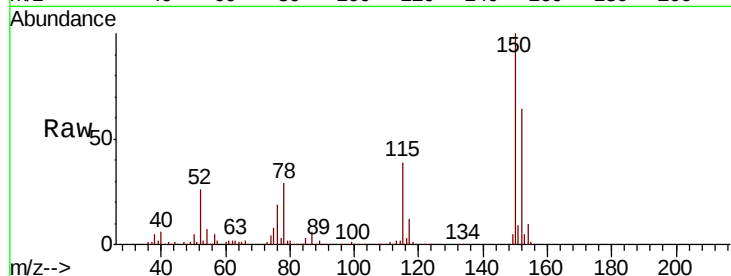
Tot Ion:152 Resp: 118421

Ion Ratio Lower Upper

152 100

115 60.5 43.0 129.0

150 154.1 0.0 349.4

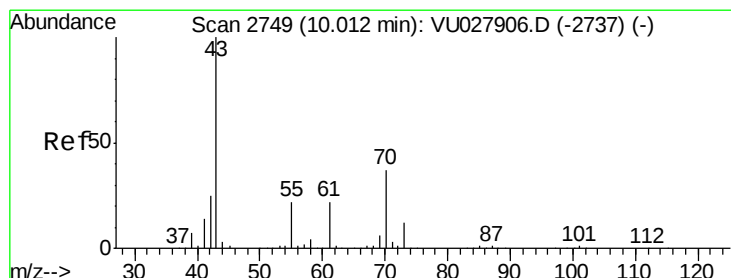
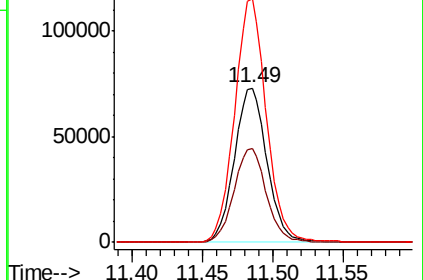
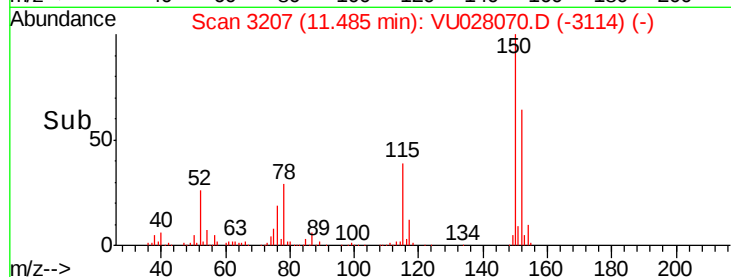


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.178 ug/l

RT: 9.77 min Scan# 2673

Delta R.T. -0.24 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Tgt Ion: 43 Resp: 12083

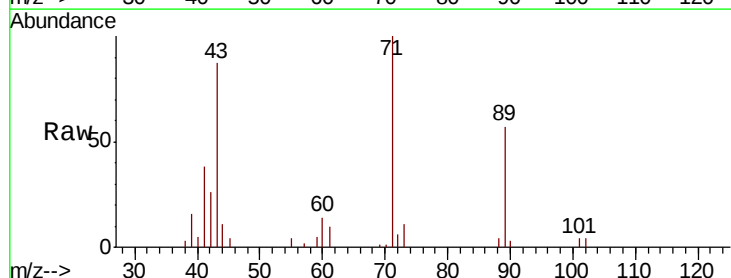
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 3.6 17.8 26.6#

61 9.4 17.8 26.8#



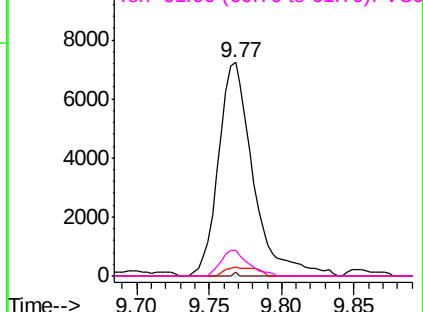
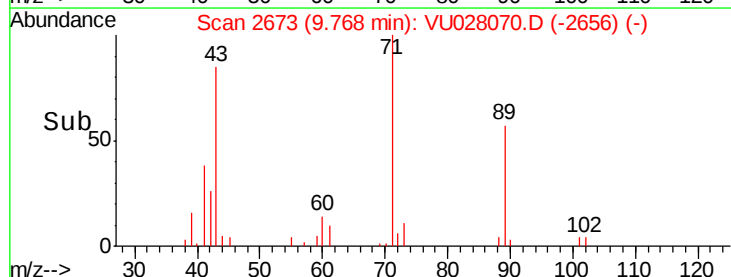
Abundance

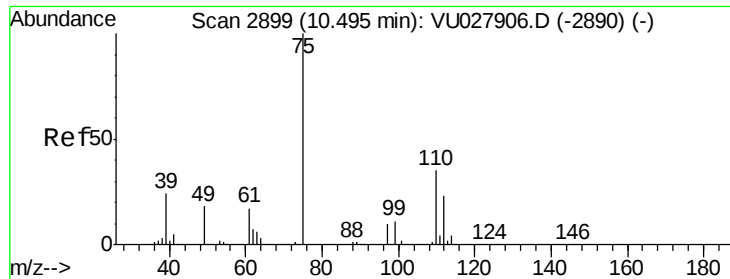
Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 23.589 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

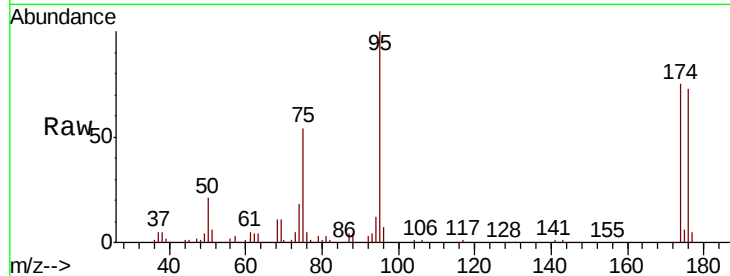
SB-12-D

Tot Ion: 75 Resp: 76409

Ion Ratio Lower Upper

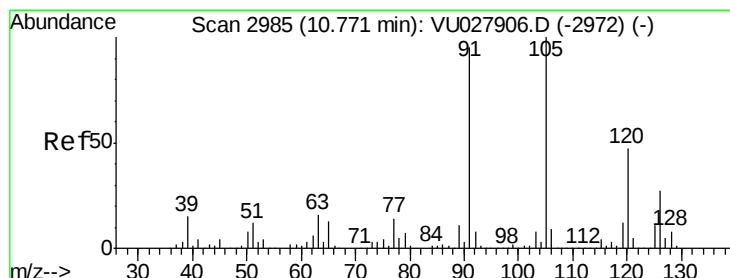
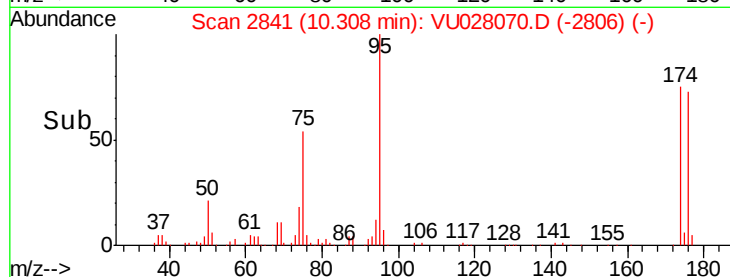
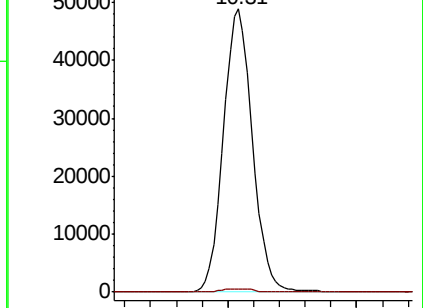
75 100

77 1.2 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU027906.D (-2890) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.207 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU028070.D

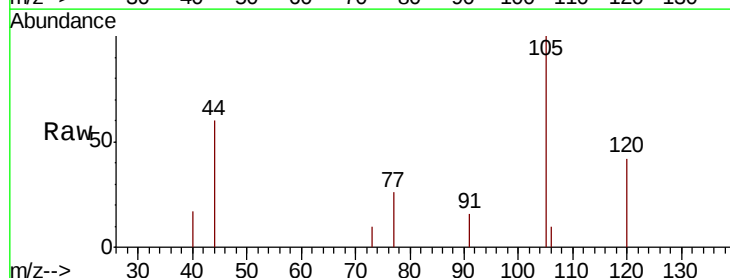
Acq: 12 Nov 2018 17:21

Tgt Ion: 105 Resp: 1576

Ion Ratio Lower Upper

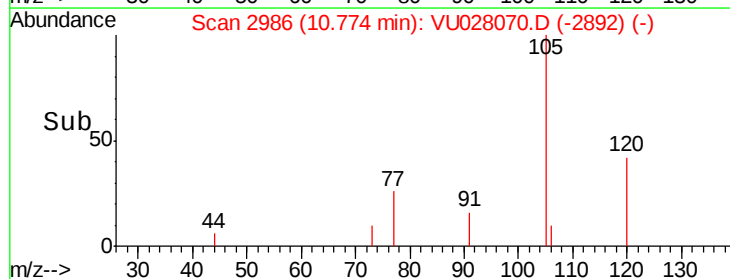
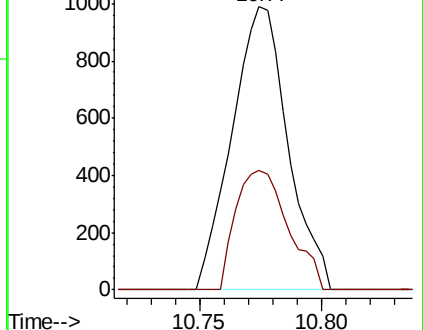
105 100

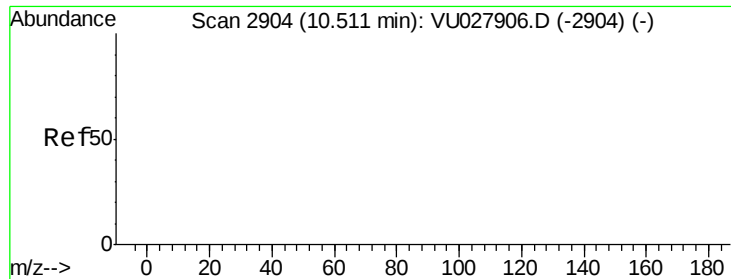
120 39.5 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VU027906.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU027906.D (-2972) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 58.850 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028070.D

Acq: 12 Nov 2018 17:21

Instrument :

MSVOA_U

ClientSampleId :

SB-12-D

Tot Ion: 75 Resp: 76409

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

