

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100918\
 Data File : VU027521.D
 Acq On : 09 Oct 2018 09:45
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 10 08:22:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 09 05:21:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	194566	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	179434	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	84338	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	68596	44.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.60%
7) Chloroethane-d5	1.68	69	55389	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.92%
11) 1,1-Dichloroethene-d2	2.28	63	128497	44.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.48%
21) 2-Butanone-d5	4.18	46	135438	109.57	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.57%
24) Chloroform-d	4.65	84	124017	50.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.28%
26) 1,2-Dichloroethane-d4	5.31	65	86213	50.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.46%
32) Benzene-d6	5.34	84	255043	49.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.33	67	90393	51.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.64%
41) Toluene-d8	7.57	98	222078	48.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.62%
43) trans-1,3-Dichloropropene-	7.85	79	38067	44.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.70%
47) 2-Hexanone-d5	8.31	63	95946	107.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.85%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	121658	52.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.62%
64) 1,2-Dichlorobenzene-d4	11.86	152	80496	48.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.58%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	98265	50.928	ug/L	100
3) Chloromethane	1.33	50	115563	52.123	ug/L	100
5) Vinyl chloride	1.40	62	110955	51.214	ug/L	98
6) Bromomethane	1.62	94	46288	48.890	ug/L	97
8) Chloroethane	1.70	64	62019	47.767	ug/L	100
9) Trichlorofluoromethane	1.89	101	114130	52.628	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	61225	47.555	ug/L	100
12) 1,1-Dichloroethene	2.29	96	57537	45.780	ug/L	96
13) Acetone	2.32	43	92654	91.388	ug/L	99
14) Carbon disulfide	2.48	76	203143	44.002	ug/L	99
15) Methyl Acetate	2.62	43	106595	52.468	ug/L	98
16) Methylene chloride	2.70	84	73976	48.462	ug/L	93
17) trans-1,2-Dichloroethene	2.98	96	62976	45.249	ug/L	91
18) Methyl tert-butyl Ether	3.00	73	233536	50.467	ug/L	99
19) 1,1-Dichloroethane	3.45	63	146462	50.964	ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	76783	49.733	ug/L	97
22) 2-Butanone	4.26	43	149270	102.853	ug/L	99

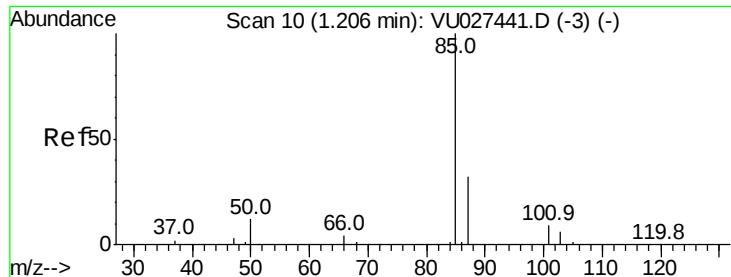
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100918\
 Data File : VU027521.D
 Acq On : 09 Oct 2018 09:45
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 Quant Title : VOC Analysis
 QLast Update : Tue Oct 09 05:21:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	36438	51.753	ug/L	94
25) Chloroform	4.67	83	145588	52.442	ug/L	100
27) 1,2-Dichloroethane	5.41	62	117752	52.814	ug/L	99
29) Cyclohexane	5.00	56	142627	52.405	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	115327	53.718	ug/L	99
31) Carbon tetrachloride	5.14	117	97159	53.805	ug/L	100
33) Benzene	5.39	78	313214	53.119	ug/L	100
34) Trichloroethene	6.19	95	71321	50.295	ug/L	99
35) Methylcyclohexane	6.42	83	124390	50.486	ug/L	98
37) 1,2-Dichloropropane	6.43	63	92875	54.366	ug/L	100
38) Bromodichloromethane	6.76	83	104243	53.698	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	122548	48.820	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	282035	112.741	ug/L	98
42) Toluene	7.64	91	308049	52.068	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	112426	48.251	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	72711	53.021	ug/L	99
46) Tetrachloroethene	8.23	164	52772	50.073	ug/L	95
48) 2-Hexanone	8.36	43	219939	111.342	ug/L	98
49) Dibromochloromethane	8.48	129	76702	53.640	ug/L	97
50) 1,2-Dibromoethane	8.59	107	74803	51.415	ug/L	99
51) Chlorobenzene	9.12	112	187517	50.134	ug/L	99
52) Ethylbenzene	9.25	91	336884	51.283	ug/L	99
53) m,p-Xylene	9.38	106	122315	50.871	ug/L	97
54) o-xylene	9.78	106	122558	52.911	ug/L	99
55) Styrene	9.79	104	208685	52.611	ug/L	98
56) Isopropylbenzene	10.17	105	319447	52.625	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	130658	54.378	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	106148	54.882	ug/L	99
61) Bromoform	9.96	173	53783	56.124	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	133637	50.912	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	137239	50.124	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	141006	52.771	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	28304	57.141	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	97100	47.880	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	86016	46.122	ug/L	98
69) Naphthalene	13.74	128	308908	53.717	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	91541	48.268	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 50.928 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

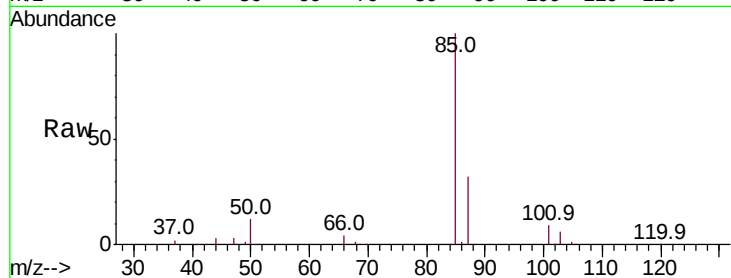
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 98265

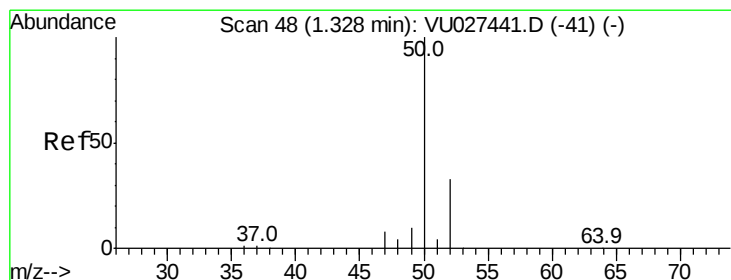
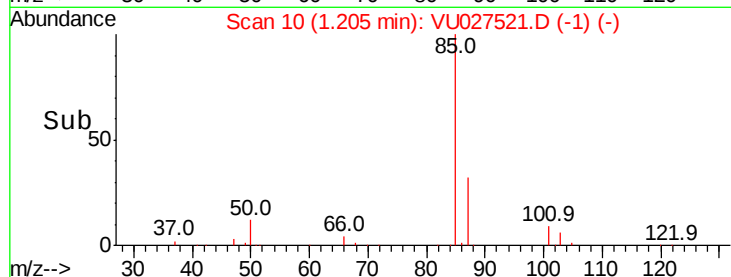
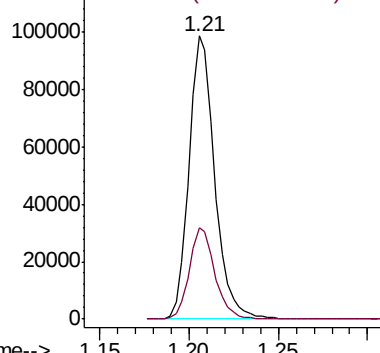
Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 52.123 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027521.D

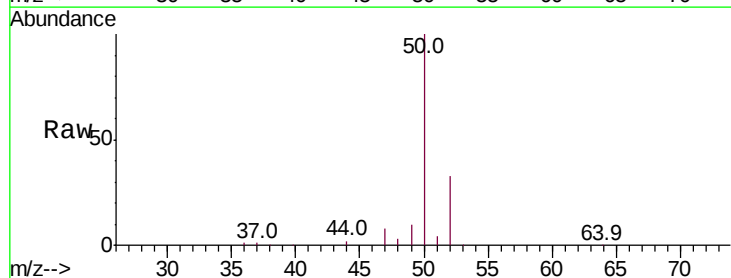
Acq: 09 Oct 2018 09:45

Tgt Ion: 50 Resp: 115563

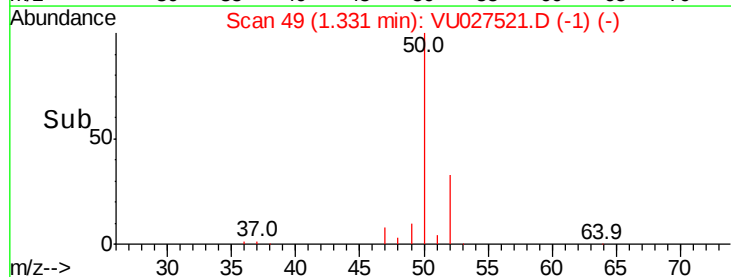
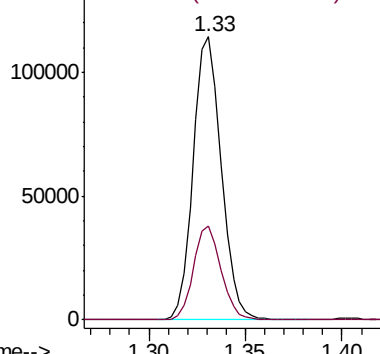
Ion Ratio Lower Upper

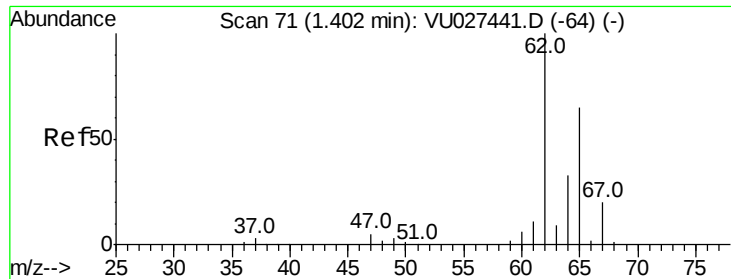
50 100

52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 51.214 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

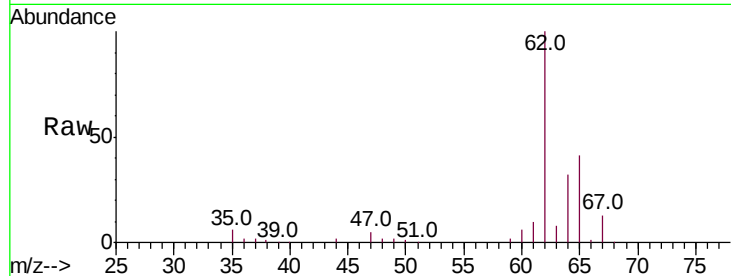
ClientSampleId :

Tot Ion: 62 Resp: 110955

Ion Ratio Lower Upper

62 100

64 32.4 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

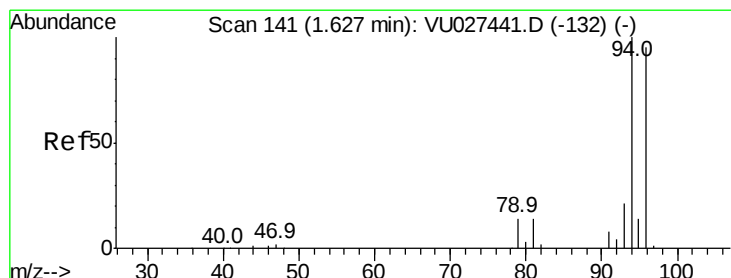
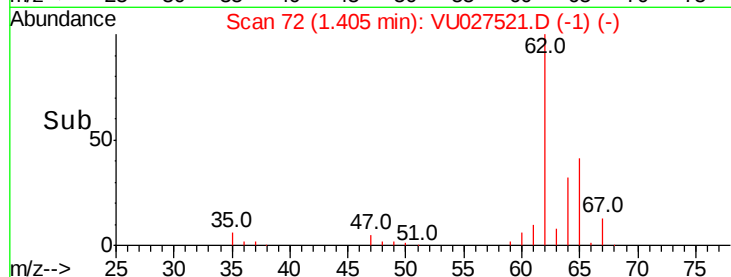
40000

20000

0

1.35 1.40 1.45 1.50

Time-->



#6

Bromomethane

Concen: 48.890 ug/L

RT: 1.62 min Scan# 140

Delta R.T. -0.00 min

Lab File: VU027521.D

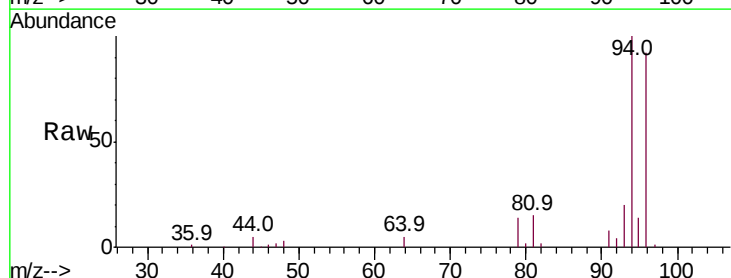
Acq: 09 Oct 2018 09:45

Tgt Ion: 94 Resp: 46288

Ion Ratio Lower Upper

94 100

96 92.2 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

40000

30000

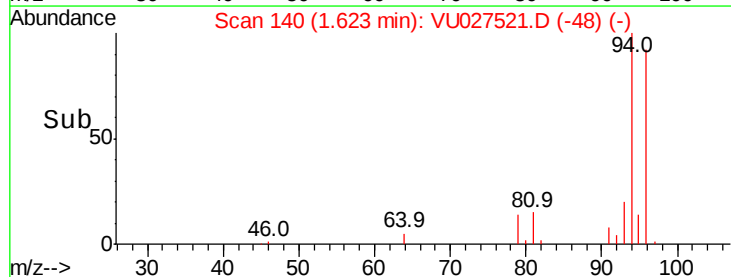
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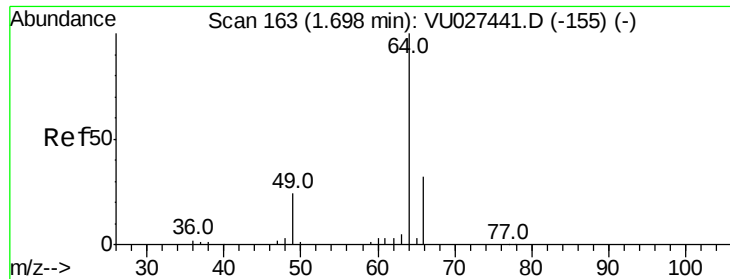
10000

0

1.55 1.60 1.65 1.70

Time-->

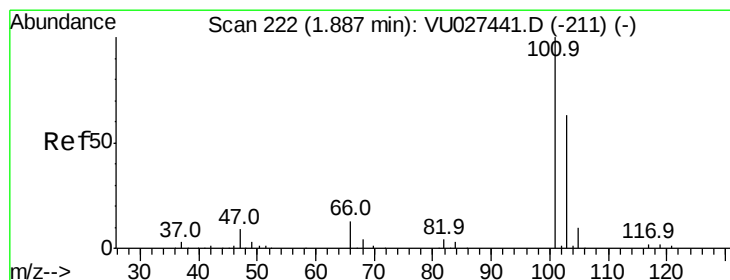
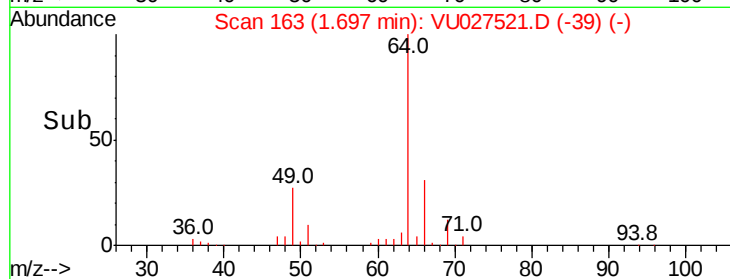
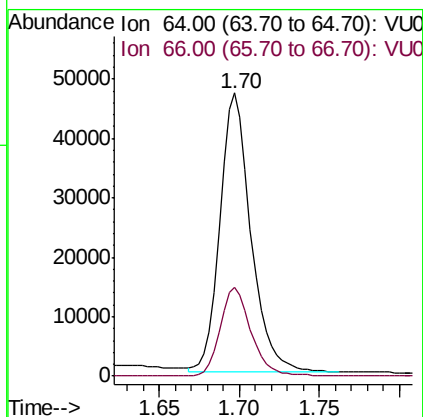
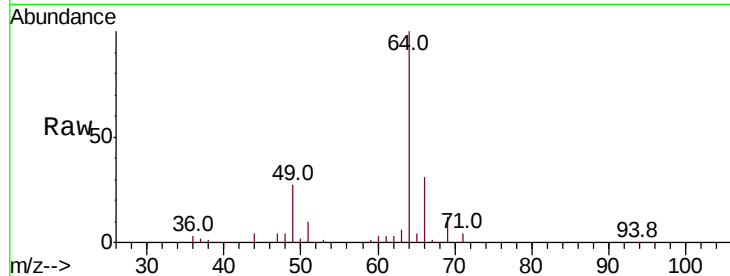




#8
Chloroethane
Concen: 47.767 ug/L
RT: 1.70 min Scan# 163
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

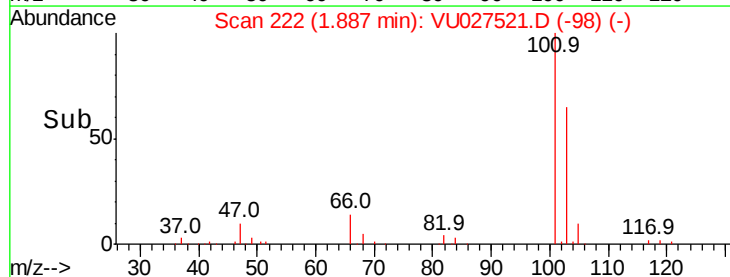
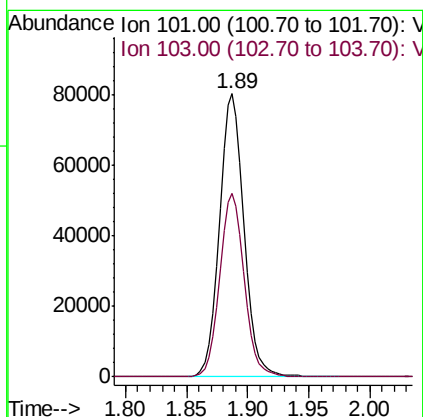
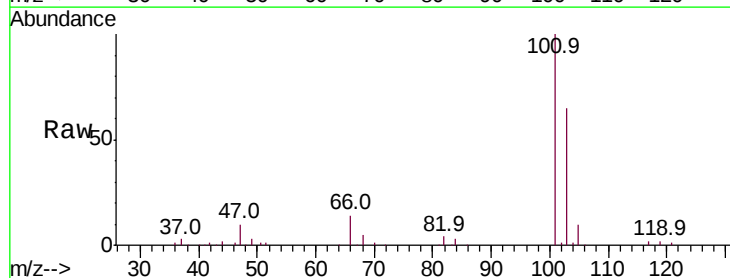
Instrument :
MSVOA_U
ClientSampleId :

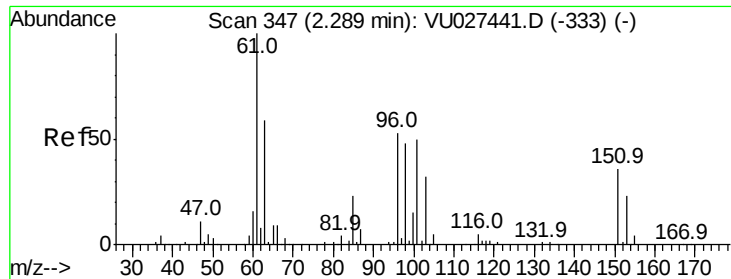
Tot Ion: 64 Resp: 62019
Ion Ratio Lower Upper
64 100
66 31.4 22.0 40.8



#9
Trichlorofluoromethane
Concen: 52.628 ug/L
RT: 1.89 min Scan# 222
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion:101 Resp: 114130
Ion Ratio Lower Upper
101 100
103 65.0 51.1 76.7





#10

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

Concen: 47.555 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

ClientSampled :

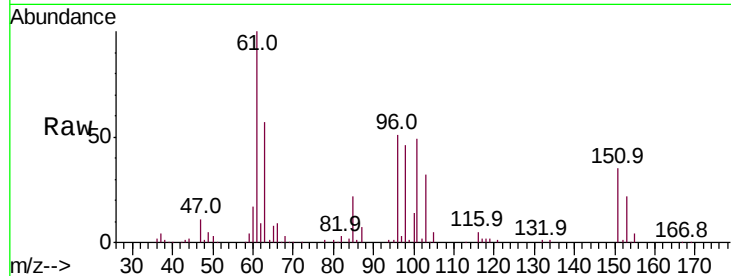
Tot Ion:101 Resp: 61225

Ion Ratio Lower Upper

101 100

85 44.9 35.9 53.9

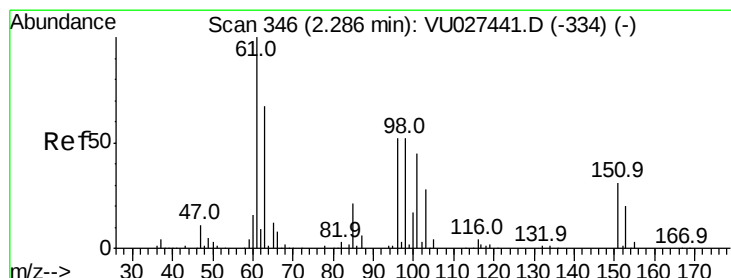
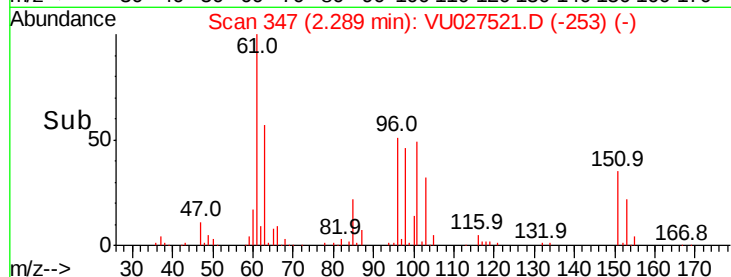
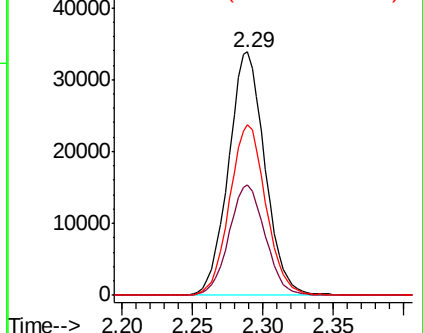
151 69.7 55.7 83.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.780 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

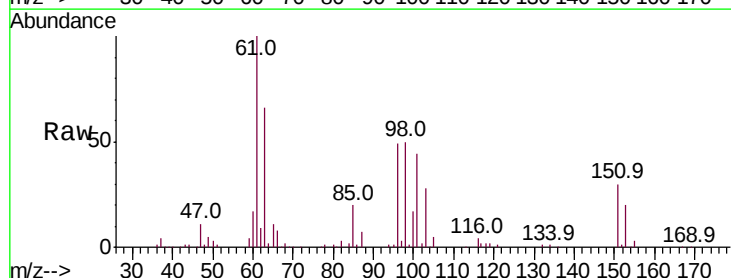
Tgt Ion: 96 Resp: 57537

Ion Ratio Lower Upper

96 100

61 202.8 135.2 251.0

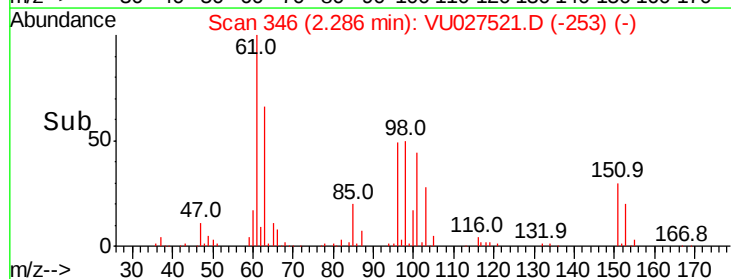
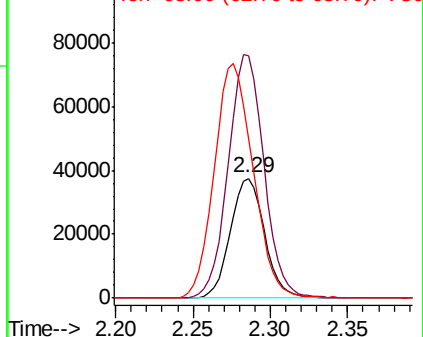
63 133.5 94.3 175.1

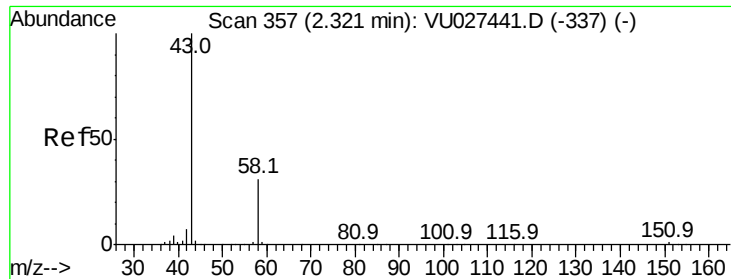


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.388 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

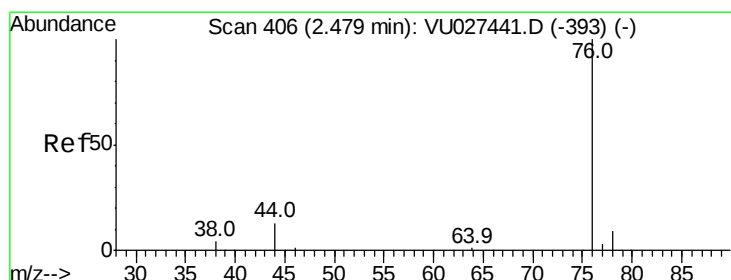
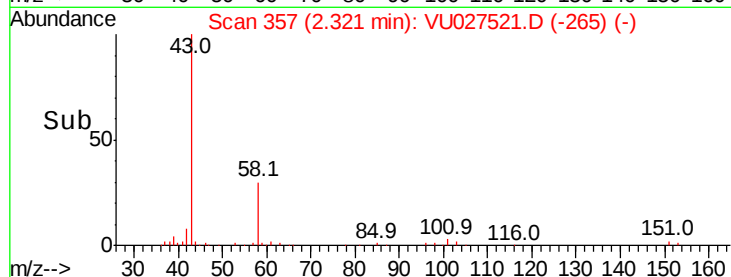
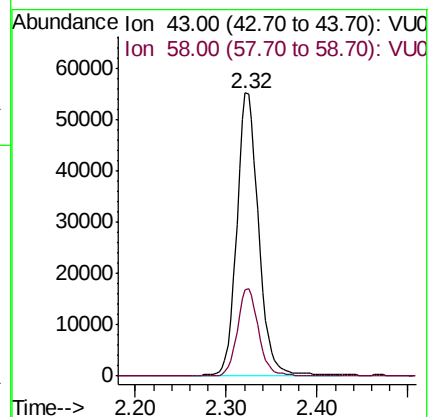
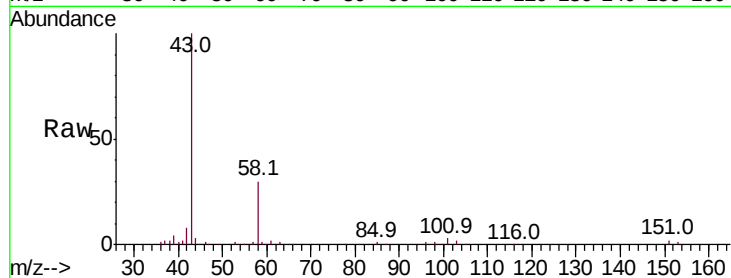
ClientSampleId :

Tot Ion: 43 Resp: 92654

Ion Ratio Lower Upper

43 100

58 29.9 0.0 60.8



#14

Carbon disulfide

Concen: 44.002 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027521.D

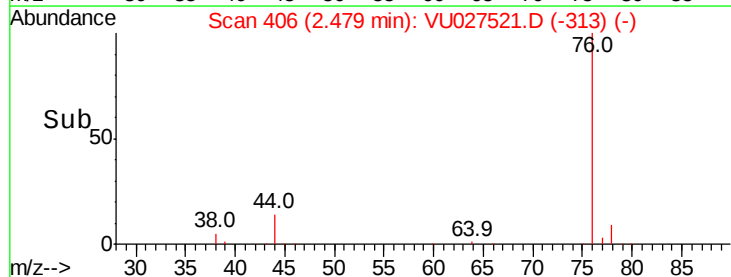
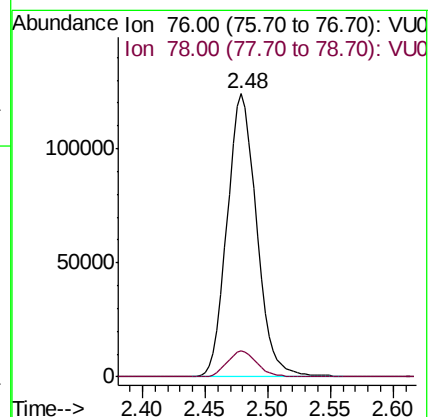
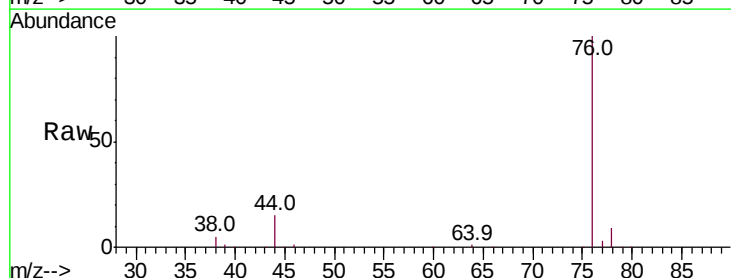
Acq: 09 Oct 2018 09:45

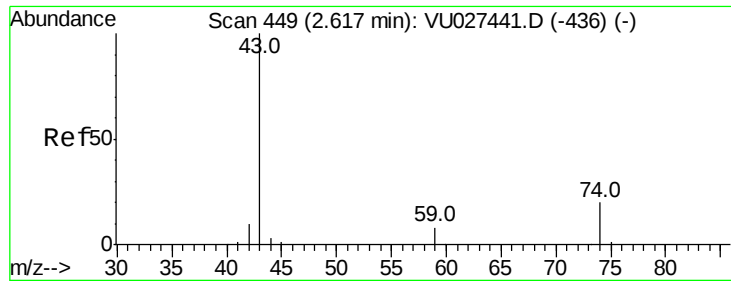
Tgt Ion: 76 Resp: 203143

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

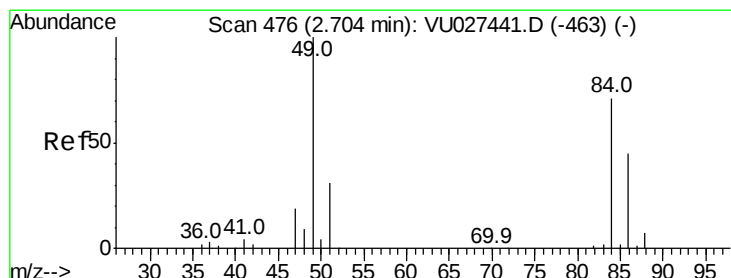
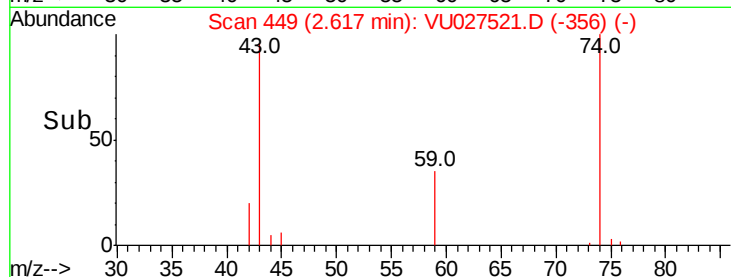
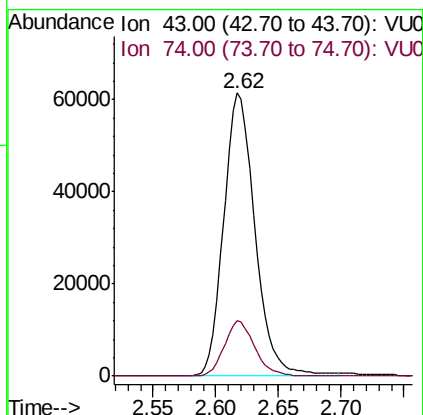
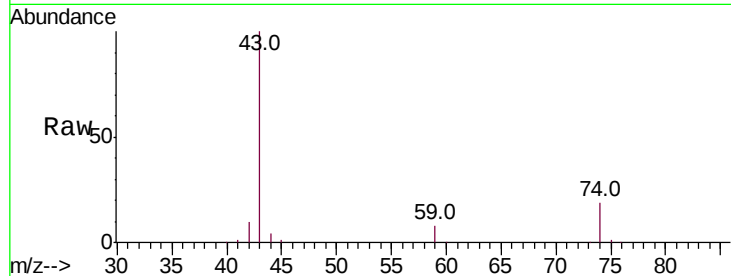




#15
Methyl Acetate
Concen: 52.468 ug/L
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

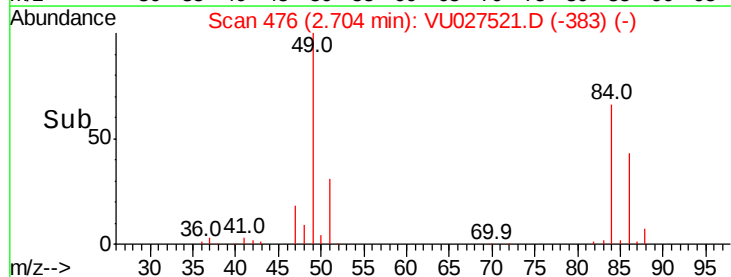
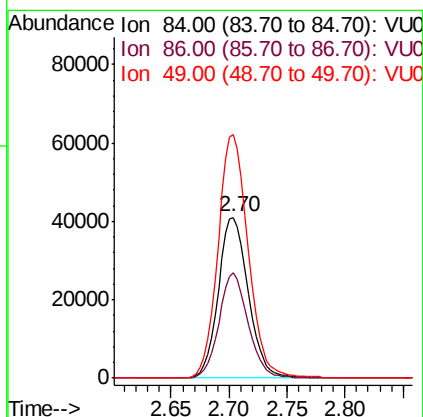
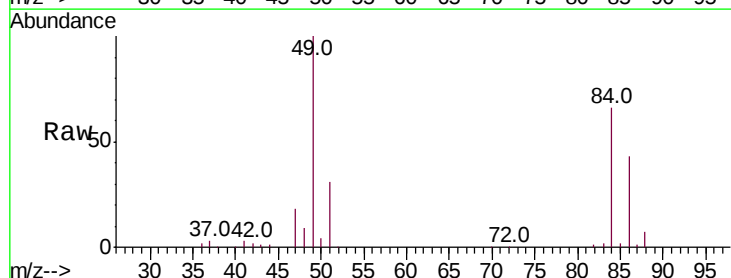
Instrument :
MSVOA_U
ClientSampleId :

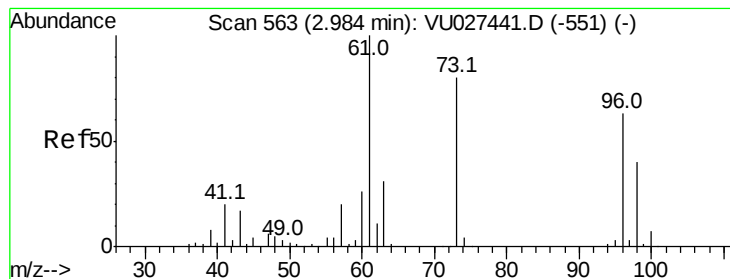
Tot Ion: 43 Resp: 106595
Ion Ratio Lower Upper
43 100
74 19.0 16.0 24.0



#16
Methylene chloride
Concen: 48.462 ug/L
RT: 2.70 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion: 84 Resp: 73976
Ion Ratio Lower Upper
84 100
86 65.2 44.6 82.8
49 151.3 98.3 182.5





#17

trans-1,2-Dichloroethene

Concen: 45.249 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :
MSVOA_U
ClientSampleId :

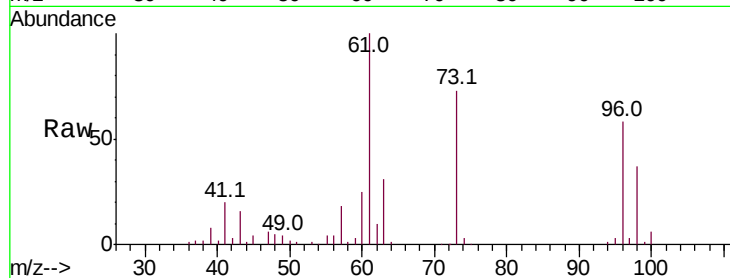
Tot Ion: 96 Resp: 62976

Ion Ratio Lower Upper

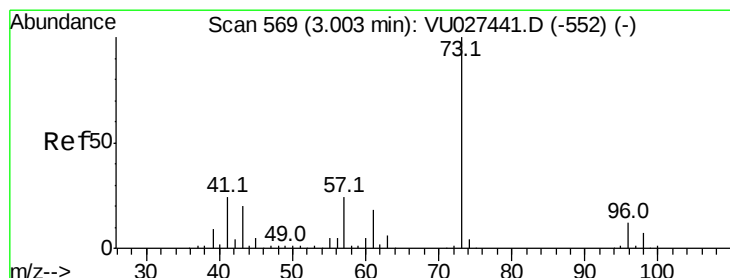
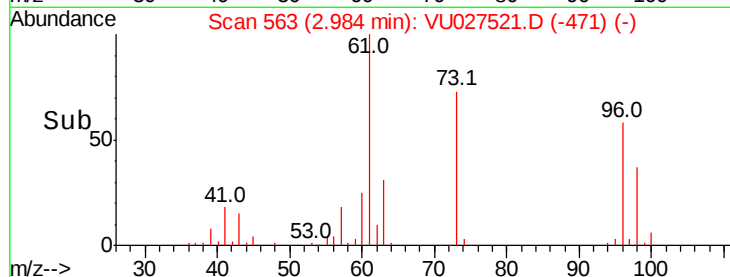
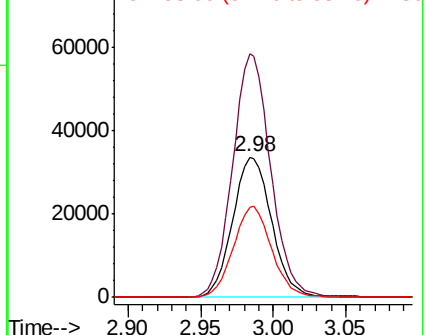
96 100

61 173.8 110.9 205.9

98 64.4 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 50.467 ug/L

RT: 3.00 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

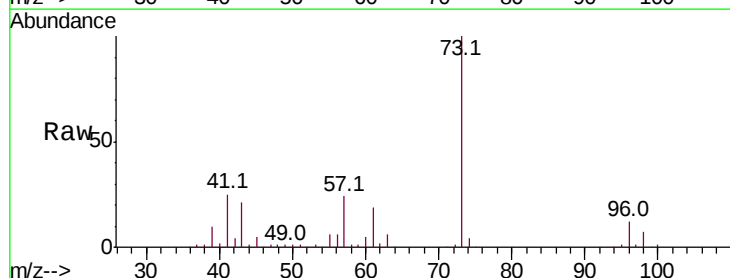
Tgt Ion: 73 Resp: 233536

Ion Ratio Lower Upper

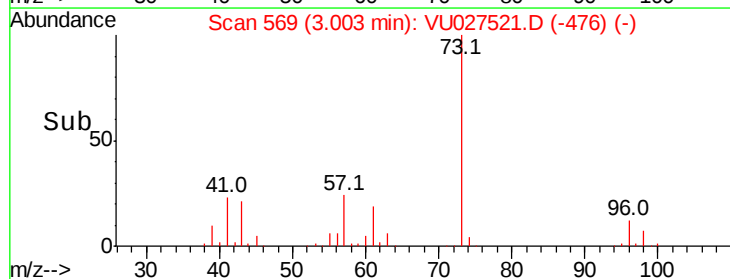
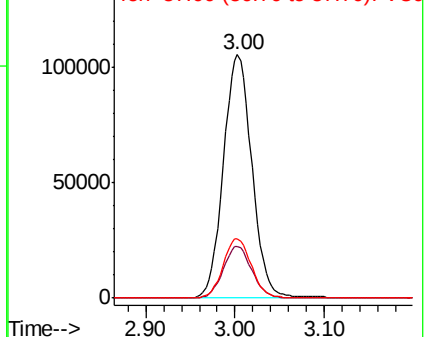
73 100

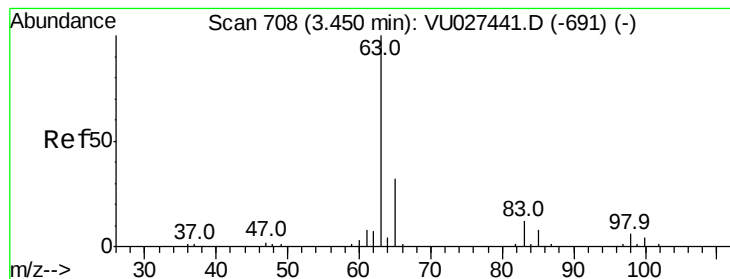
43 21.4 16.5 24.7

57 24.0 19.4 29.0



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 50.964 ug/L

RT: 3.45 min Scan# 708

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

ClientSampleId :

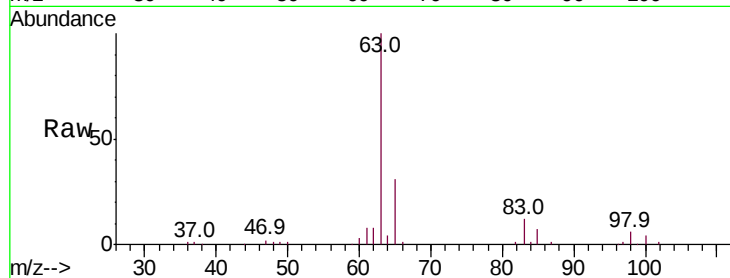
Tot Ion: 63 Resp: 146462

Ion Ratio Lower Upper

63 100

65 31.5 22.3 41.3

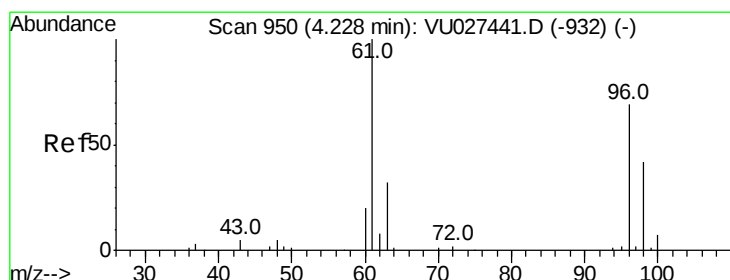
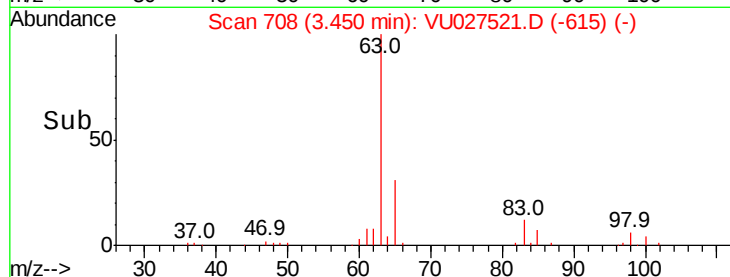
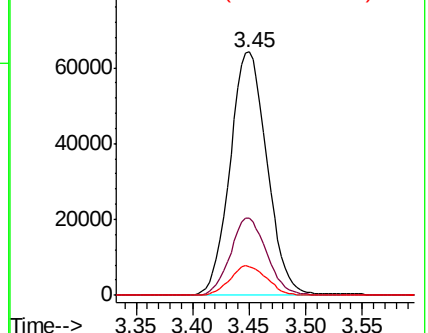
83 12.0 8.4 15.6



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 49.733 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

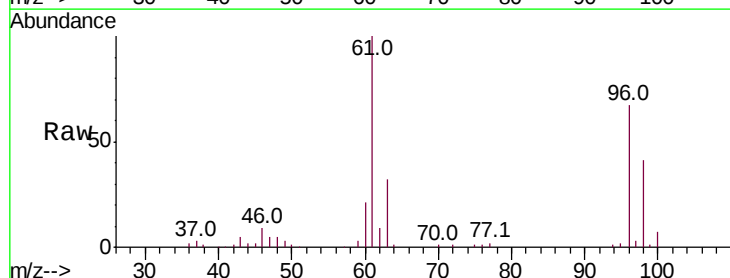
Tgt Ion: 96 Resp: 76783

Ion Ratio Lower Upper

96 100

61 150.0 102.0 189.4

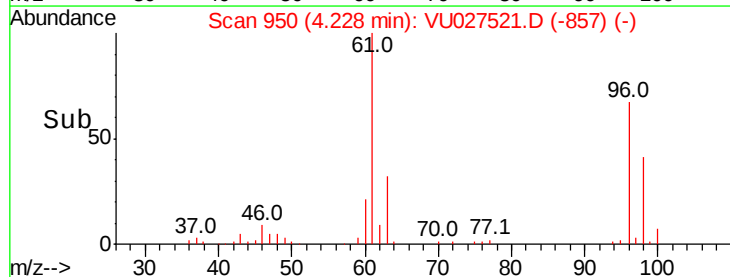
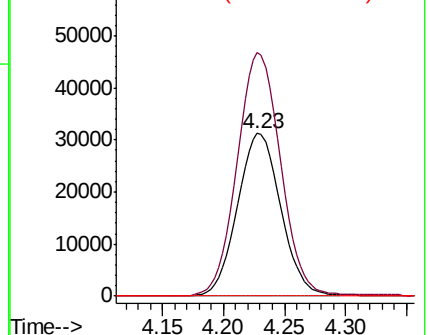
68 0.0 0.0 0.0

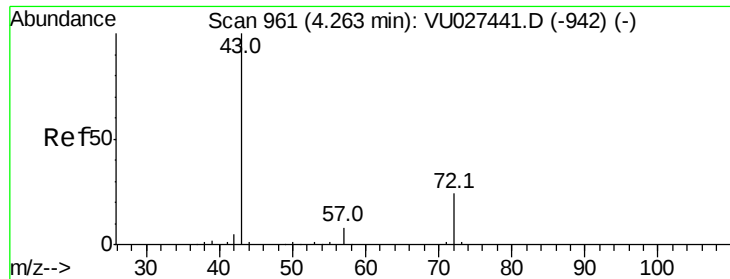


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 102.853 ug/L

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

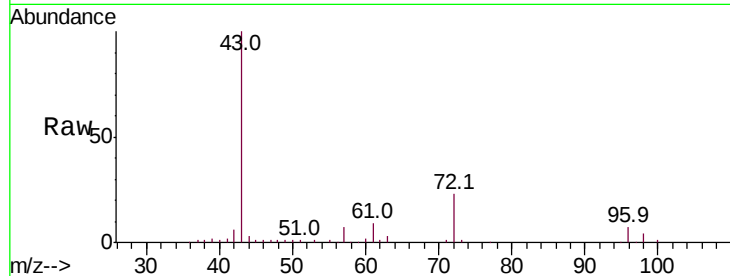
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 149270

Ion Ratio Lower Upper

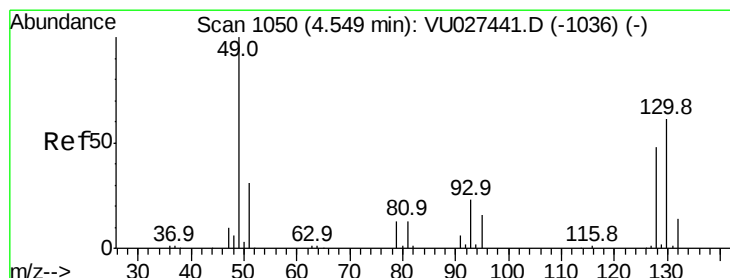
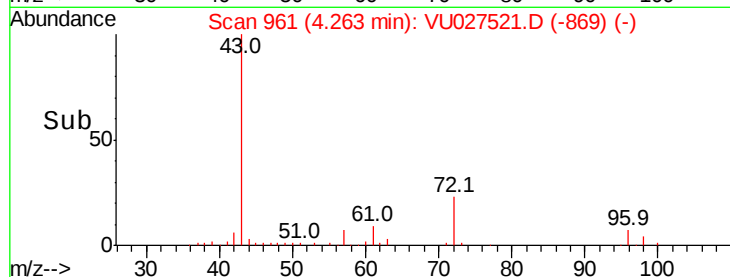
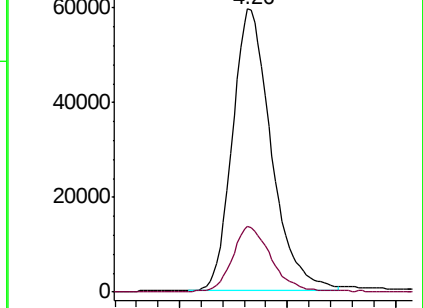
43 100

72 23.4 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU027441.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU027441.D (-942) (-)



#23

Bromochloromethane

Concen: 51.753 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Tgt Ion:128 Resp: 36438

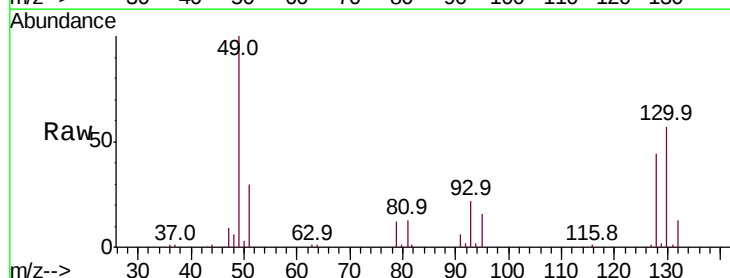
Ion Ratio Lower Upper

128 100

49 225.9 146.9 272.7

130 128.9 89.2 165.6

51 68.6 52.2 78.4

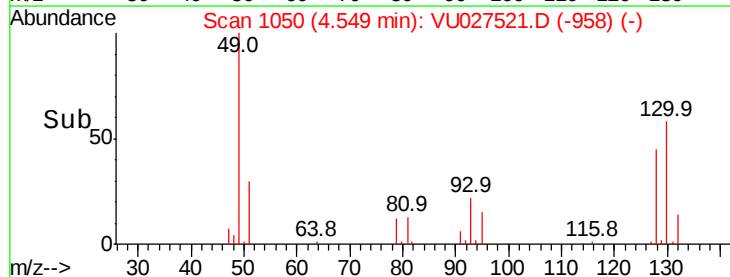
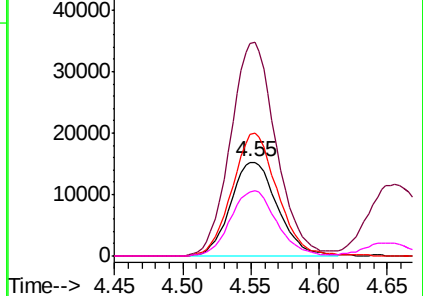


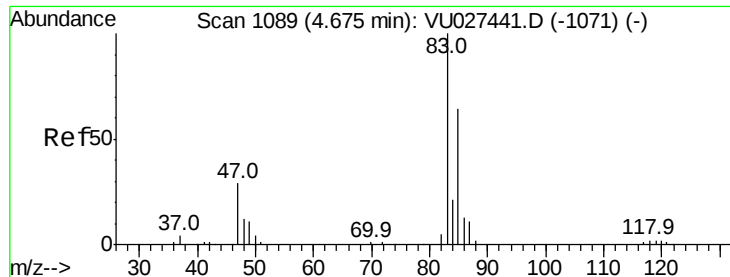
Abundance Ion 128.00 (127.70 to 128.70): VU027441.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU027441.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU027441.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU027441.D (-1036) (-)

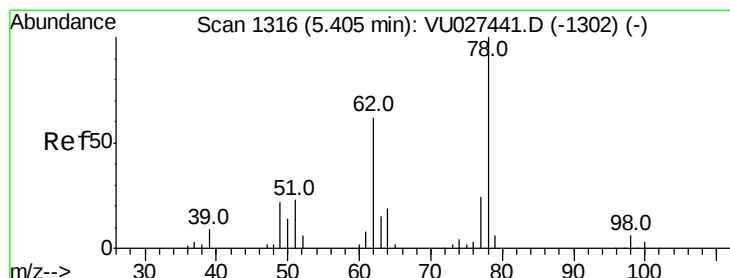
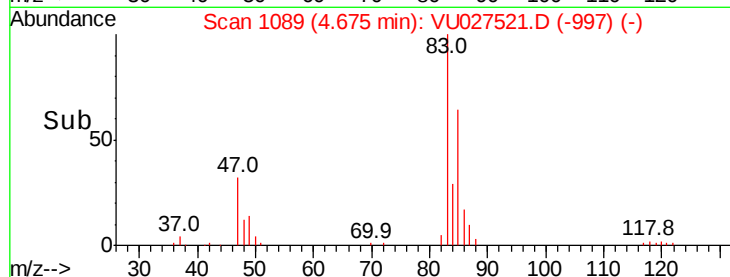
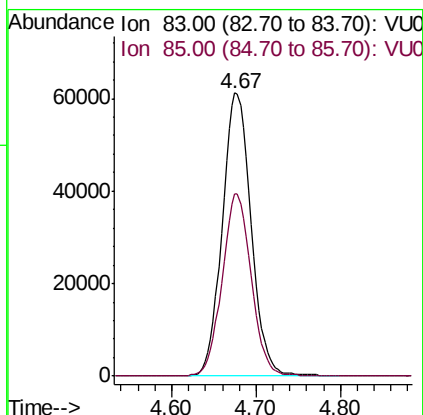
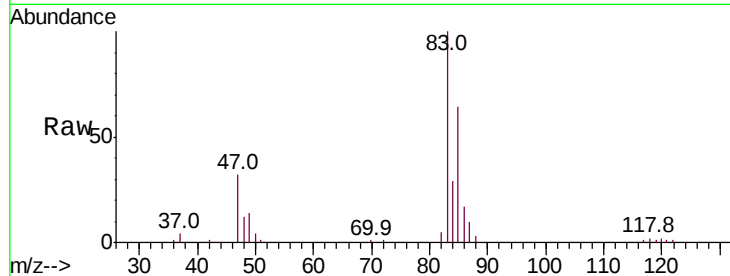




#25
Chloroform
Concen: 52.442 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

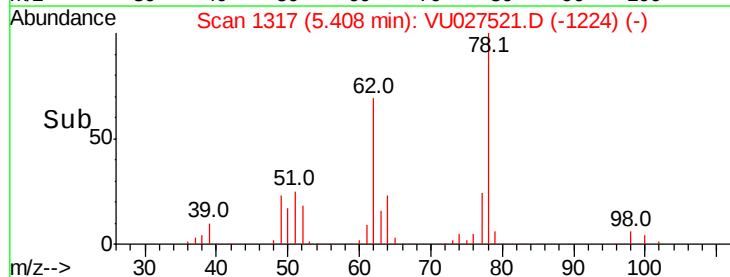
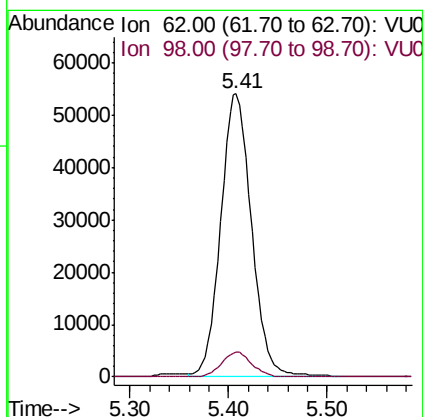
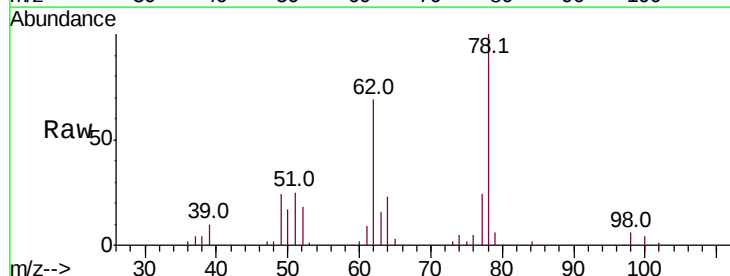
Instrument :
MSVOA_U
ClientSampleId :

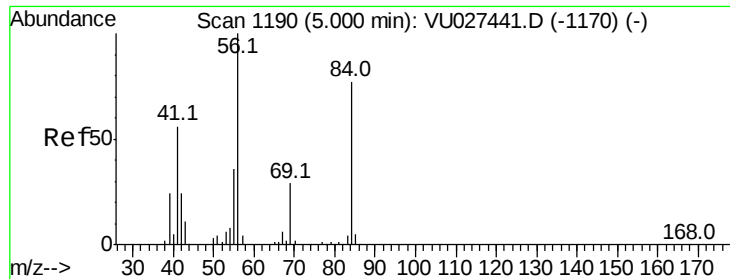
Tot Ion: 83 Resp: 145588
Ion Ratio Lower Upper
83 100
85 64.4 45.0 83.6



#27
1,2-Dichloroethane
Concen: 52.814 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion: 62 Resp: 117752
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7

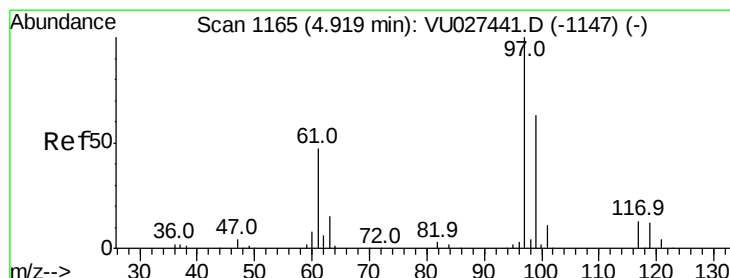
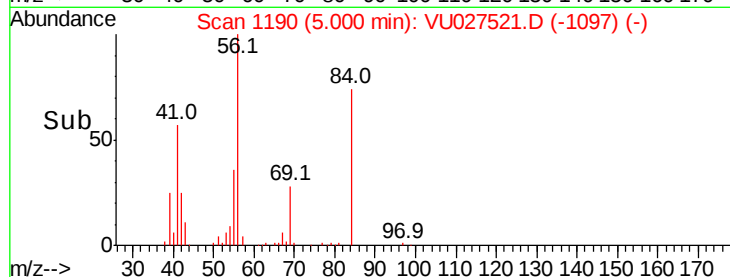
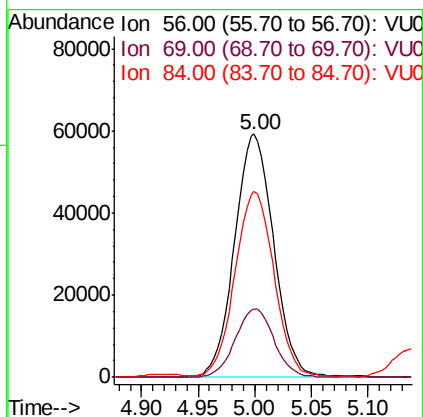
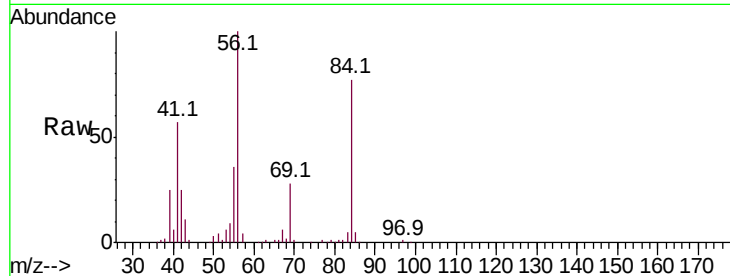




#29
Cyclohexane
Concen: 52.405 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

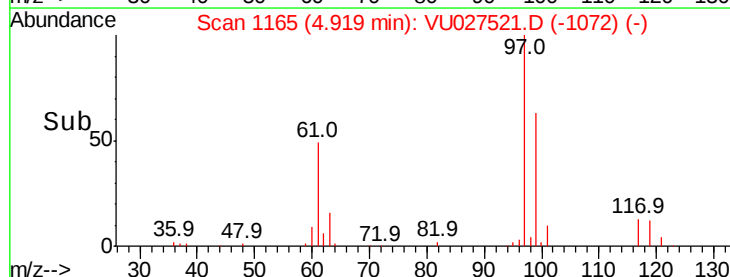
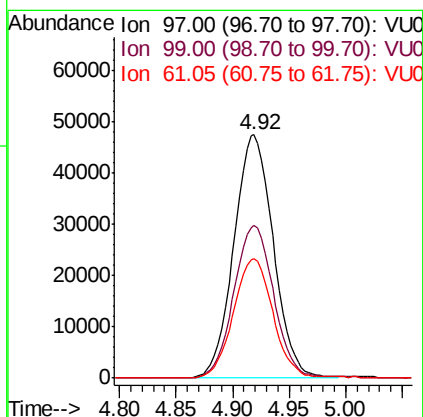
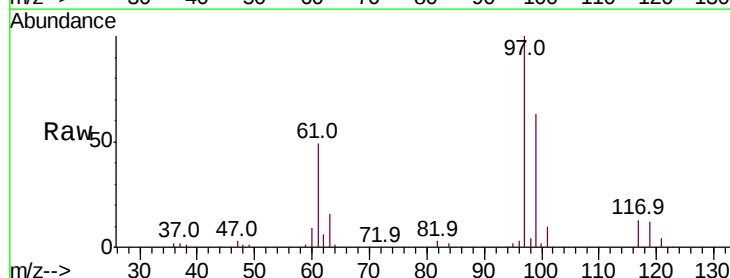
Instrument :
MSVOA_U
ClientSampleId :

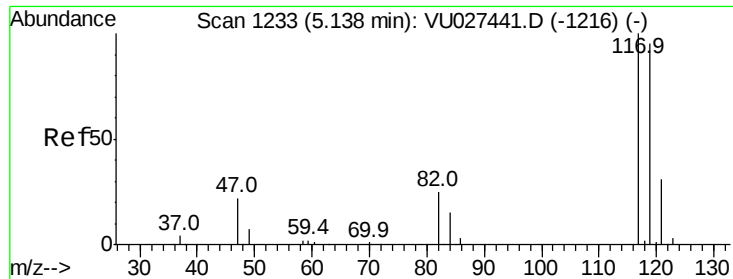
Tot Ion	Ratio	Lower	Upper
56	100		
69	28.1	22.5	33.7
84	75.4	60.9	91.3



#30
1,1,1-Trichloroethane
Concen: 53.718 ug/L
RT: 4.92 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.9	76.3
61	49.0	38.2	57.4

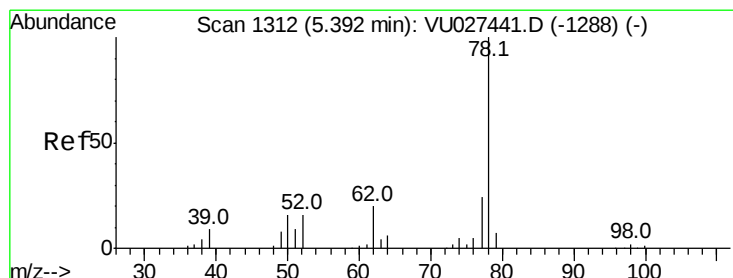
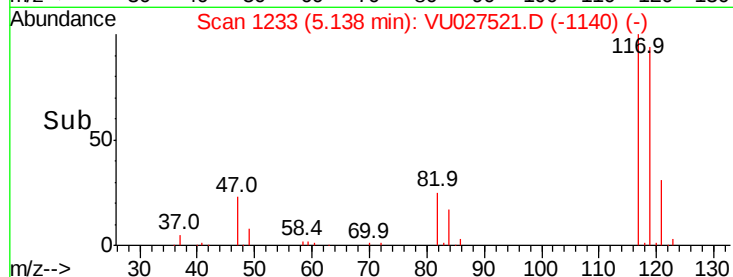
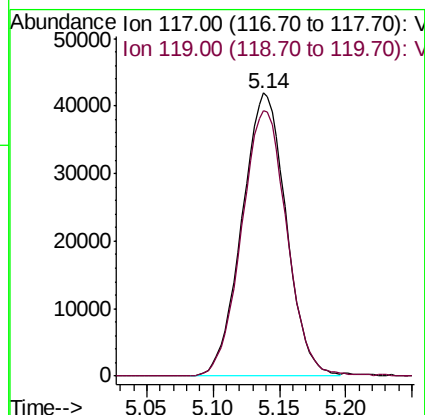
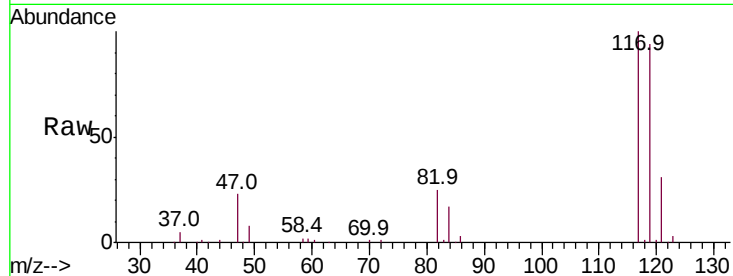




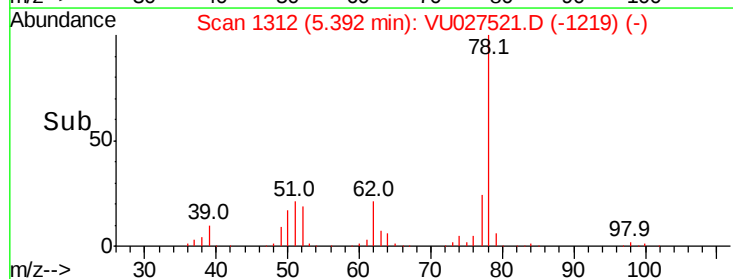
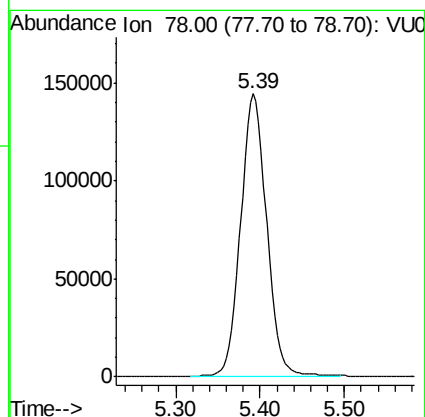
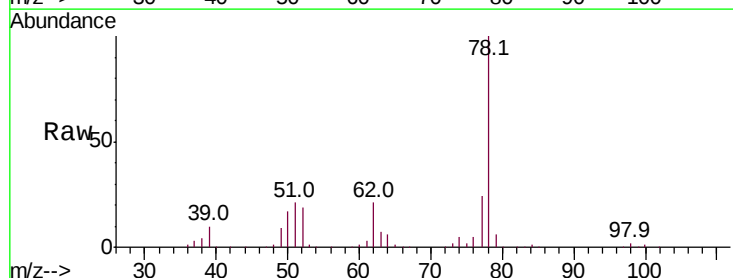
#31
Carbon tetrachloride
Concen: 53.805 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

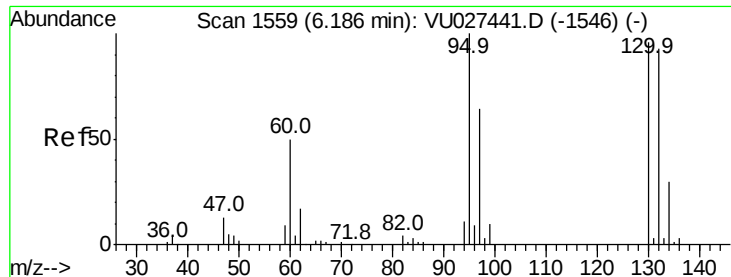
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 97159
Ion Ratio Lower Upper
117 100
119 96.2 76.8 115.2



#33
Benzene
Concen: 53.119 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45
Tgt Ion: 78 Resp: 313214





#34

Trichloroethene

Concen: 50.295 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 71321

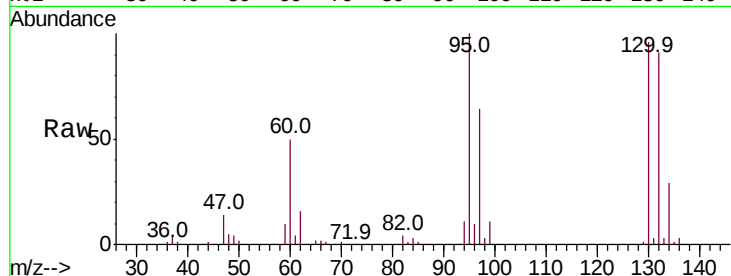
Ion Ratio Lower Upper

95 100

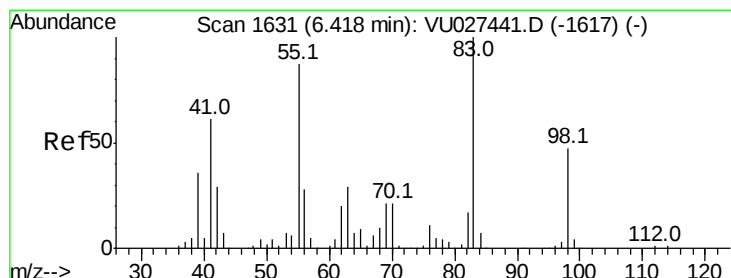
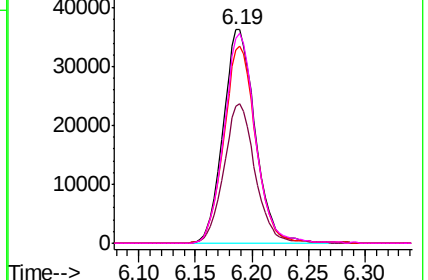
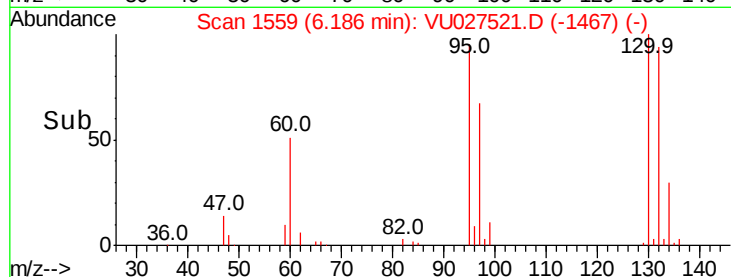
97 64.0 44.9 83.3

132 90.7 64.8 120.4

130 96.2 67.1 124.7



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 50.486 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

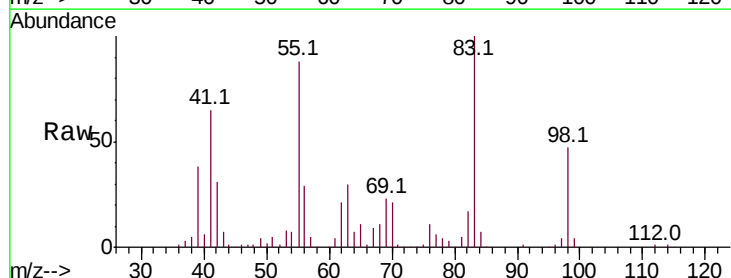
Tgt Ion: 83 Resp: 124390

Ion Ratio Lower Upper

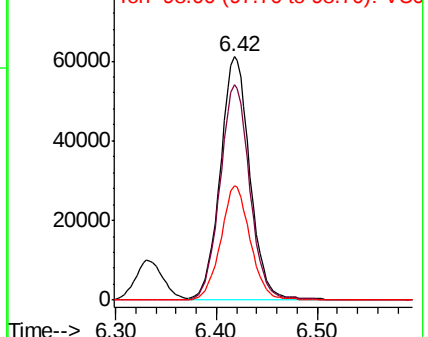
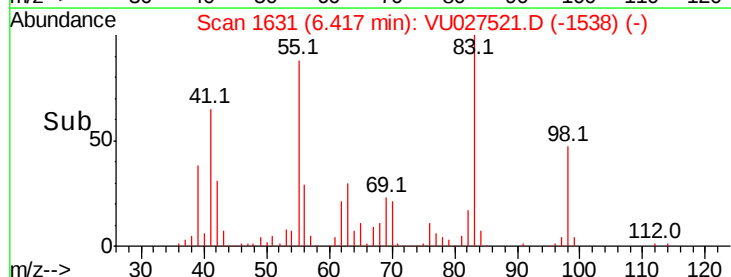
83 100

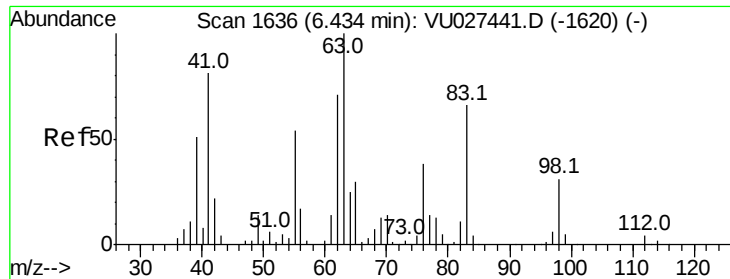
55 89.3 69.9 104.9

98 47.0 37.1 55.7



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

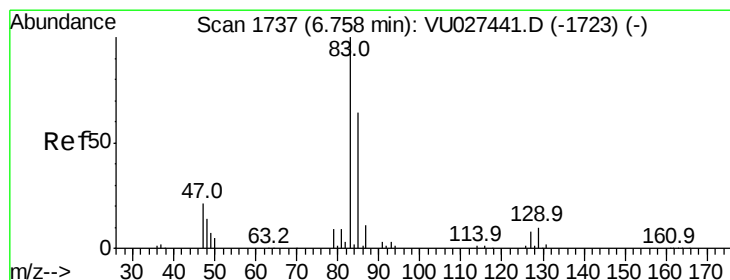
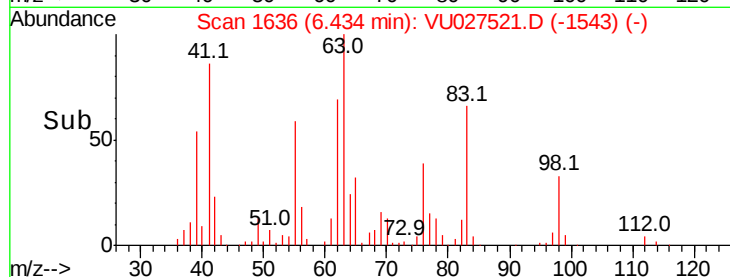
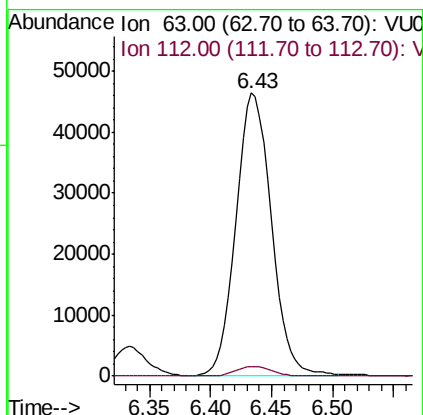
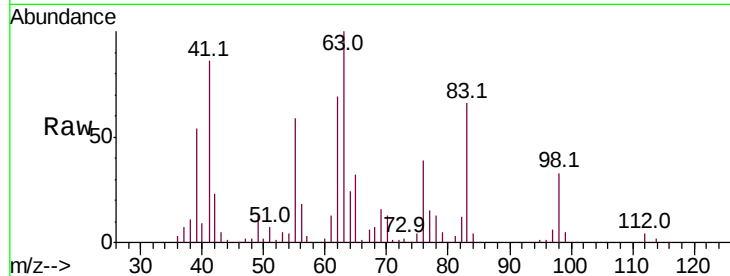




#37
 1,2-Dichloropropane
 Concen: 54.366 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

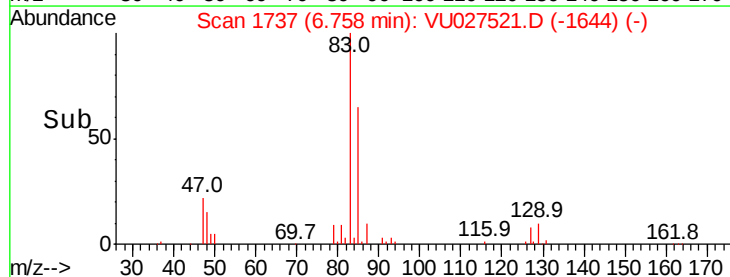
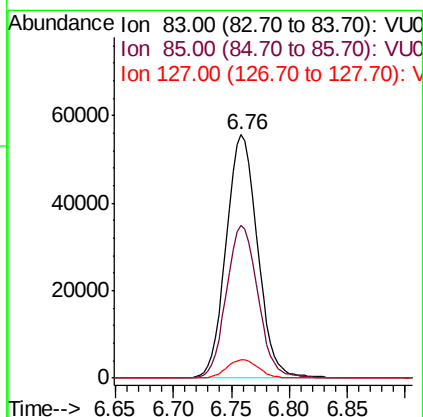
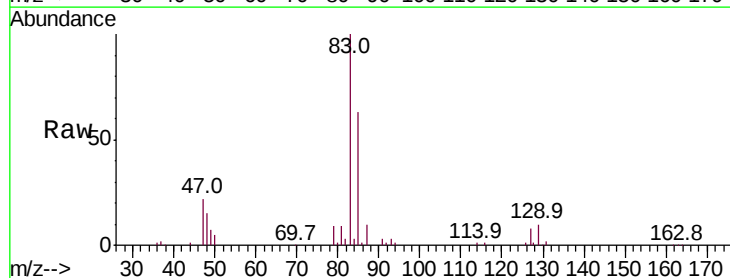
Instrument :
 MSVOA_U
 ClientSampleId :

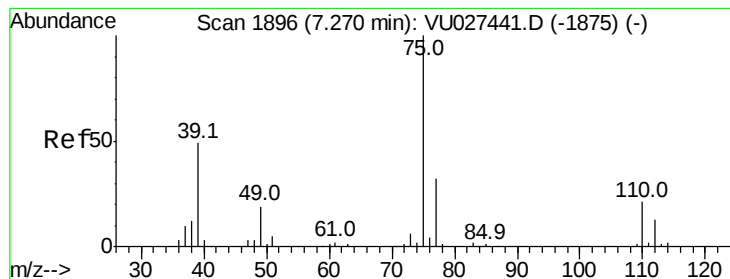
Tot Ion: 63 Resp: 92875
 Ion Ratio Lower Upper
 63 100
 112 3.5 2.9 4.3



#38
 Bromodichloromethane
 Concen: 53.698 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Tgt Ion: 83 Resp: 104243
 Ion Ratio Lower Upper
 83 100
 85 62.9 45.1 83.7
 127 7.5 6.3 9.5



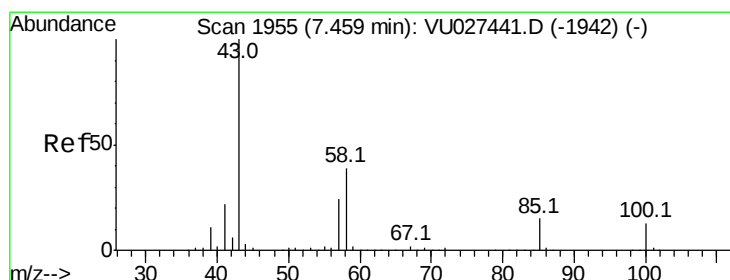
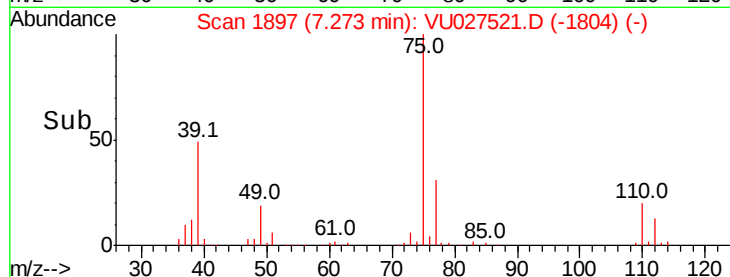
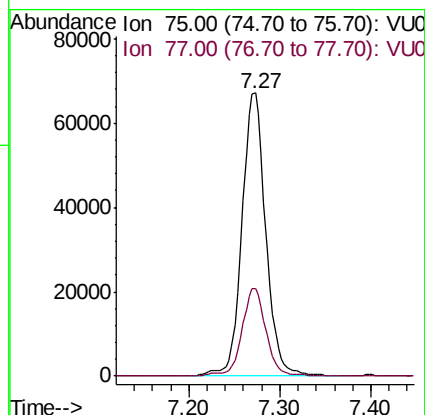
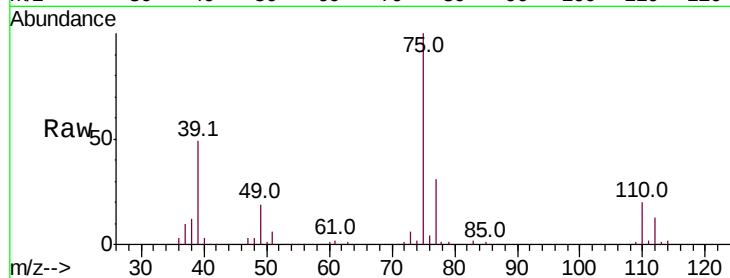


#39

cis-1,3-Dichloropropene
Concen: 48.820 ug/L
RT: 7.27 min Scan# 1897
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Instrument :
MSVOA_U
ClientSampleId :

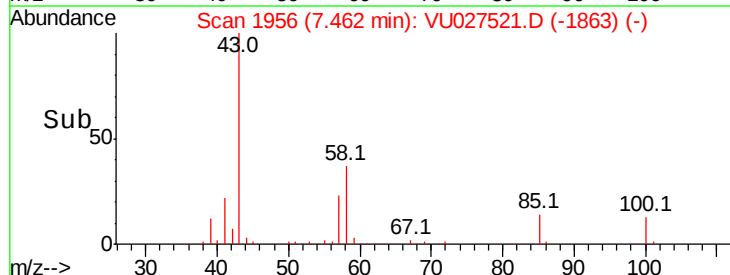
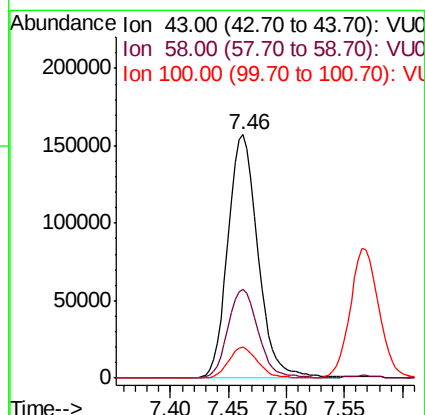
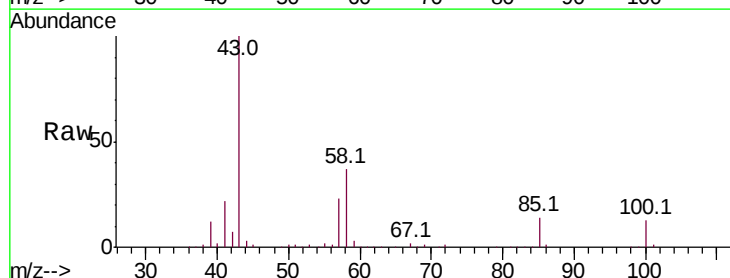
Tot Ion: 75 Resp: 122548
Ion Ratio Lower Upper
75 100
77 31.0 22.1 41.1

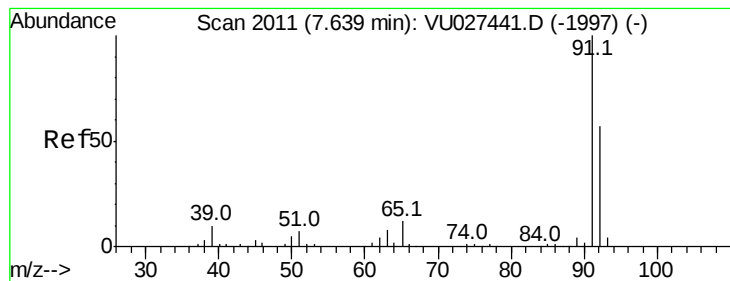


#40

4-Methyl-2-pentanone
Concen: 112.741 ug/L
RT: 7.46 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion: 43 Resp: 282035
Ion Ratio Lower Upper
43 100
58 36.7 30.7 46.1
100 12.3 10.2 15.4





#42

Toluene

Concen: 52.068 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

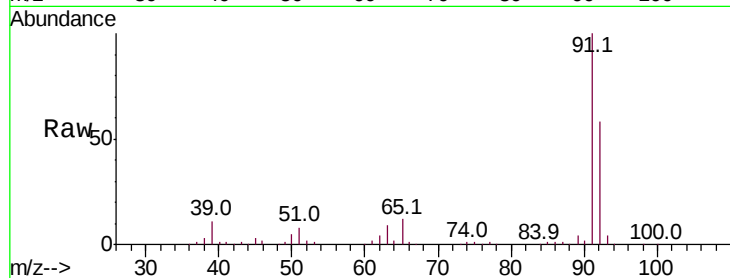
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 308049

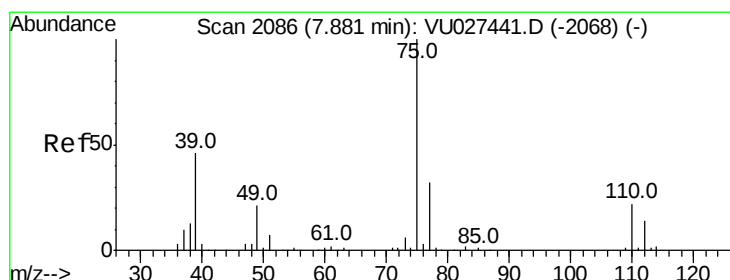
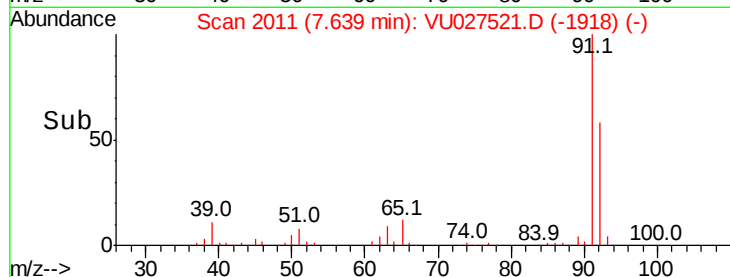
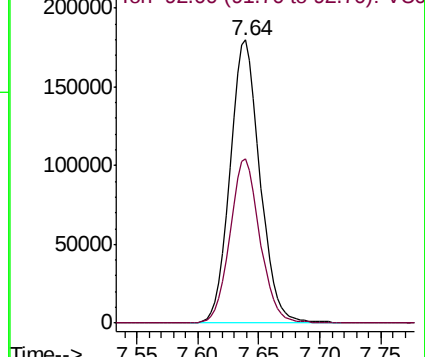
Ion Ratio Lower Upper

91 100

92 58.0 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 48.251 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027521.D

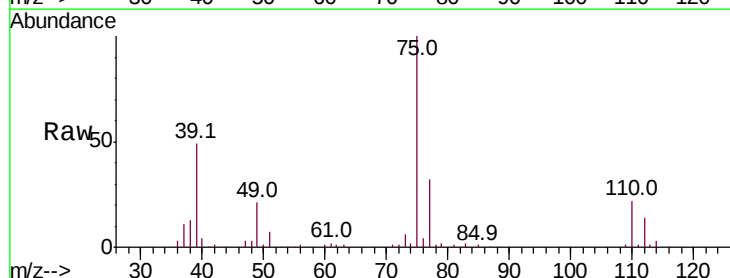
Acq: 09 Oct 2018 09:45

Tgt Ion: 75 Resp: 112426

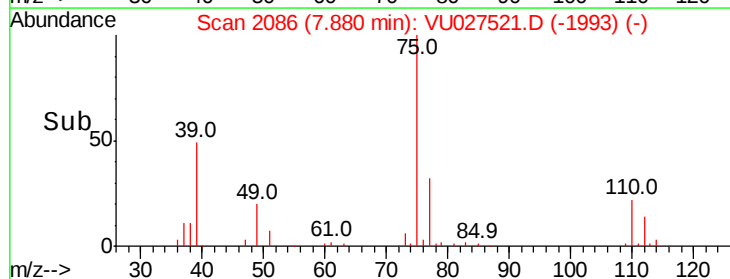
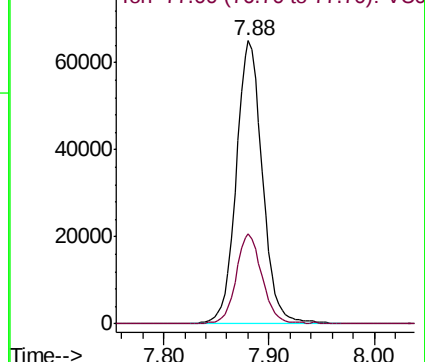
Ion Ratio Lower Upper

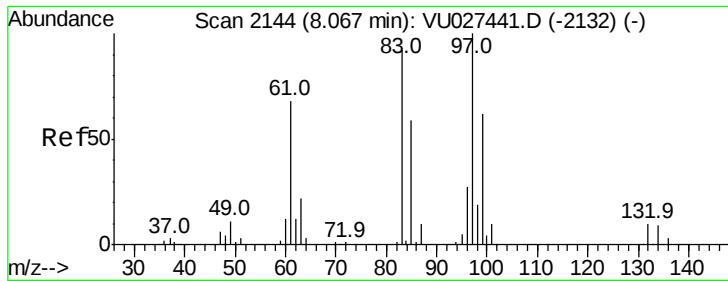
75 100

77 31.8 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

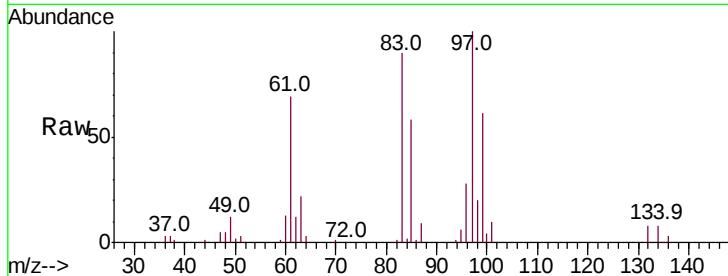




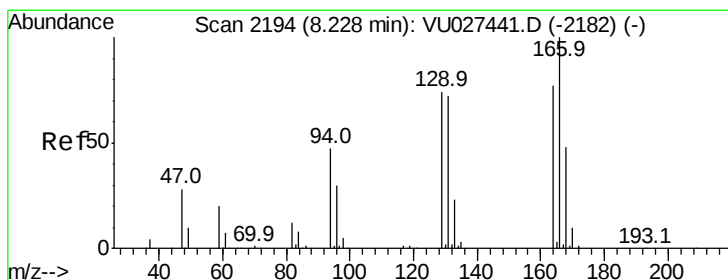
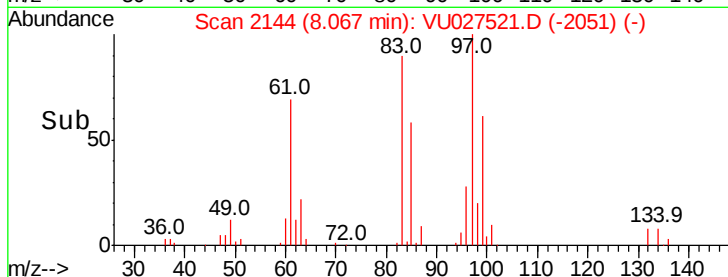
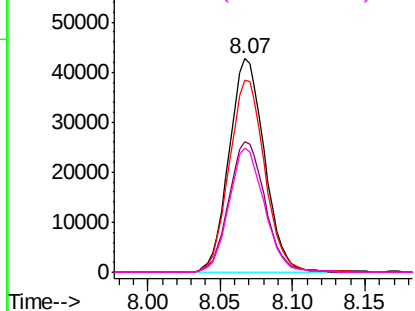
#45
1,1,2-Trichloroethane
Concen: 53.021 ug/L
RT: 8.07 min Scan# 2144
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 72711
Ion Ratio Lower Upper
97 100
99 61.0 43.2 80.2
83 90.0 64.3 119.5
85 58.4 41.0 76.2

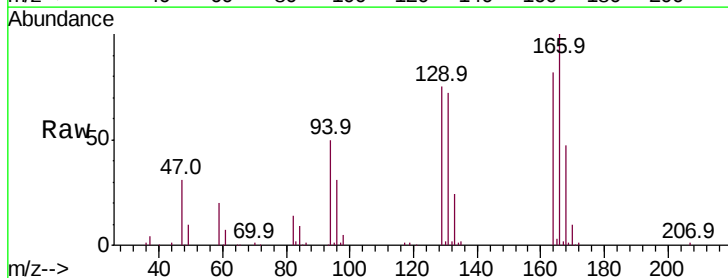


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

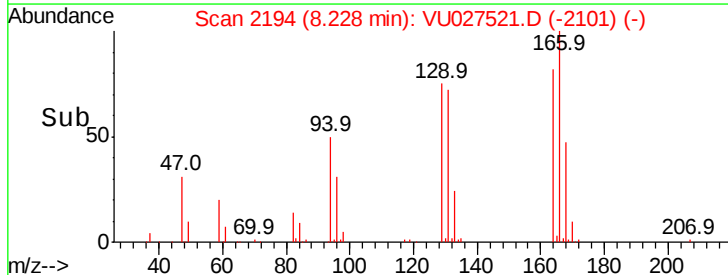
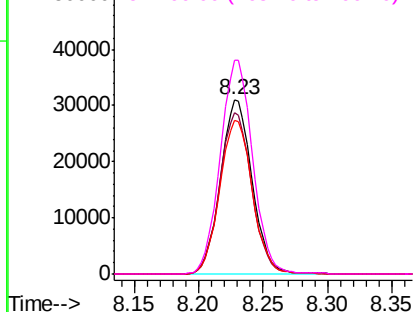


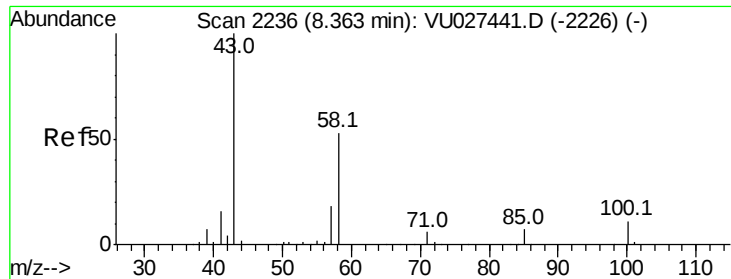
#46
Tetrachloroethene
Concen: 50.073 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion:164 Resp: 52772
Ion Ratio Lower Upper
164 100
129 92.3 67.0 124.4
131 88.2 65.1 120.9
166 122.6 90.4 167.8



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

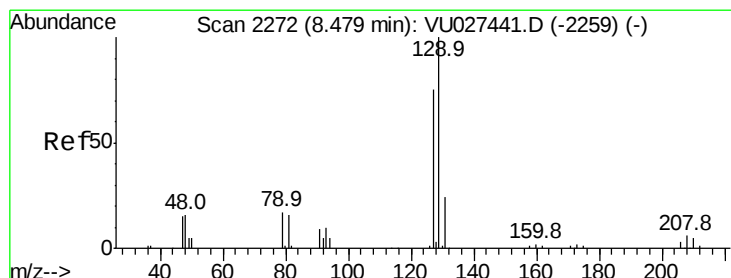
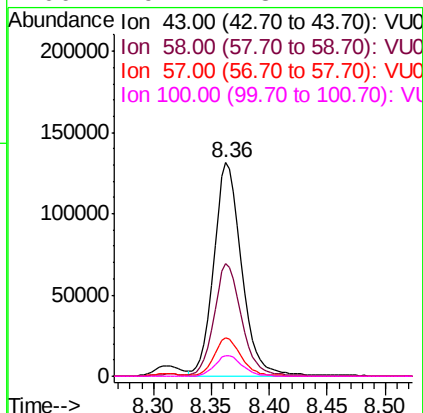
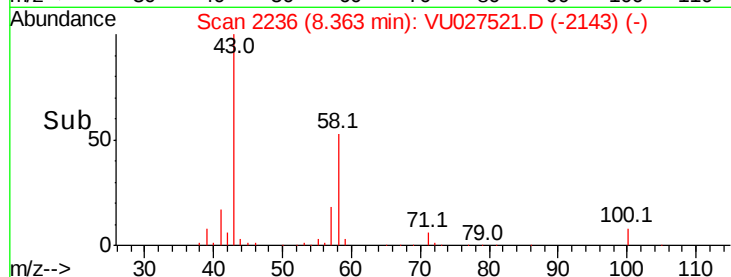
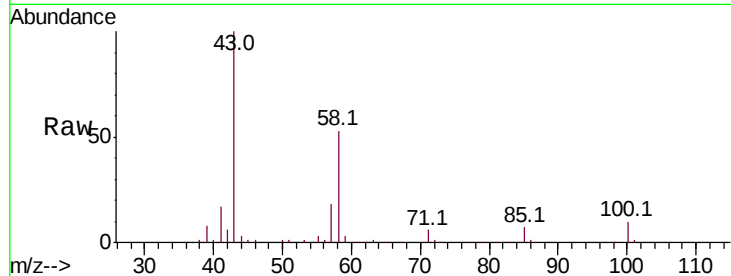




#48
2-Hexanone
Concen: 111.342 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

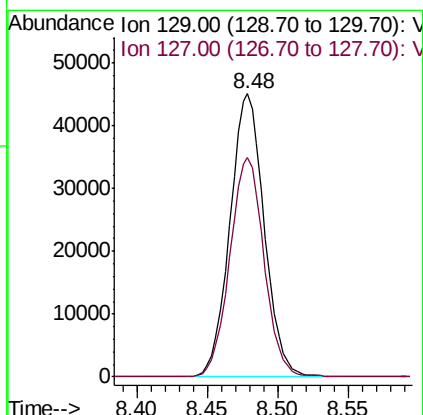
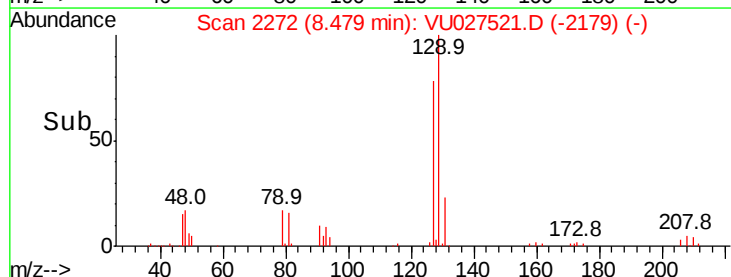
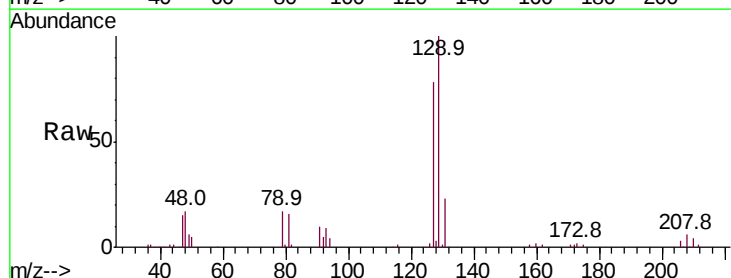
Instrument :
MSVOA_U
ClientSampleId :

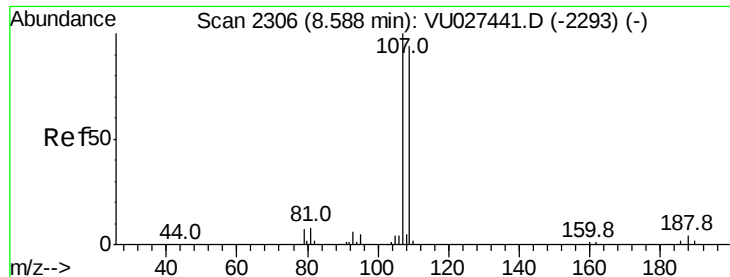
Tot Ion: 43 Resp: 219939
Ion Ratio Lower Upper
43 100
58 52.1 42.7 64.1
57 17.4 14.5 21.7
100 9.7 8.2 12.2



#49
Dibromochloromethane
Concen: 53.640 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion: 129 Resp: 76702
Ion Ratio Lower Upper
129 100
127 77.6 52.7 97.9

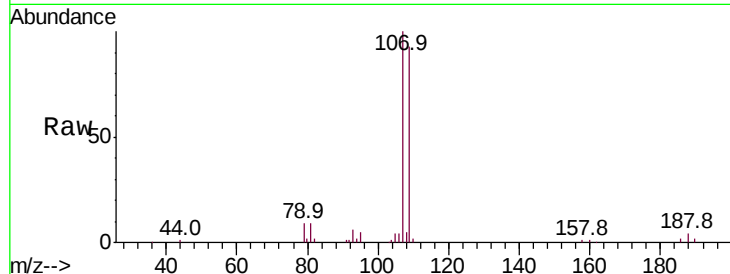




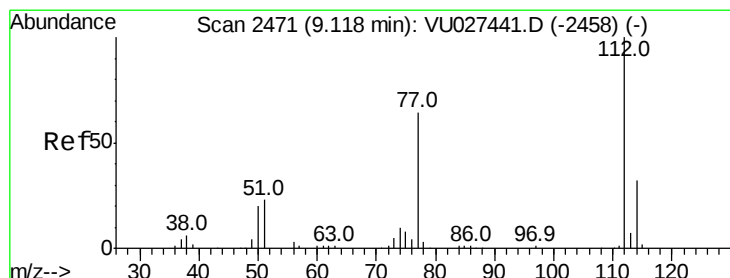
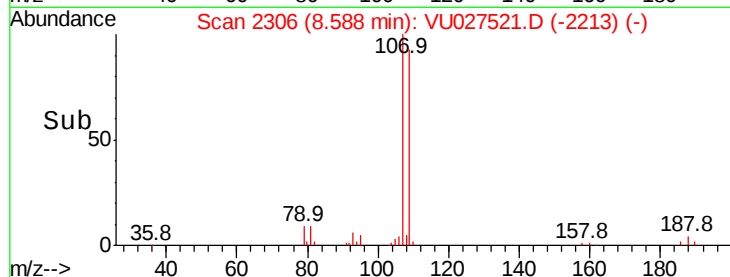
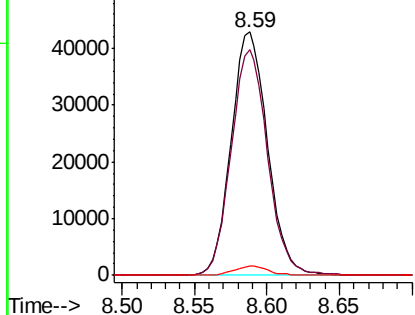
#50
 1,2-Dibromoethane
 Concen: 51.415 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 74803
 Ion Ratio Lower Upper
 107 100
 109 93.0 65.5 121.6
 188 4.0 3.0 4.6

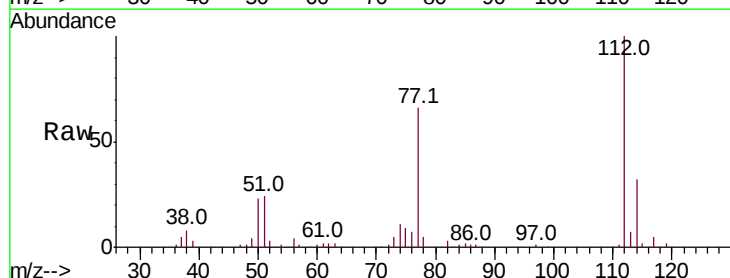


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

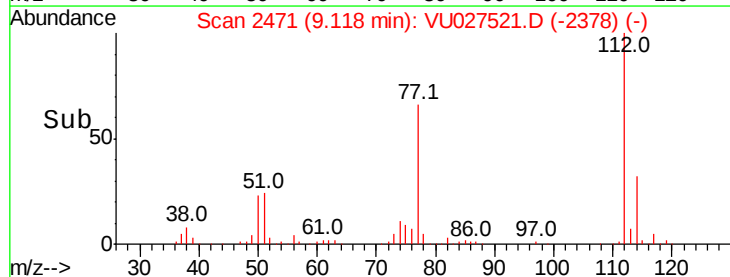
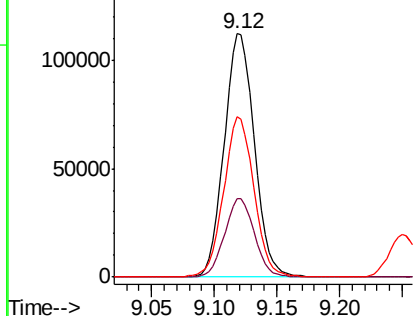


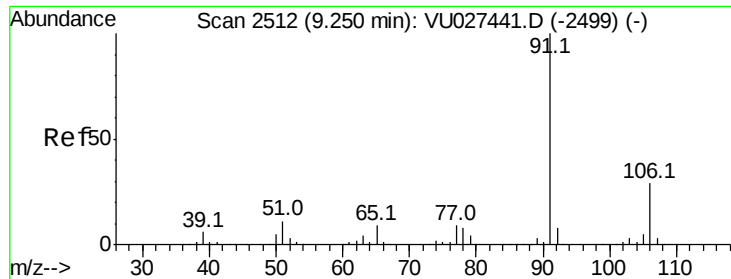
#51
 Chlorobenzene
 Concen: 50.134 ug/L
 RT: 9.12 min Scan# 2471
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Tgt Ion:112 Resp: 187517
 Ion Ratio Lower Upper
 112 100
 114 32.3 22.3 41.5
 77 66.1 51.7 77.5



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 51.283 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

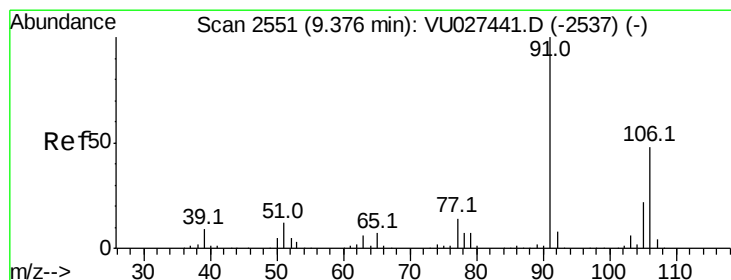
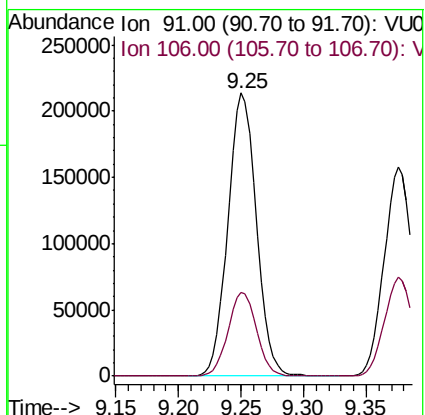
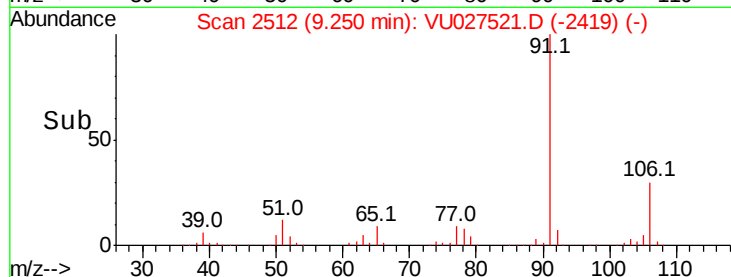
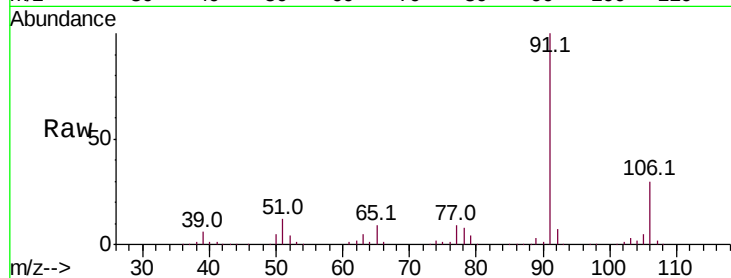
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 336884

Ion Ratio Lower Upper

91 100

106 29.8 20.6 38.4



#53

m,p-Xylene

Concen: 50.871 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027521.D

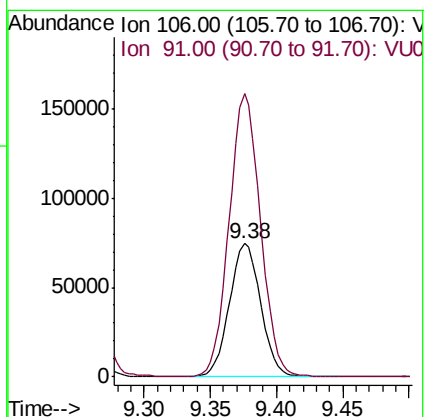
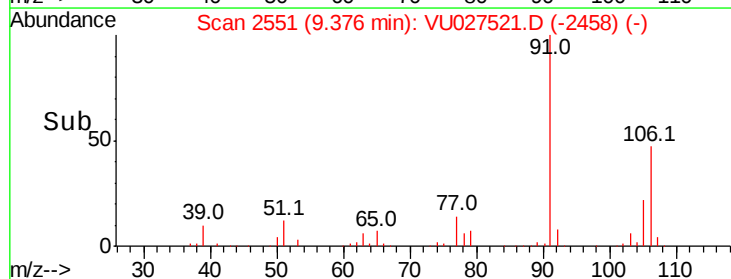
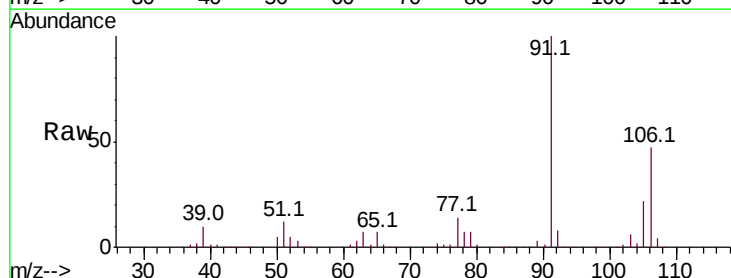
Acq: 09 Oct 2018 09:45

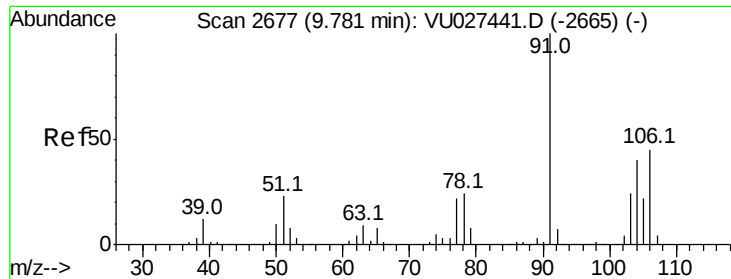
Tgt Ion: 106 Resp: 122315

Ion Ratio Lower Upper

106 100

91 212.2 145.0 269.4

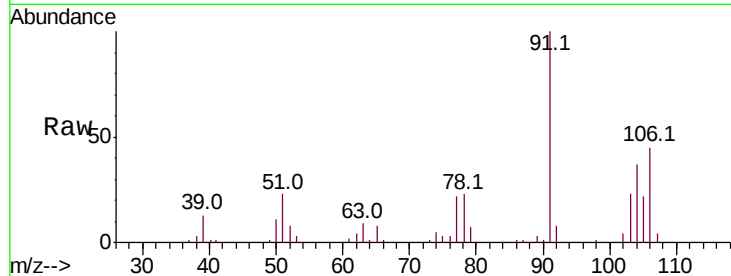




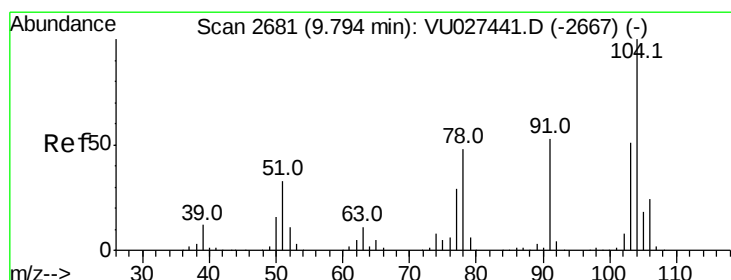
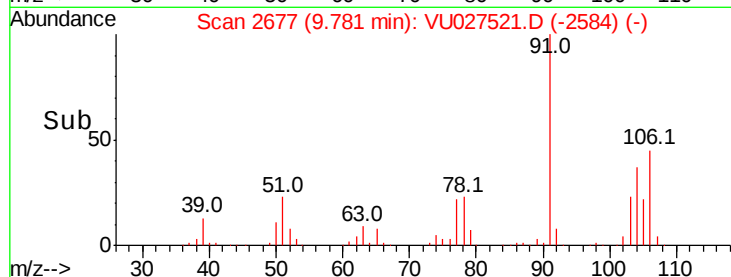
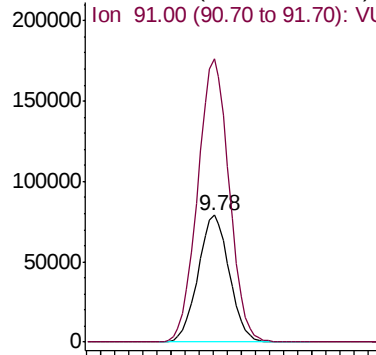
#54
o-xylene
Concen: 52.911 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 122558
Ion Ratio Lower Upper
106 100
91 222.6 154.8 287.4

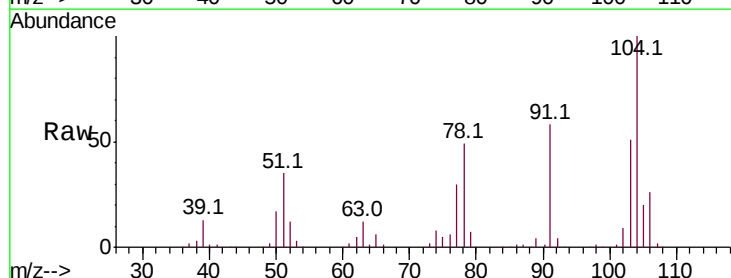


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

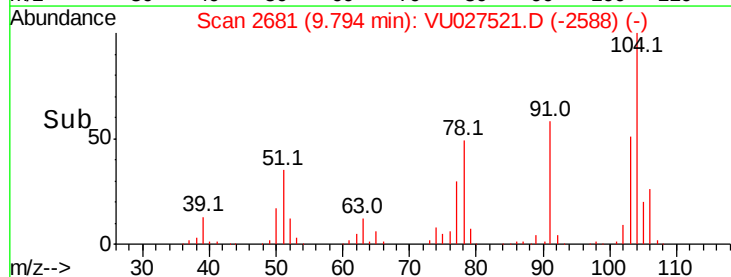
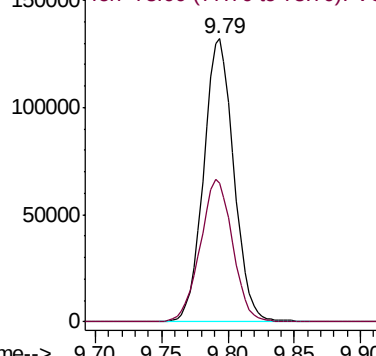


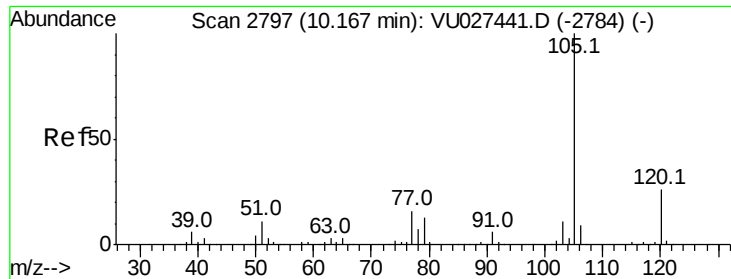
#55
Styrene
Concen: 52.611 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU027521.D
Acq: 09 Oct 2018 09:45

Tgt Ion:104 Resp: 208685
Ion Ratio Lower Upper
104 100
78 49.1 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.625 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

ClientSampleId :

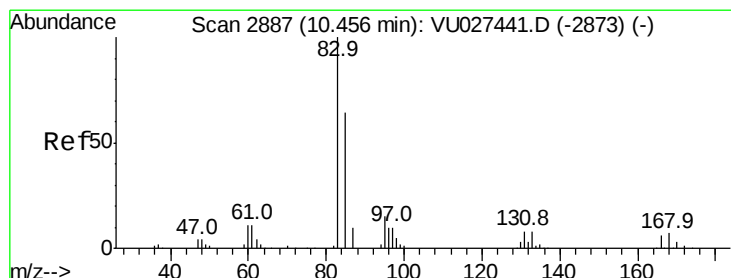
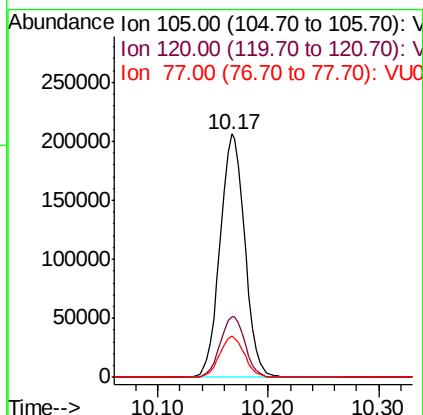
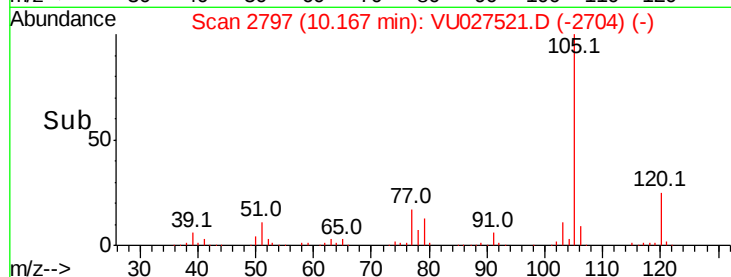
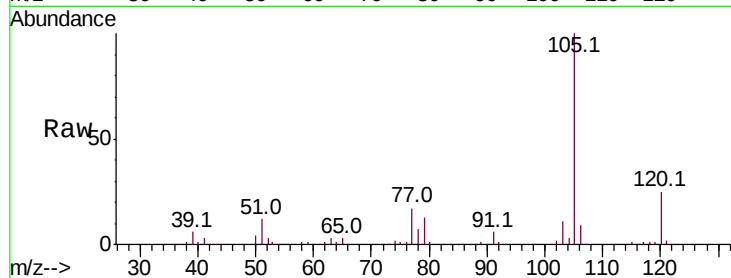
Tot Ion:105 Resp: 319447

Ion Ratio Lower Upper

105 100

120 25.1 20.6 30.8

77 17.0 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 54.378 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

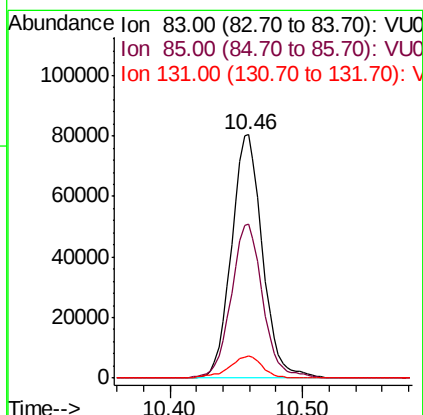
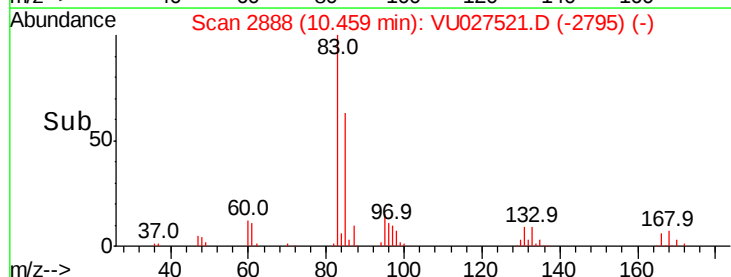
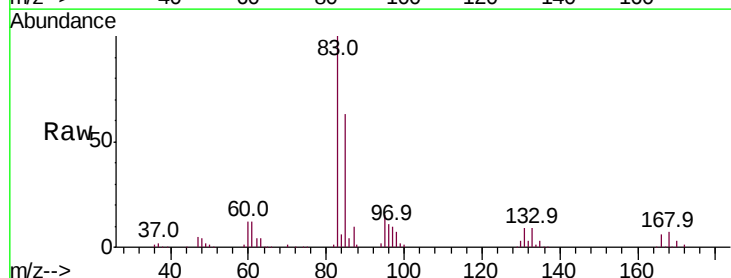
Tgt Ion: 83 Resp: 130658

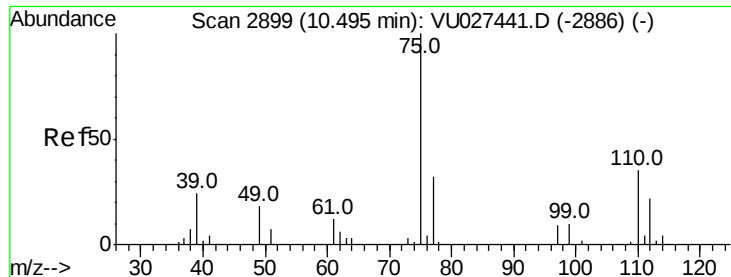
Ion Ratio Lower Upper

83 100

85 63.3 45.2 84.0

131 8.9 6.7 10.1

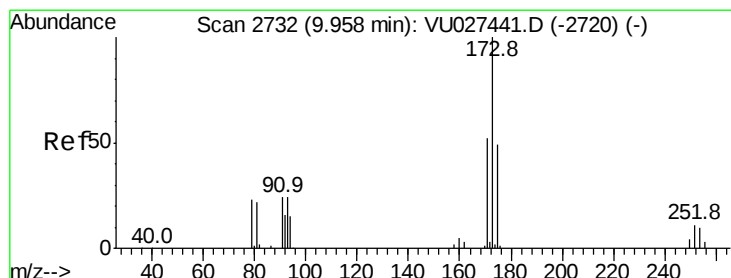
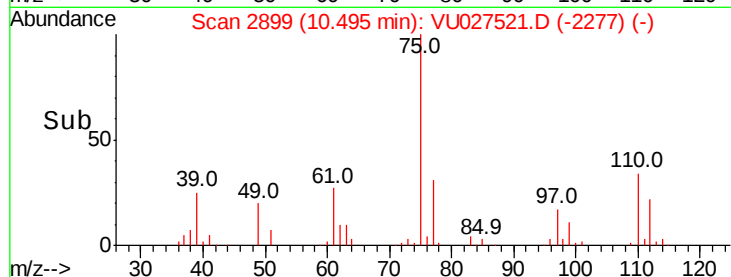
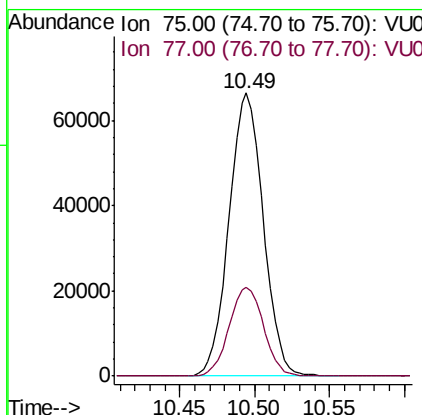
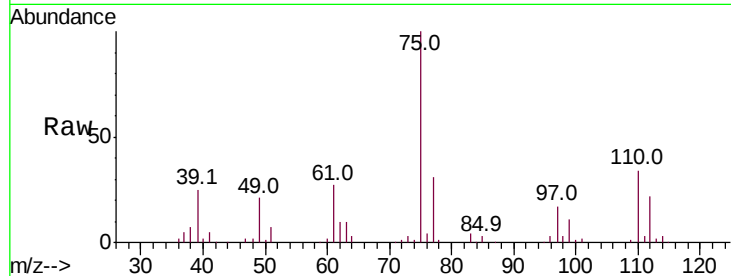




#59
 1,2,3-Trichloropropane
 Concen: 54.882 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

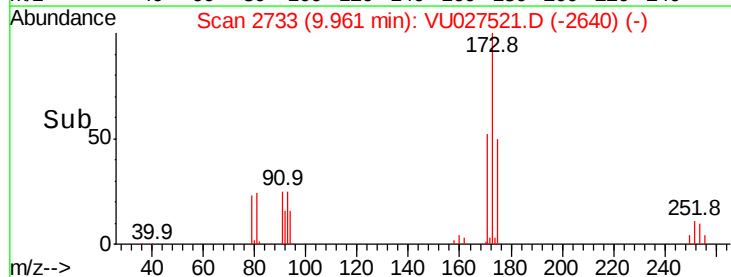
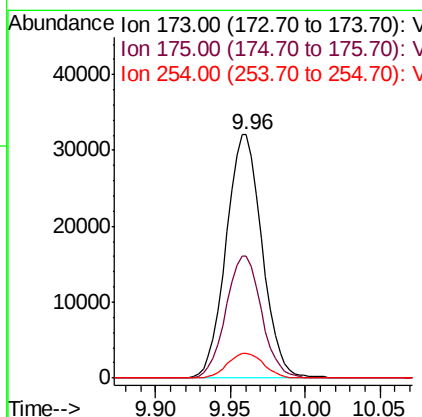
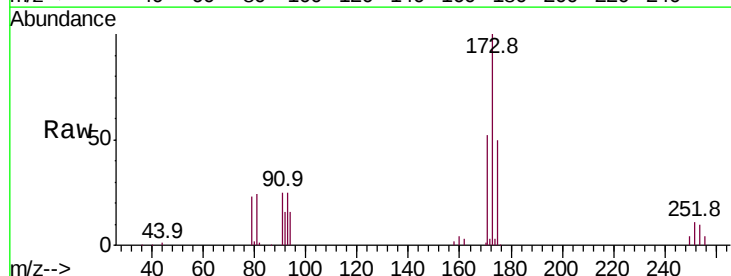
Instrument :
 MSVOA_U
 ClientSampleId :

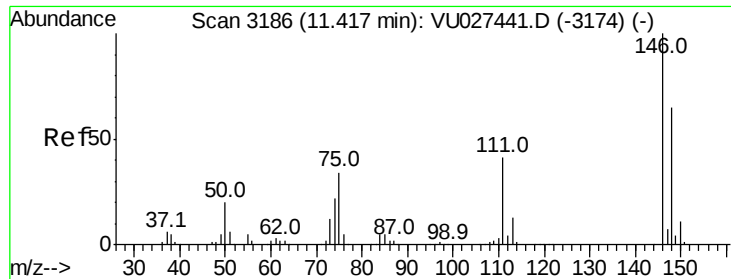
Tot Ion: 75 Resp: 106148
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.7 38.5



#61
 Bromoform
 Concen: 56.124 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Tgt Ion: 173 Resp: 53783
 Ion Ratio Lower Upper
 173 100
 175 49.5 39.0 58.4
 254 10.3 8.3 12.5

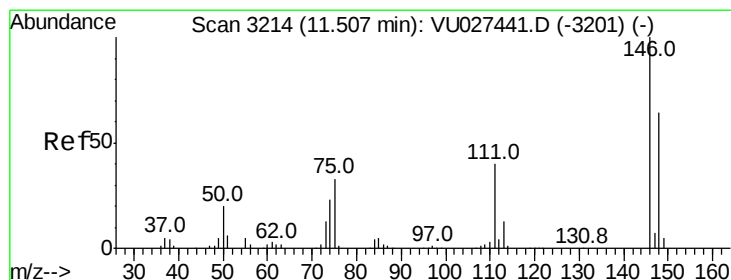
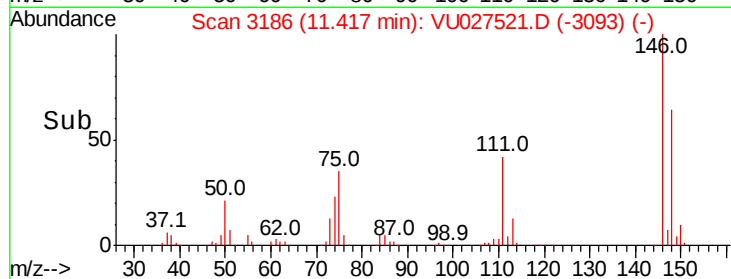
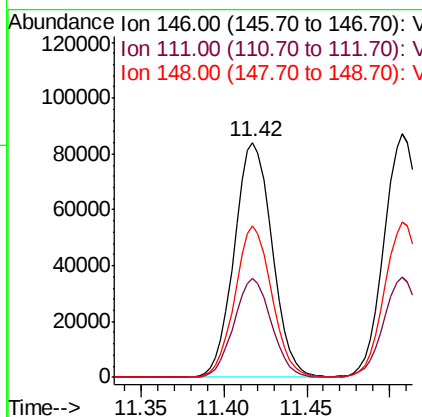
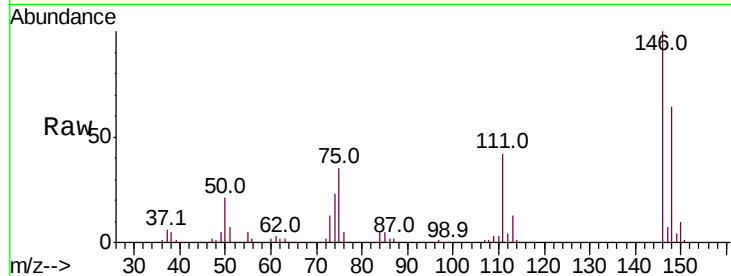




#62
 1,3-Dichlorobenzene
 Concen: 50.912 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

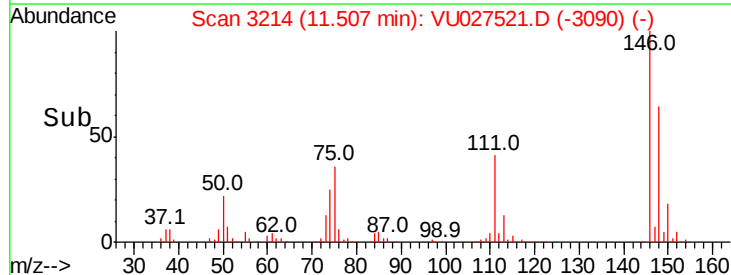
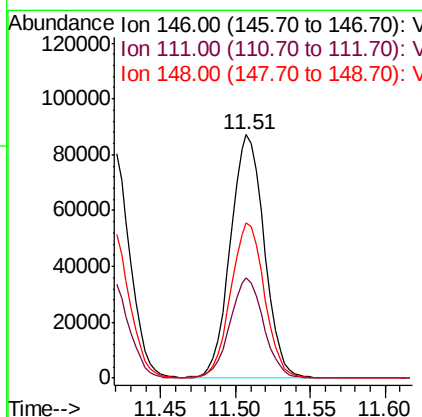
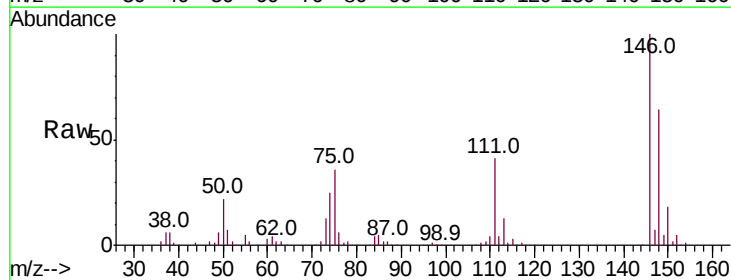
Instrument :
 MSVOA_U
 ClientSampled :

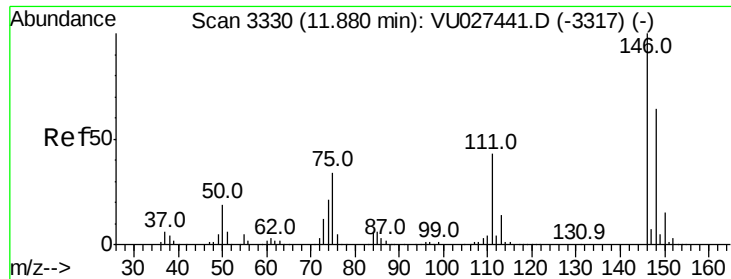
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	29.0	53.8
148	64.3	45.4	84.2



#63
 1,4-Dichlorobenzene
 Concen: 50.124 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.1	28.1	52.1
148	63.5	44.4	82.5





#65

1,2-Dichlorobenzene

Concen: 52.771 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

ClientSampled :

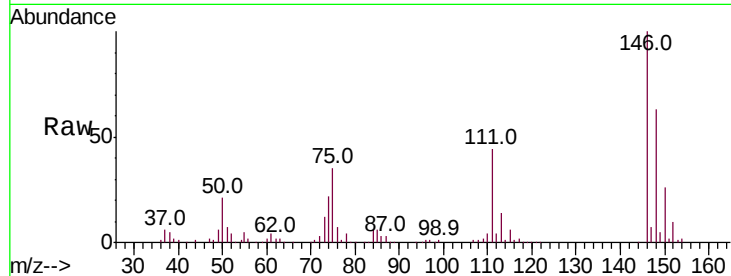
Tot Ion:146 Resp: 141006

Ion Ratio Lower Upper

146 100

111 43.5 34.9 52.3

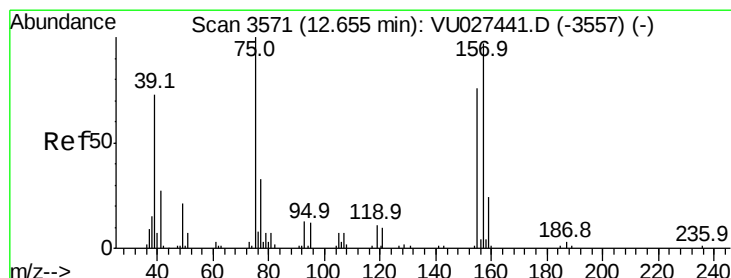
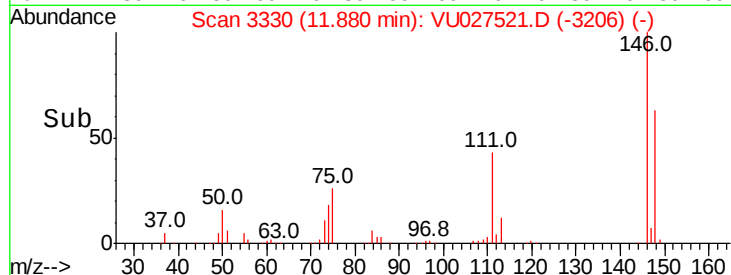
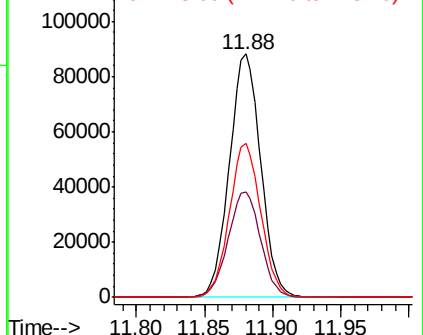
148 63.1 51.6 77.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 57.141 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

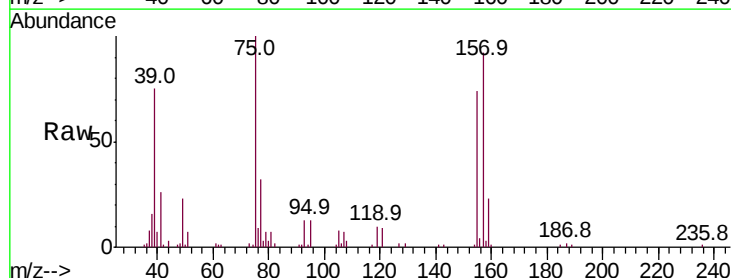
Tgt Ion: 75 Resp: 28304

Ion Ratio Lower Upper

75 100

155 74.5 61.0 91.6

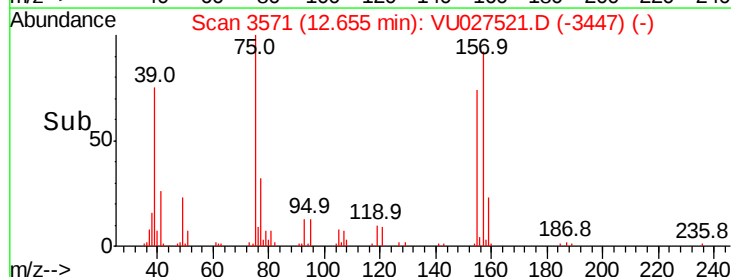
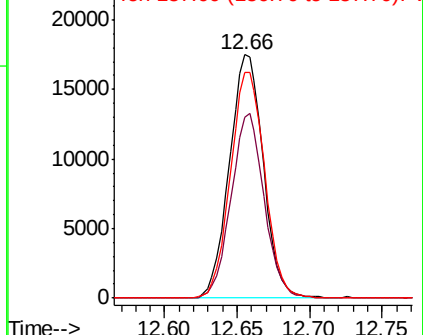
157 92.4 77.8 116.8

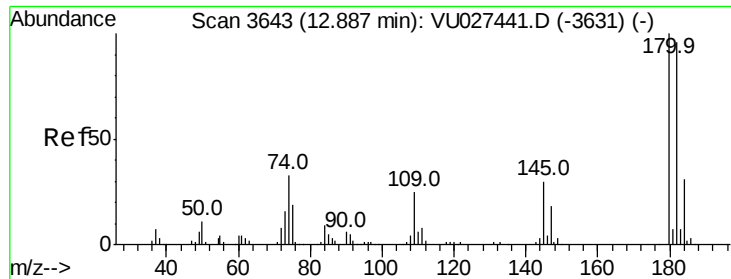


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

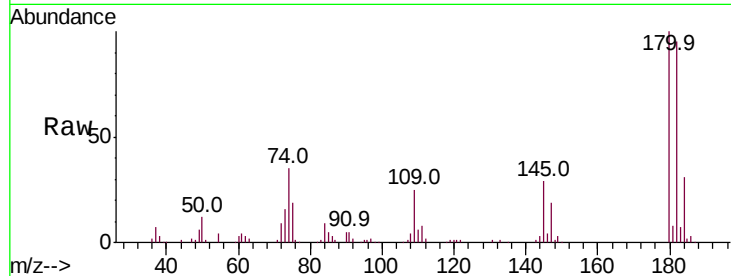




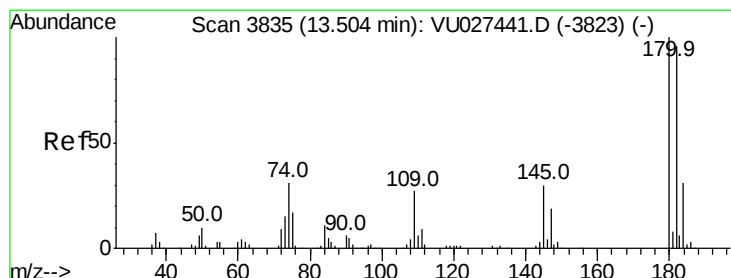
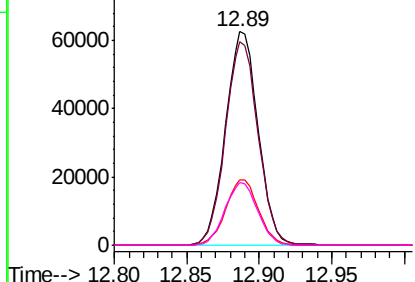
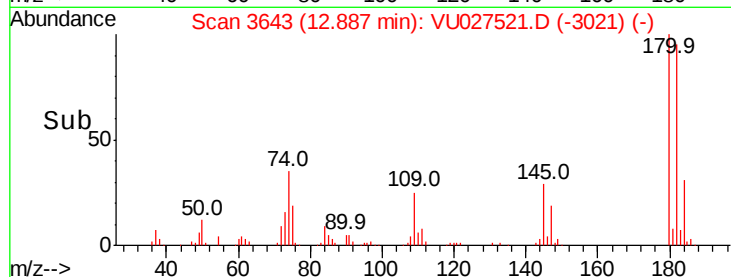
#67
 1,3,5-Trichlorobenzene
 Concen: 47.880 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 97100
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.7 115.1
 184 30.7 24.5 36.7
 145 29.3 23.8 35.8

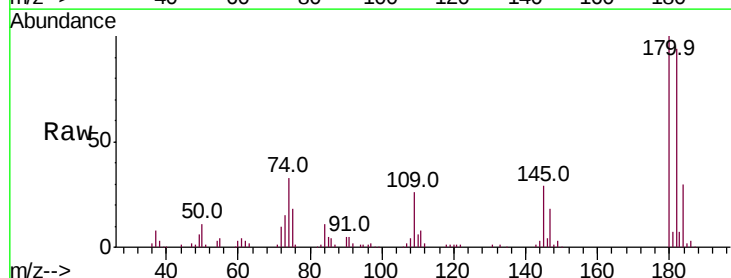


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

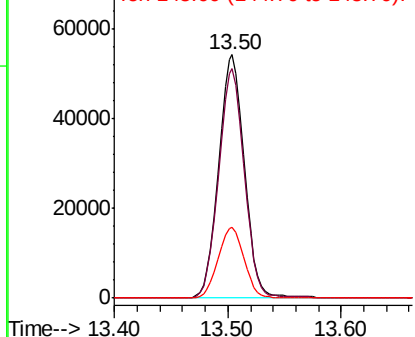
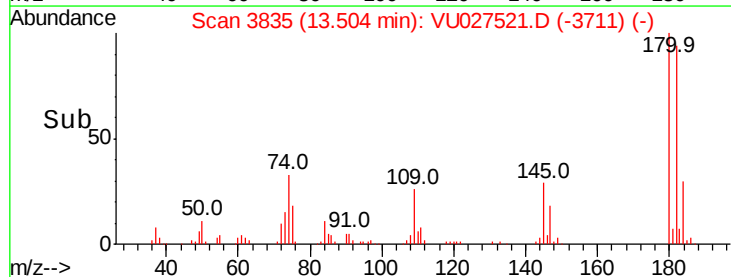


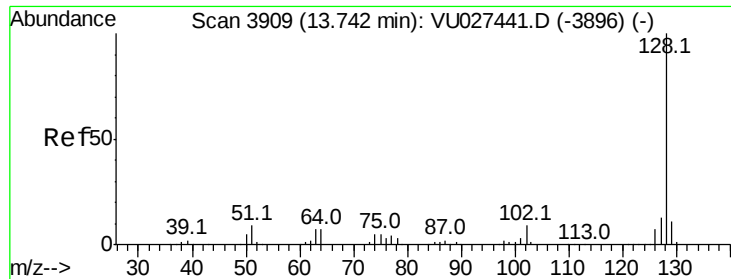
#68
 1,2,4-trichlorobenzene
 Concen: 46.122 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027521.D
 Acq: 09 Oct 2018 09:45

Tgt Ion:180 Resp: 86016
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.3 114.5
 145 29.3 24.2 36.2



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.717 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

Instrument :

MSVOA_U

ClientSampled :

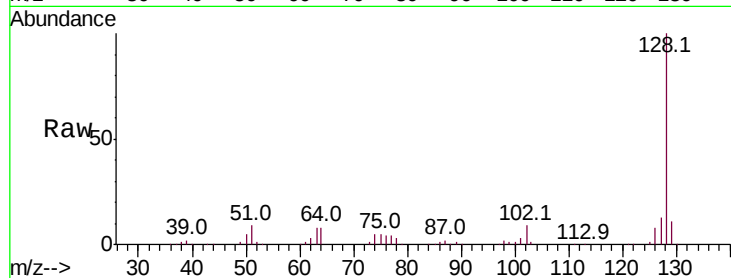
Tot Ion:128 Resp: 308908

Ion Ratio Lower Upper

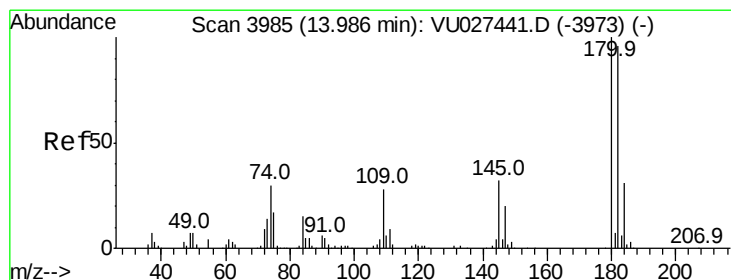
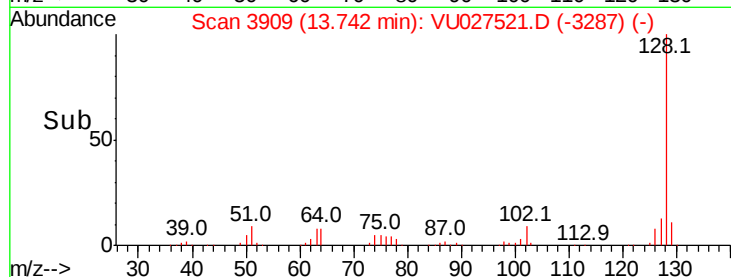
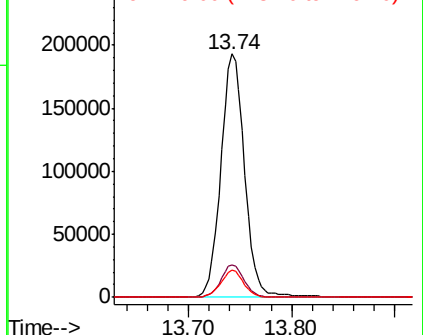
128 100

127 13.0 10.4 15.6

129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.268 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027521.D

Acq: 09 Oct 2018 09:45

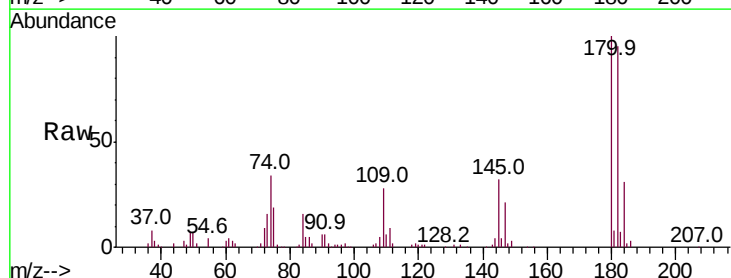
Tgt Ion:180 Resp: 91541

Ion Ratio Lower Upper

180 100

182 94.7 77.4 116.0

145 32.0 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

