

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082118\
 Data File : VU026237.D
 Acq On : 21 Aug 2018 16:59
 Operator : MD/SY
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Quant Time: Aug 22 00:26:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR081718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Aug 22 00:24:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	127298	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	128657	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	68066	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	35611	5.30	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.00%
7) Chloroethane-d5	1.68	69	30038	5.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.80%
11) 1,1-Dichloroethene-d2	2.28	63	76451	5.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	108.60%
20) 2-Butanone-d5	4.19	46	102190	53.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.46%
24) Chloroform-d	4.65	84	80093	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
26) 1,2-Dichloroethane-d4	5.31	65	44336	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.34	84	159370	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.80%
36) 1,2-Dichloropropane-d6	6.34	67	50757	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.57	98	157984	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
43) trans-1,3-Dichloropropene-	7.85	79	20637	5.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.40%
46) 2-Hexanone-d5	8.32	63	91001	56.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.56%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	43618	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	62003	5.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	63658	5.523 ug/L	99
3) Chloromethane	1.33	50	57327	5.285 ug/L	99
5) Vinyl chloride	1.40	62	57264	5.471 ug/L	97
6) Bromomethane	1.63	94	33001	5.763 ug/L	96
8) Chloroethane	1.70	64	33297	5.581 ug/L	97
9) Trichlorofluoromethane	1.89	101	84516	5.663 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	46627	5.807 ug/L	96
12) 1,1-Dichloroethene	2.29	96	42647	5.764 ug/L	88
13) Acetone	2.32	43	67888	53.402 ug/L	98
14) Carbon disulfide	2.48	76	141979	5.420 ug/L	99
15) Methyl Acetate	2.62	43	19008	5.545 ug/L	97
16) Methylene chloride	2.70	84	46588	5.311 ug/L	96
17) Methyl tert-butyl Ether	3.00	73	103602	5.704 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	46290	5.676 ug/L	96
19) 1,1-Dichloroethane	3.45	63	93015	6.079 ug/L	97
21) 2-Butanone	4.28	43	123924	55.541 ug/L	100
22) cis-1,2-Dichloroethene	4.23	96	54578	5.394 ug/L	97

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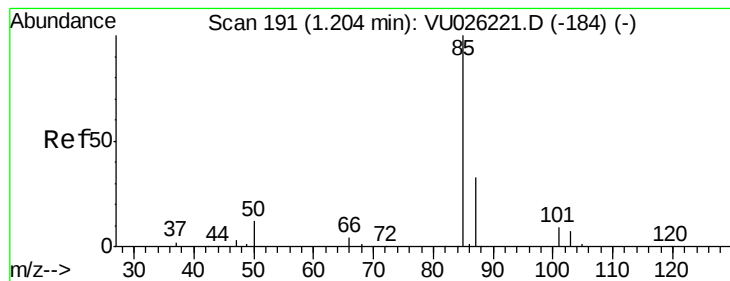
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	25433	5.566	ug/L	95
25) Chloroform	4.68	83	107335	5.759	ug/L	96
27) 1,2-Dichloroethane	5.41	62	62684	5.661	ug/L	98
29) 1,1,1-Trichloroethane	4.92	97	90138	5.409	ug/L	98
30) Cyclohexane	5.00	56	74051	5.221	ug/L	99
31) Carbon tetrachloride	5.14	117	82461	5.440	ug/L	99
33) Benzene	5.39	78	204021	5.463	ug/L	100
34) Trichloroethene	6.19	95	53916	5.361	ug/L	98
35) Methylcyclohexane	6.42	83	77754	5.217	ug/L	99
37) 1,2-Dichloropropane	6.44	63	54199	5.395	ug/L #	93
38) Bromodichloromethane	6.76	83	69416	5.451	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	69374	5.279	ug/L	96
40) 4-Methyl-2-pentanone	7.47	43	293799	54.439	ug/L	98
42) Toluene	7.64	91	222574	5.648	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	62478	5.518	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	38211	5.553	ug/L	97
47) Tetrachloroethene	8.23	164	49077	5.578	ug/L	98
48) 2-Hexanone	8.37	43	219908	58.380	ug/L	100
49) Dibromochloromethane	8.48	129	50910	5.638	ug/L	99
50) 1,2-Dibromoethane	8.59	107	36214	5.531	ug/L	100
51) Chlorobenzene	9.12	112	142184	5.379	ug/L	98
52) Ethylbenzene	9.25	91	222714	5.363	ug/L	99
53) m,p-xylene	9.38	106	90496	5.671	ug/L	99
54) o-xylene	9.78	106	84226	5.515	ug/L	96
55) Styrene	9.80	104	150691	5.796	ug/L	99
56) Isopropylbenzene	10.17	105	224841	5.566	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	46287	5.485	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	33239	5.477	ug/L	91
61) Bromoform	9.96	173	28718	5.512	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	110232	5.169	ug/L	96
63) 1,4-Dichlorobenzene	11.51	146	114403	5.088	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	113149	5.355	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	7484	5.143	ug/L	89
67) 1,3,5-Trichlorobenzene	12.89	180	92705	5.584	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	73958	5.753	ug/L	99
69) Naphthalene	13.74	128	109939	5.736	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	72925	5.950	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.523 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

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MSVOA_U

ClientSampleId :

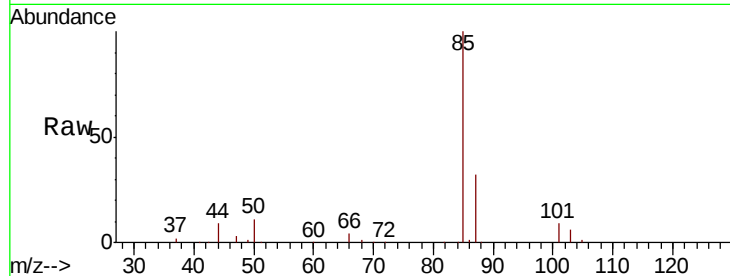
VSTD00542

Tgt Ion: 85 Resp: 63658

Ion Ratio Lower Upper

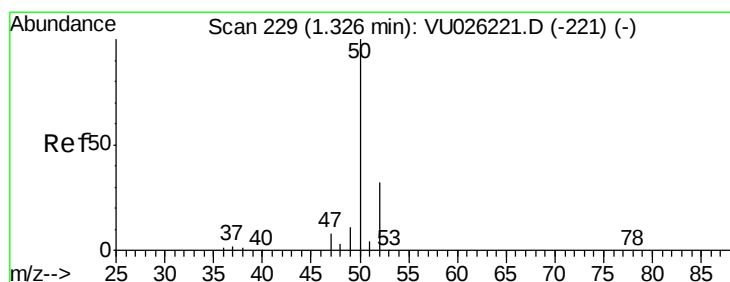
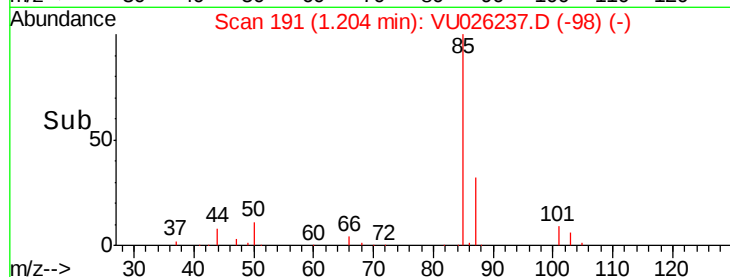
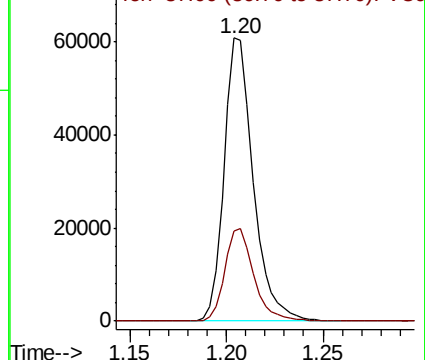
85 100

87 32.3 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.285 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026237.D

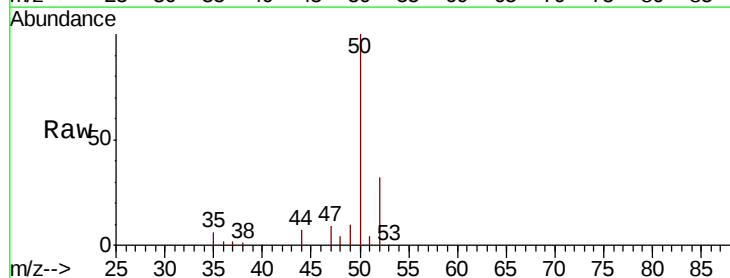
Acq: 21 Aug 2018 16:59

Tgt Ion: 50 Resp: 57327

Ion Ratio Lower Upper

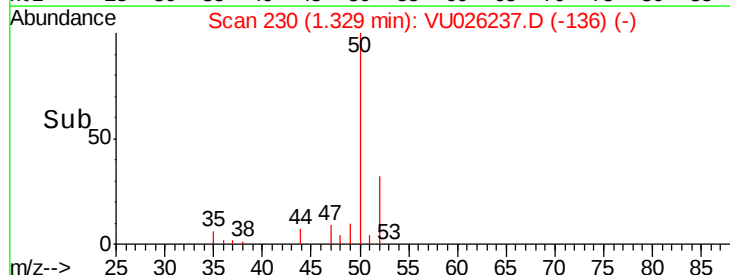
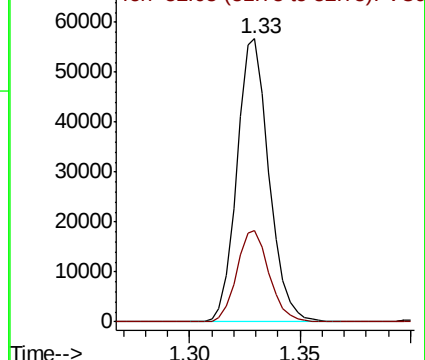
50 100

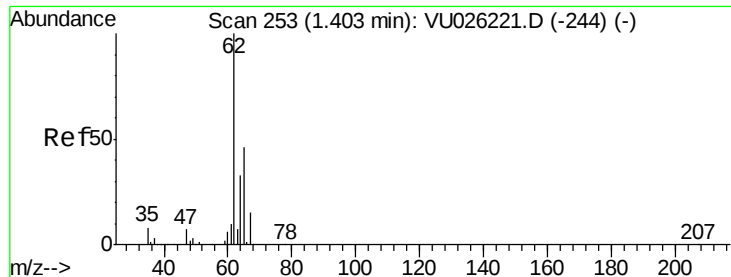
52 32.3 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 5.471 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

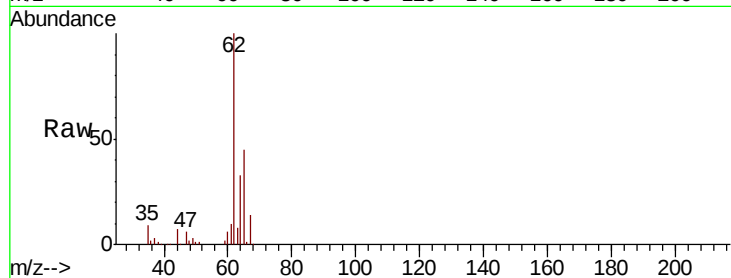
VSTD00542

Tgt Ion: 62 Resp: 57264

Ion Ratio Lower Upper

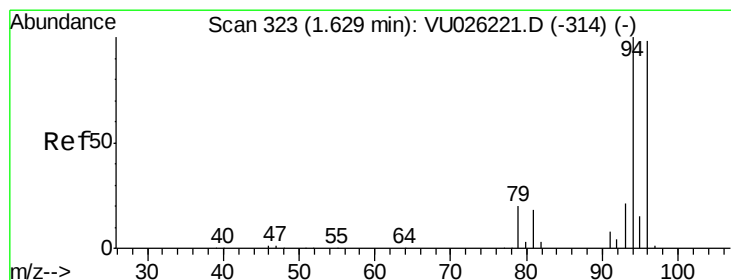
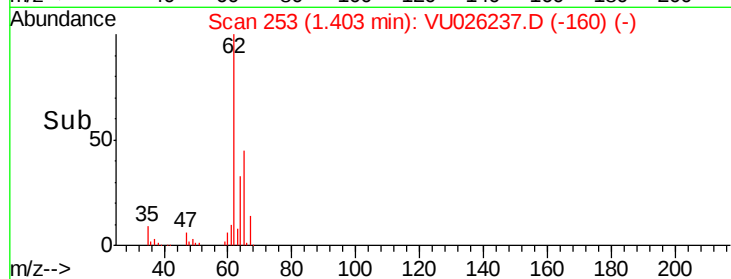
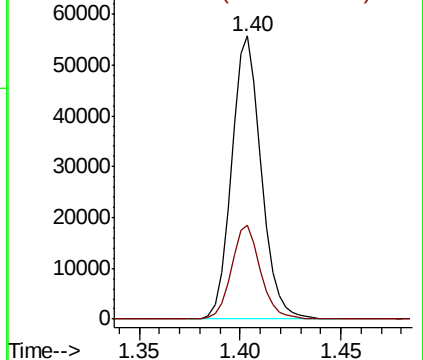
62 100

64 33.3 22.0 40.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.763 ug/L

RT: 1.63 min Scan# 324

Delta R.T. 0.00 min

Lab File: VU026237.D

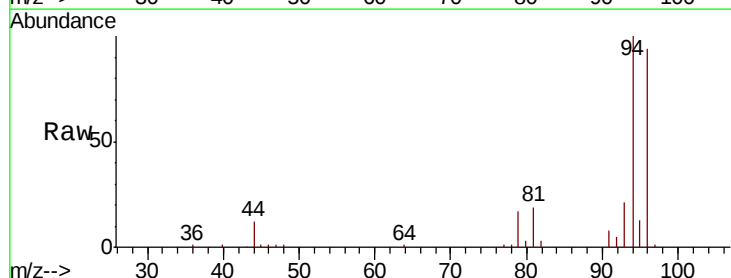
Acq: 21 Aug 2018 16:59

Tgt Ion: 94 Resp: 33001

Ion Ratio Lower Upper

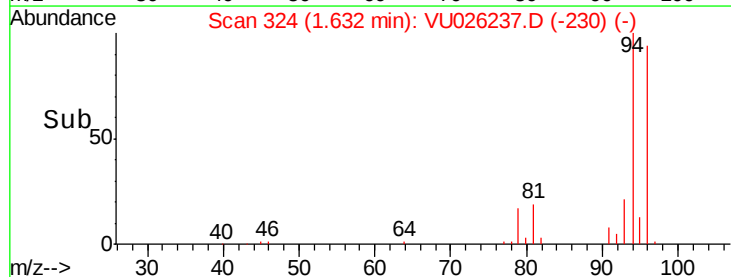
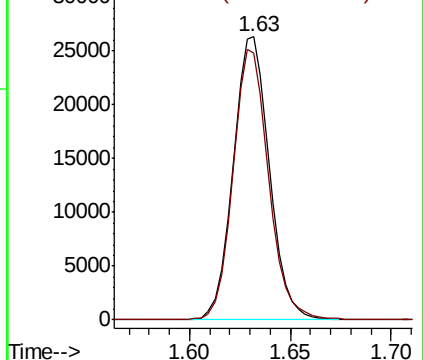
94 100

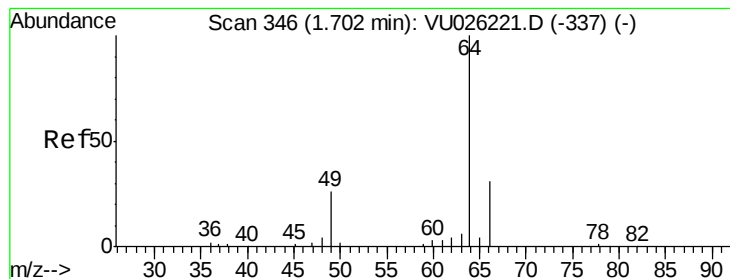
96 94.1 63.1 117.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.581 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

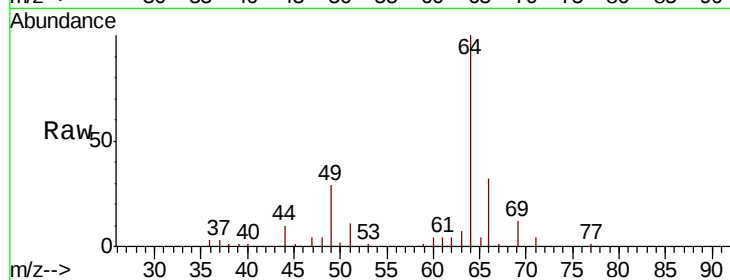
VSTD00542

Tgt Ion: 64 Resp: 33297

Ion Ratio Lower Upper

64 100

66 31.6 21.1 39.1



Abundance Ion 64.10 (63.80 to 64.80): VU026237.D (-253) (-)

Ion 66.05 (65.75 to 66.75): VU026237.D (-253) (-)

1.70

25000

20000

15000

10000

5000

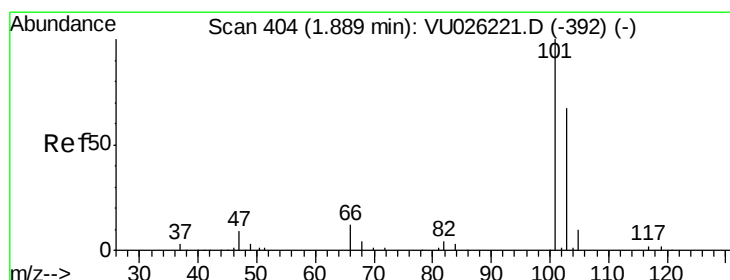
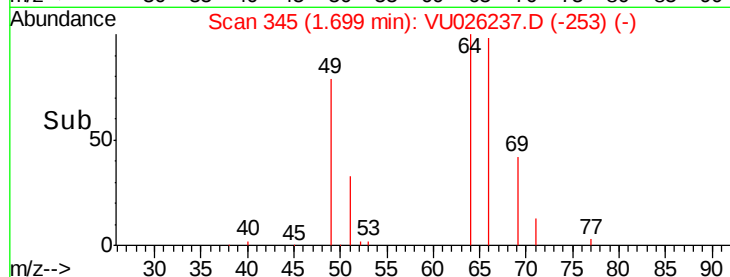
0

1.65

1.70

1.75

Time-->



#9

Trichlorofluoromethane

Concen: 5.663 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU026237.D

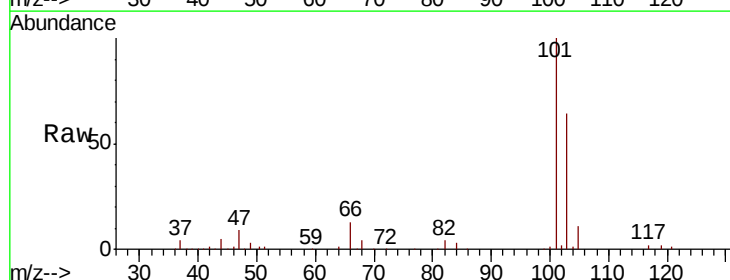
Acq: 21 Aug 2018 16:59

Tgt Ion: 101 Resp: 84516

Ion Ratio Lower Upper

101 100

103 63.6 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VU026237.D (-311) (-)

Ion 103.00 (102.70 to 103.70): VU026237.D (-311) (-)

1.89

60000

40000

20000

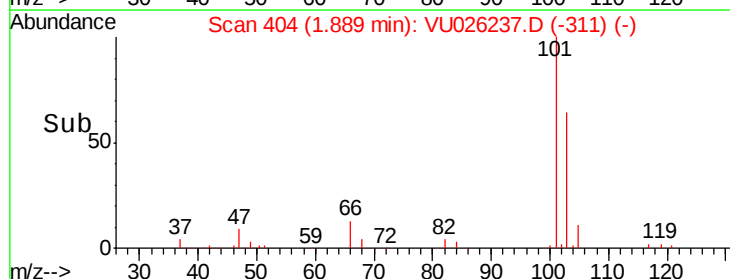
0

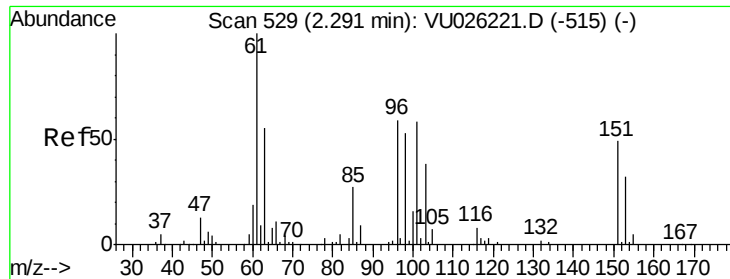
1.85

1.90

1.95

Time-->





#10

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

Concen: 5.807 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

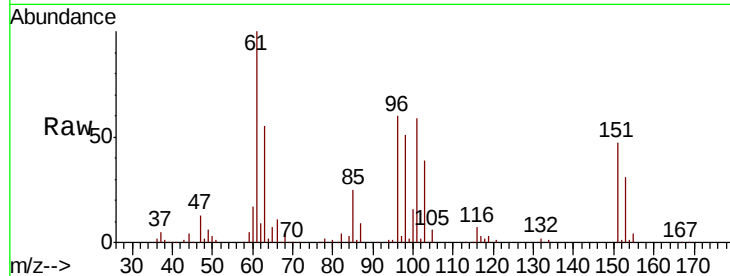
Tgt Ion: 101 Resp: 46627

Ion Ratio Lower Upper

101 100

85 44.2 36.6 54.8

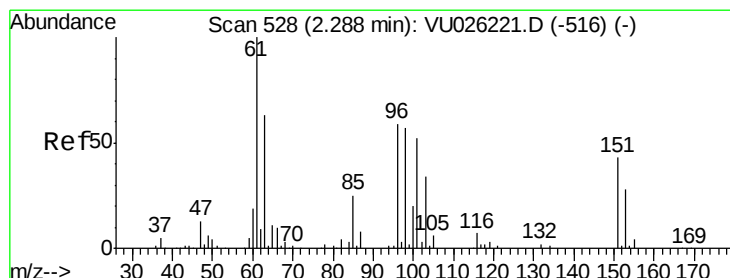
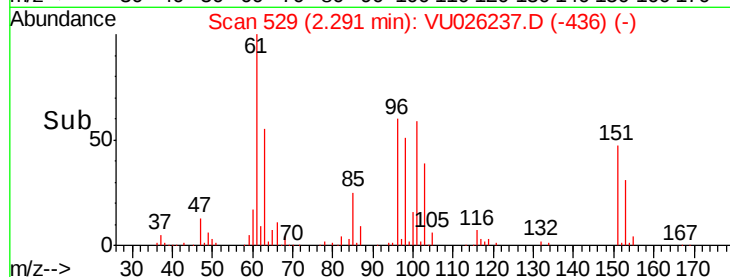
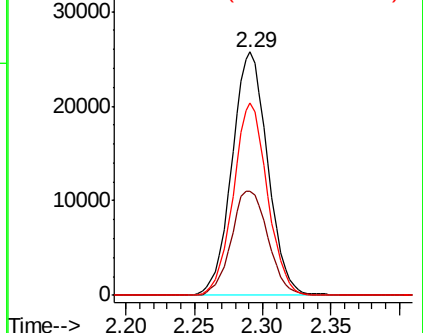
151 75.2 63.4 95.2



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: 5.764 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

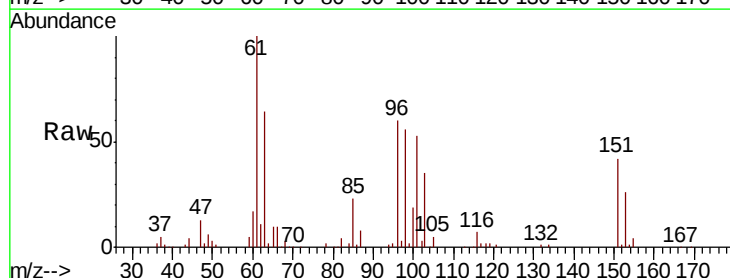
Tgt Ion: 96 Resp: 42647

Ion Ratio Lower Upper

96 100

61 167.7 125.3 232.7

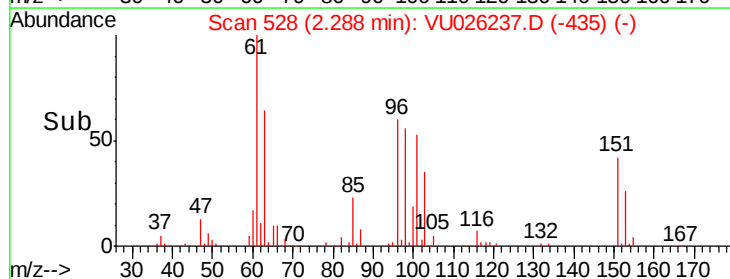
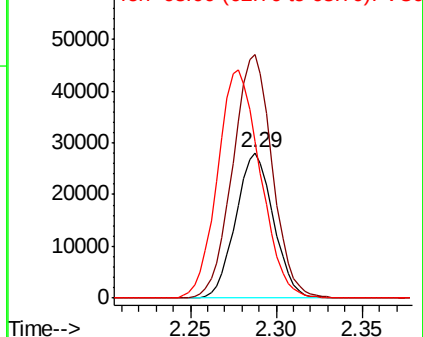
63 108.1 90.9 168.9

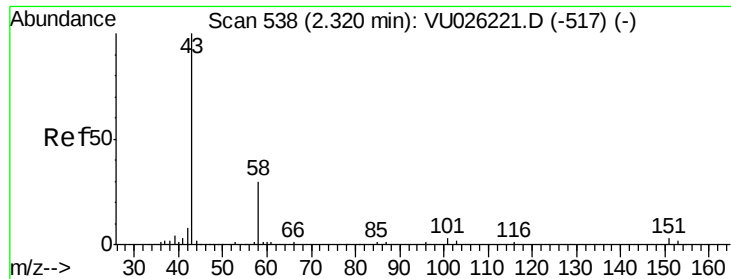


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 53.402 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

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ClientSampleId :

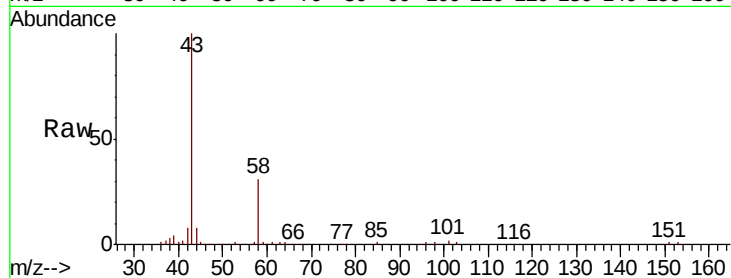
VSTD00542

Tgt Ion: 43 Resp: 67888

Ion Ratio Lower Upper

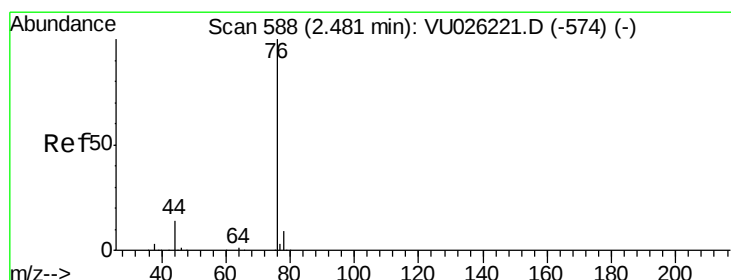
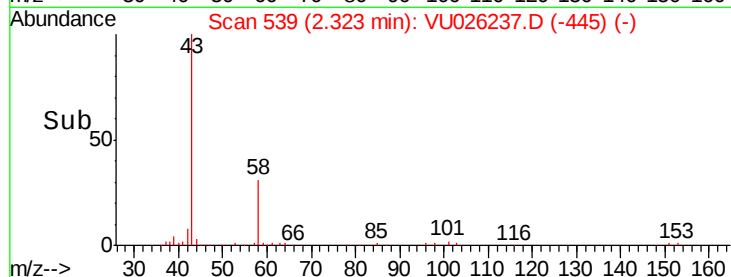
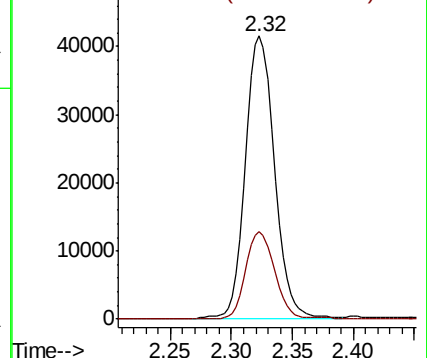
43 100

58 30.8 0.0 59.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 5.420 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU026237.D

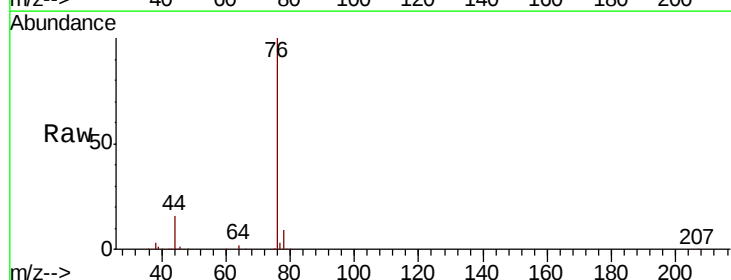
Acq: 21 Aug 2018 16:59

Tgt Ion: 76 Resp: 141979

Ion Ratio Lower Upper

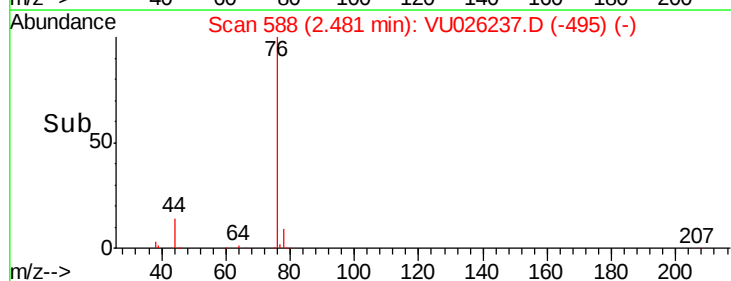
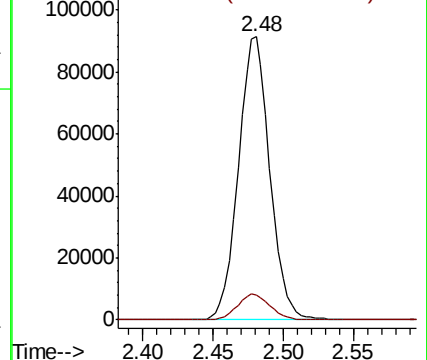
76 100

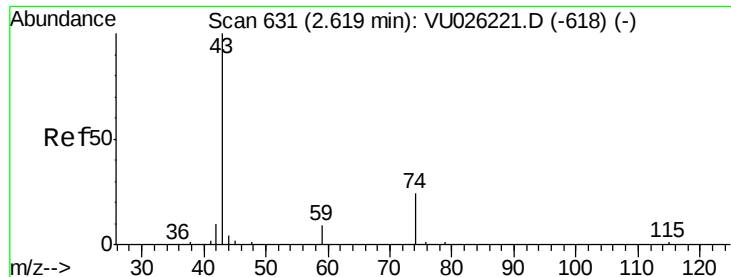
78 8.8 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

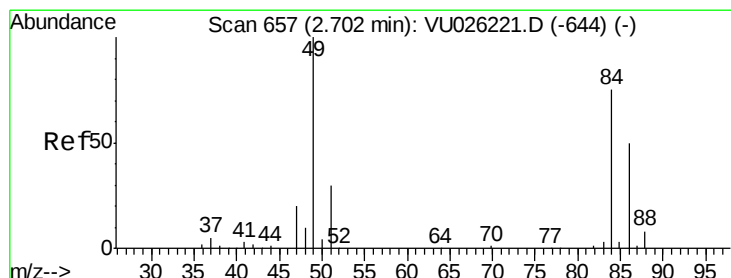
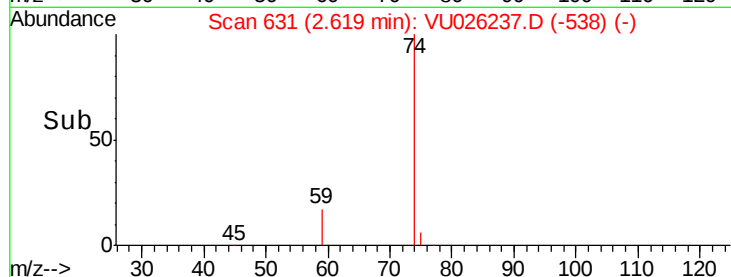
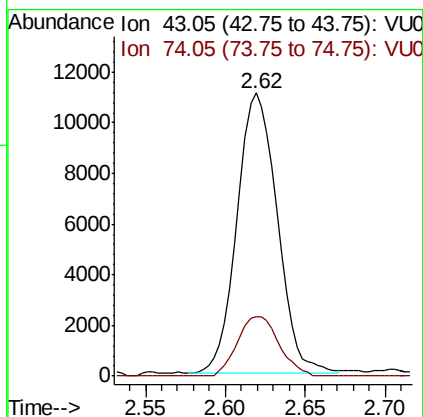
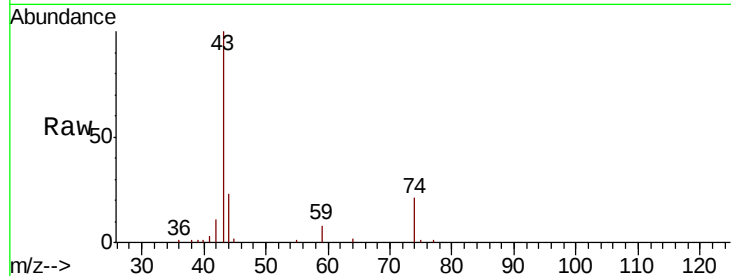




#15
Methyl Acetate
Concen: 5.545 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

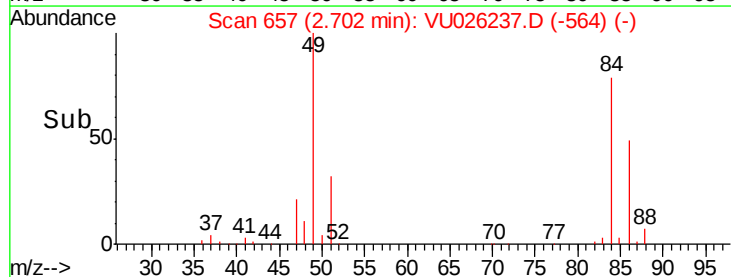
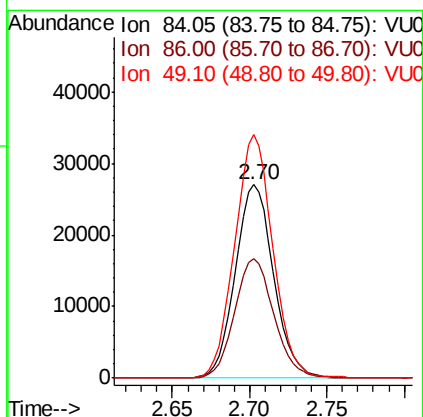
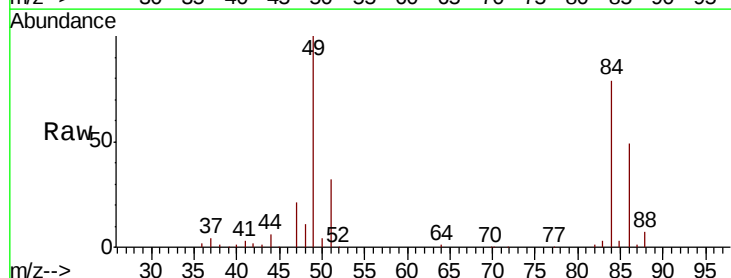
Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

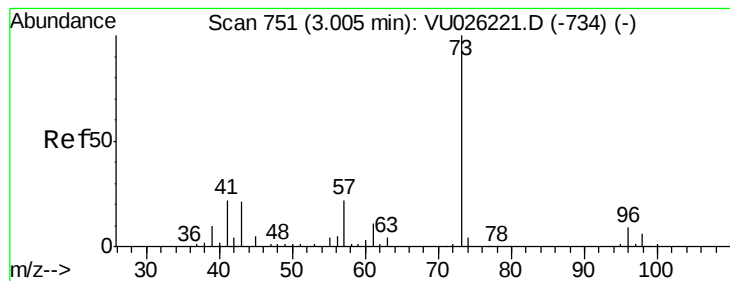
Tgt Ion: 43 Resp: 19008
Ion Ratio Lower Upper
43 100
74 21.9 16.6 24.8



#16
Methylene chloride
Concen: 5.311 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

Tgt Ion: 84 Resp: 46588
Ion Ratio Lower Upper
84 100
86 62.1 48.6 90.2
49 126.0 89.0 165.4





#17

Methyl tert-butyl Ether

Concen: 5.704 ug/L

RT: 3.00 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

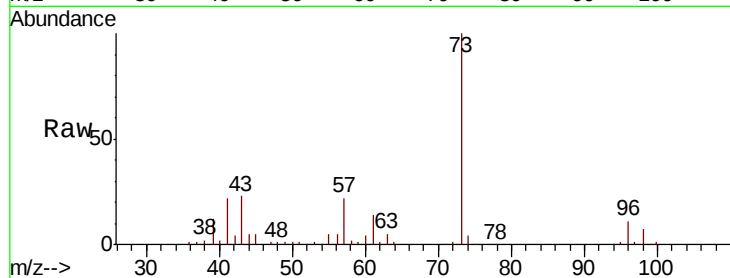
Tgt Ion: 73 Resp: 103602

Ion Ratio Lower Upper

73 100

43 22.6 18.2 27.2

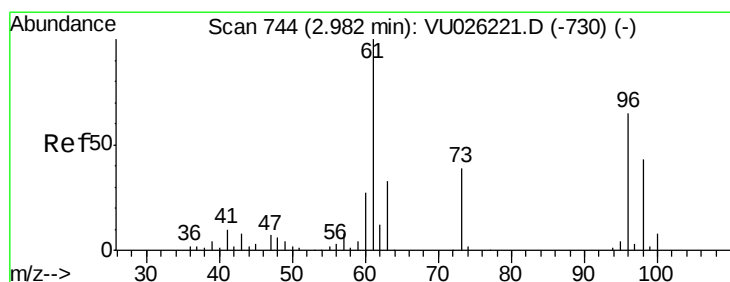
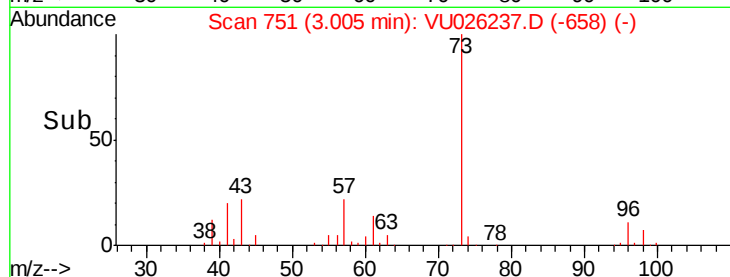
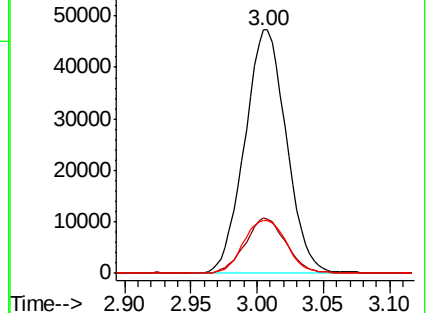
57 22.4 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 5.676 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

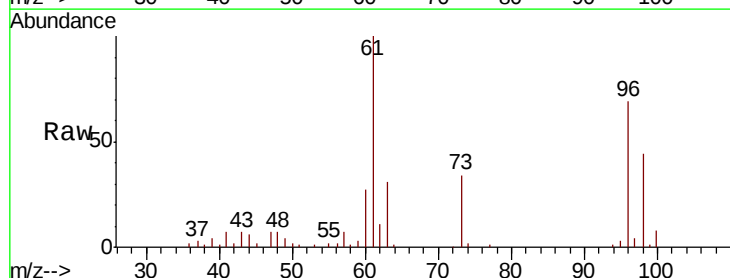
Tgt Ion: 96 Resp: 46290

Ion Ratio Lower Upper

96 100

61 145.1 107.0 198.6

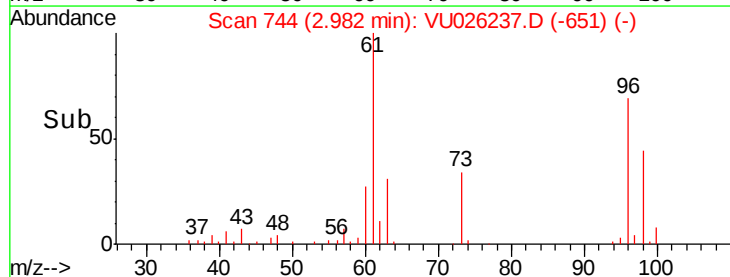
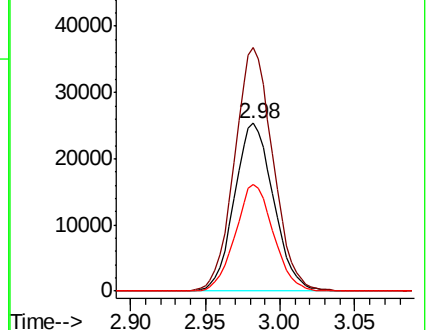
98 63.8 44.4 82.5

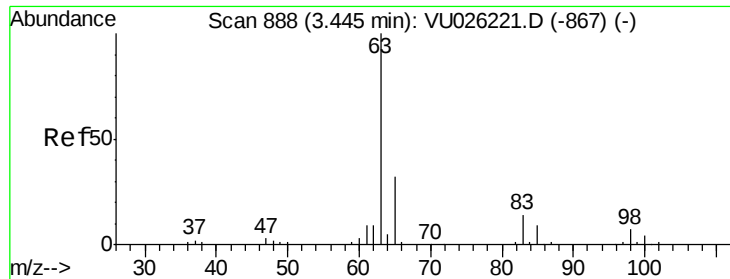


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

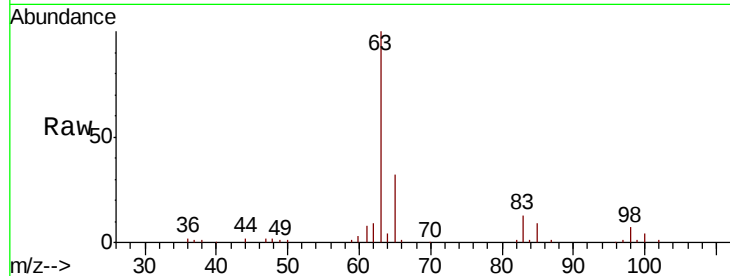




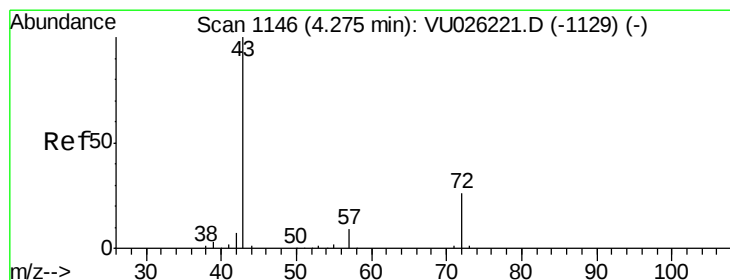
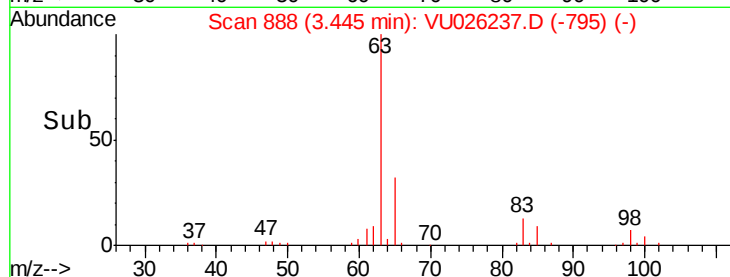
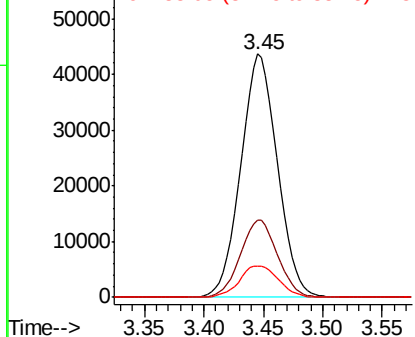
#19
 1,1-Dichloroethane
 Concen: 6.079 ug/L
 RT: 3.45 min Scan# 888
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 63 Resp: 93015
 Ion Ratio Lower Upper
 63 100
 65 31.8 23.2 43.0
 83 12.9 10.1 18.9

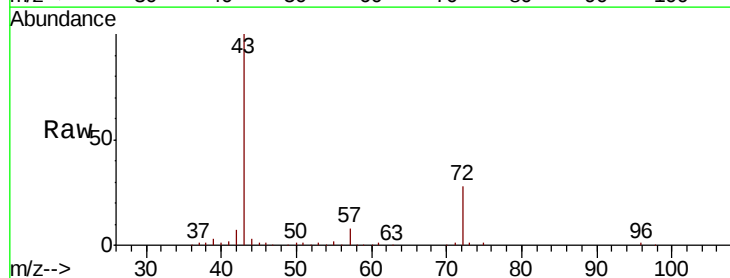


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

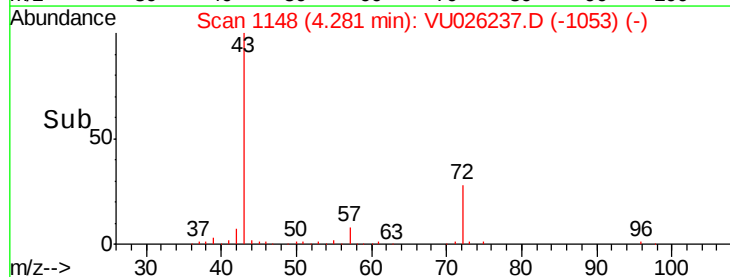
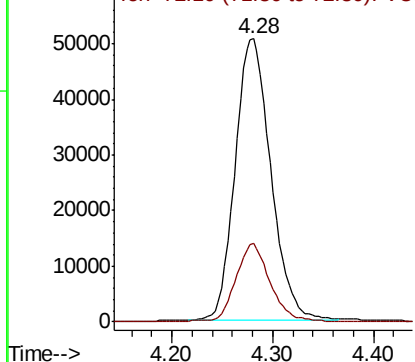


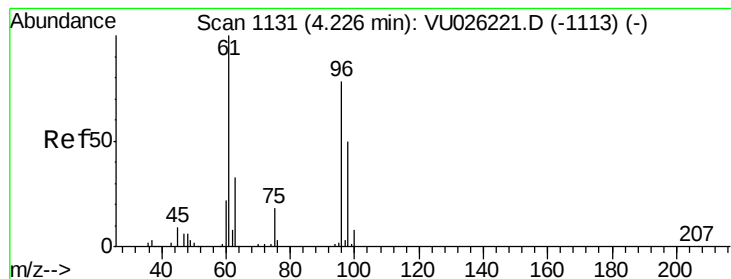
#21
 2-Butanone
 Concen: 55.541 ug/L
 RT: 4.28 min Scan# 1148
 Delta R.T. 0.01 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 43 Resp: 123924
 Ion Ratio Lower Upper
 43 100
 72 26.7 13.3 39.9



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 5.394 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

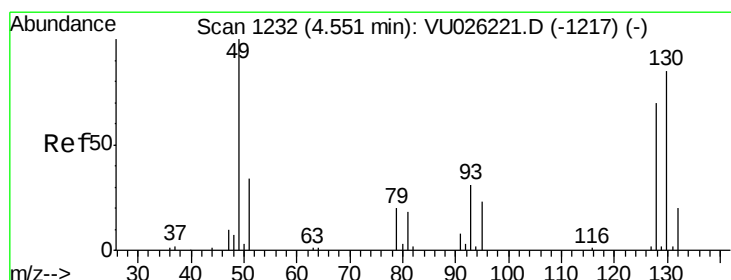
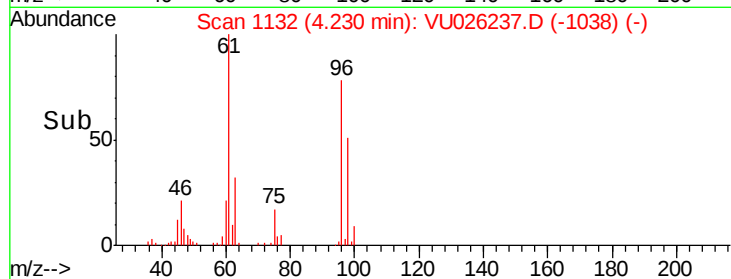
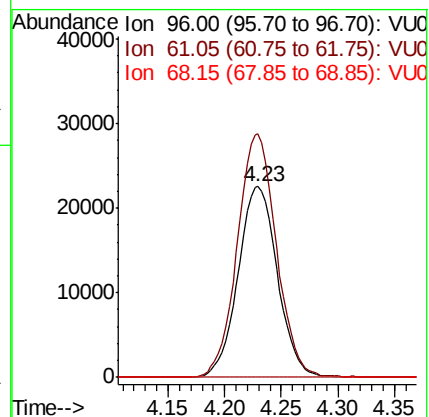
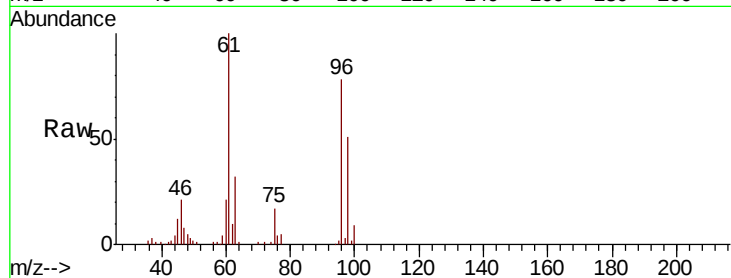
Tgt Ion: 96 Resp: 54578

Ion Ratio Lower Upper

96 100

61 127.6 87.1 161.7

68 0.0 0.0 0.0



#23

Bromochloromethane

Concen: 5.566 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Tgt Ion: 128 Resp: 25433

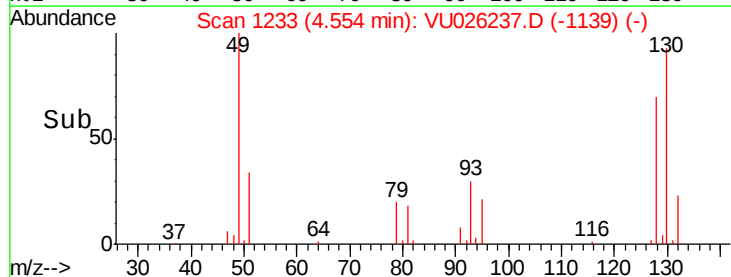
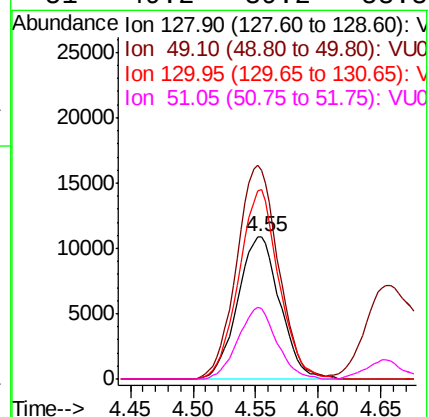
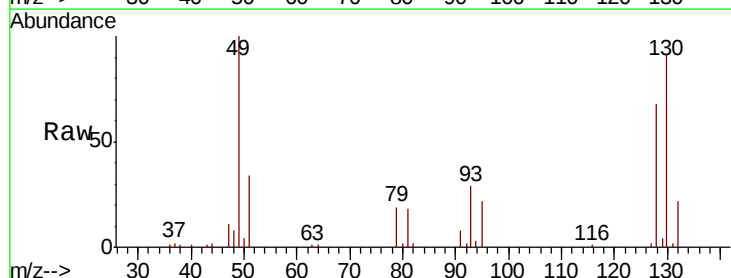
Ion Ratio Lower Upper

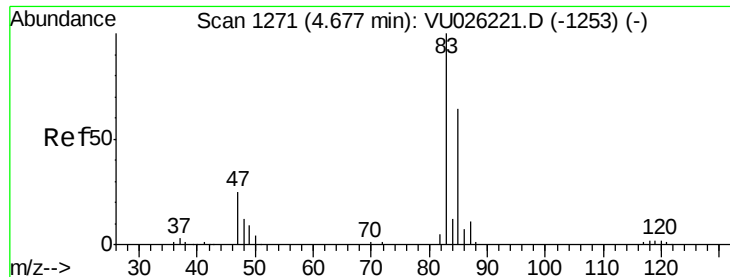
128 100

49 146.5 107.6 199.8

130 132.7 88.2 163.8

51 49.2 39.2 58.8

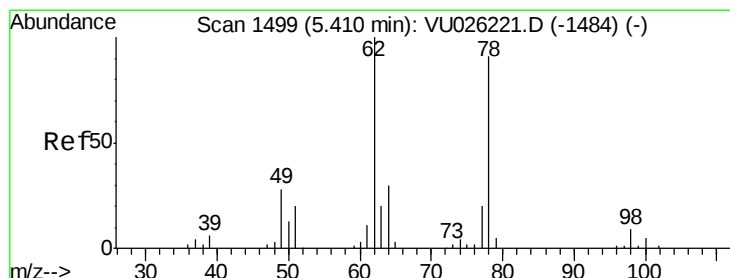
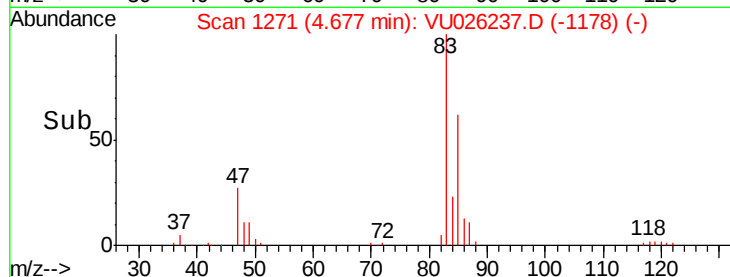
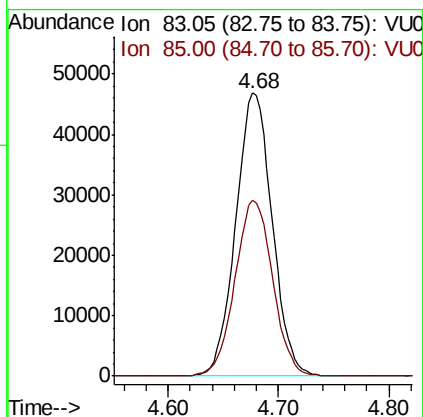
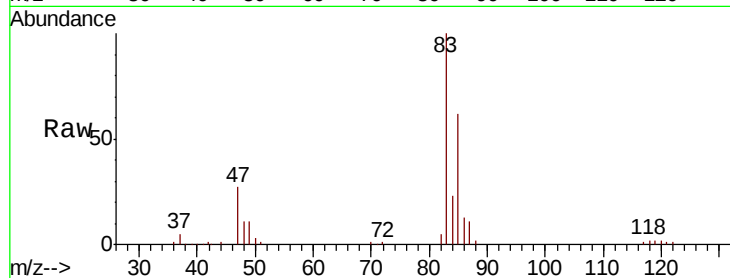




#25
Chloroform
Concen: 5.759 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

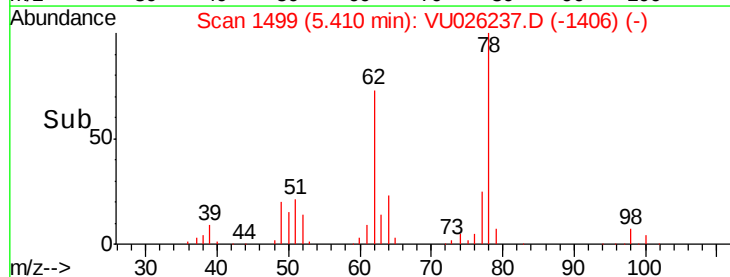
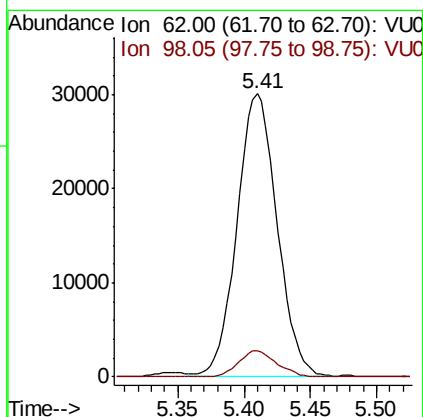
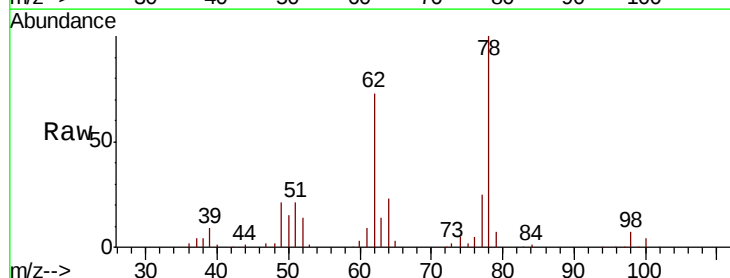
Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

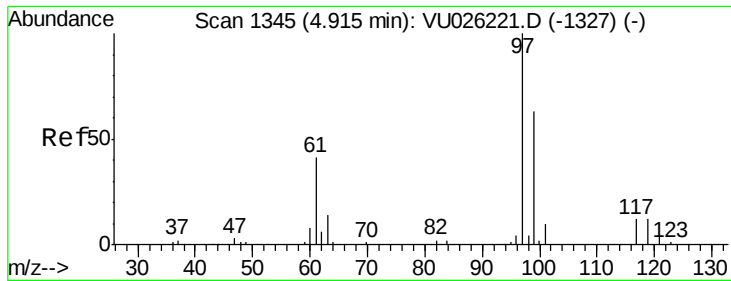
Tgt Ion: 83 Resp: 107335
Ion Ratio Lower Upper
83 100
85 61.9 45.5 84.5



#27
1,2-Dichloroethane
Concen: 5.661 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

Tgt Ion: 62 Resp: 62684
Ion Ratio Lower Upper
62 100
98 9.4 6.9 10.3

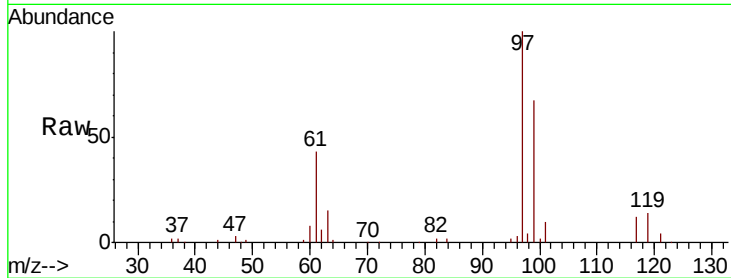




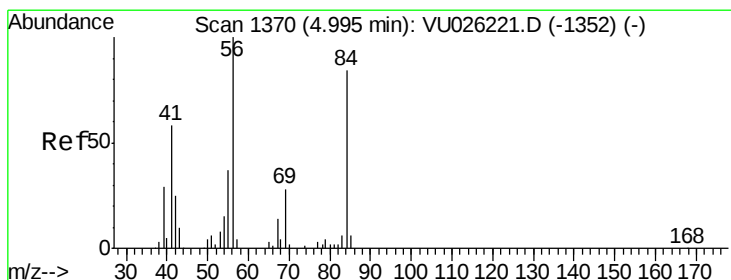
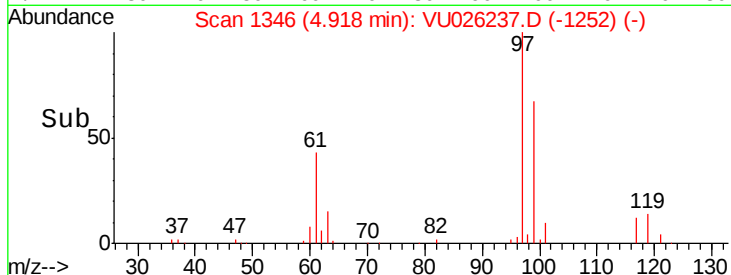
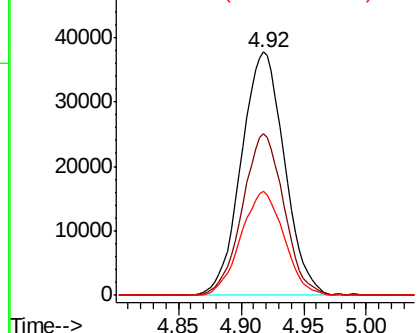
#29
 1,1,1-Trichloroethane
 Concen: 5.409 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 97 Resp: 90138
 Ion Ratio Lower Upper
 97 100
 99 64.1 52.3 78.5
 61 42.8 35.0 52.6

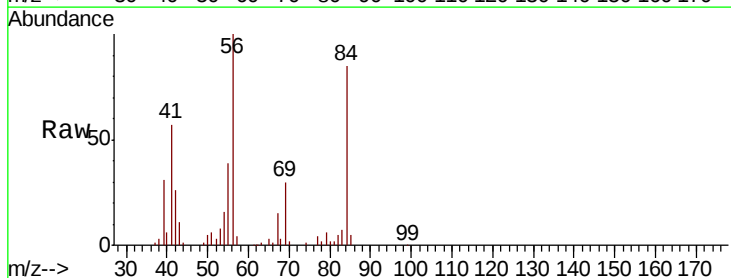


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

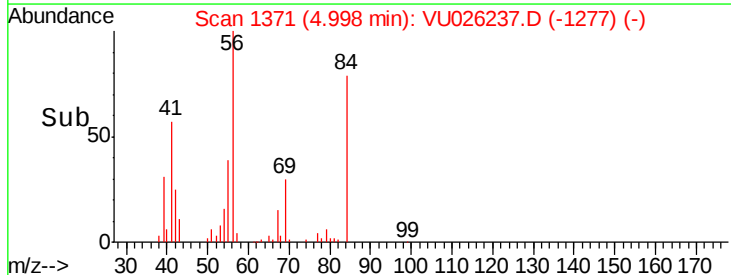
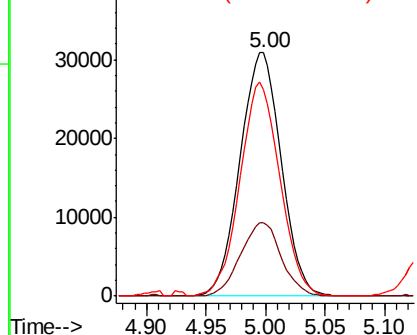


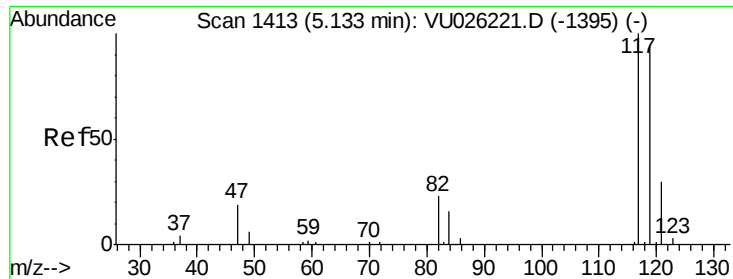
#30
 Cyclohexane
 Concen: 5.221 ug/L
 RT: 5.00 min Scan# 1371
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 56 Resp: 74051
 Ion Ratio Lower Upper
 56 100
 69 29.9 24.2 36.2
 84 85.1 69.3 103.9



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.440 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

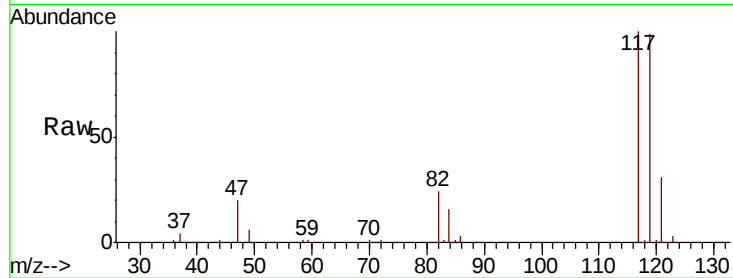
VSTD00542

Tgt Ion:117 Resp: 82461

Ion Ratio Lower Upper

117 100

119 96.9 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.14

40000

30000

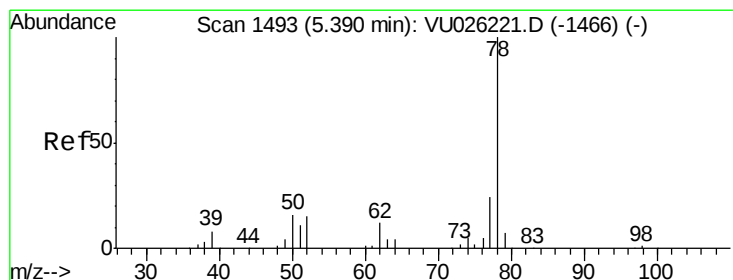
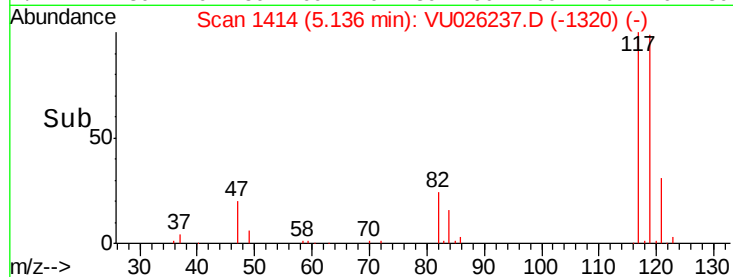
20000

10000

0

Time-->

5.10 5.20



#33

Benzene

Concen: 5.463 ug/L

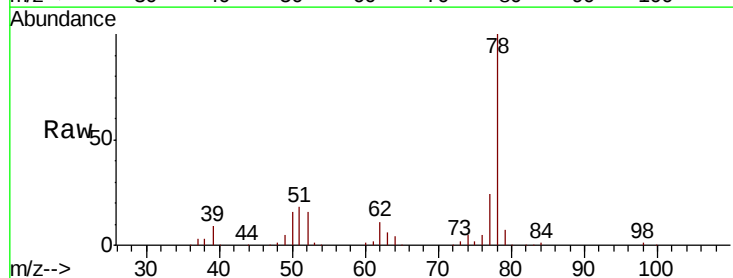
RT: 5.39 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Tgt Ion: 78 Resp: 204021



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

100000

80000

60000

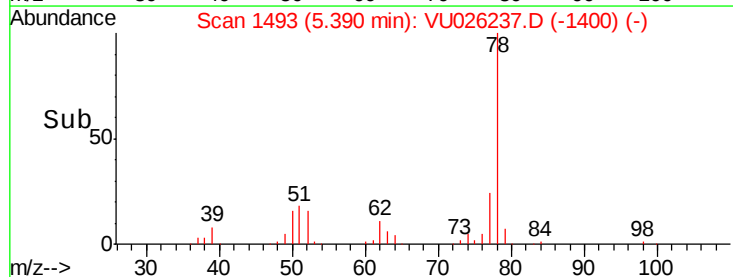
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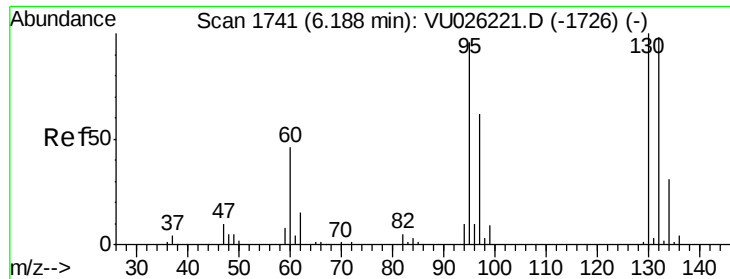
20000

0

Time-->

5.30 5.40 5.50

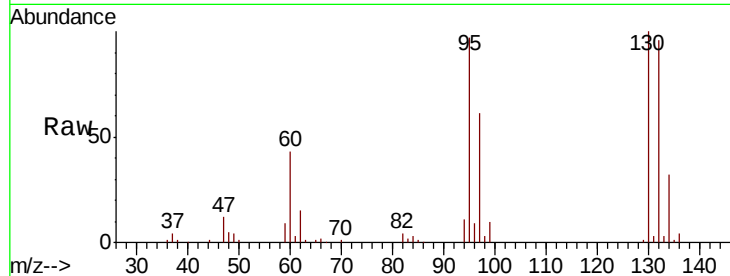




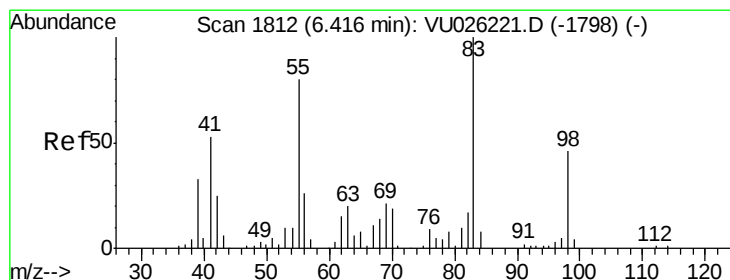
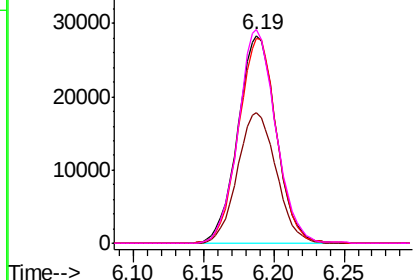
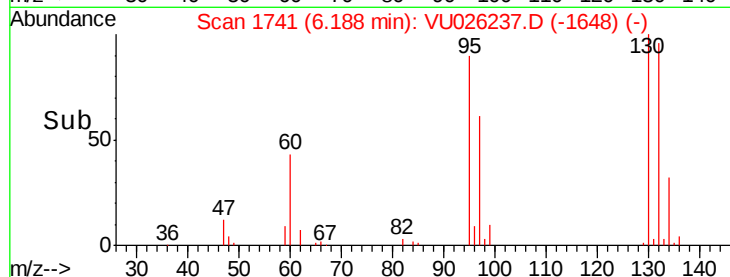
#34
 Trichloroethene
 Concen: 5.361 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 95 Resp: 53916
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.9 83.5
 132 98.8 68.2 126.6
 130 102.8 73.4 136.4

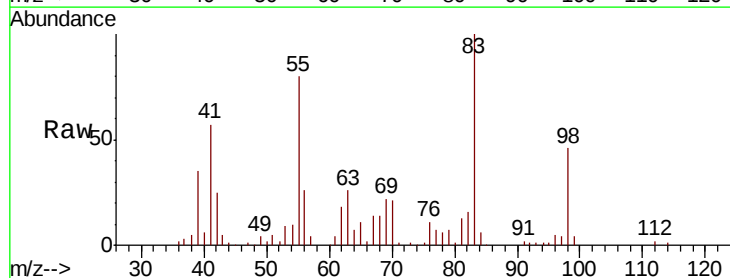


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

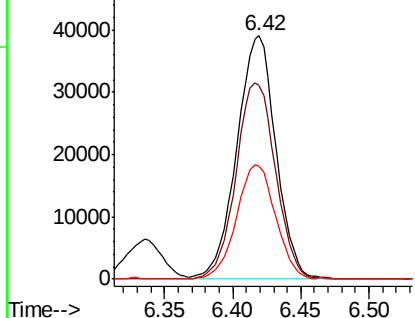
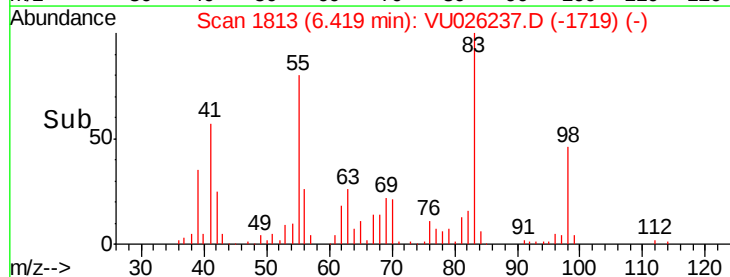


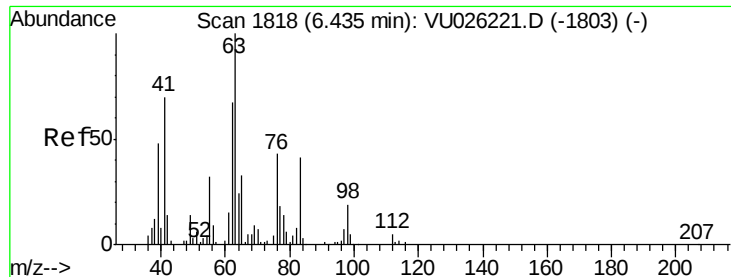
#35
 Methylcyclohexane
 Concen: 5.217 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 83 Resp: 77754
 Ion Ratio Lower Upper
 83 100
 55 81.9 65.0 97.4
 98 46.8 37.8 56.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.395 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

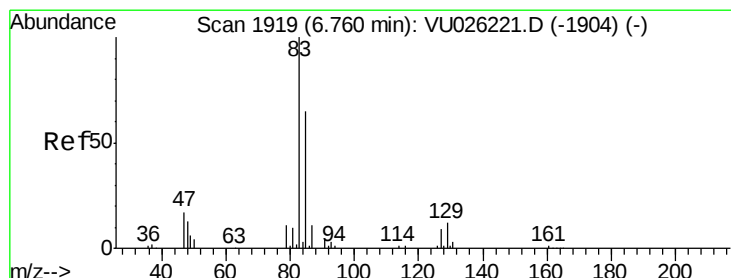
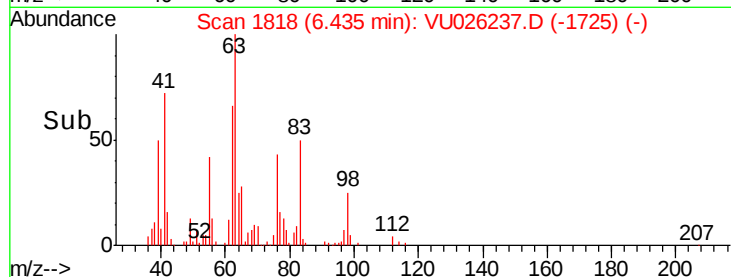
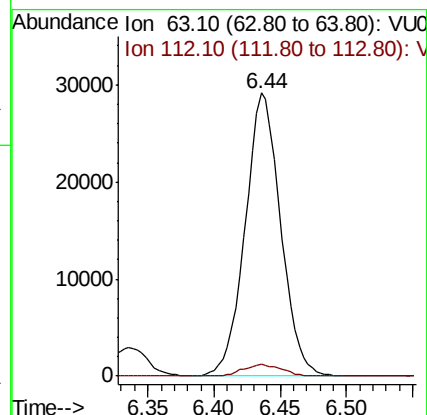
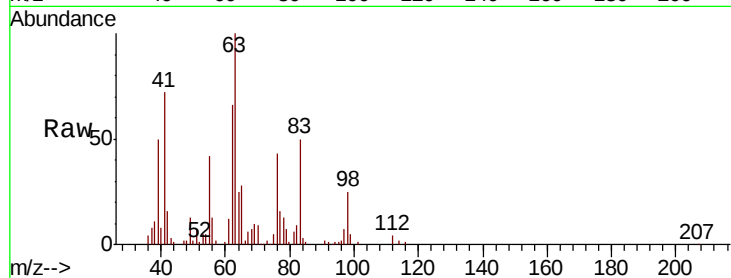
VSTD00542

Tgt Ion: 63 Resp: 54199

Ion Ratio Lower Upper

63 100

112 4.4 1.4 2.2#



#38

Bromodichloromethane

Concen: 5.451 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

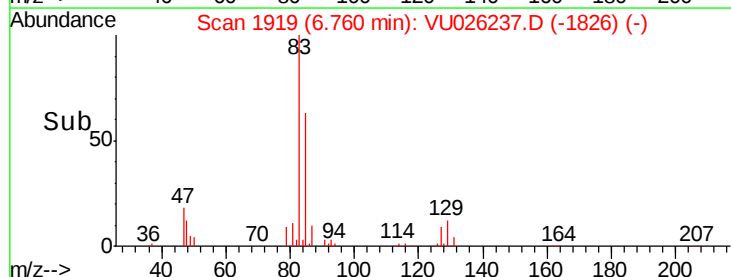
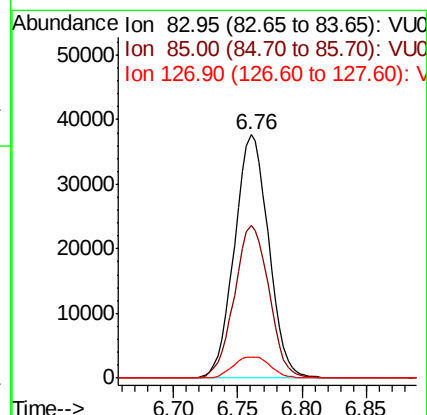
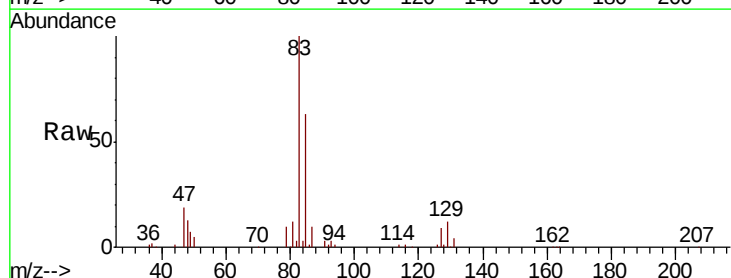
Tgt Ion: 83 Resp: 69416

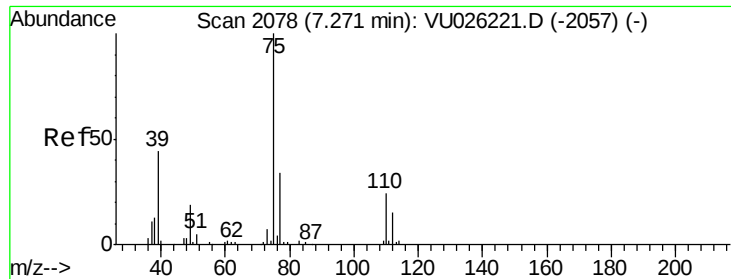
Ion Ratio Lower Upper

83 100

85 62.6 44.2 82.0

127 8.8 7.6 11.4



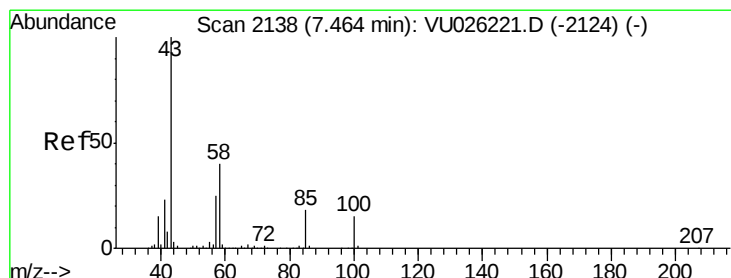
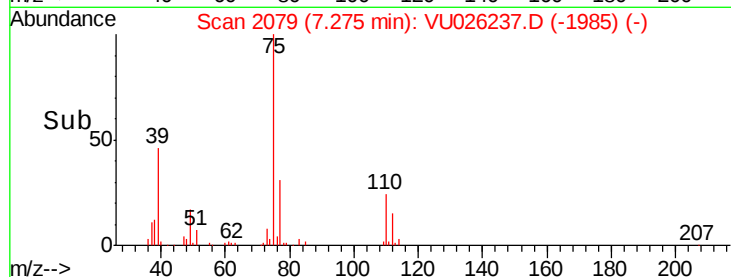
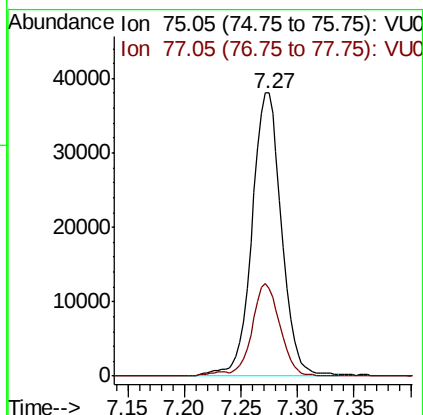
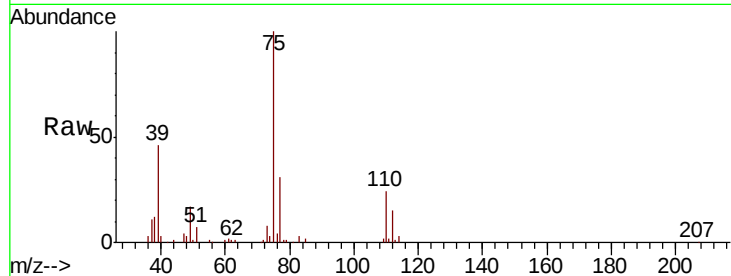


#39

cis-1,3-Dichloropropene
 Concen: 5.279 ug/L
 RT: 7.27 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

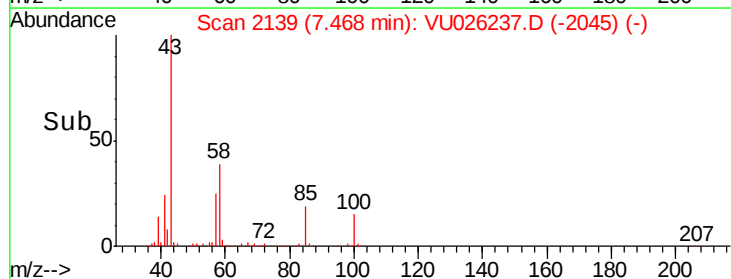
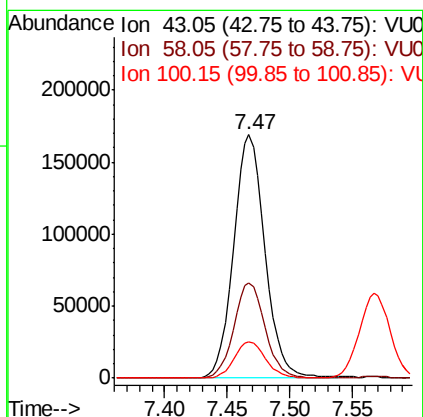
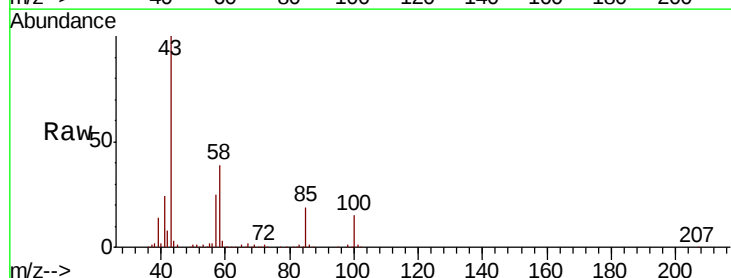
Tgt Ion: 75 Resp: 69374
 Ion Ratio Lower Upper
 75 100
 77 31.1 23.3 43.3

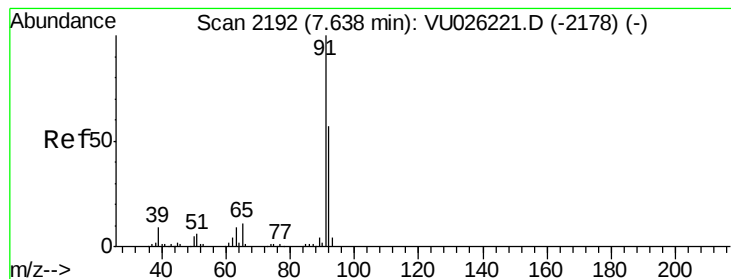


#40

4-Methyl-2-pentanone
 Concen: 54.439 ug/L
 RT: 7.47 min Scan# 2139
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 43 Resp: 293799
 Ion Ratio Lower Upper
 43 100
 58 38.8 29.8 44.8
 100 14.9 11.6 17.4





#42

Toluene

Concen: 5.648 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

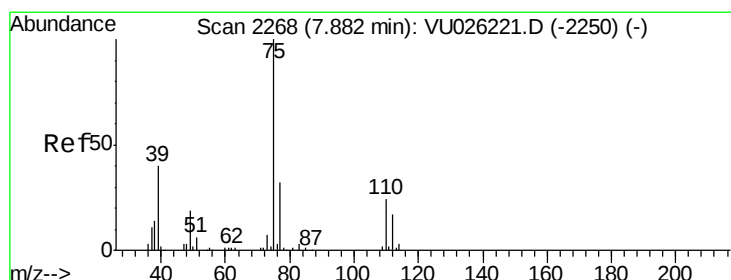
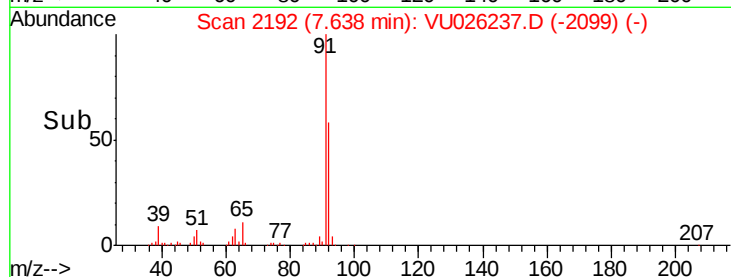
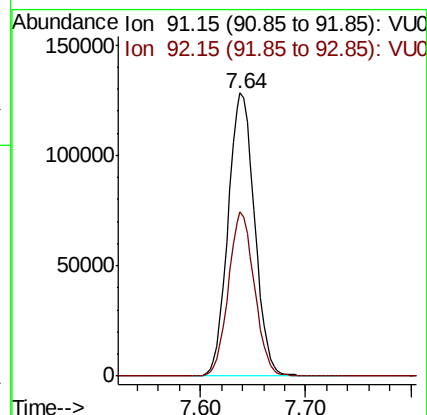
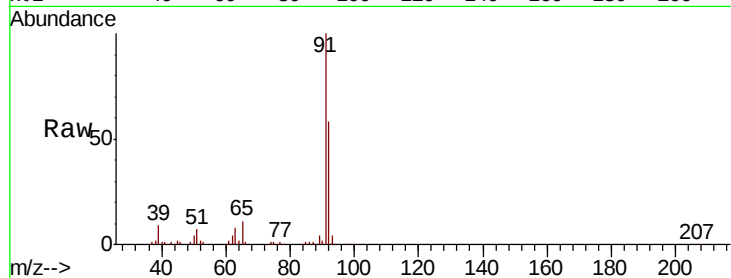
VSTD00542

Tgt Ion: 91 Resp: 222574

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 5.518 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026237.D

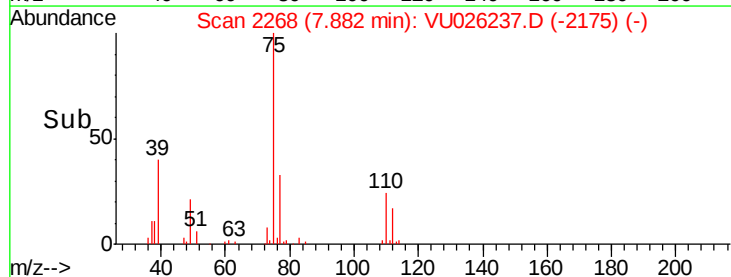
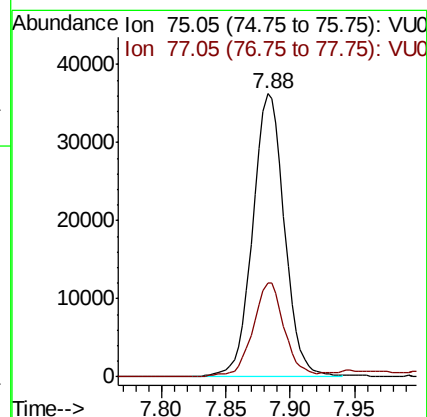
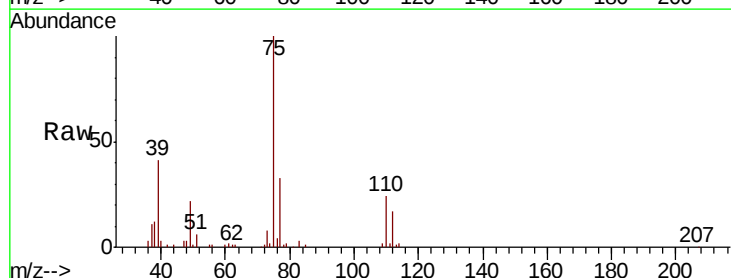
Acq: 21 Aug 2018 16:59

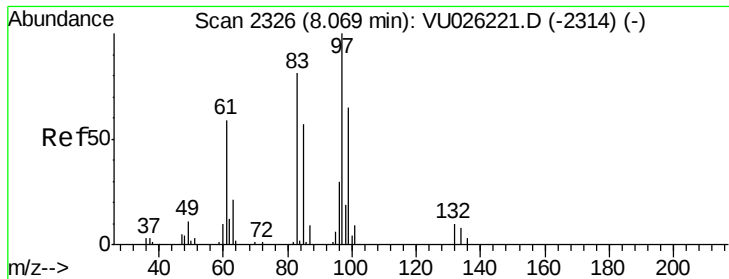
Tgt Ion: 75 Resp: 62478

Ion Ratio Lower Upper

75 100

77 33.3 22.7 42.3

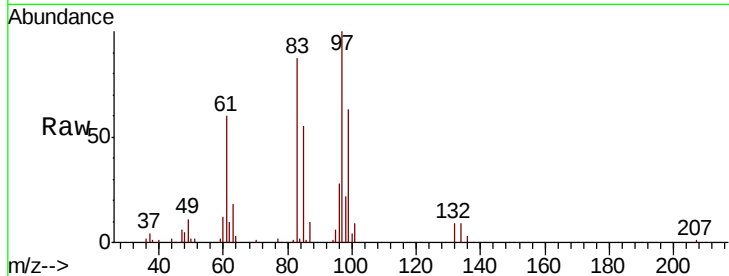




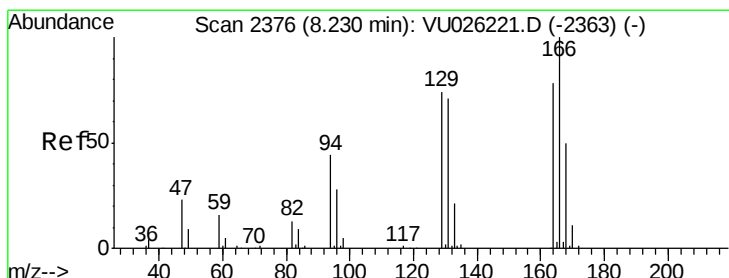
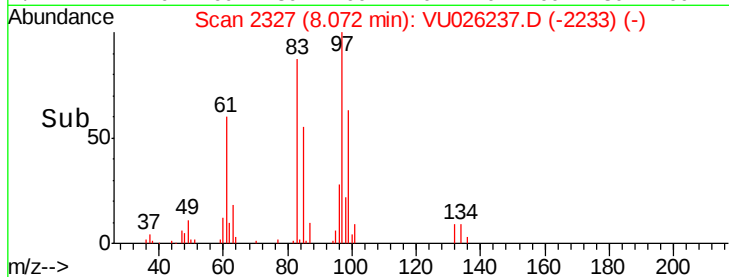
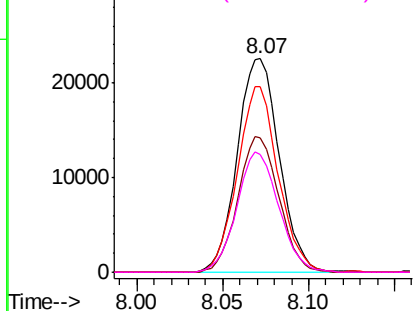
#45
 1,1,2-Trichloroethane
 Concen: 5.553 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 97 Resp: 38211
 Ion Ratio Lower Upper
 97 100
 99 62.9 42.1 78.3
 83 87.1 59.2 110.0
 85 54.9 37.9 70.3

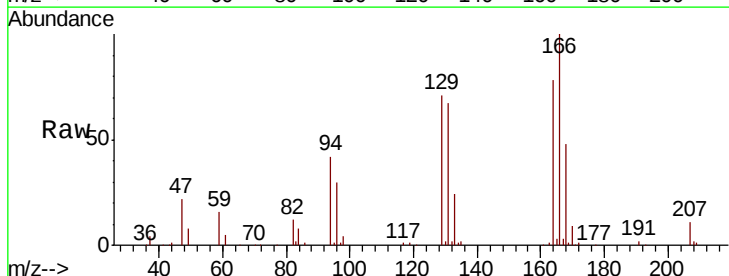


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

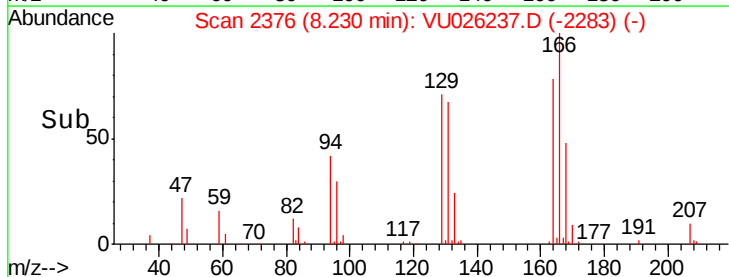
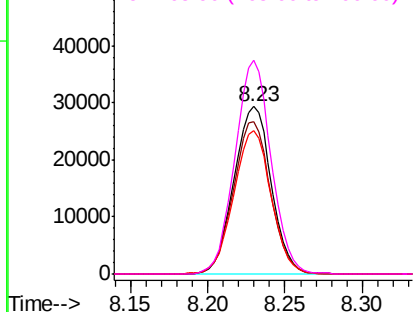


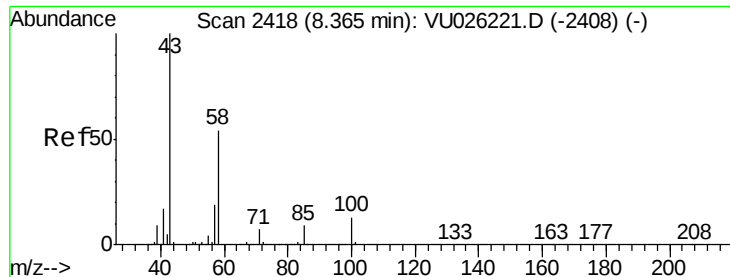
#47
 Tetrachloroethene
 Concen: 5.578 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 164 Resp: 49077
 Ion Ratio Lower Upper
 164 100
 129 91.1 66.1 122.8
 131 85.9 61.4 114.0
 166 127.6 89.1 165.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

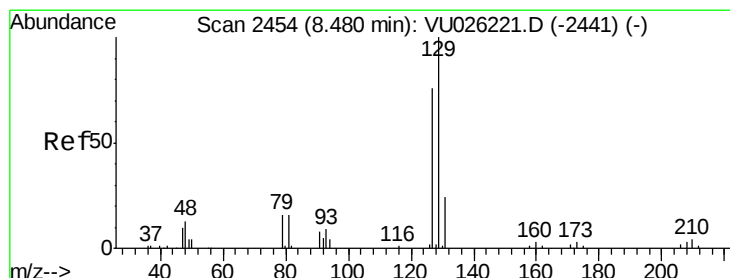
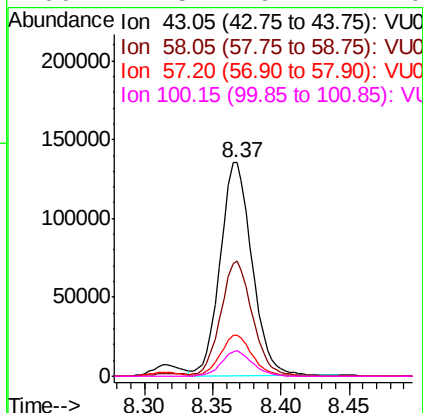
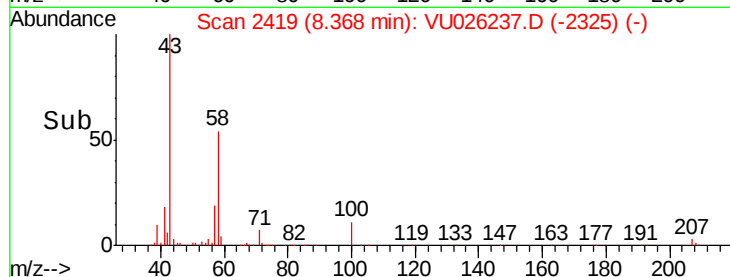
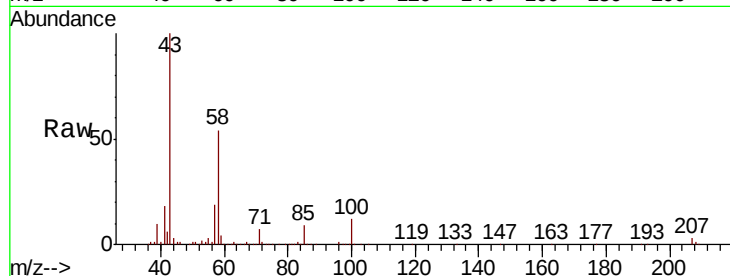




#48
2-Hexanone
Concen: 58.380 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

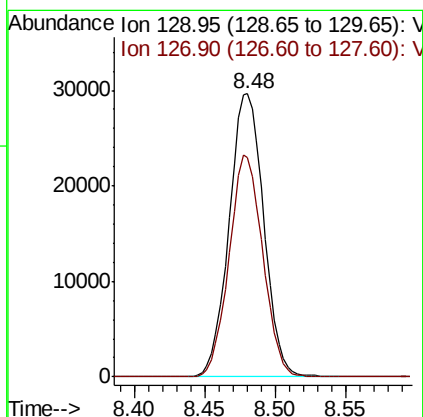
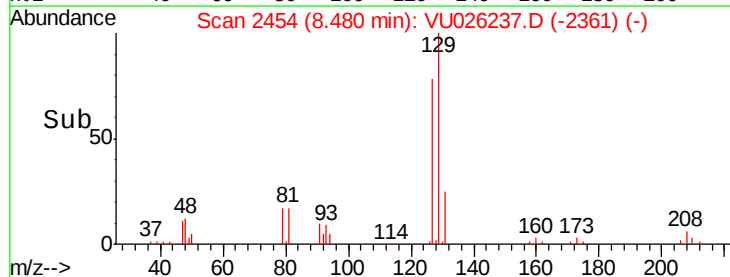
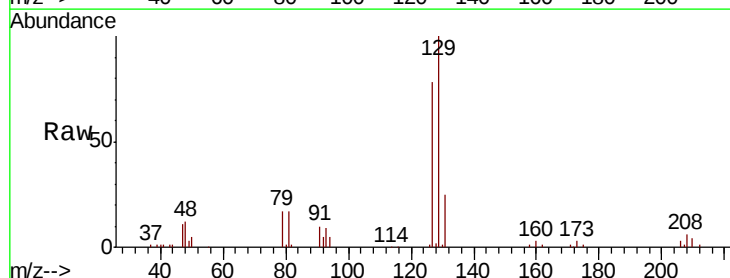
Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

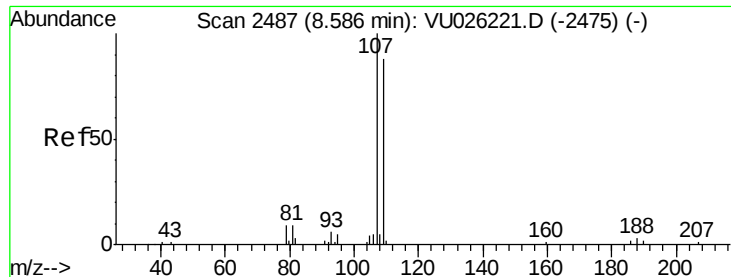
Tgt Ion: 43 Resp: 219908
Ion Ratio Lower Upper
43 100
58 54.2 43.1 64.7
57 19.4 15.4 23.0
100 11.5 9.4 14.0



#49
Dibromochloromethane
Concen: 5.638 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

Tgt Ion: 129 Resp: 50910
Ion Ratio Lower Upper
129 100
127 77.7 54.9 101.9

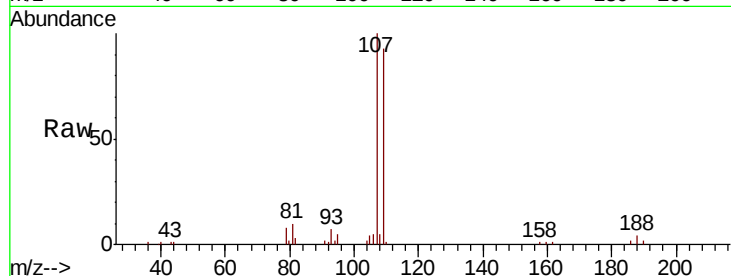




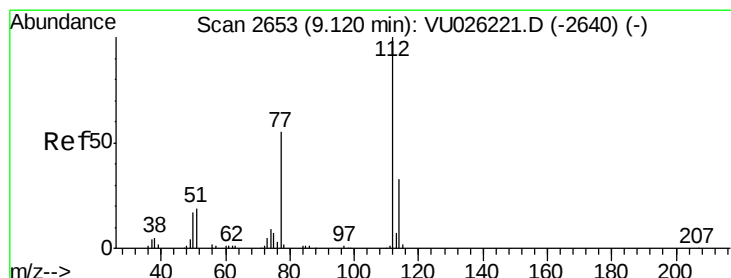
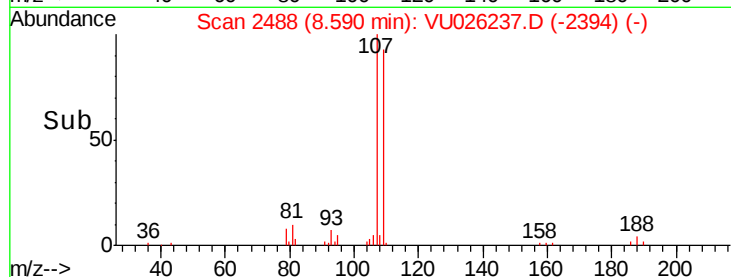
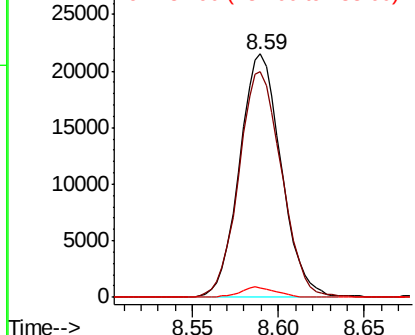
#50
1,2-Dibromoethane
Concen: 5.531 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

Tgt Ion:107 Resp: 36214
Ion Ratio Lower Upper
107 100
109 92.9 65.3 121.3
188 3.9 3.0 4.4

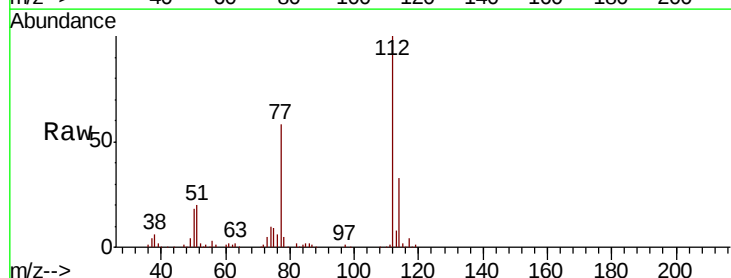


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

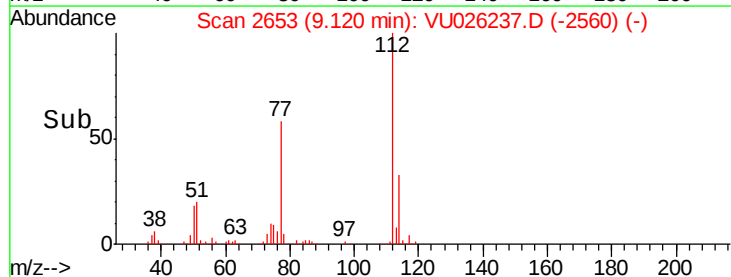
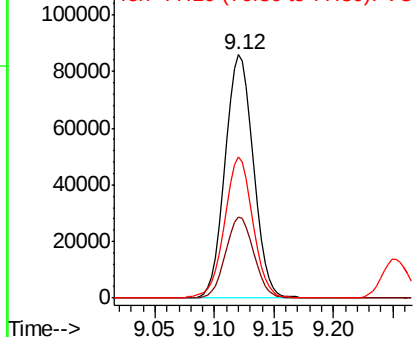


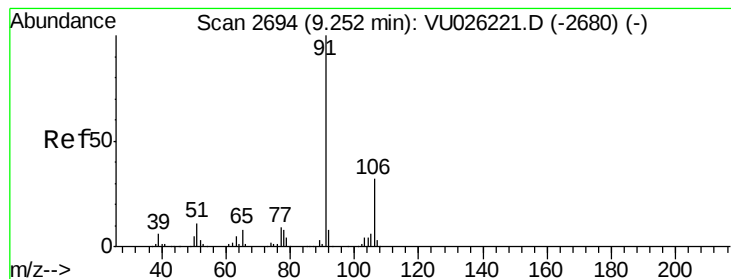
#51
Chlorobenzene
Concen: 5.379 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU026237.D
Acq: 21 Aug 2018 16:59

Tgt Ion:112 Resp: 142184
Ion Ratio Lower Upper
112 100
114 33.5 22.5 41.7
77 58.2 45.8 68.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.363 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

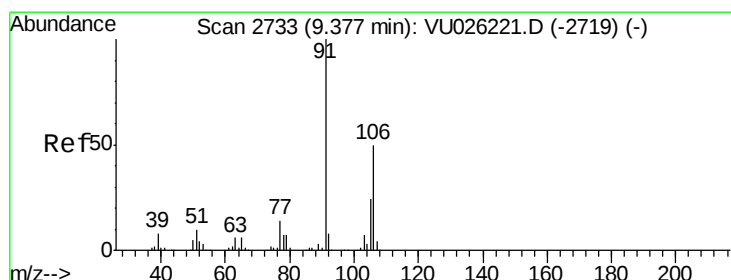
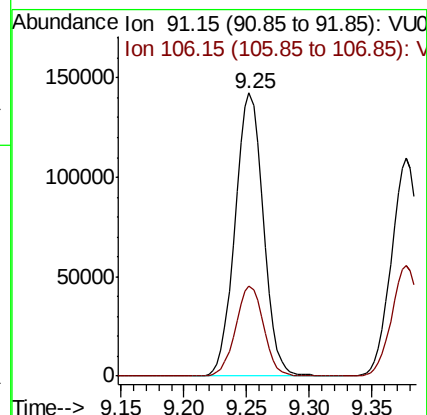
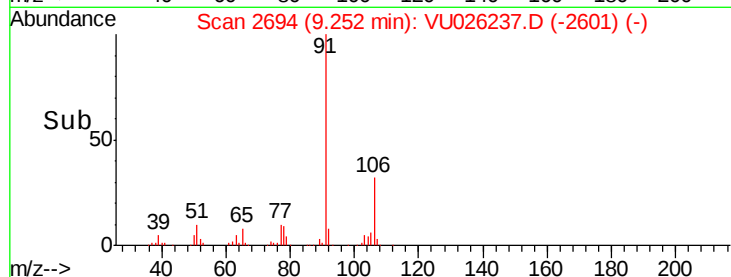
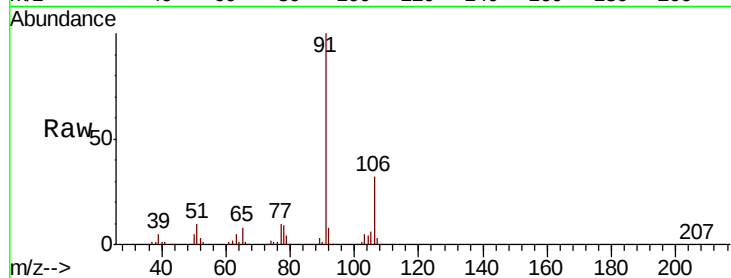
VSTD00542

Tgt Ion: 91 Resp: 222714

Ion Ratio Lower Upper

91 100

106 31.8 22.5 41.9



#53

m,p-xylene

Concen: 5.671 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026237.D

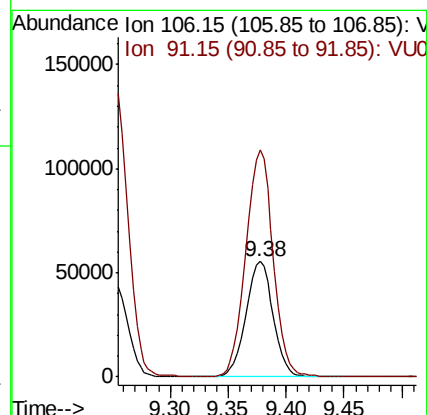
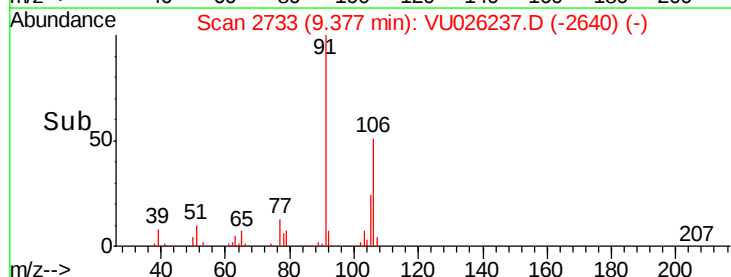
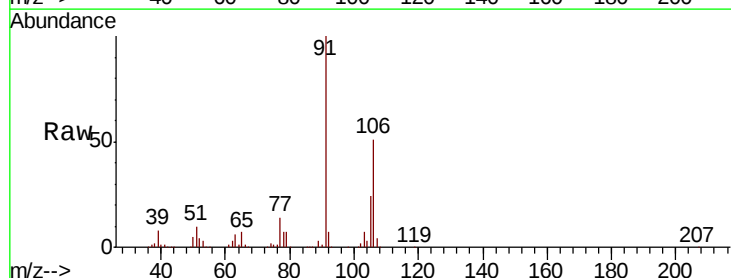
Acq: 21 Aug 2018 16:59

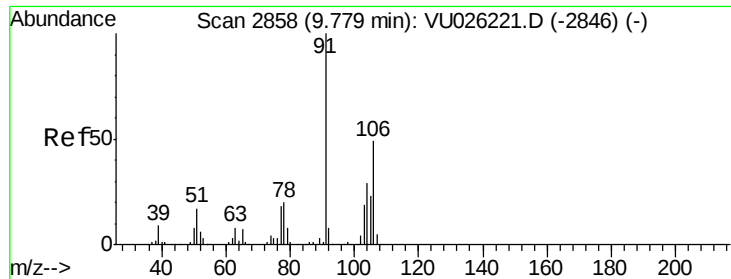
Tgt Ion: 106 Resp: 90496

Ion Ratio Lower Upper

106 100

91 196.9 138.9 257.9





#54

o-xylene

Concen: 5.515 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

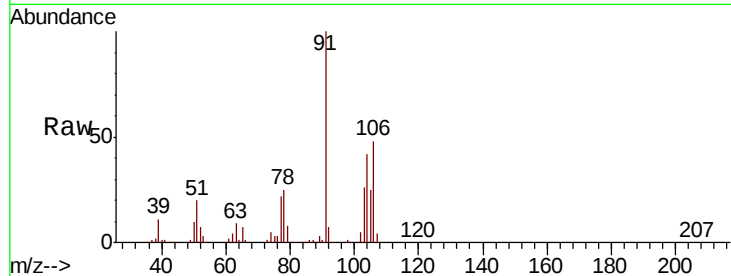
VSTD00542

Tgt Ion:106 Resp: 84226

Ion Ratio Lower Upper

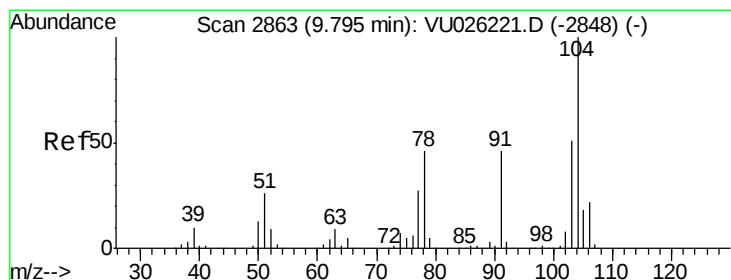
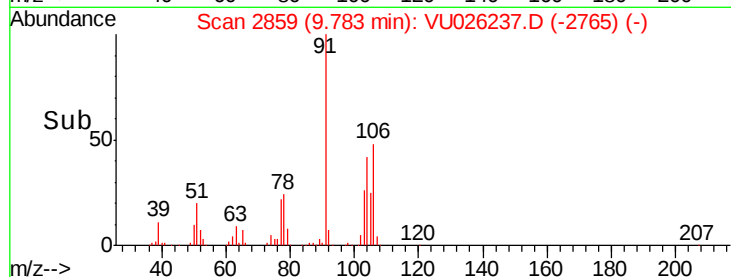
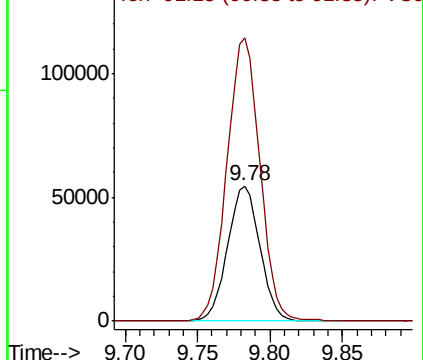
106 100

91 209.3 150.7 279.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.796 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU026237.D

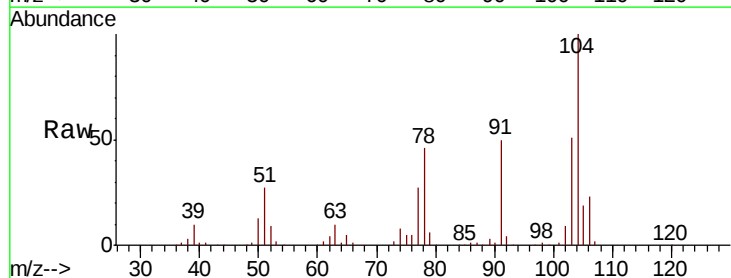
Acq: 21 Aug 2018 16:59

Tgt Ion:104 Resp: 150691

Ion Ratio Lower Upper

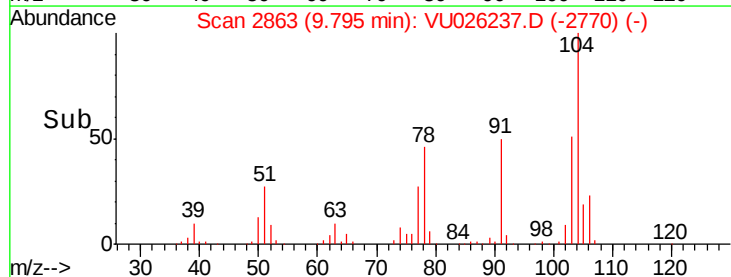
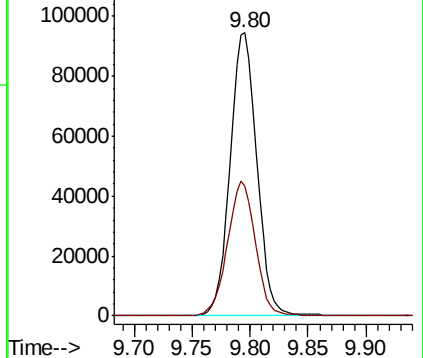
104 100

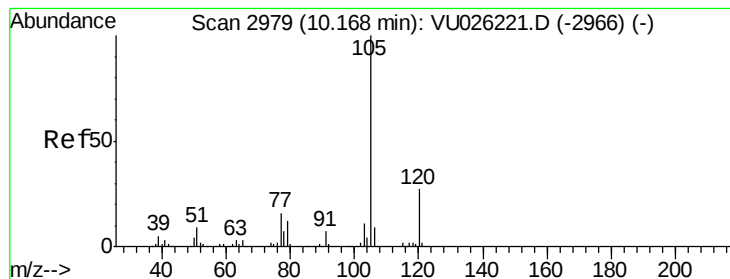
78 46.1 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.566 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

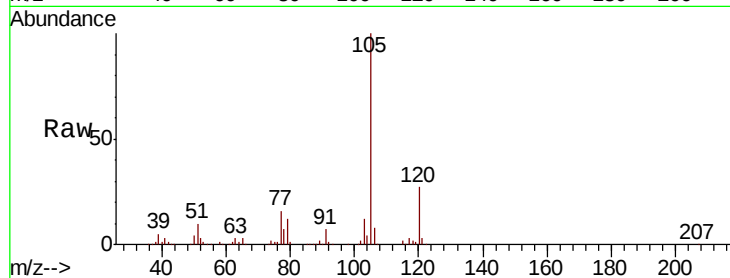
Tgt Ion:105 Resp: 224841

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

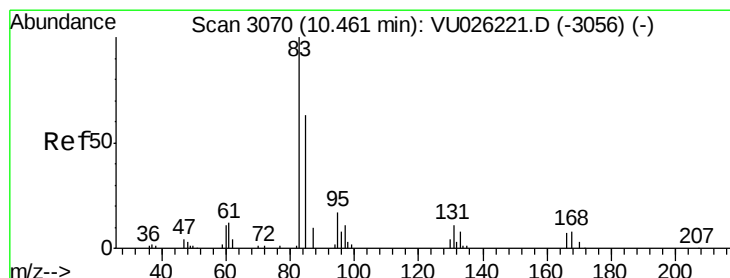
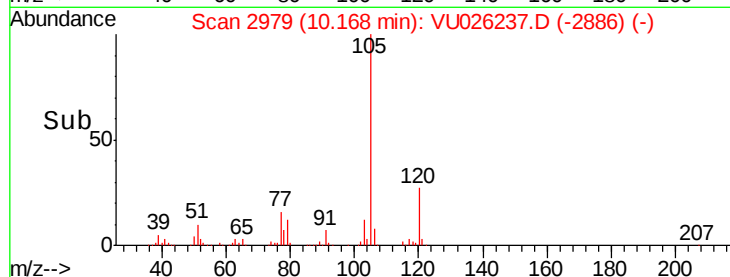
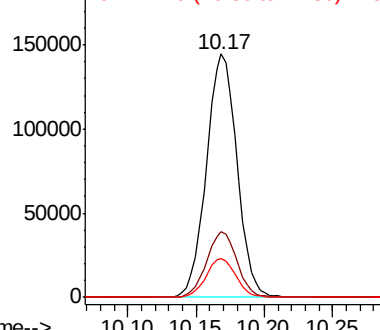
77 15.6 12.4 18.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.485 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

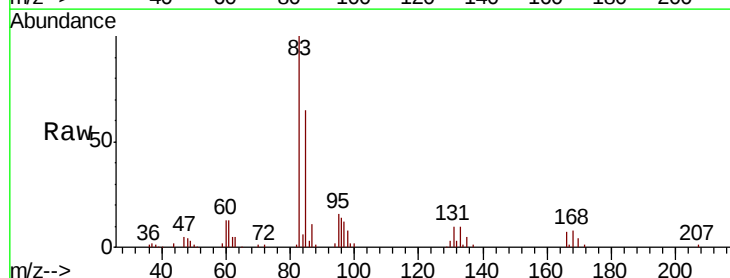
Tgt Ion: 83 Resp: 46287

Ion Ratio Lower Upper

83 100

85 65.0 45.7 84.9

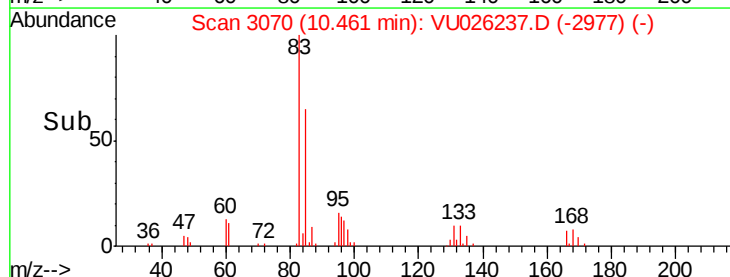
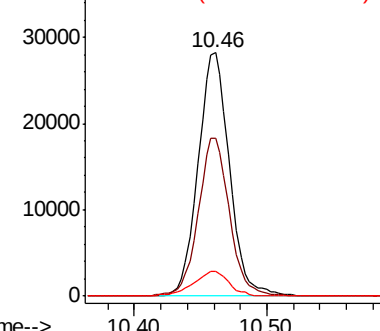
131 10.1 7.7 11.5

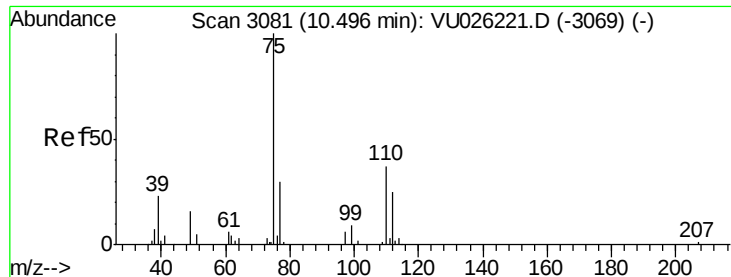


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

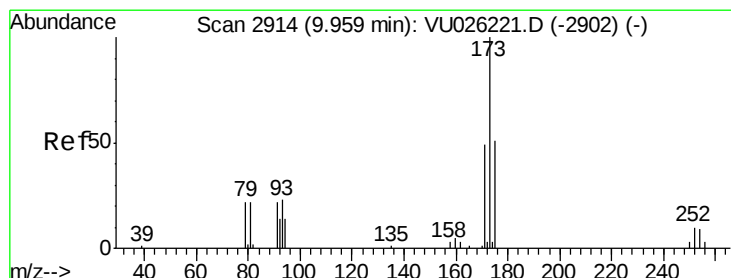
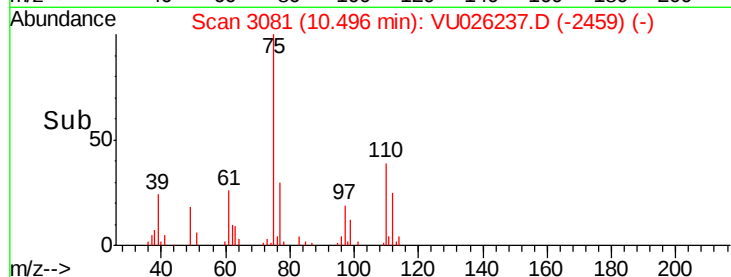
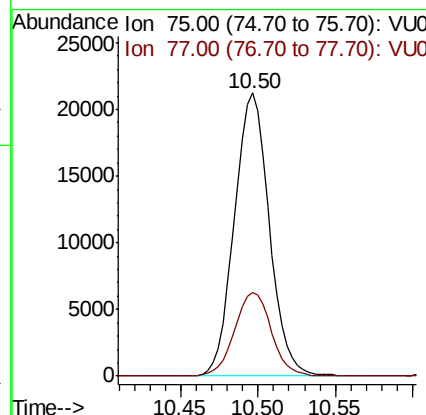
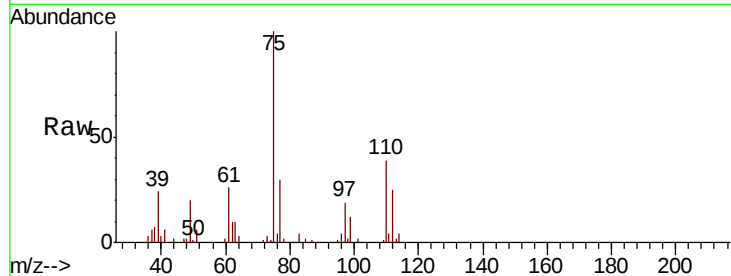




#59
 1,2,3-Trichloropropane
 Concen: 5.477 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

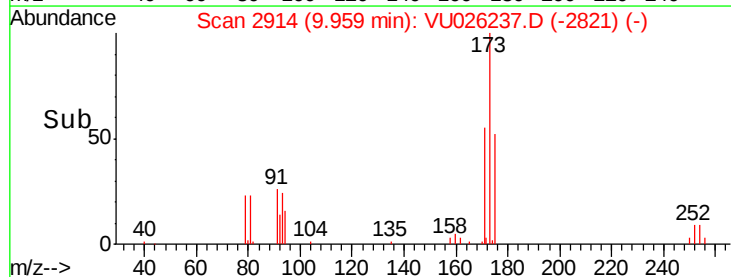
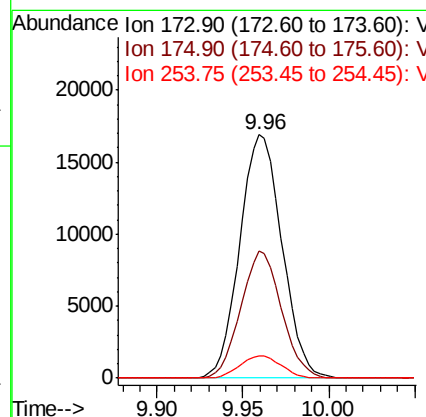
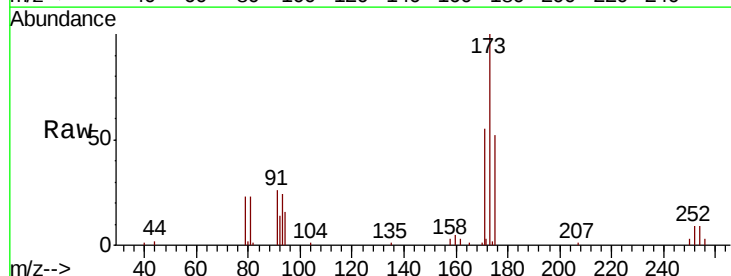
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

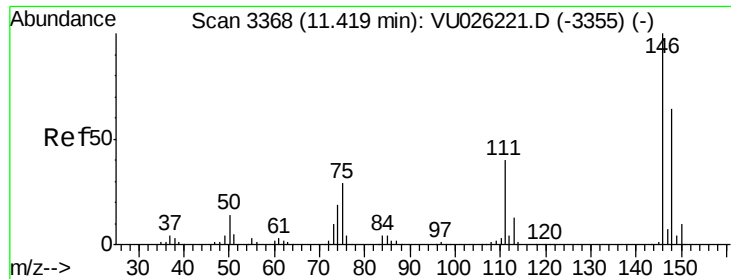
Tgt Ion: 75 Resp: 33239
 Ion Ratio Lower Upper
 75 100
 77 31.0 29.0 43.4



#61
 Bromoform
 Concen: 5.512 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion: 173 Resp: 28718
 Ion Ratio Lower Upper
 173 100
 175 50.2 39.0 58.6
 254 8.9 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 5.169 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

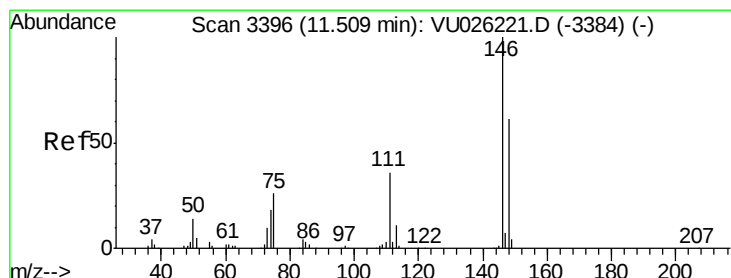
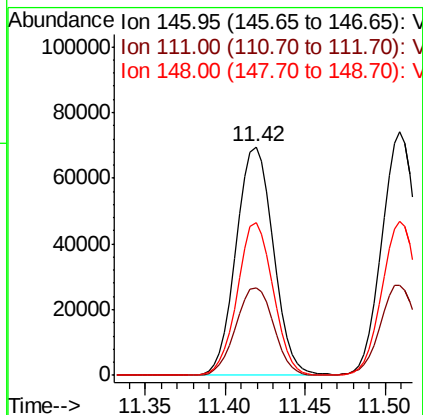
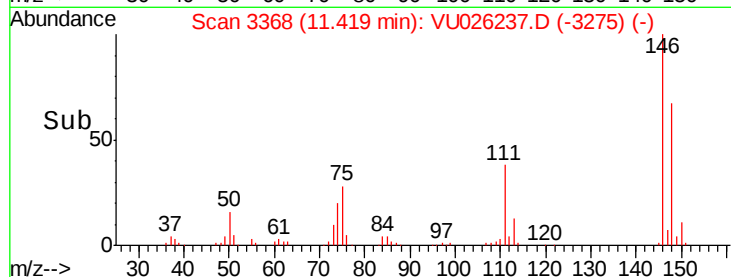
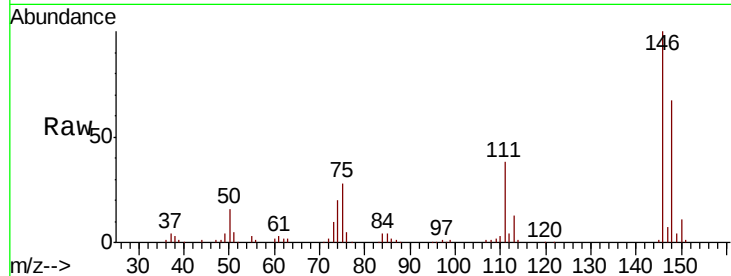
Tgt Ion:146 Resp: 110232

Ion Ratio Lower Upper

146 100

111 38.3 27.9 51.7

148 66.9 44.2 82.0



#63

1,4-Dichlorobenzene

Concen: 5.088 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

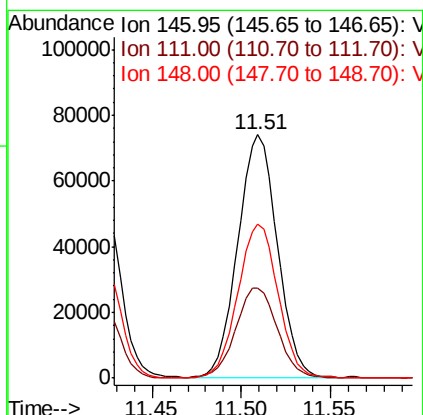
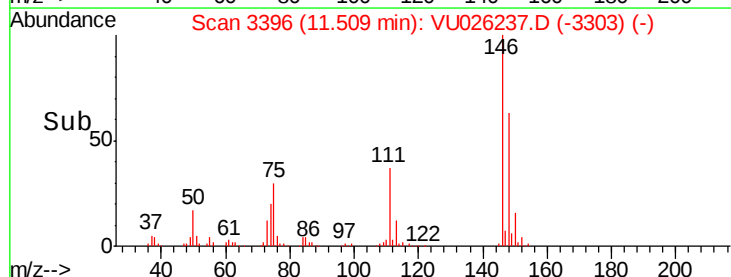
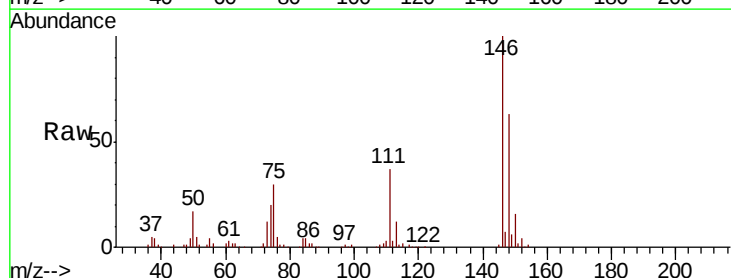
Tgt Ion:146 Resp: 114403

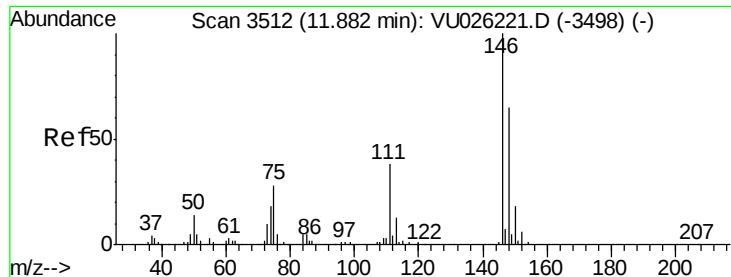
Ion Ratio Lower Upper

146 100

111 37.2 26.8 49.8

148 63.5 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 5.355 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

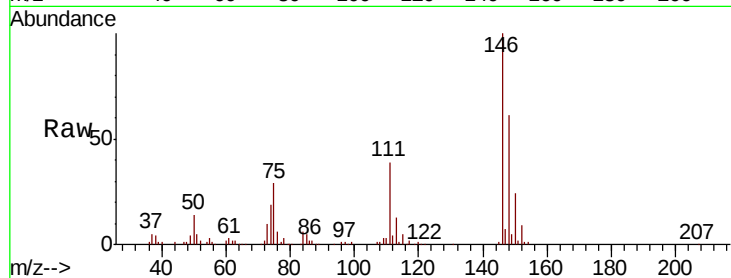
Tgt Ion:146 Resp: 113149

Ion Ratio Lower Upper

146 100

111 38.7 33.0 49.4

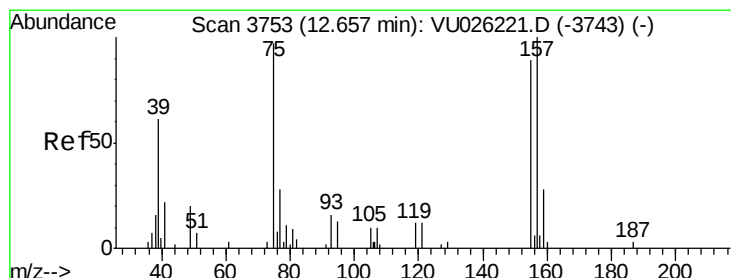
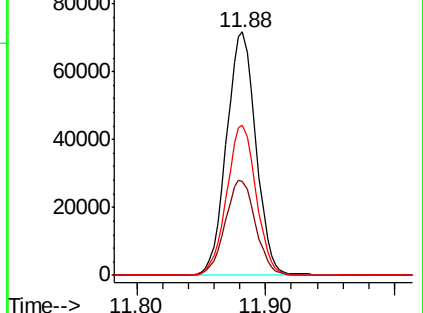
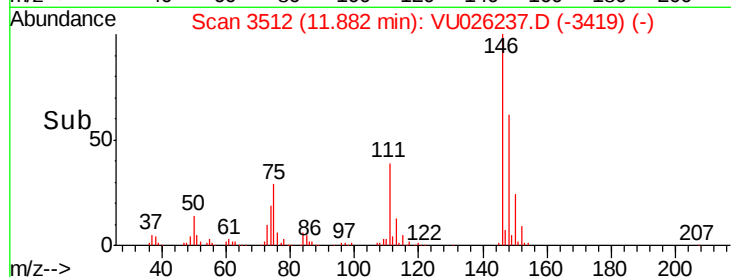
148 61.5 51.4 77.0



Abundance Ion 145.95 (145.65 to 146.65): 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: 5.143 ug/L

RT: 12.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

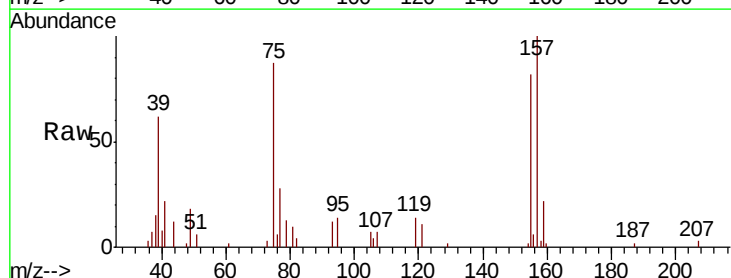
Tgt Ion: 75 Resp: 7484

Ion Ratio Lower Upper

75 100

155 94.7 66.2 99.4

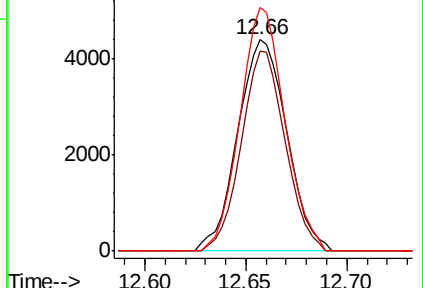
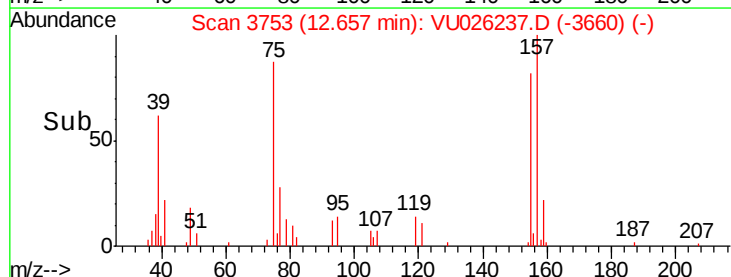
157 115.2 84.2 126.4

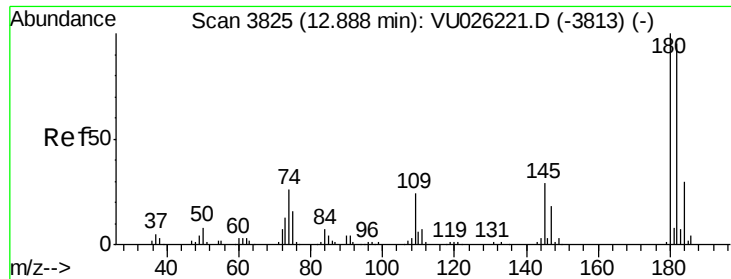


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

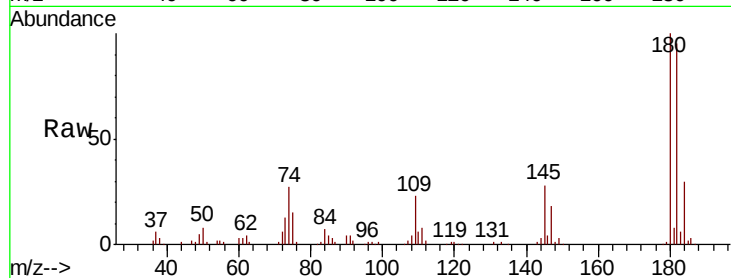




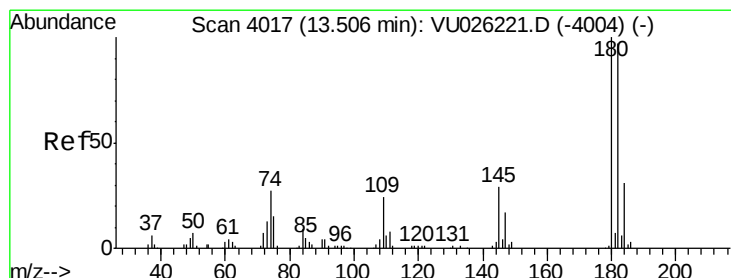
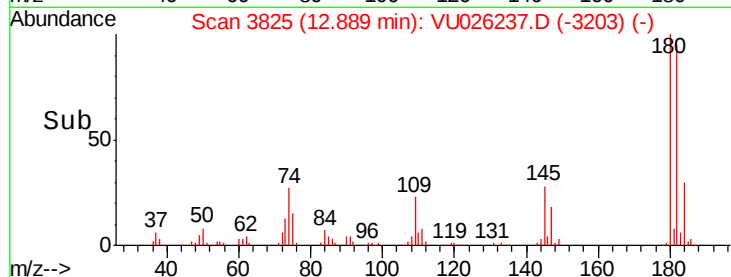
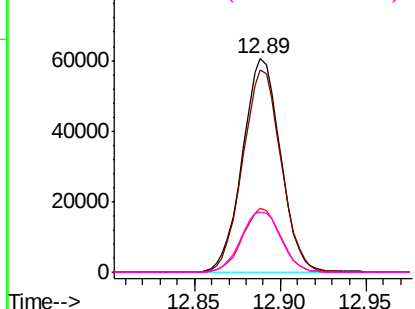
#67
 1,3,5-Trichlorobenzene
 Concen: 5.584 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion:180 Resp: 92705
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.8 113.8
 184 29.8 24.2 36.2
 145 29.8 23.7 35.5

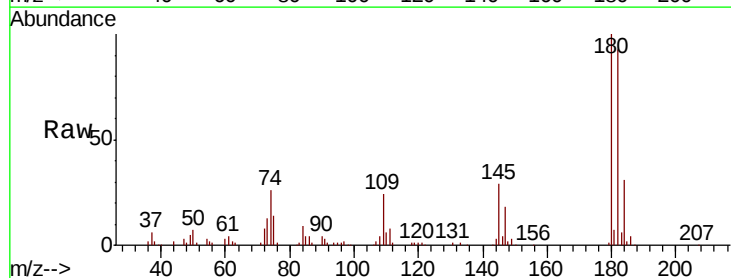


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

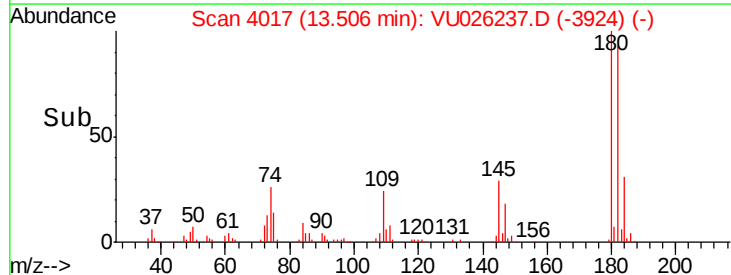
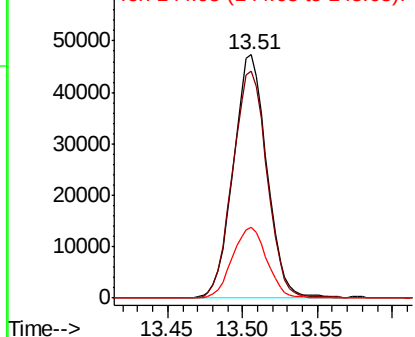


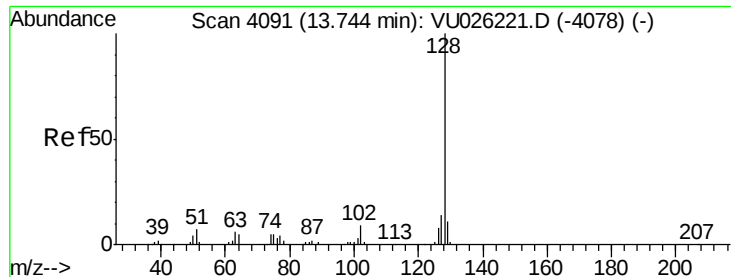
#68
 1,2,4-trichlorobenzene
 Concen: 5.753 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026237.D
 Acq: 21 Aug 2018 16:59

Tgt Ion:180 Resp: 73958
 Ion Ratio Lower Upper
 180 100
 182 96.1 77.9 116.9
 145 29.9 24.2 36.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.736 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

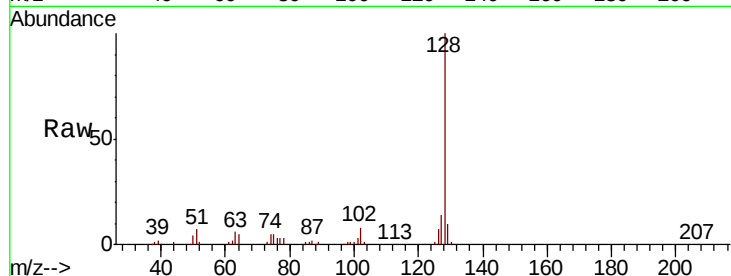
Tgt Ion:128 Resp: 109939

Ion Ratio Lower Upper

128 100

129 10.4 8.6 13.0

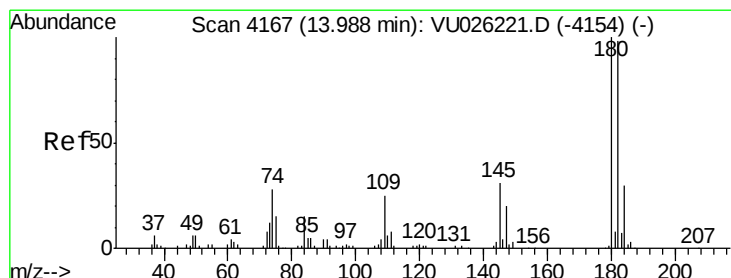
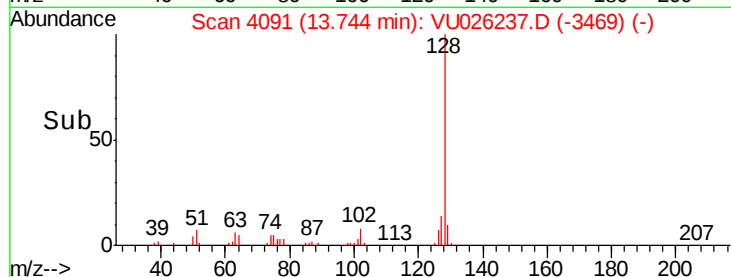
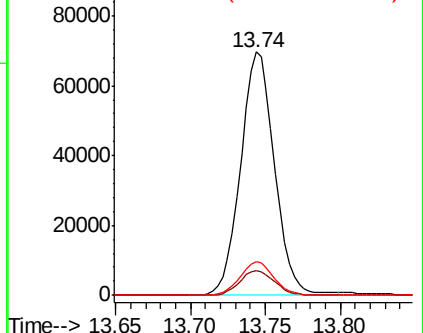
127 13.7 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.950 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. 0.00 min

Lab File: VU026237.D

Acq: 21 Aug 2018 16:59

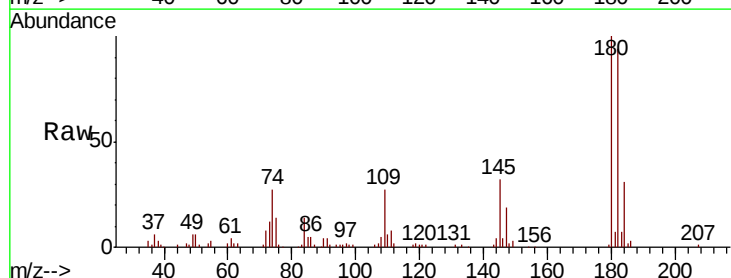
Tgt Ion:180 Resp: 72925

Ion Ratio Lower Upper

180 100

182 95.9 77.8 116.6

145 31.1 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

