

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082218\
 Data File : VU026245.D
 Acq On : 22 Aug 2018 13:54
 Operator : MD/SY
 Sample : VSTD00545
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

Quant Time: Aug 23 04:42:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082218WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 23 04:40:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	300379	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	284547	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	143120	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	8801	4.14	ug/L	0.00
7) Chloroethane-d5	1.68	69	7234	4.26	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	17820	4.41	ug/L	0.00
21) 2-Butanone-d5	4.18	46	13942	7.91	ug/L	0.00
24) Chloroform-d	4.65	84	19517	4.29	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	13431	4.39	ug/L	0.00
32) Benzene-d6	5.35	84	36329	4.21	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	12146	4.37	ug/L	0.00
41) Toluene-d8	7.57	98	34037	4.12	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	5880	4.17	ug/L	0.00
47) 2-Hexanone-d5	8.32	63	8554	6.84	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	17457	4.29	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	16878	4.92	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	10465	4.020 ug/L	95
3) Chloromethane	1.33	50	9678	4.116 ug/L	98
5) Vinyl chloride	1.40	62	10325	4.567 ug/L	93
6) Bromomethane	1.63	94	6174	4.965 ug/L	95
8) Chloroethane	1.70	64	5610	4.123 ug/L	94
9) Trichlorofluoromethane	1.89	101	14002	4.293 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	8266	4.418 ug/L	97
12) 1,1-Dichloroethene	2.29	96	7120	4.151 ug/L	99
13) Acetone	2.32	43	11013	9.550 ug/L	100
14) Carbon disulfide	2.48	76	31744	5.469 ug/L	99
15) Methyl Acetate	2.62	43	9976	4.219 ug/L	96
16) Methylene chloride	2.70	84	9987	4.479 ug/L	92
17) trans-1,2-Dichloroethene	2.99	96	9572	4.923 ug/L	94
18) Methyl tert-butyl Ether	3.00	73	24481	3.860 ug/L	97
19) 1,1-Dichloroethane	3.45	63	15223	4.024 ug/L	97
20) cis-1,2-Dichloroethene	4.23	96	9481	4.237 ug/L	97
22) 2-Butanone	4.27	43	13325	8.147 ug/L	94
23) Bromochloromethane	4.55	128	2732	2.290 ug/L	94
25) Chloroform	4.68	83	17175	4.380 ug/L	93
27) 1,2-Dichloroethane	5.41	62	13340	4.145 ug/L	96
29) Cyclohexane	5.00	56	12281	3.869 ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	14804	4.120 ug/L	98
31) Carbon tetrachloride	5.14	117	14552	4.435 ug/L	91
33) Benzene	5.39	78	34402	4.216 ug/L	100
34) Trichloroethene	6.19	95	9825	4.631 ug/L	91
35) Methylcyclohexane	6.42	83	13581	4.160 ug/L	99
37) 1,2-Dichloropropane	6.44	63	9884	4.433 ug/L	# 88
38) Bromodichloromethane	6.76	83	12747	4.295 ug/L	94
39) cis-1,3-Dichloropropene	7.27	75	13431	4.004 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	22161	7.376 ug/L	98

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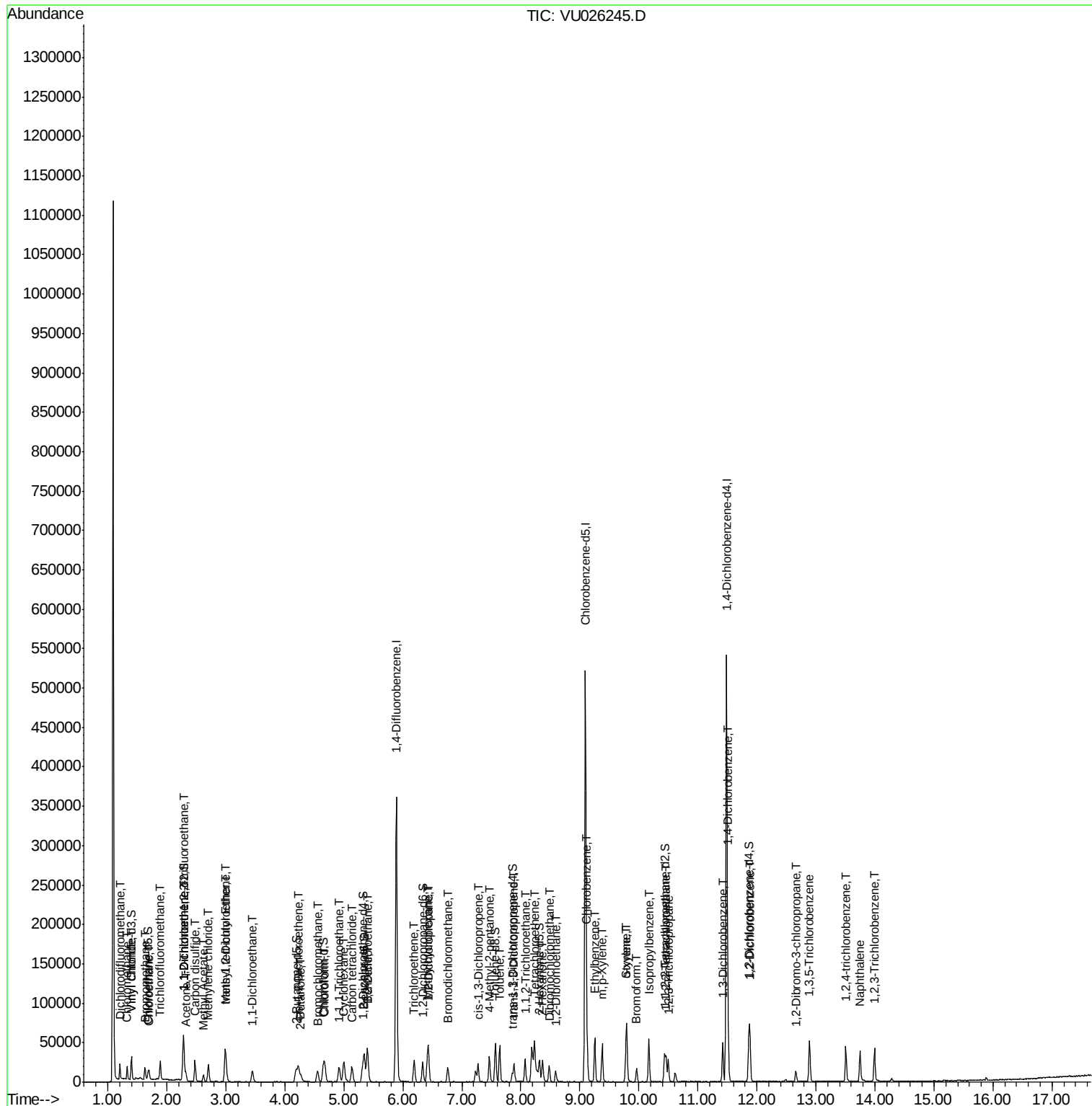
Quant Time: Aug 23 04:42:22 2018
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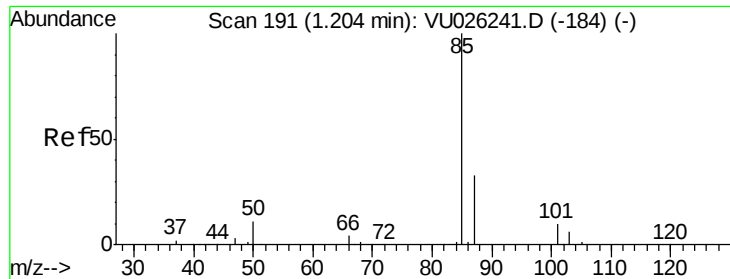
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	35187	4.066	ug/L	99
44) trans-1,3-Dichloropropene	7.89	75	12754	3.967	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	8731	4.126	ug/L	95
46) Tetrachloroethene	8.23	164	8581	4.741	ug/L	98
48) 2-Hexanone	8.37	43	19248	8.161	ug/L	90
49) Dibromochloromethane	8.48	129	10601	4.139	ug/L	93
50) 1,2-Dibromoethane	8.59	107	9699	4.192	ug/L	97
51) Chlorobenzene	9.12	112	26370	4.533	ug/L	98
52) Ethylbenzene	9.25	91	37605	3.978	ug/L	97
53) m,p-Xylene	9.38	106	14232	3.928	ug/L	97
54) o-xylene	9.78	106	13034	3.638	ug/L	100
55) Styrene	9.80	104	22012	3.670	ug/L	97
56) Isopropylbenzene	10.17	105	33935	3.686	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	14756	4.104	ug/L #	92
59) 1,2,3-Trichloropropane	10.50	75	11699	4.106	ug/L	99
61) Bromoform	9.96	173	7880	4.066	ug/L	94
62) 1,3-Dichlorobenzene	11.42	146	20686	4.625	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	22805	4.866	ug/L	93
65) 1,2-Dichlorobenzene	11.88	146	20844	4.388	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	3398	4.100	ug/L	93
67) 1,3,5-Trichlorobenzene	12.89	180	16376	4.874	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	14354	5.015	ug/L	99
69) Naphthalene	13.75	128	33473	3.670	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	14605	4.765	ug/L	99

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

```
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#2

Dichlorodifluoromethane

Concen: 4.020 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

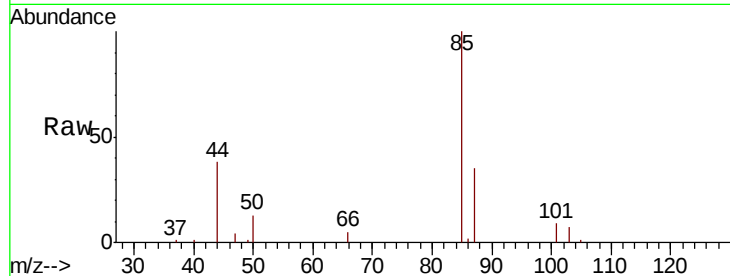
VSTD00545

Tgt Ion: 85 Resp: 10465

Ion Ratio Lower Upper

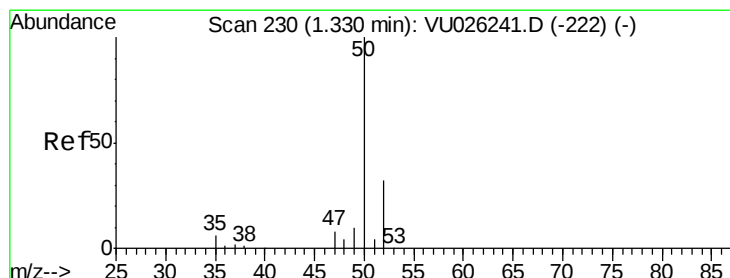
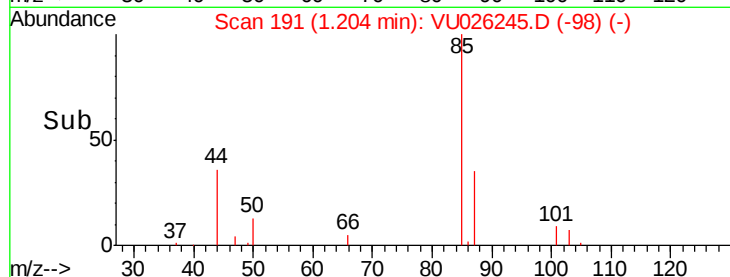
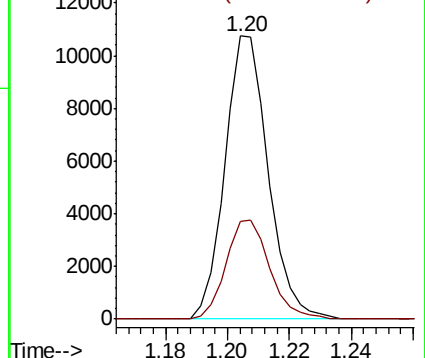
85 100

87 35.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.116 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU026245.D

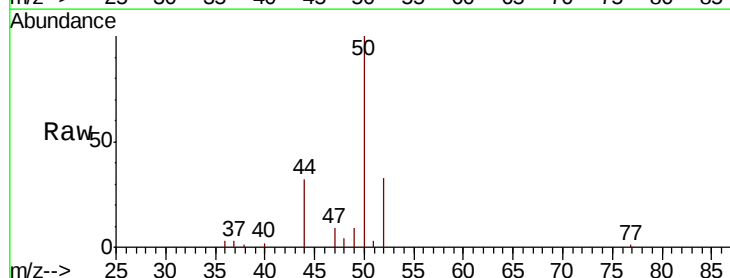
Acq: 22 Aug 2018 13:54

Tgt Ion: 50 Resp: 9678

Ion Ratio Lower Upper

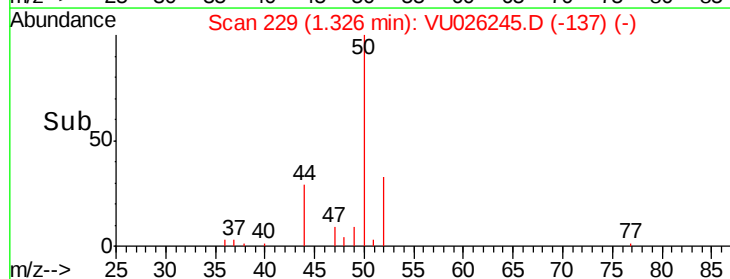
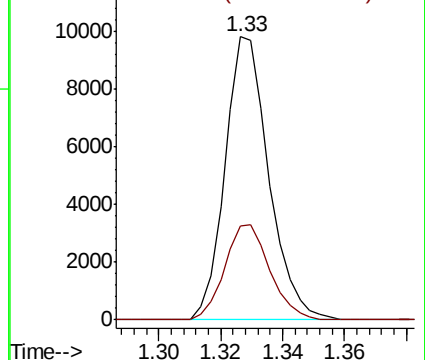
50 100

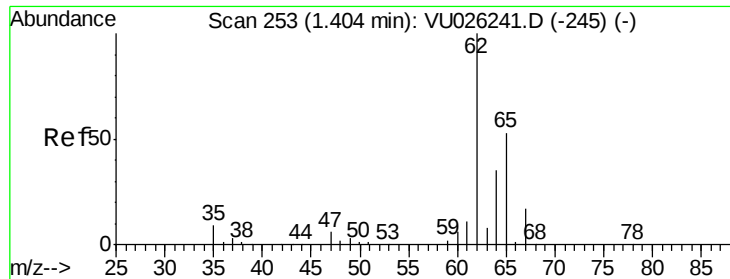
52 33.3 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

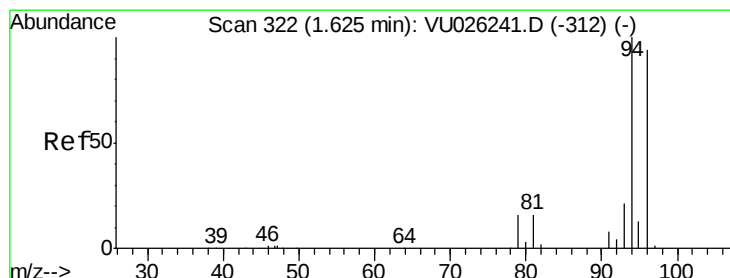
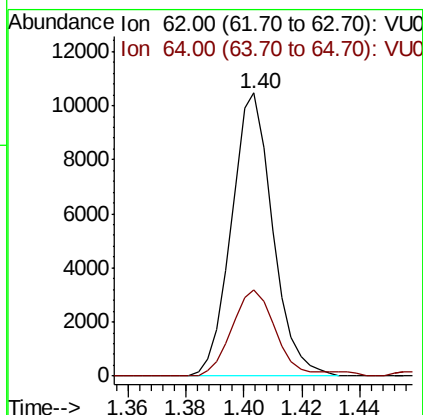
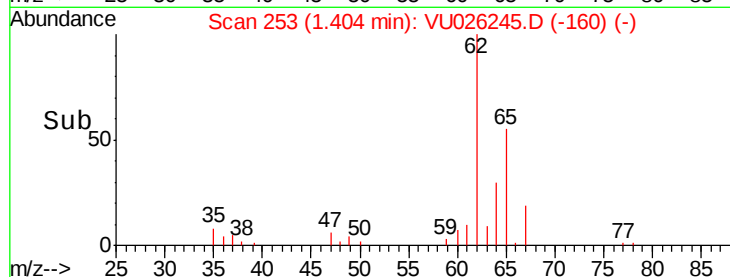
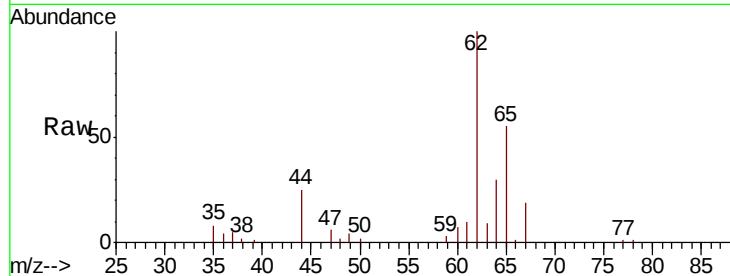




#5
 Vinyl chloride
 Concen: 4.567 ug/L
 RT: 1.40 min Scan# 253
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

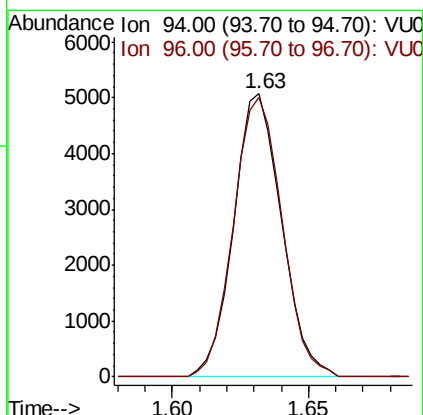
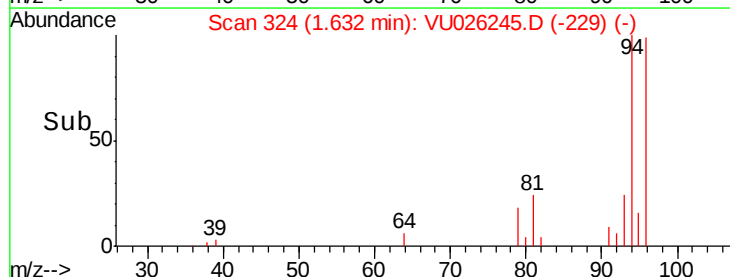
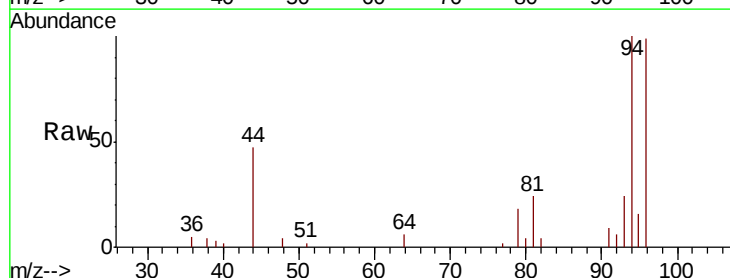
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

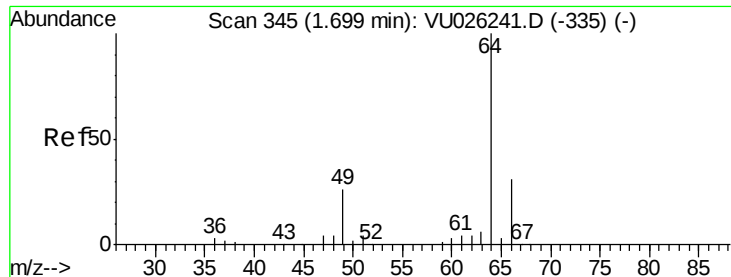
Tgt Ion: 62 Resp: 10325
 Ion Ratio Lower Upper
 62 100
 64 30.3 24.2 45.0



#6
 Bromomethane
 Concen: 4.965 ug/L
 RT: 1.63 min Scan# 324
 Delta R.T. 0.01 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion: 94 Resp: 6174
 Ion Ratio Lower Upper
 94 100
 96 98.7 65.9 122.3

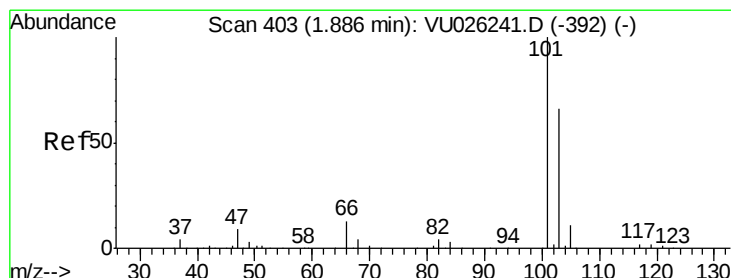
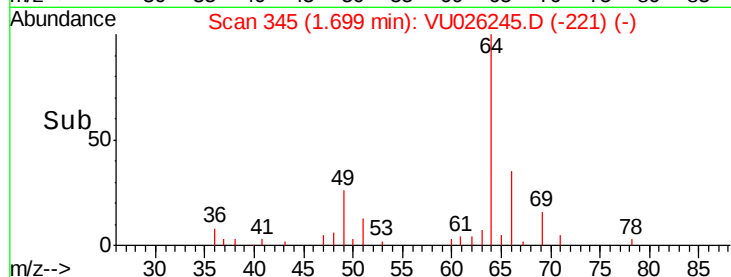
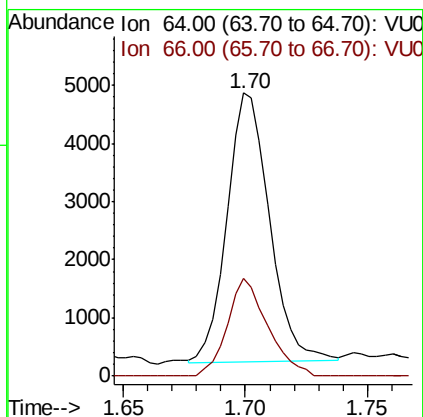
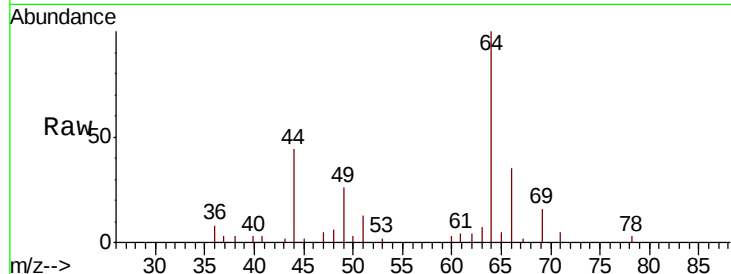




#8
Chloroethane
Concen: 4.123 ug/L
RT: 1.70 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

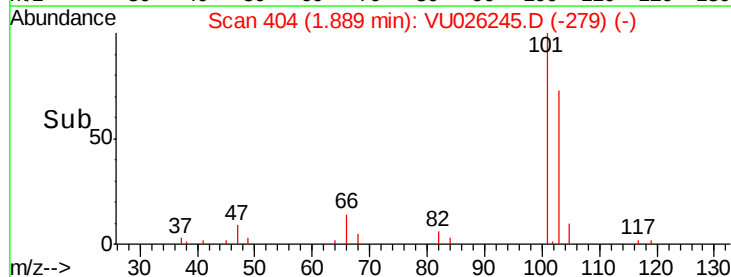
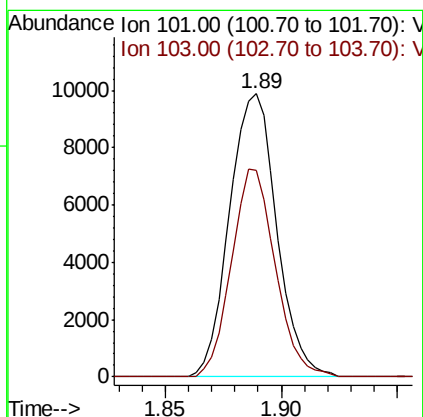
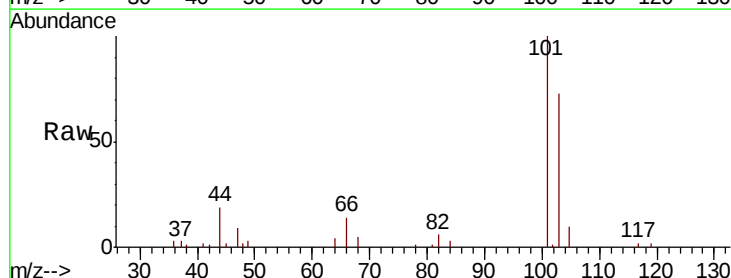
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

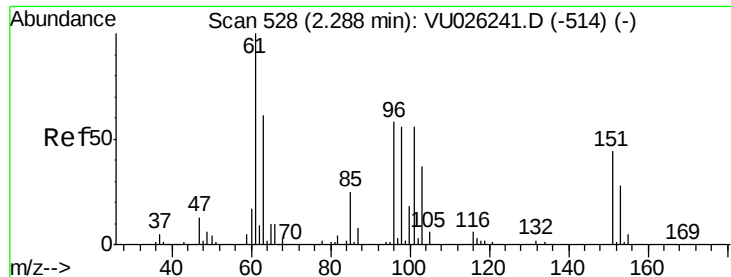
Tgt Ion: 64 Resp: 5610
Ion Ratio Lower Upper
64 100
66 34.5 21.9 40.7



#9
Trichlorofluoromethane
Concen: 4.293 ug/L
RT: 1.89 min Scan# 404
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Tgt Ion: 101 Resp: 14002
Ion Ratio Lower Upper
101 100
103 68.0 51.7 77.5





#10

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

Concen: 4.418 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

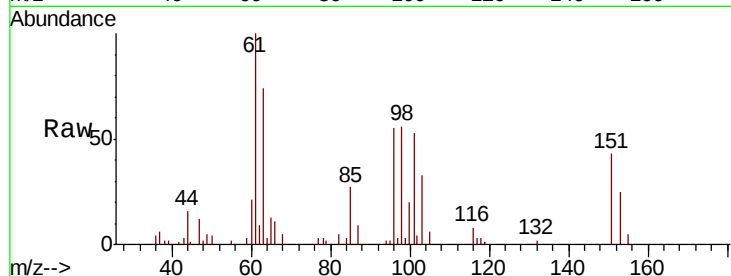
Tgt Ion: 101 Resp: 8266

Ion Ratio Lower Upper

101 100

85 45.4 35.8 53.6

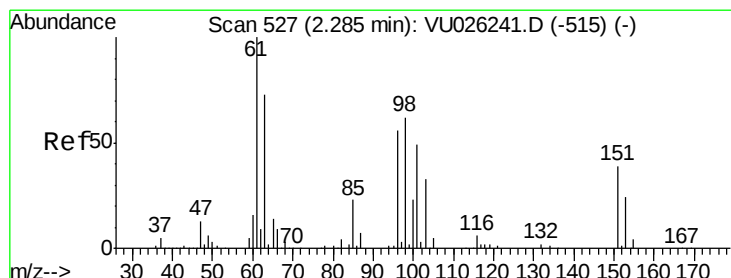
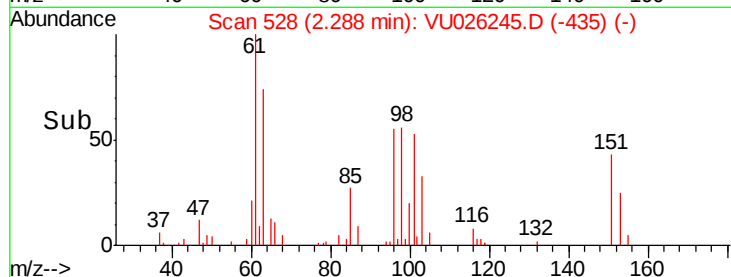
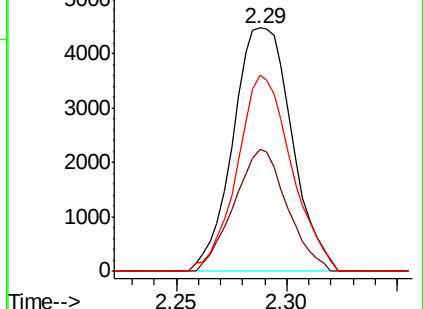
151 74.8 63.3 94.9



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: 4.151 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

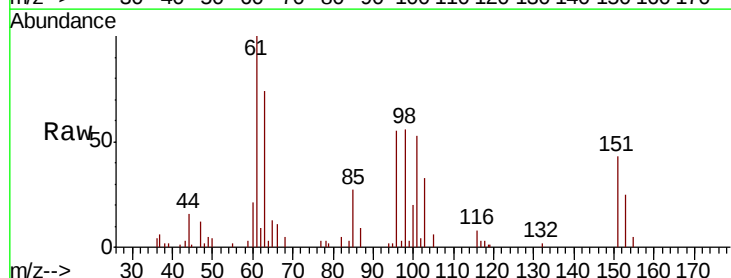
Tgt Ion: 96 Resp: 7120

Ion Ratio Lower Upper

96 100

61 180.5 124.7 231.5

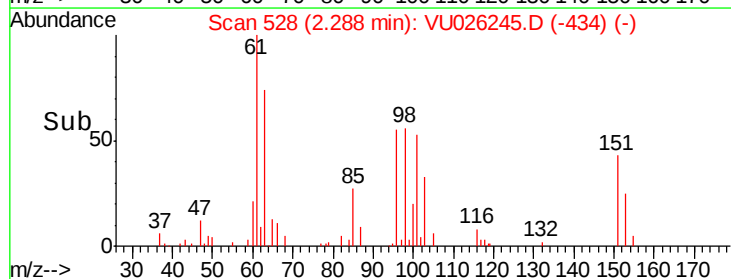
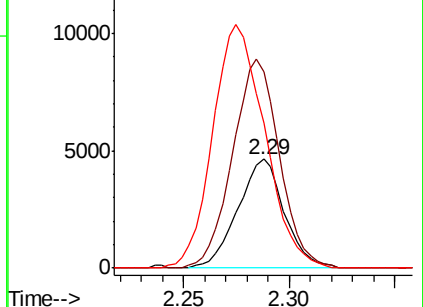
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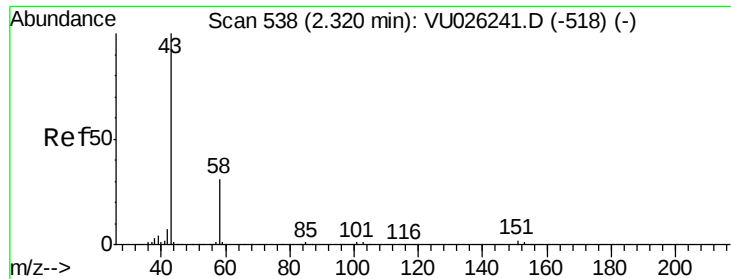


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.550 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

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Instrument :

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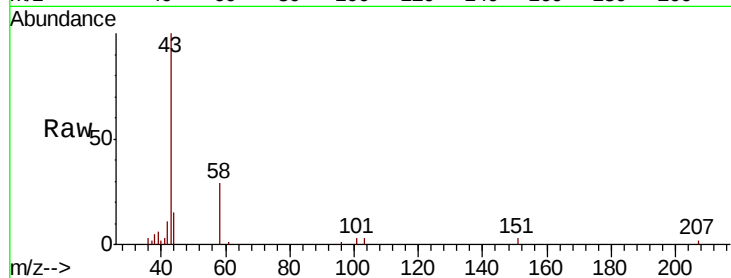
VSTD00545

Tgt Ion: 43 Resp: 11013

Ion Ratio Lower Upper

43 100

58 30.5 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

8000

6000

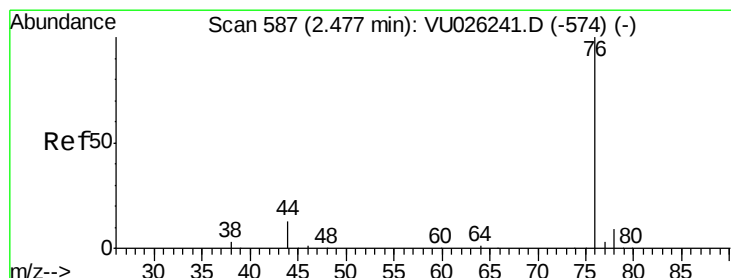
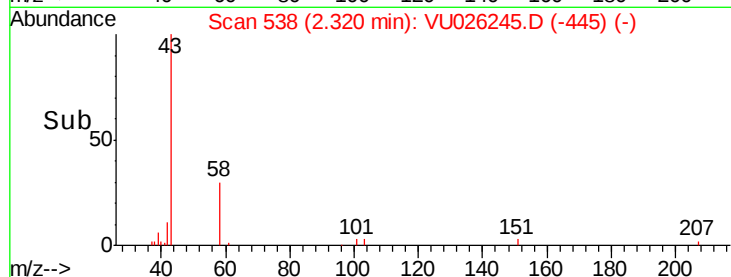
4000

2000

0

2.30 2.35

Time-->



#14

Carbon disulfide

Concen: 5.469 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026245.D

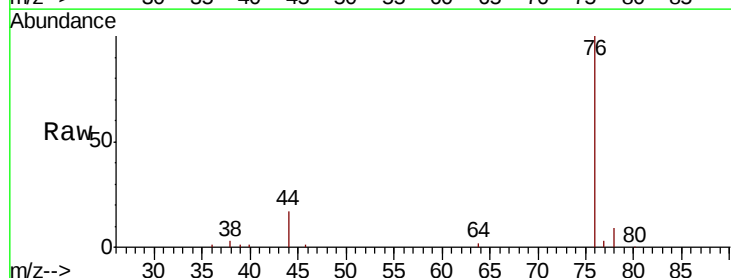
Acq: 22 Aug 2018 13:54

Tgt Ion: 76 Resp: 31744

Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

20000

15000

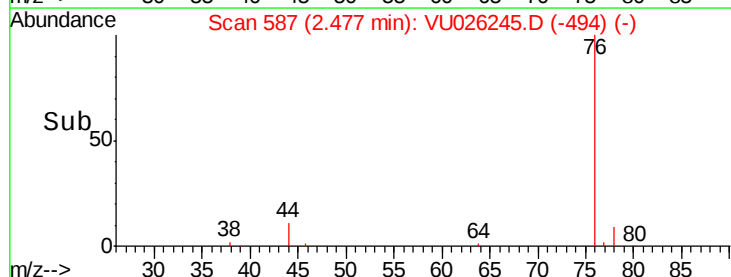
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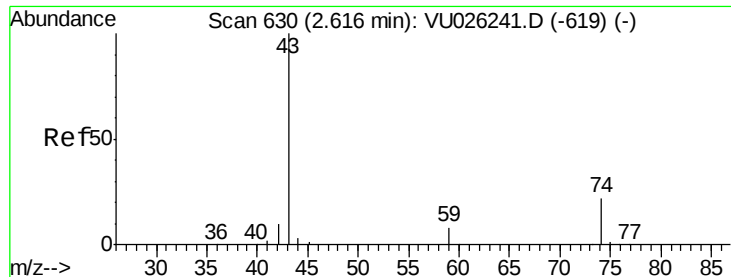
5000

0

2.45 2.50 2.55

Time-->





#15

Methyl Acetate

Concen: 4.219 ug/L

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

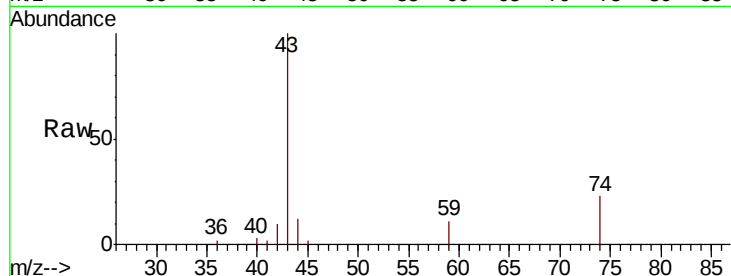
VSTD00545

Tgt Ion: 43 Resp: 9976

Ion Ratio Lower Upper

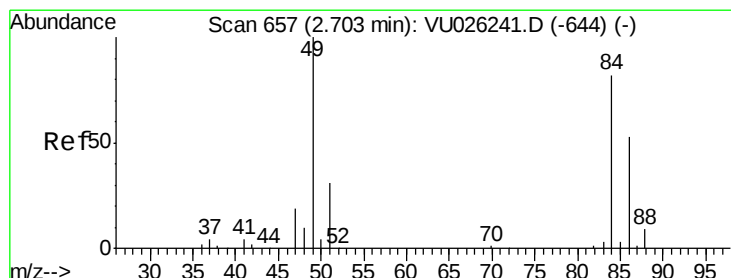
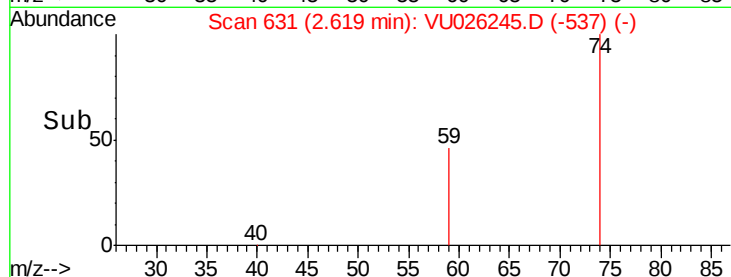
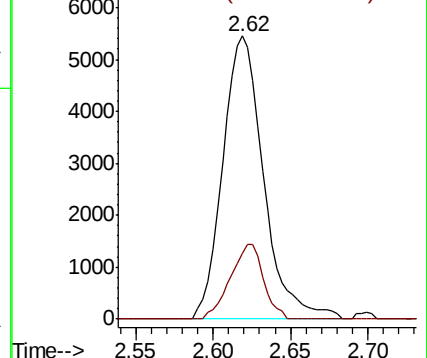
43 100

74 21.3 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 4.479 ug/L

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

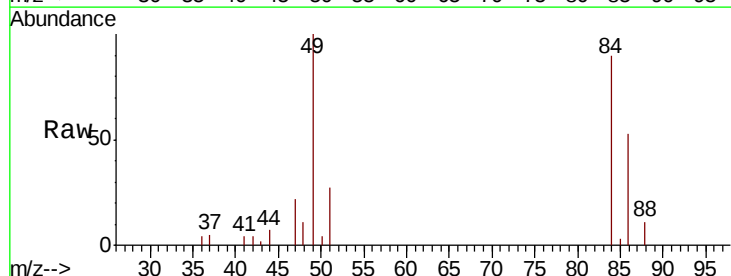
Tgt Ion: 84 Resp: 9987

Ion Ratio Lower Upper

84 100

86 59.6 45.4 84.4

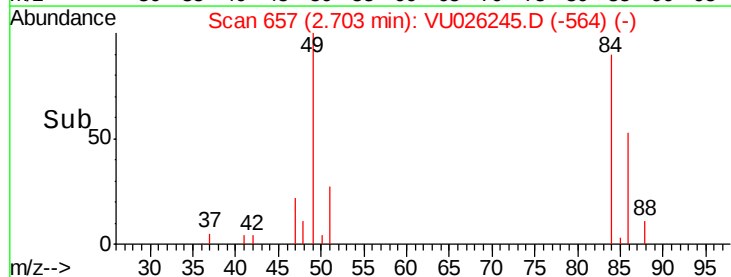
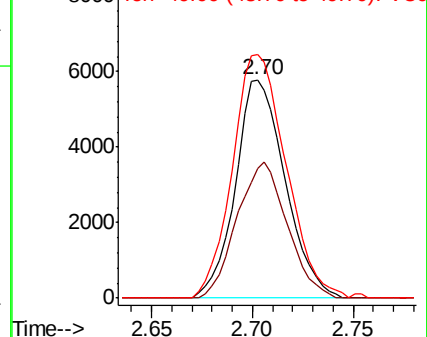
49 111.5 85.3 158.5

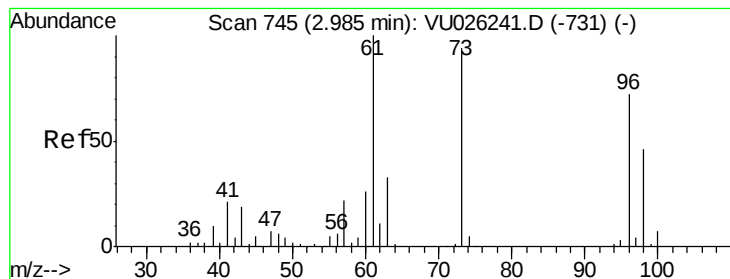


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 4.923 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

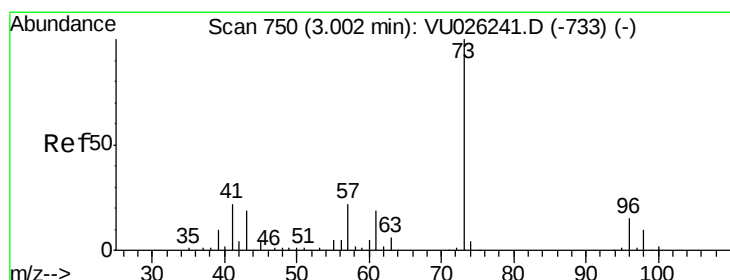
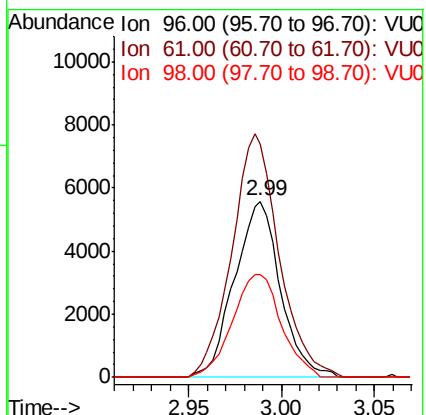
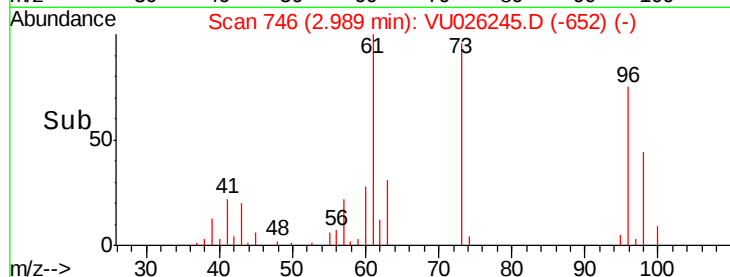
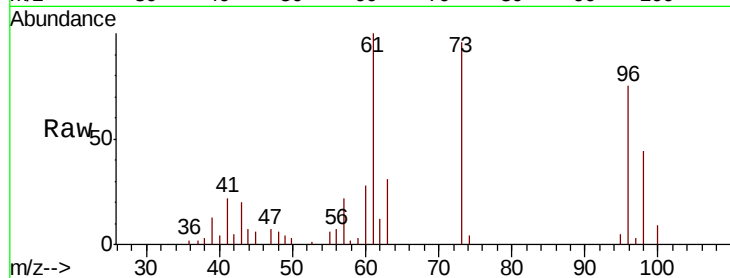
Tgt Ion: 96 Resp: 9572

Ion Ratio Lower Upper

96 100

61 132.9 97.9 181.9

98 58.6 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 3.860 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

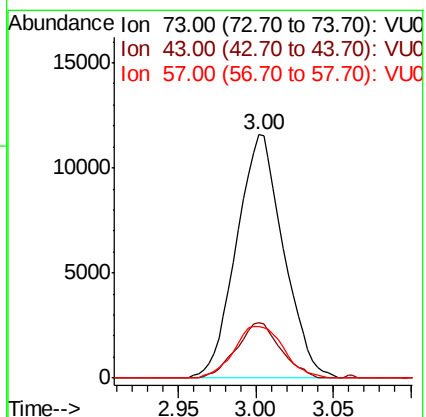
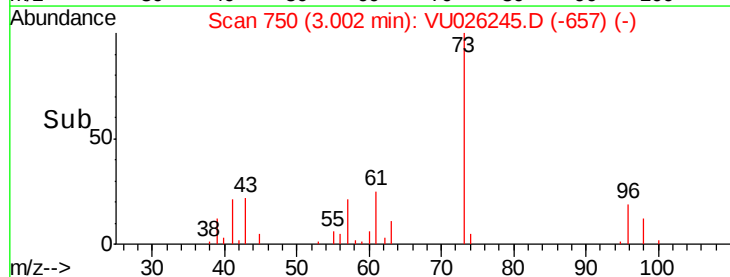
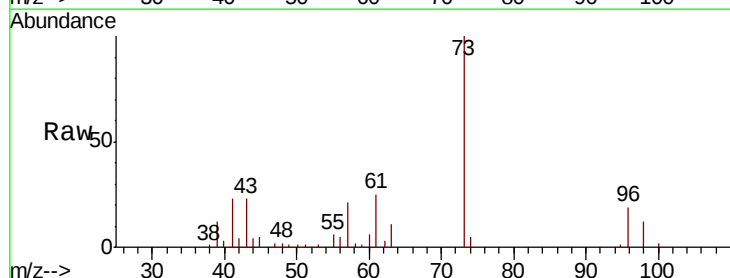
Tgt Ion: 73 Resp: 24481

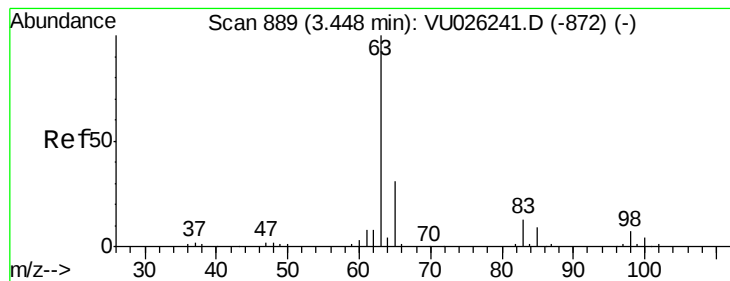
Ion Ratio Lower Upper

73 100

43 21.6 15.7 23.5

57 22.4 17.5 26.3





#19

1,1-Dichloroethane

Concen: 4.024 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

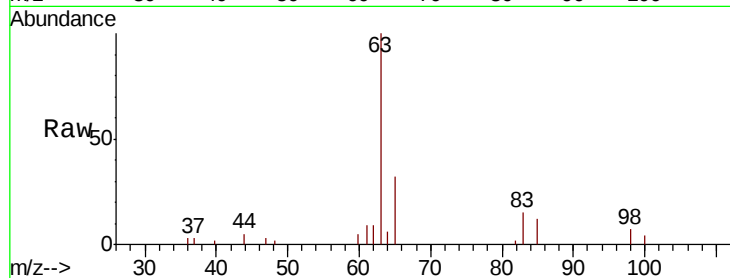
Tgt Ion: 63 Resp: 15223

Ion Ratio Lower Upper

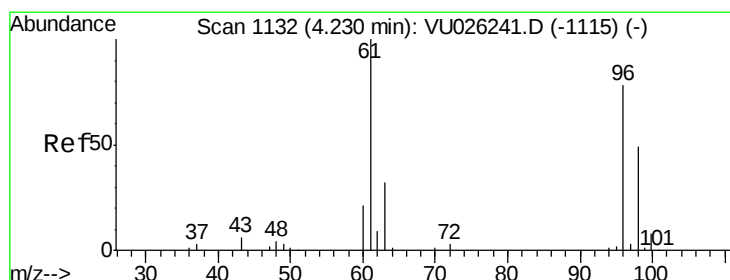
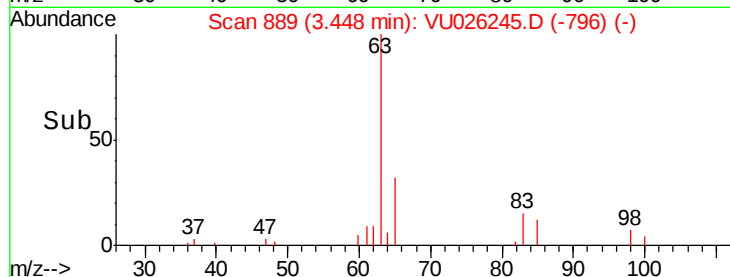
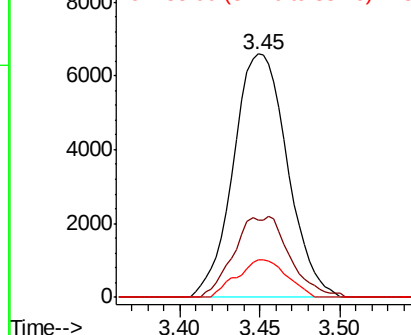
63 100

65 31.5 21.4 39.8

83 15.5 9.2 17.2



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: 4.237 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

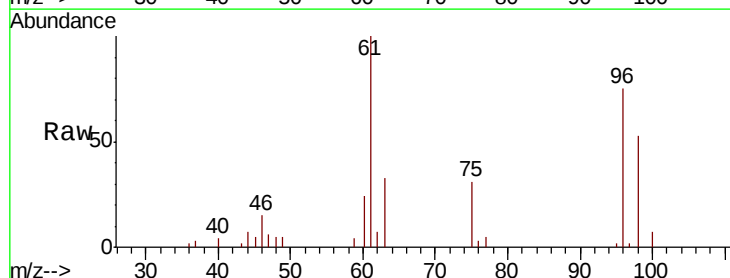
Tgt Ion: 96 Resp: 9481

Ion Ratio Lower Upper

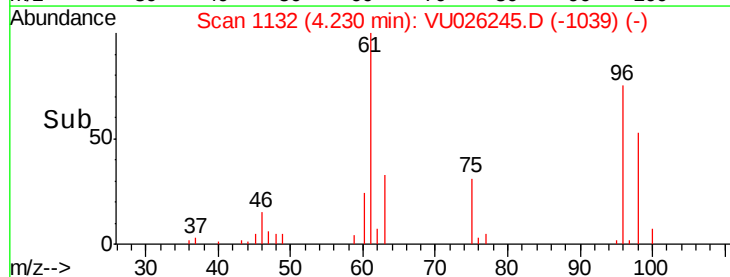
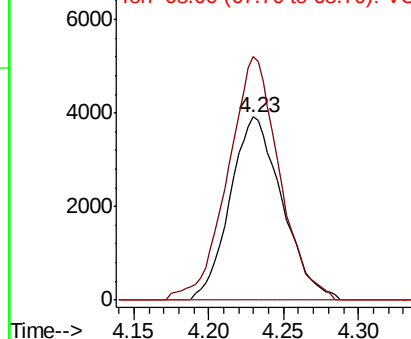
96 100

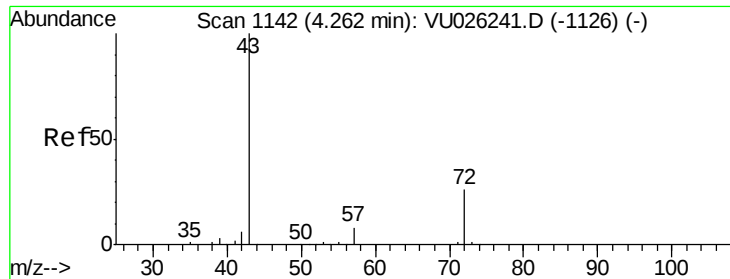
61 133.0 90.3 167.7

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: 8.147 ug/L

RT: 4.27 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampled :

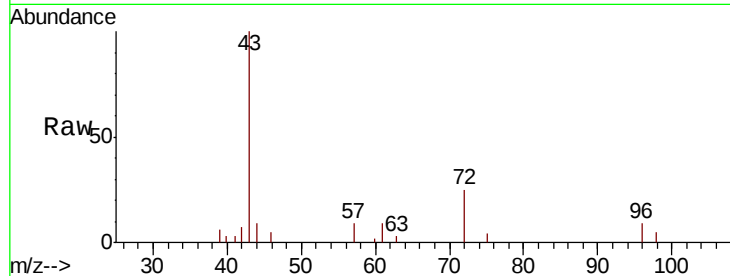
VSTD00545

Tgt Ion: 43 Resp: 13325

Ion Ratio Lower Upper

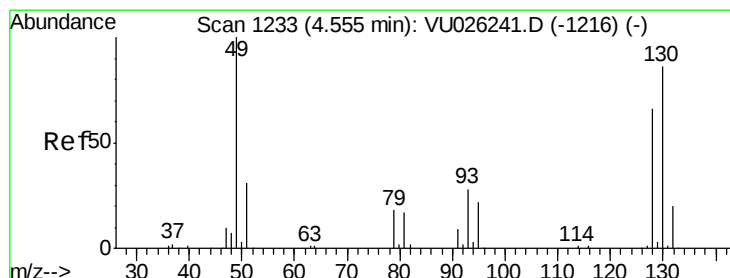
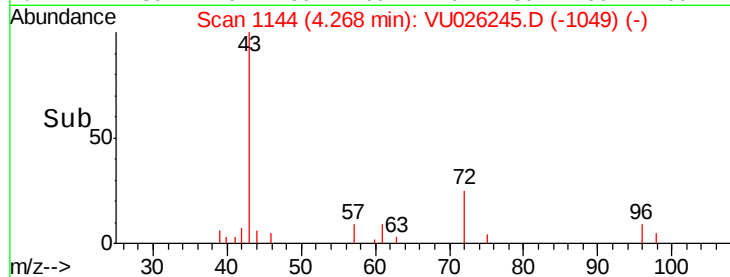
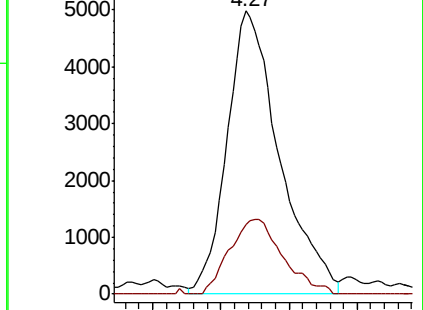
43 100

72 24.9 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU026245.D (-1144) (-)

Ion 72.00 (71.70 to 72.70): VU026245.D (-1144) (-)



#23

Bromochloromethane

Concen: 2.290 ug/L

RT: 4.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Tgt Ion: 128 Resp: 2732

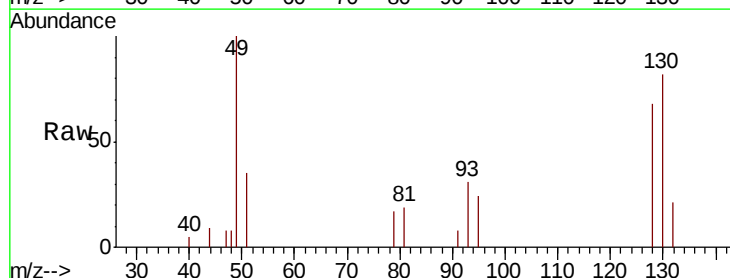
Ion Ratio Lower Upper

128 100

49 147.4 106.7 198.3

130 121.4 91.7 170.3

51 51.1 38.0 57.0

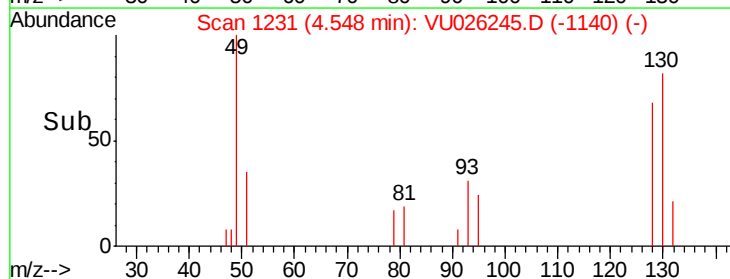
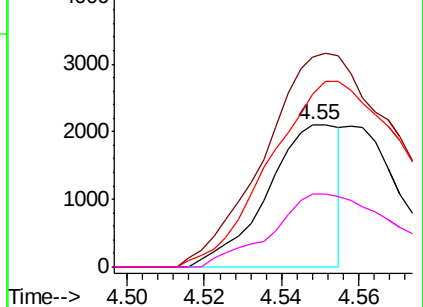


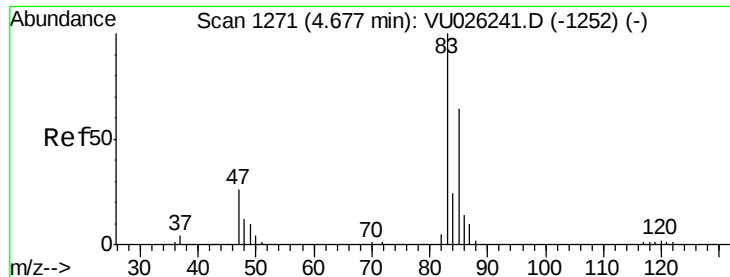
Abundance Ion 128.00 (127.70 to 128.70): VU026245.D (-1140) (-)

Ion 49.00 (48.70 to 49.70): VU026245.D (-1140) (-)

Ion 130.00 (129.70 to 130.70): VU026245.D (-1140) (-)

Ion 51.00 (50.70 to 51.70): VU026245.D (-1140) (-)

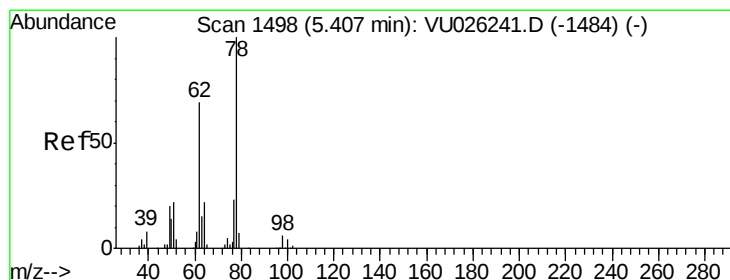
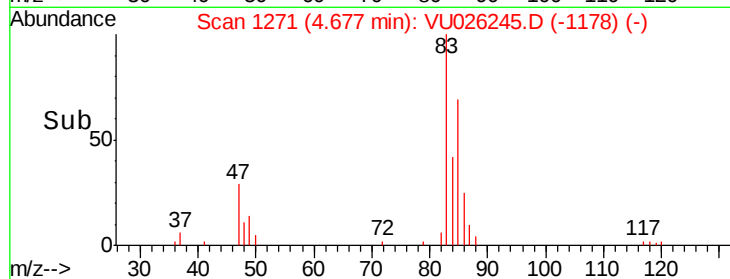
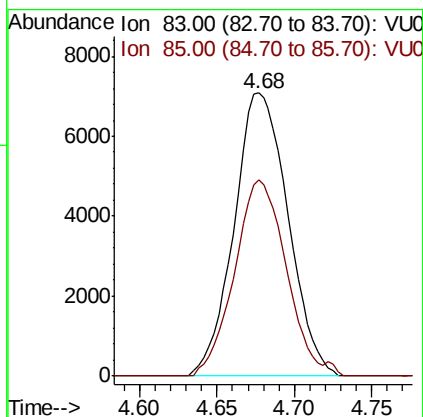
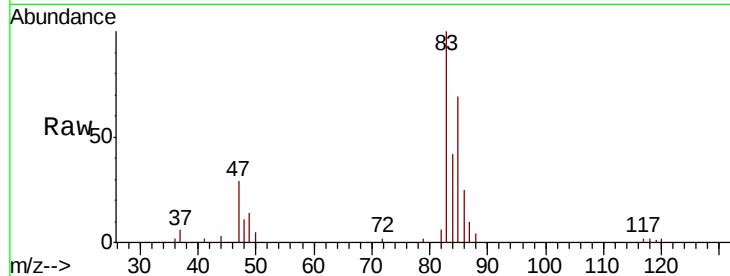




#25
Chloroform
Concen: 4.380 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

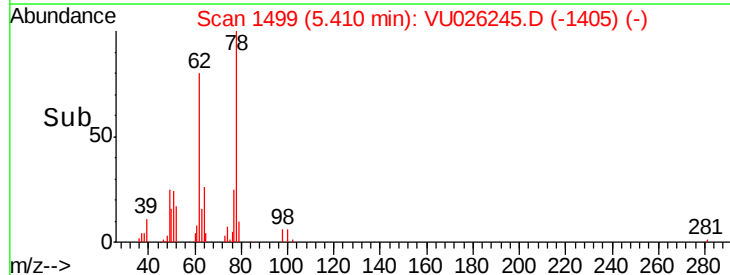
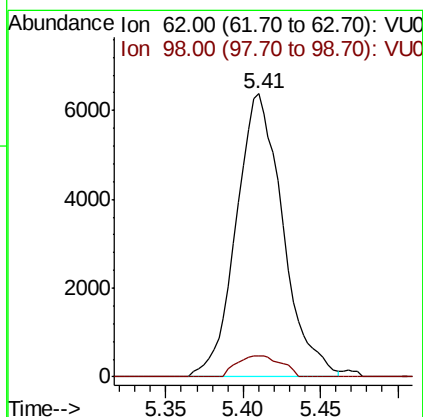
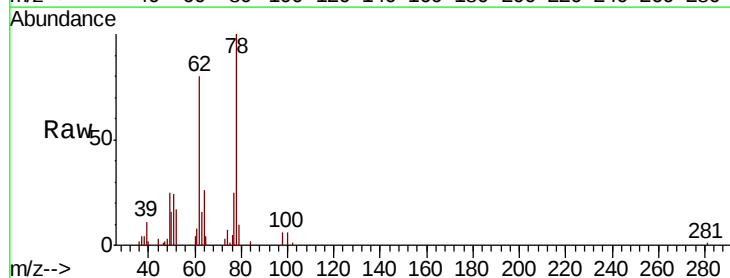
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

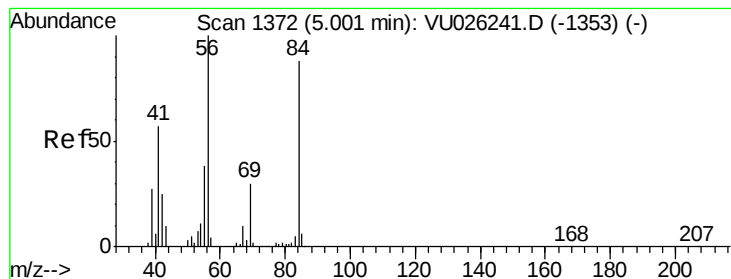
Tgt Ion: 83 Resp: 17175
Ion Ratio Lower Upper
83 100
85 69.4 45.0 83.6



#27
1,2-Dichloroethane
Concen: 4.145 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Tgt Ion: 62 Resp: 13340
Ion Ratio Lower Upper
62 100
98 7.6 7.2 10.8





#29

Cyclohexane

Concen: 3.869 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

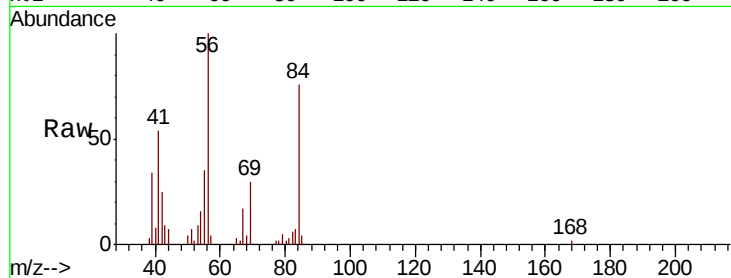
Tgt Ion: 56 Resp: 12281

Ion Ratio Lower Upper

56 100

69 30.7 24.6 37.0

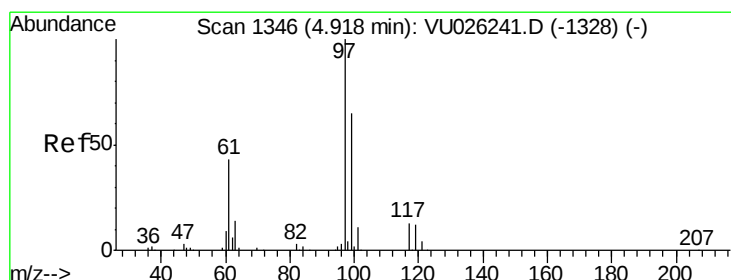
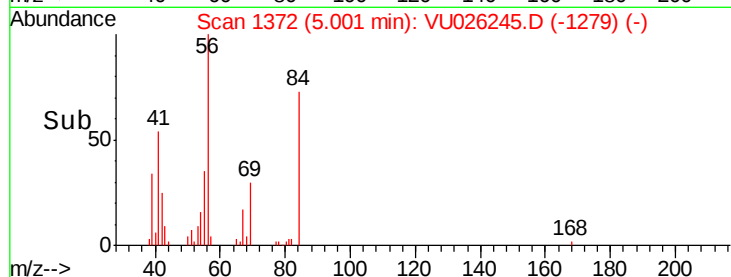
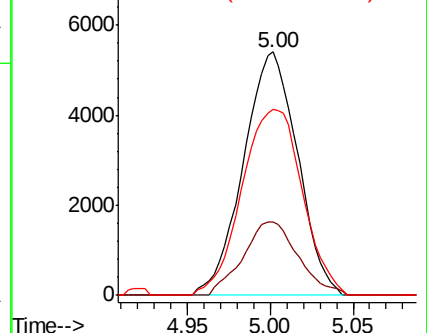
84 85.4 70.1 105.1



Abundance Ion 56.00 (55.70 to 56.70): VU026245.D (-1279) (-)

Ion 69.00 (68.70 to 69.70): VU026245.D (-1279) (-)

Ion 84.00 (83.70 to 84.70): VU026245.D (-1279) (-)



#30

1,1,1-Trichloroethane

Concen: 4.120 ug/L

RT: 4.92 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

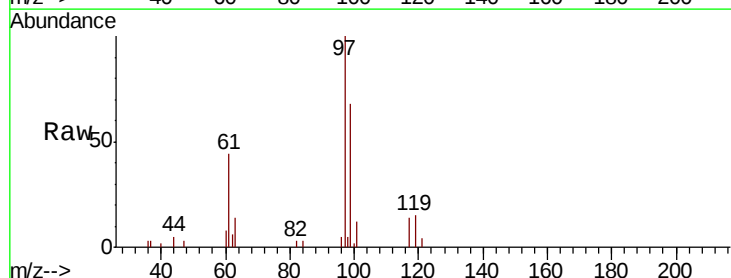
Tgt Ion: 97 Resp: 14804

Ion Ratio Lower Upper

97 100

99 66.2 52.0 78.0

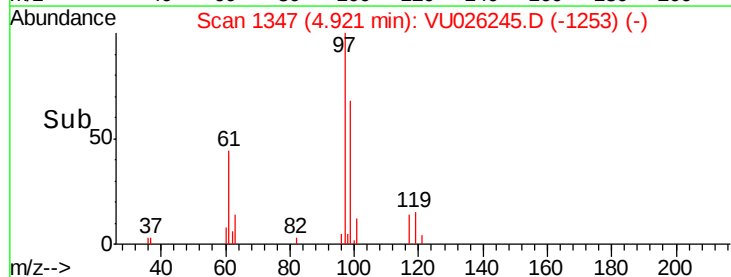
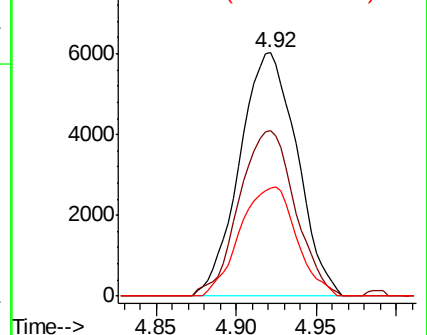
61 44.1 34.2 51.4

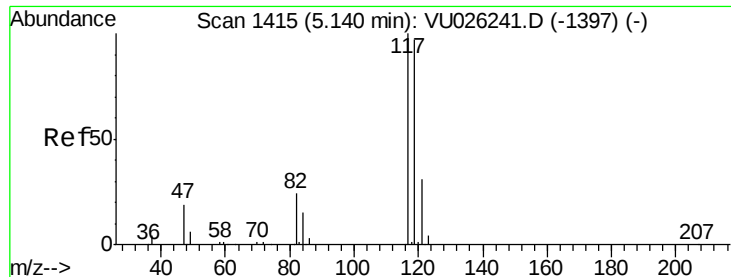


Abundance Ion 97.00 (96.70 to 97.70): VU026245.D (-1253) (-)

Ion 99.00 (98.70 to 99.70): VU026245.D (-1253) (-)

Ion 61.05 (60.75 to 61.75): VU026245.D (-1253) (-)





#31

Carbon tetrachloride

Concen: 4.435 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

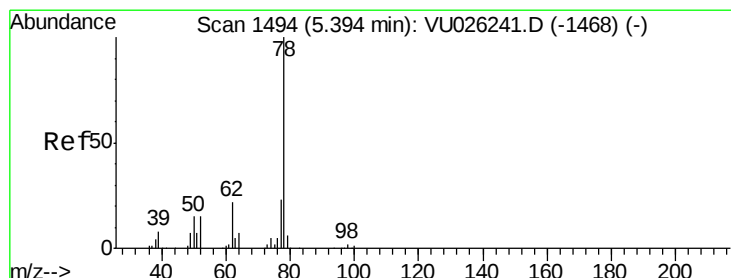
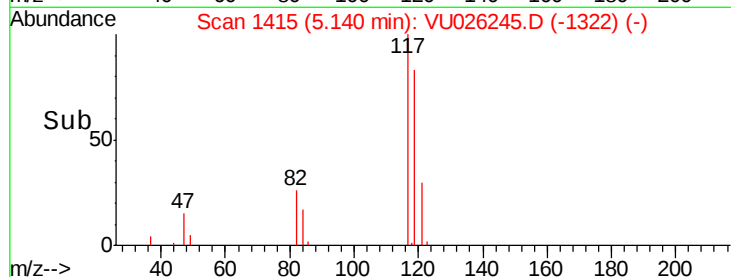
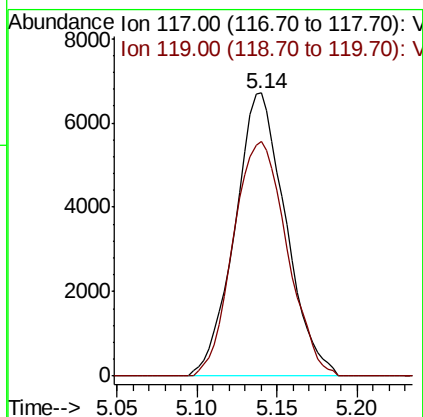
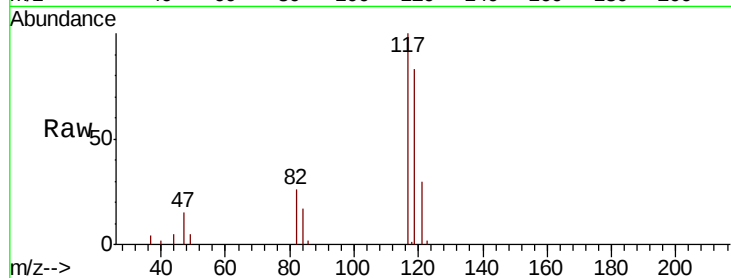
VSTD00545

Tgt Ion:117 Resp: 14552

Ion Ratio Lower Upper

117 100

119 87.7 77.2 115.8



#33

Benzene

Concen: 4.216 ug/L

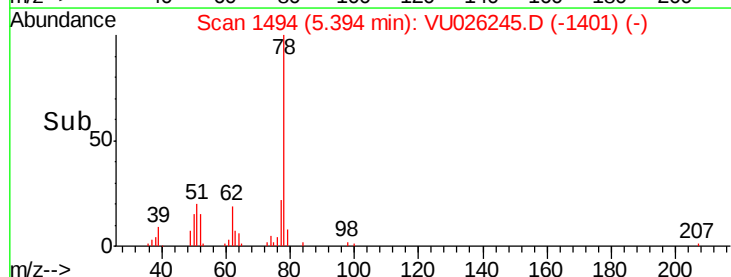
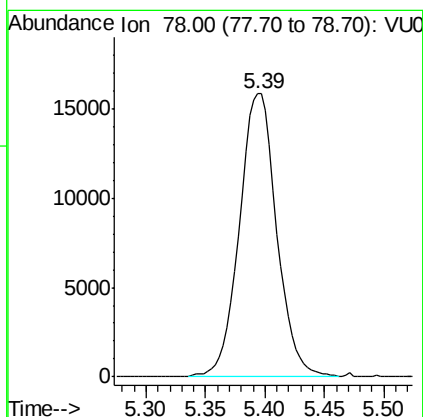
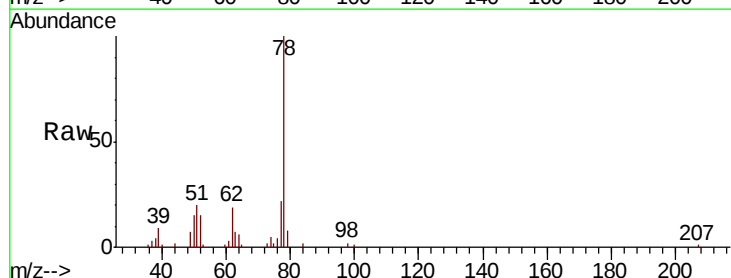
RT: 5.39 min Scan# 1494

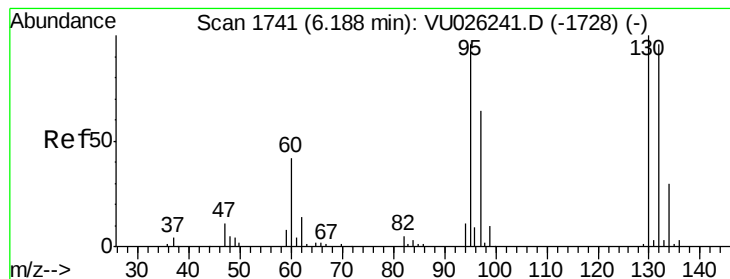
Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Tgt Ion: 78 Resp: 34402





#34

Trichloroethene

Concen: 4.631 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

Tgt Ion: 95 Resp: 9825

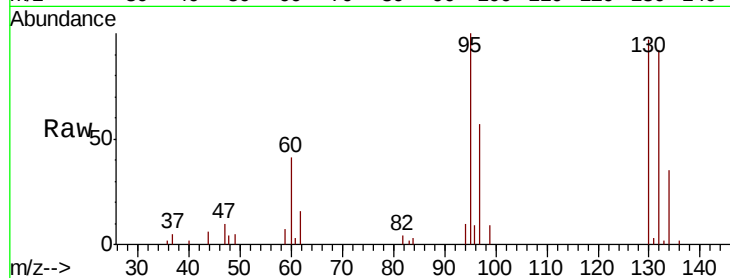
Ion Ratio Lower Upper

95 100

97 56.8 47.2 87.6

132 92.3 70.2 130.4

130 96.6 73.4 136.4



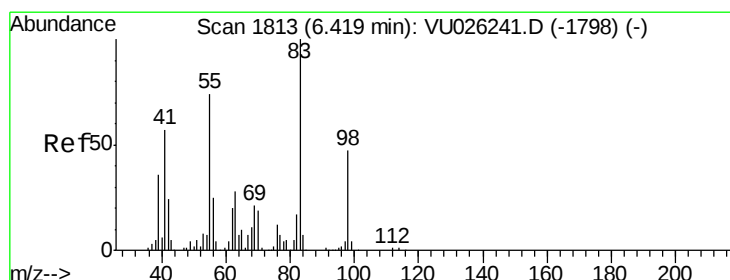
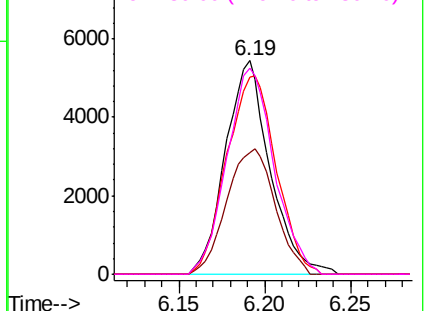
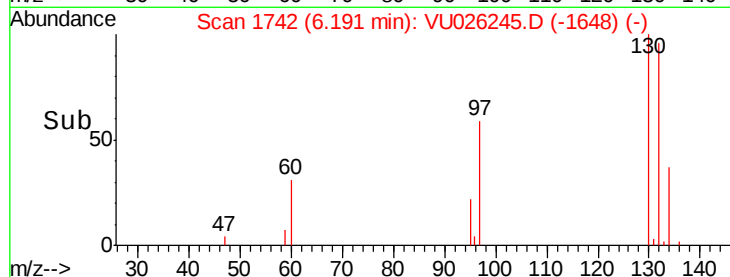
Abundance

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: 4.160 ug/L

RT: 6.42 min Scan# 1814

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

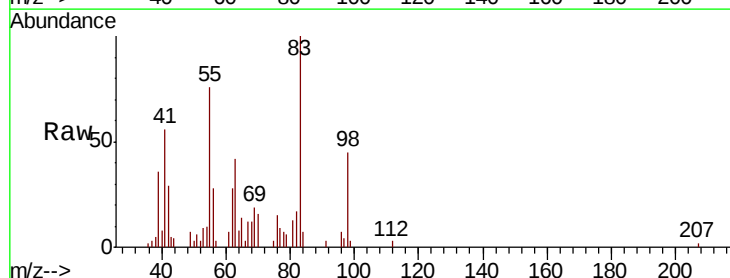
Tgt Ion: 83 Resp: 13581

Ion Ratio Lower Upper

83 100

55 77.0 60.6 91.0

98 45.8 36.8 55.2

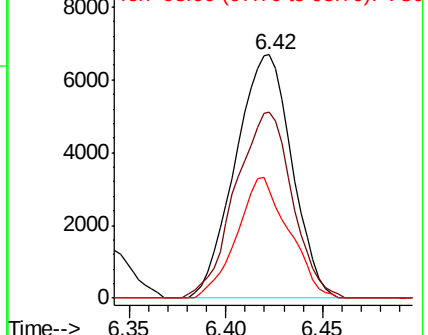
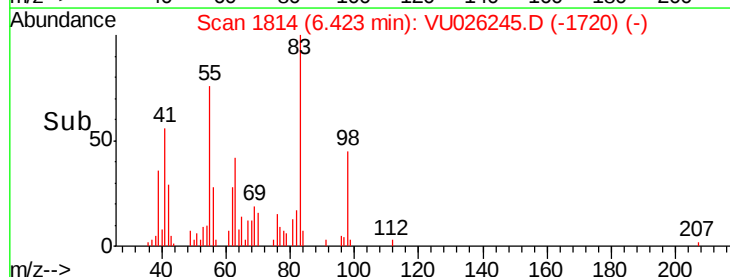


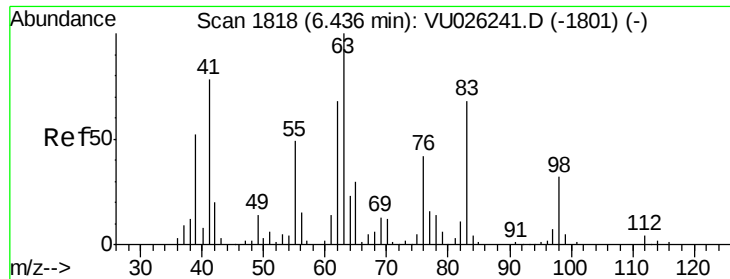
Abundance

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

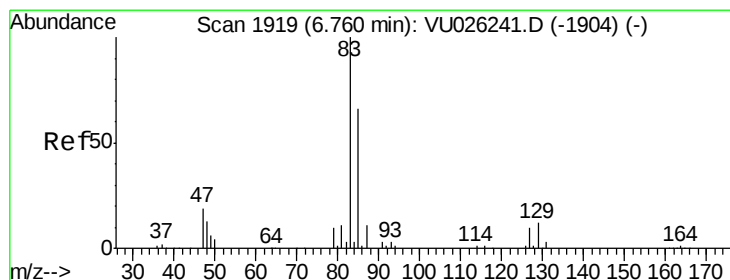
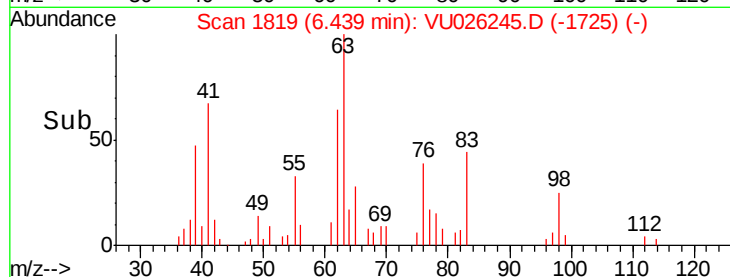
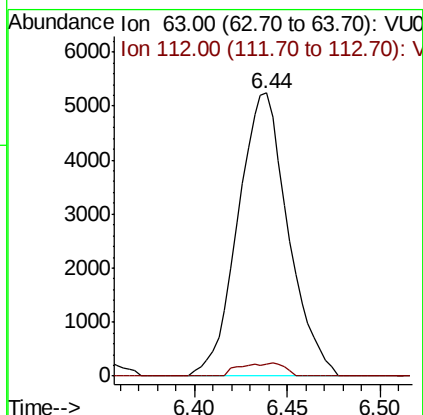
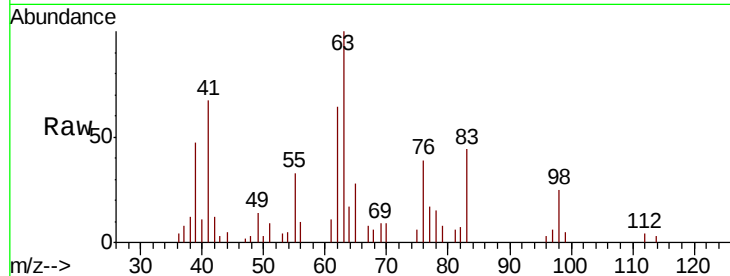




#37
 1,2-Dichloropropane
 Concen: 4.433 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

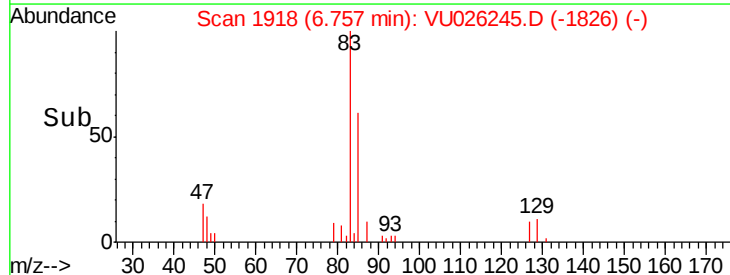
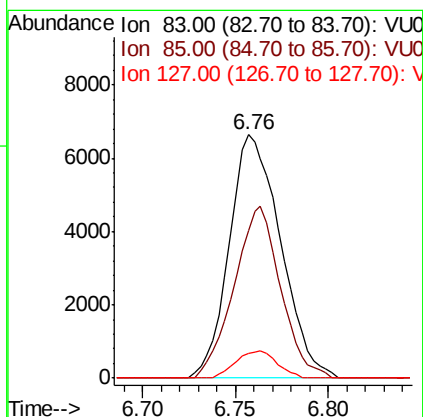
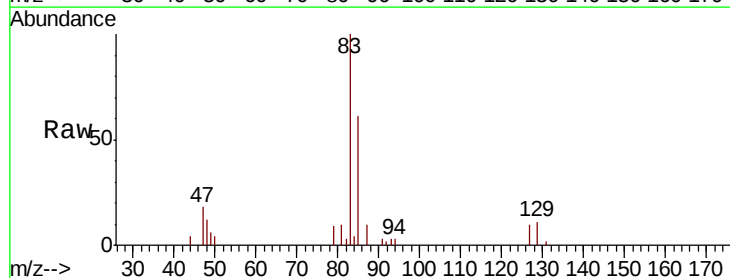
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

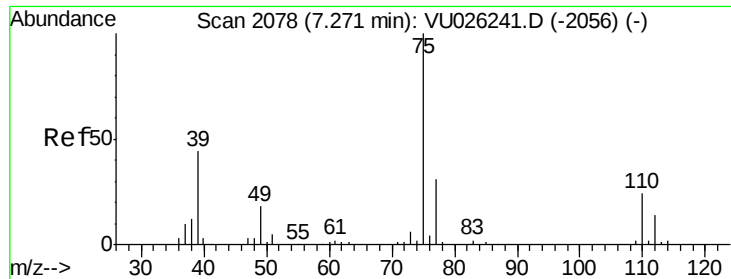
Tgt Ion: 63 Resp: 9884
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.4 5.2#



#38
 Bromodichloromethane
 Concen: 4.295 ug/L
 RT: 6.76 min Scan# 1918
 Delta R.T. -0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion: 83 Resp: 12747
 Ion Ratio Lower Upper
 83 100
 85 60.7 46.3 86.1
 127 10.1 7.8 11.6

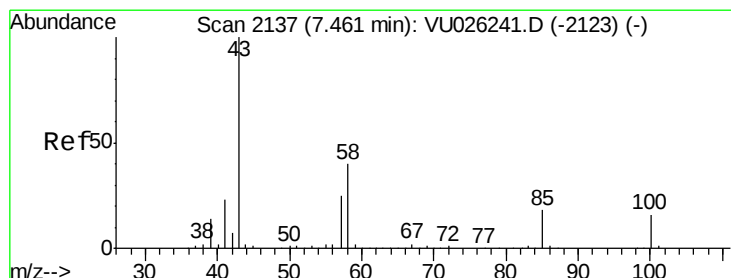
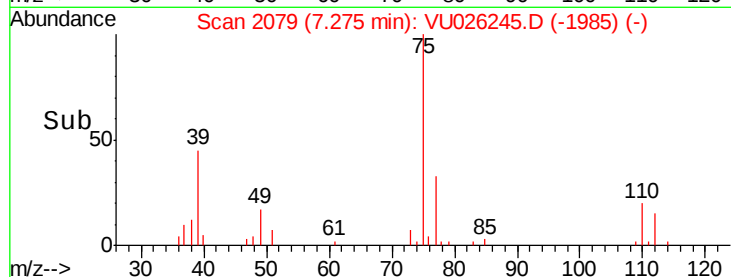
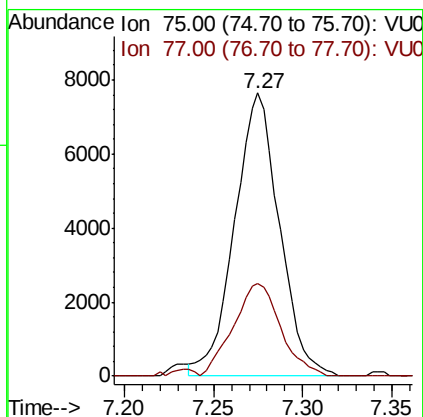
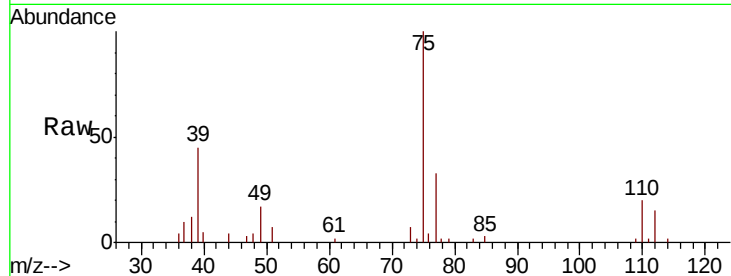




#39
 cis-1,3-Dichloropropene
 Concen: 4.004 ug/L
 RT: 7.27 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

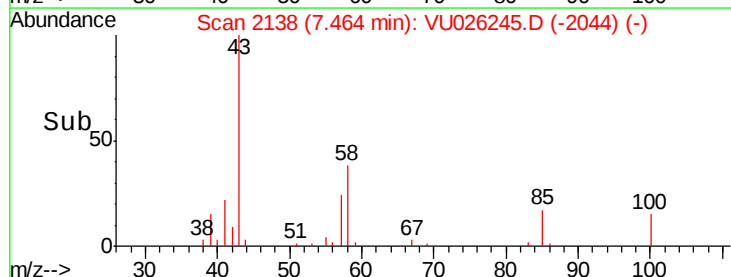
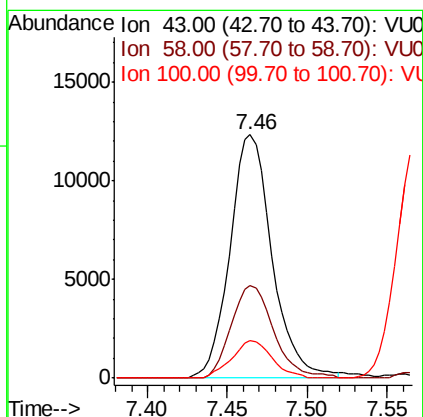
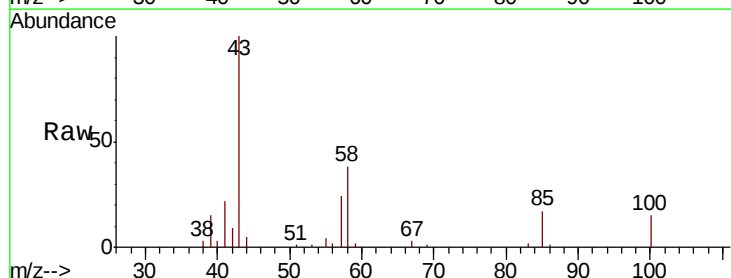
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

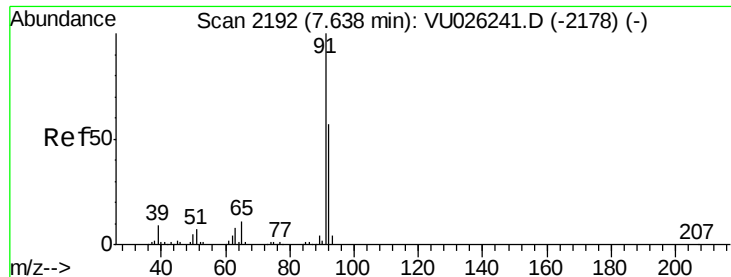
Tgt Ion: 75 Resp: 13431
 Ion Ratio Lower Upper
 75 100
 77 32.7 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 7.376 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion: 43 Resp: 22161
 Ion Ratio Lower Upper
 43 100
 58 38.2 31.6 47.4
 100 14.7 12.3 18.5





#42

Toluene

Concen: 4.066 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

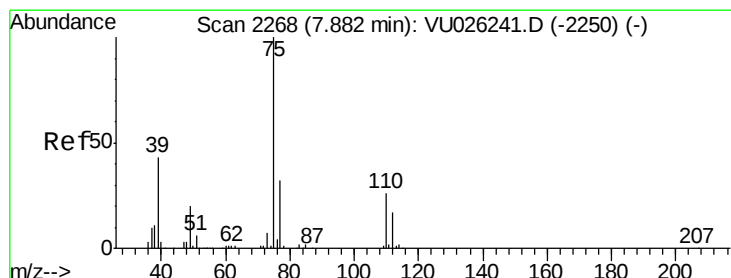
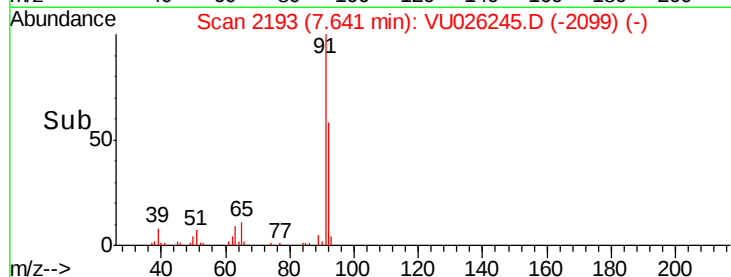
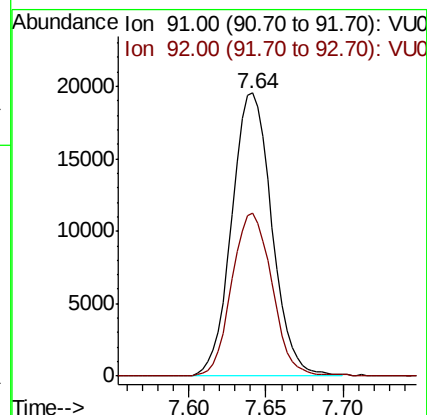
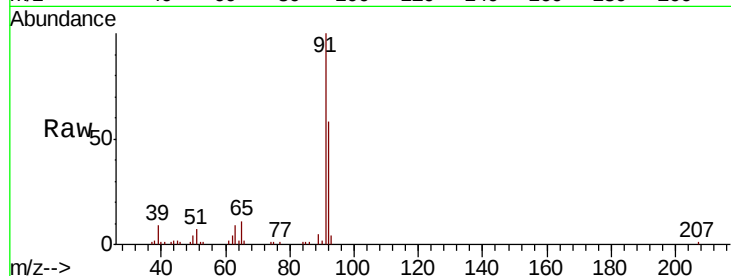
VSTD00545

Tgt Ion: 91 Resp: 35187

Ion Ratio Lower Upper

91 100

92 57.6 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 3.967 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026245.D

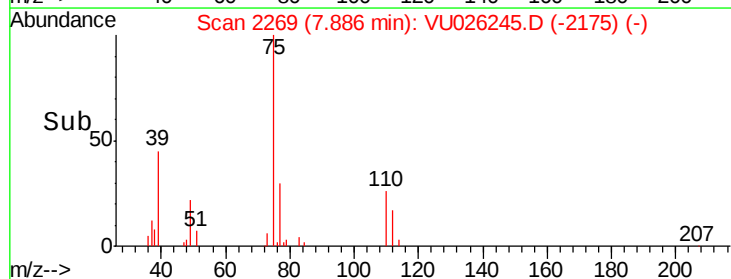
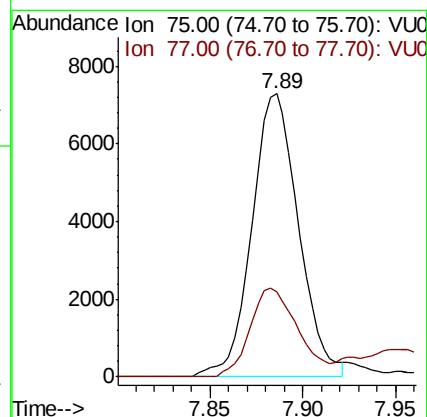
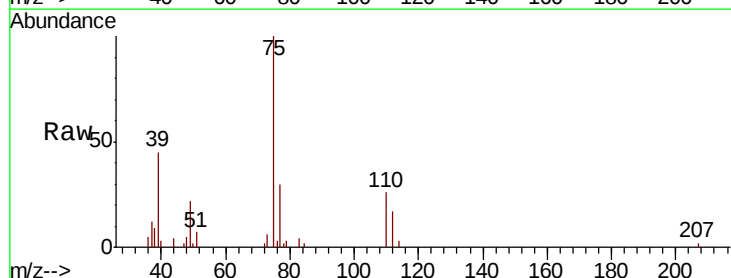
Acq: 22 Aug 2018 13:54

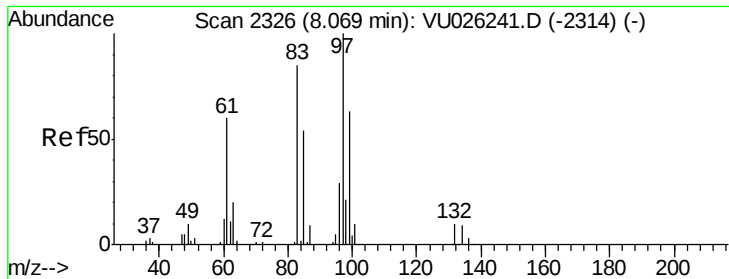
Tgt Ion: 75 Resp: 12754

Ion Ratio Lower Upper

75 100

77 29.9 22.0 41.0

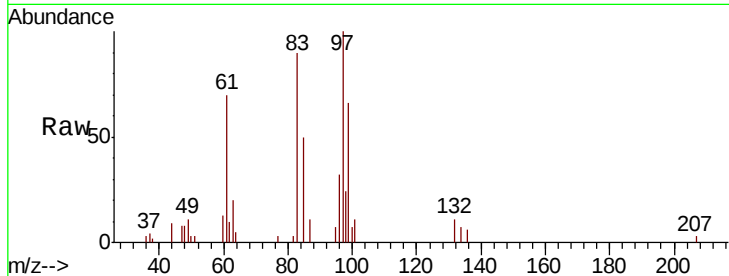




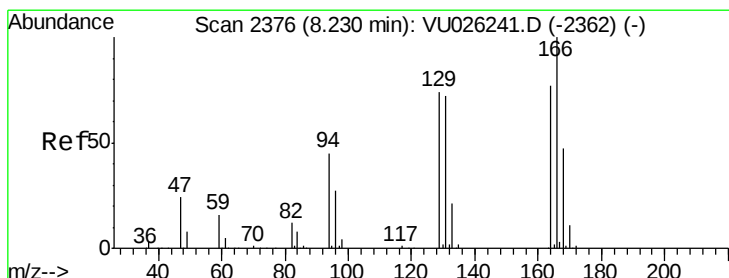
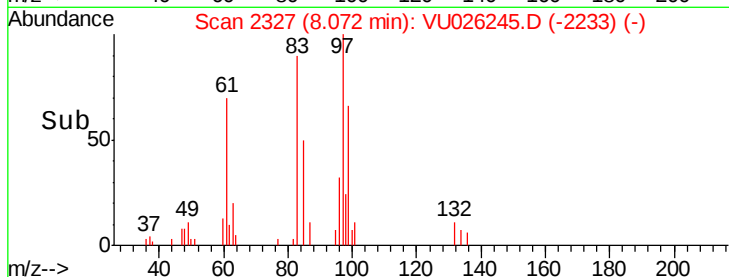
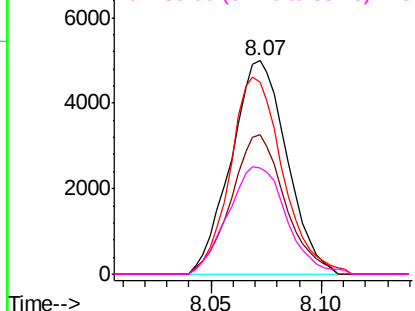
#45
 1,1,2-Trichloroethane
 Concen: 4.126 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

Tgt Ion:	97	Resp:	8731
Ion	Ratio	Lower	Upper
97	100		
99	65.5	44.0	81.6
83	89.9	59.2	110.0
85	49.9	38.0	70.6

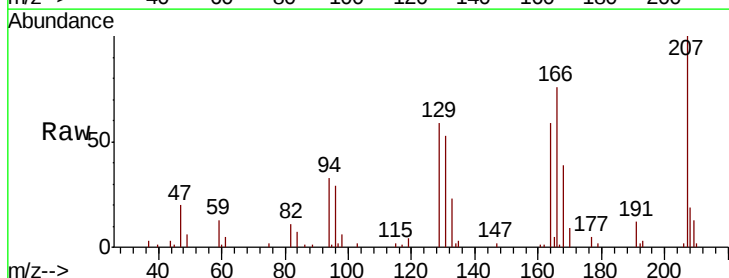


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

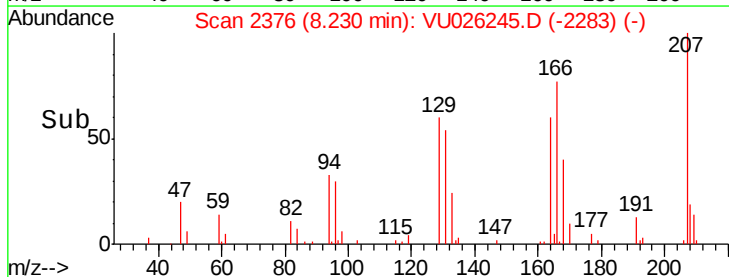
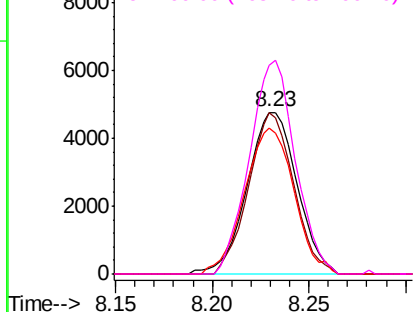


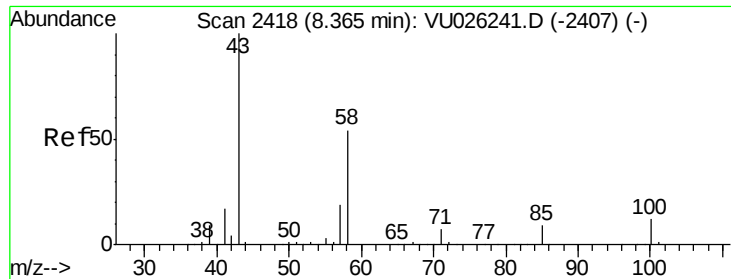
#46
 Tetrachloroethene
 Concen: 4.741 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion:	164	Resp:	8581
Ion	Ratio	Lower	Upper
164	100		
129	100.0	67.3	124.9
131	90.4	65.5	121.7
166	129.1	90.9	168.9



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

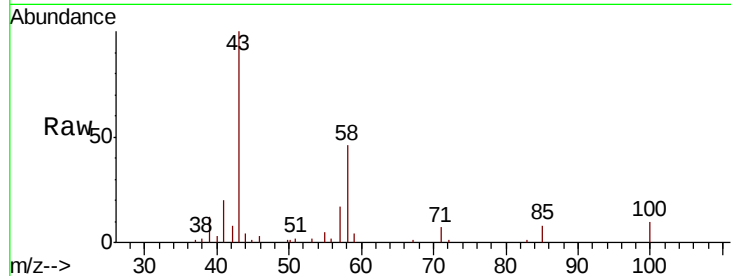




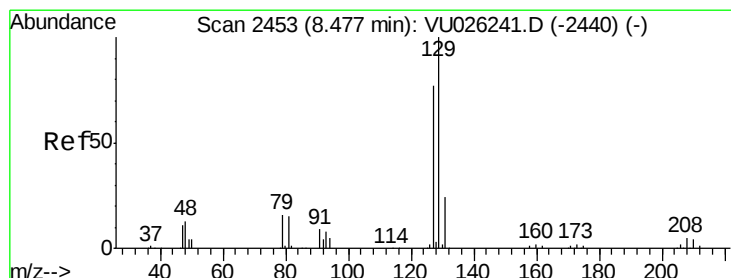
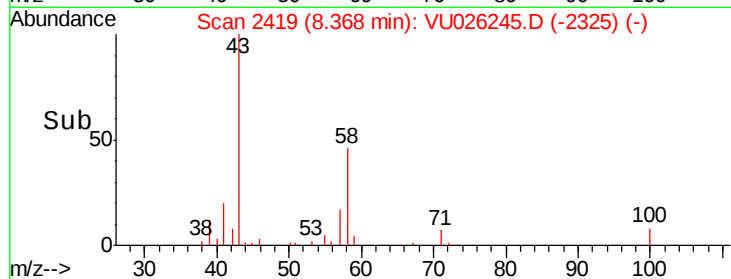
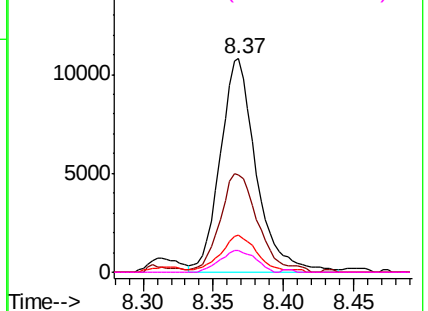
#48
2-Hexanone
Concen: 8.161 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

Tgt Ion:	43	Resp:	19248
Ion	Ratio	Lower	Upper
43	100		
58	44.9	42.6	63.8
57	15.9	15.1	22.7
100	9.9	9.5	14.3

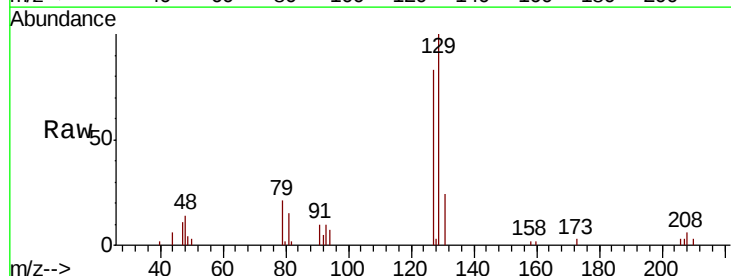


Abundance Ion 43.00 (42.70 to 43.70): VU026245.D (-2325) (-)
Ion 58.00 (57.70 to 58.70): VU026245.D (-2325) (-)
Ion 57.00 (56.70 to 57.70): VU026245.D (-2325) (-)
Ion 100.00 (99.70 to 100.70): VU026245.D (-2325) (-)

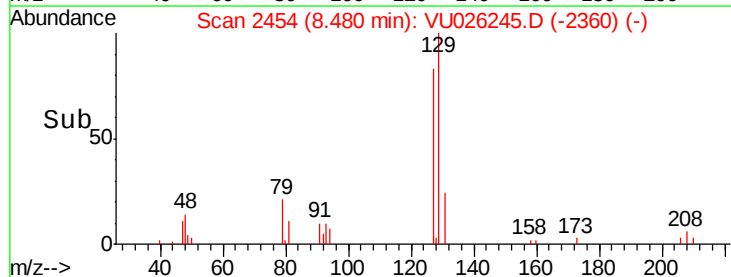
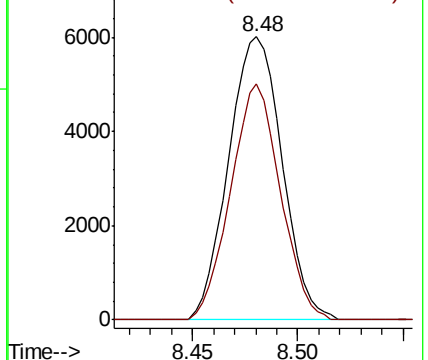


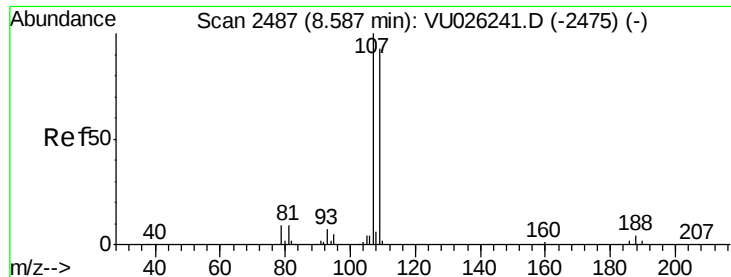
#49
Dibromochloromethane
Concen: 4.139 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Tgt Ion:	129	Resp:	10601
Ion	Ratio	Lower	Upper
129	100		
127	83.4	53.8	100.0



Abundance Ion 129.00 (128.70 to 129.70): VU026245.D (-2360) (-)
Ion 127.00 (126.70 to 127.70): VU026245.D (-2360) (-)

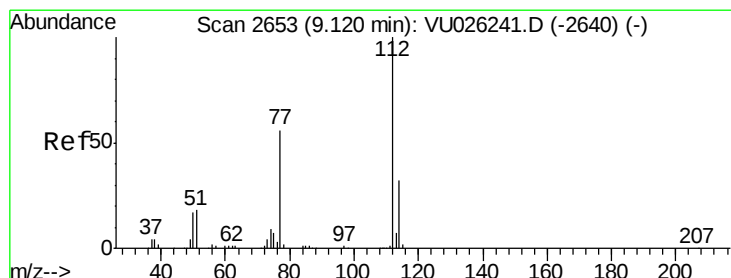
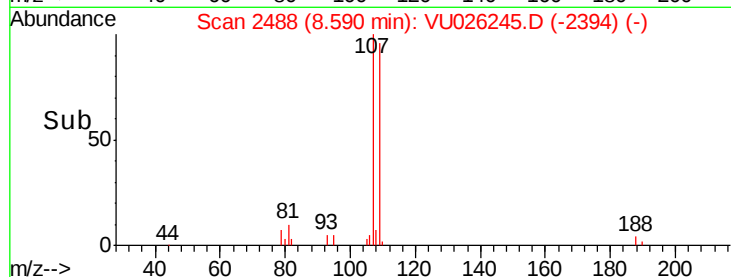
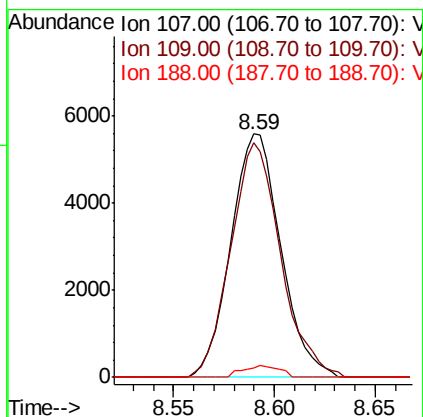
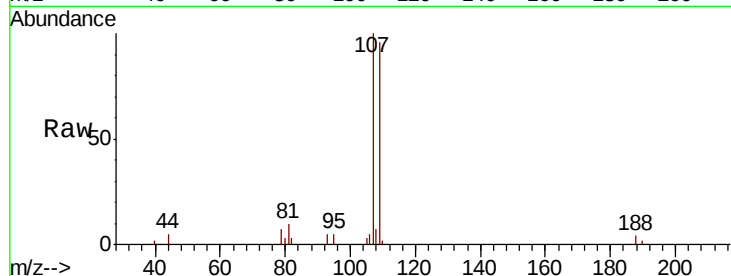




#50
1,2-Dibromoethane
Concen: 4.192 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

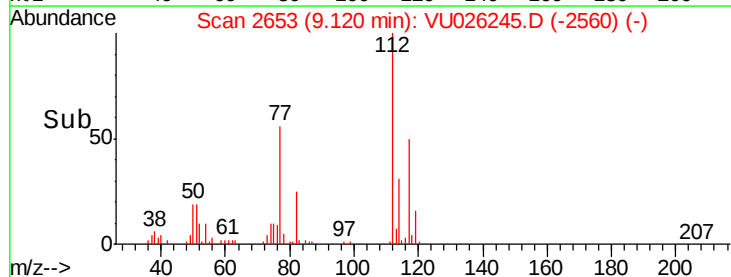
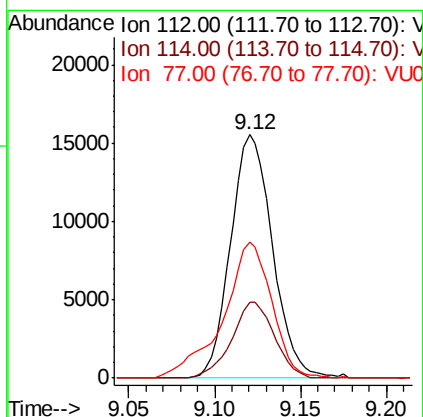
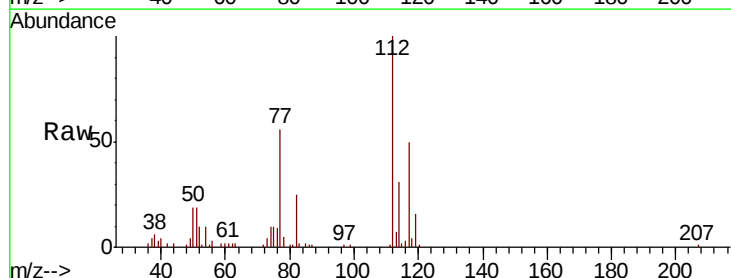
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

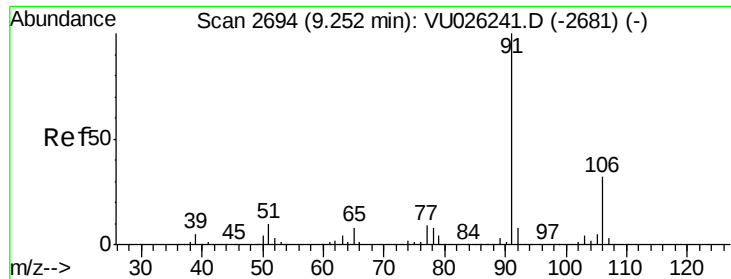
Tgt Ion:107 Resp: 9699
Ion Ratio Lower Upper
107 100
109 96.3 65.2 121.0
188 4.0 3.4 5.2



#51
Chlorobenzene
Concen: 4.533 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Tgt Ion:112 Resp: 26370
Ion Ratio Lower Upper
112 100
114 30.9 22.5 41.9
77 56.0 45.4 68.2





#52

Ethylbenzene

Concen: 3.978 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

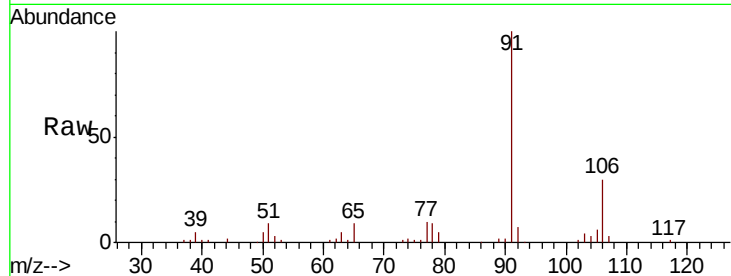
VSTD00545

Tgt Ion: 91 Resp: 37605

Ion Ratio Lower Upper

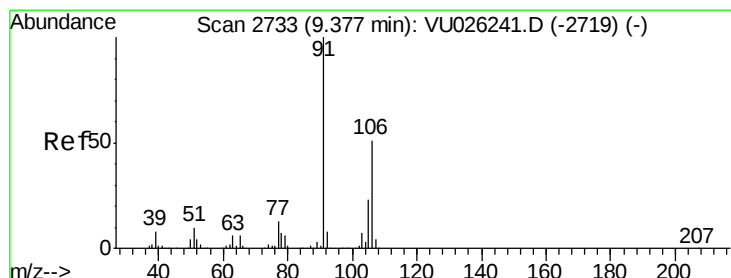
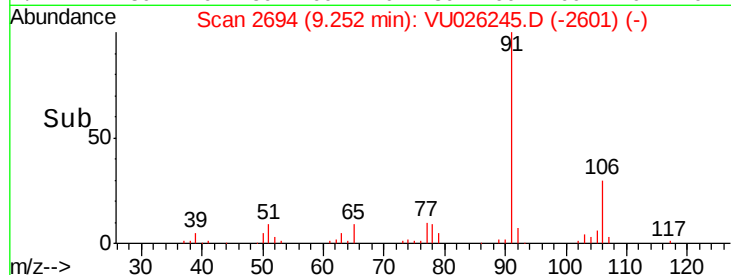
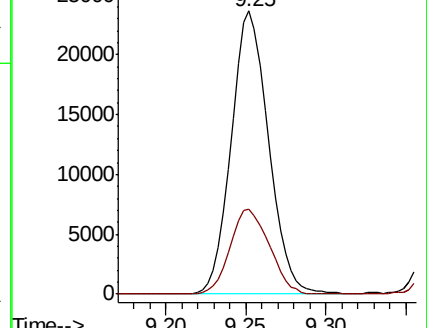
91 100

106 30.0 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VU026245.D (-2681) (-)

Ion 106.00 (105.70 to 106.70): VU026245.D (-2681) (-)



#53

m,p-Xylene

Concen: 3.928 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026245.D

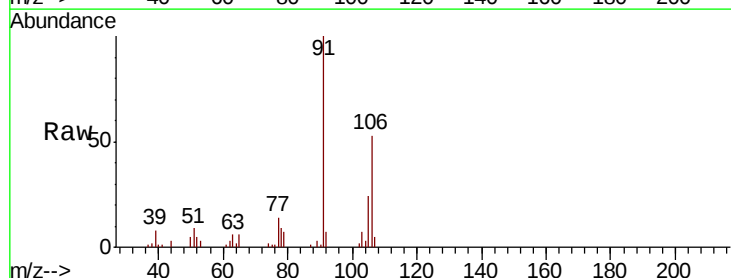
Acq: 22 Aug 2018 13:54

Tgt Ion: 106 Resp: 14232

Ion Ratio Lower Upper

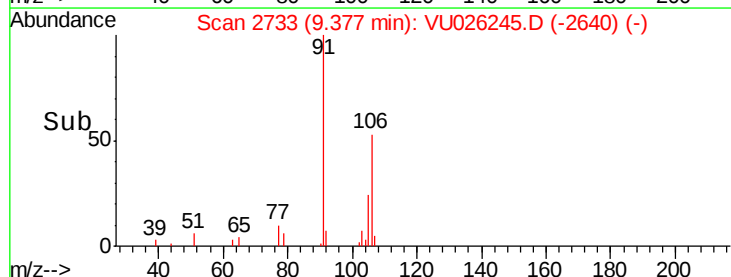
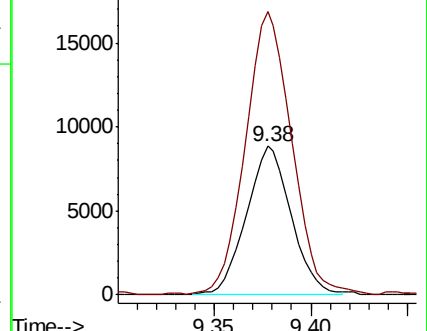
106 100

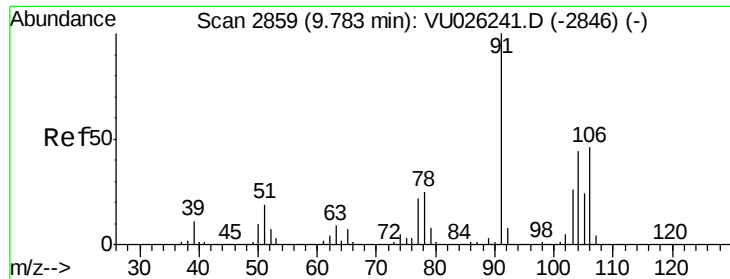
91 190.5 136.6 253.8



Abundance Ion 106.00 (105.70 to 106.70): VU026245.D (-2719) (-)

Ion 91.00 (90.70 to 91.70): VU026245.D (-2719) (-)

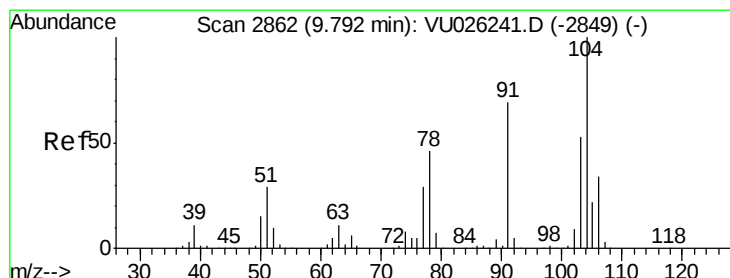
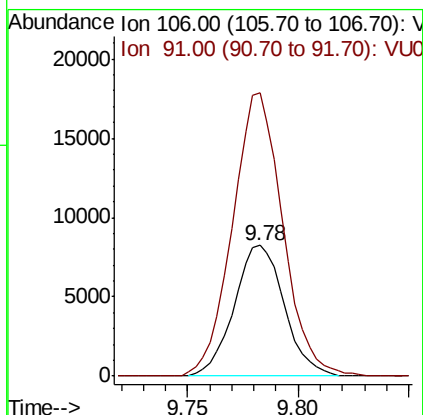
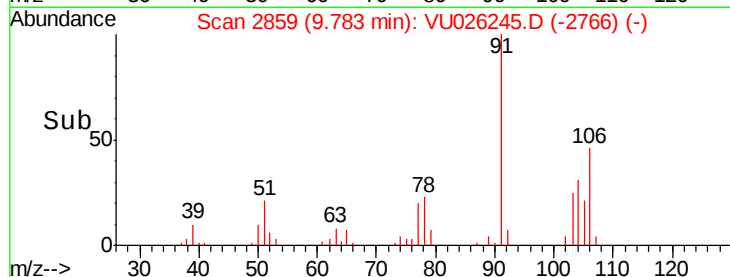
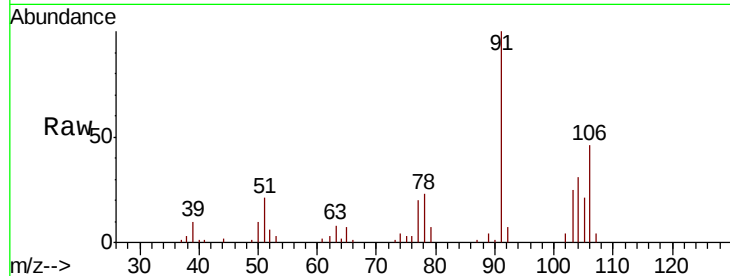




#54
o-xylene
Concen: 3.638 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

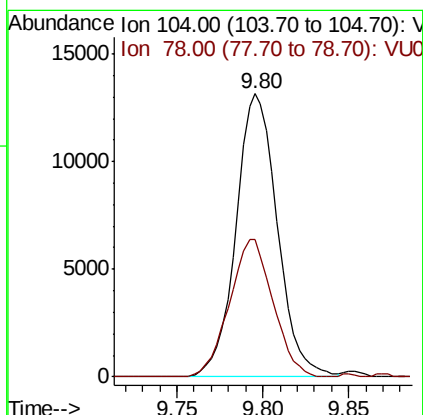
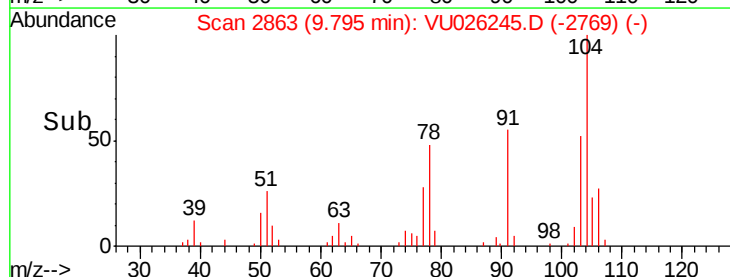
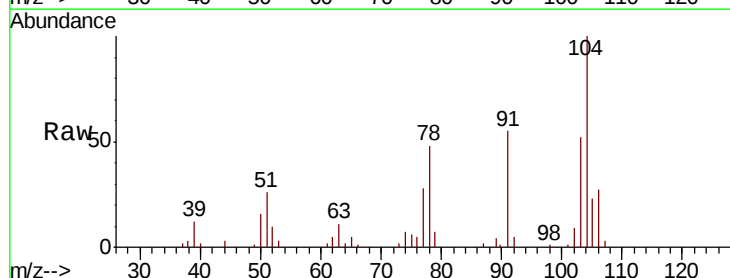
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

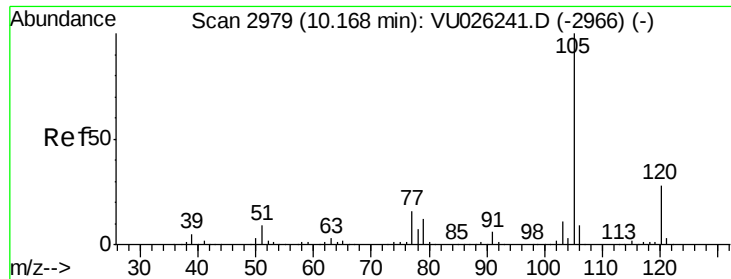
Tgt Ion:106 Resp: 13034
Ion Ratio Lower Upper
106 100
91 216.4 151.2 280.8



#55
Styrene
Concen: 3.670 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU026245.D
Acq: 22 Aug 2018 13:54

Tgt Ion:104 Resp: 22012
Ion Ratio Lower Upper
104 100
78 48.4 32.3 60.1





#56

Isopropylbenzene

Concen: 3.686 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampled :

VSTD00545

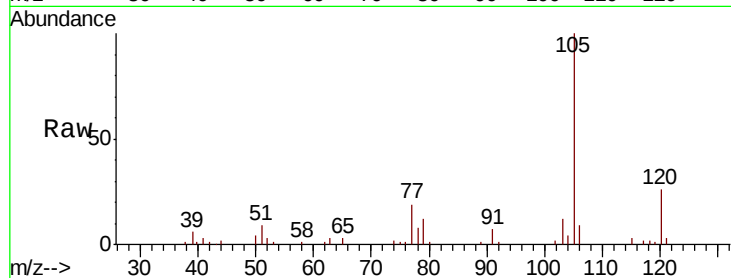
Tgt Ion: 105 Resp: 33935

Ion Ratio Lower Upper

105 100

120 27.2 21.9 32.9

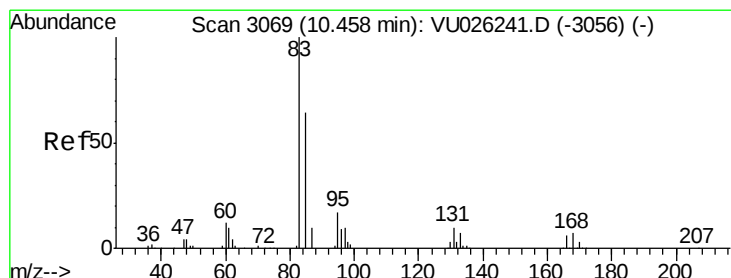
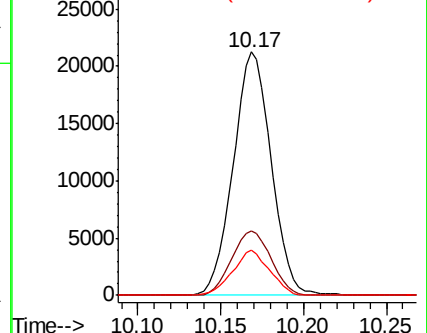
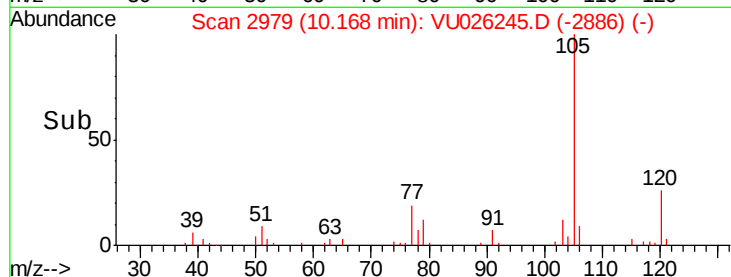
77 17.9 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.104 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

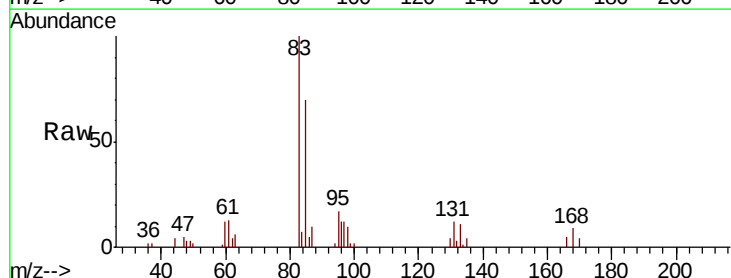
Tgt Ion: 83 Resp: 14756

Ion Ratio Lower Upper

83 100

85 70.4 44.9 83.3

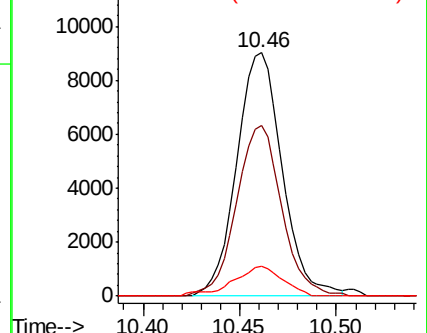
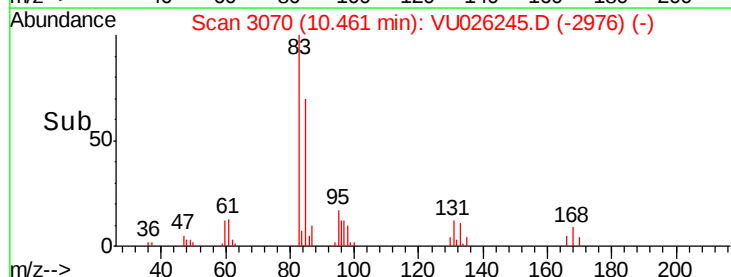
131 12.2 8.2 12.2#

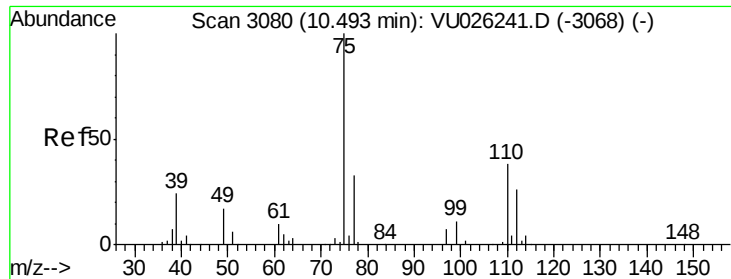


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

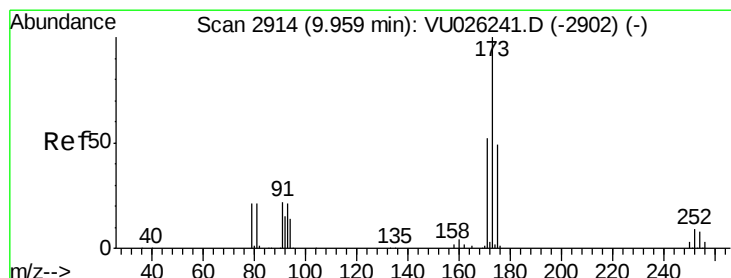
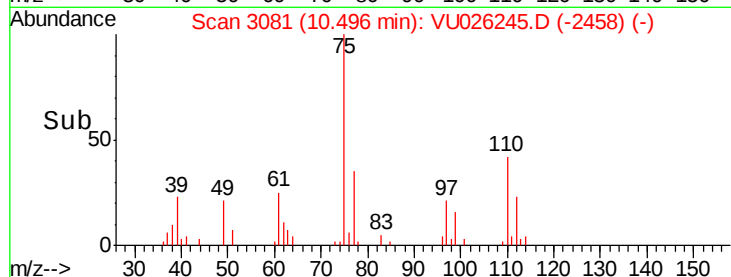
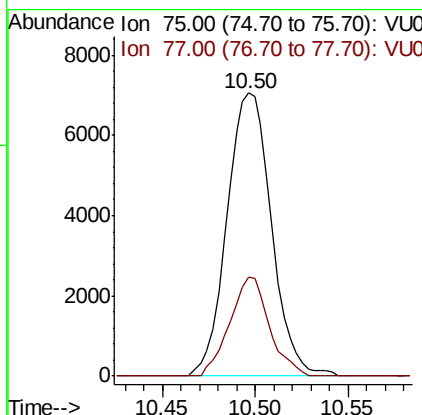
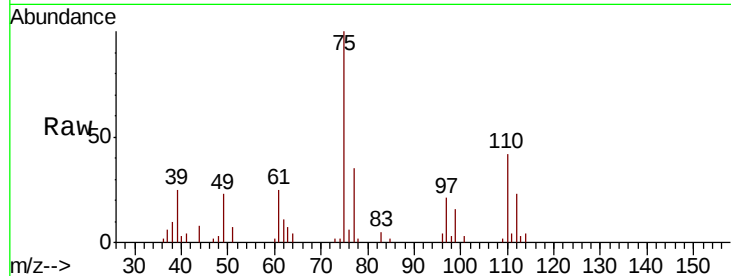




#59
 1,2,3-Trichloropropane
 Concen: 4.106 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

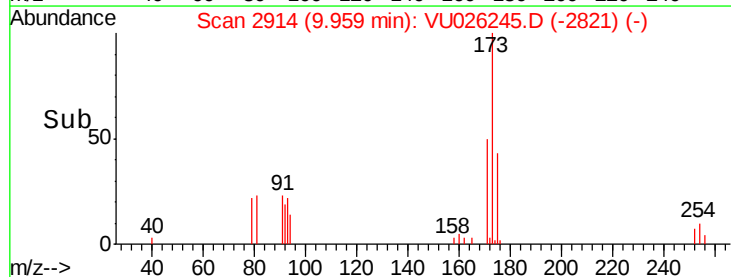
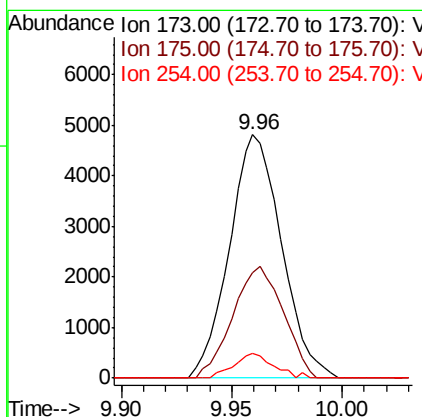
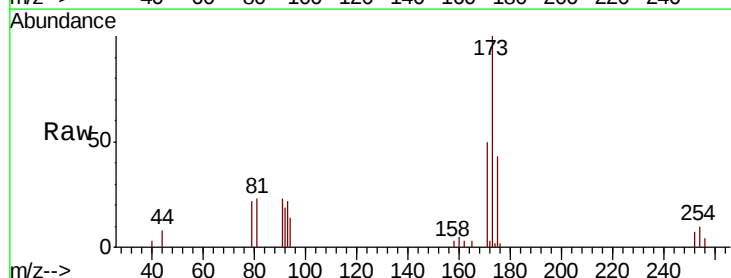
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

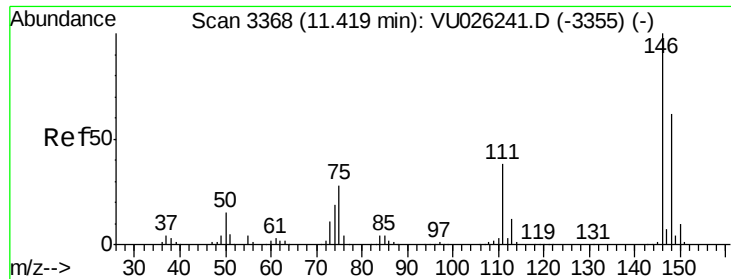
Tgt Ion: 75 Resp: 11699
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.5 38.3



#61
 Bromoform
 Concen: 4.066 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion: 173 Resp: 7880
 Ion Ratio Lower Upper
 173 100
 175 44.6 39.4 59.2
 254 7.5 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 4.625 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

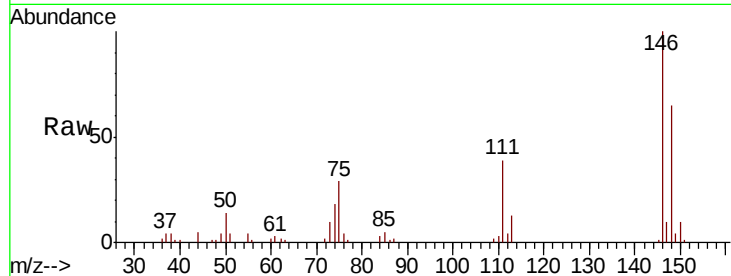
Tgt Ion:146 Resp: 20686

Ion Ratio Lower Upper

146 100

111 38.8 26.9 50.1

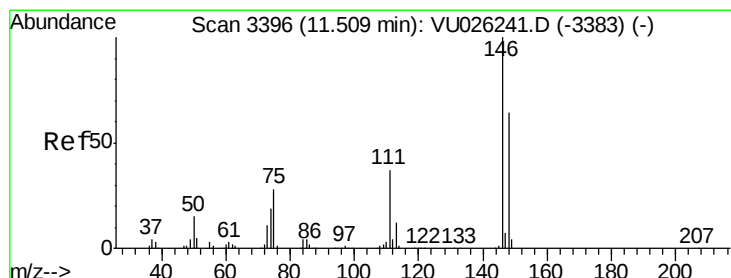
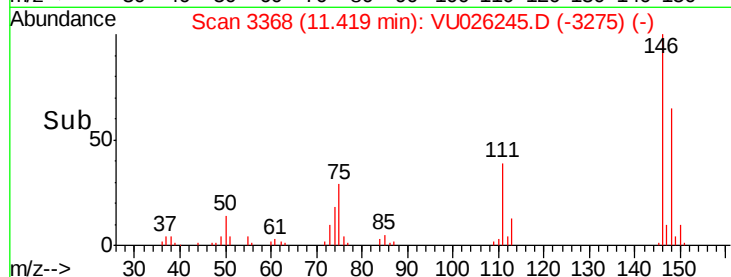
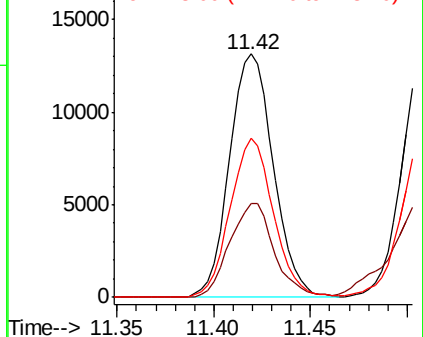
148 65.2 43.7 81.1



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



#63

1,4-Dichlorobenzene

Concen: 4.866 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

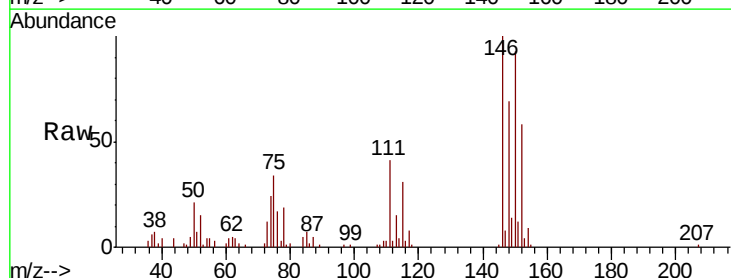
Tgt Ion:146 Resp: 22805

Ion Ratio Lower Upper

146 100

111 41.1 25.9 48.1

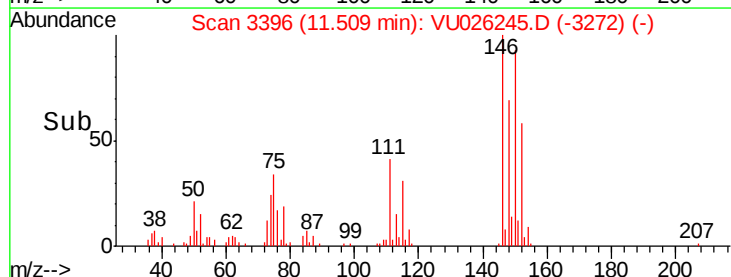
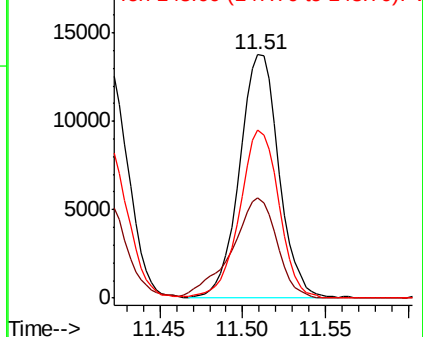
148 69.1 44.5 82.7

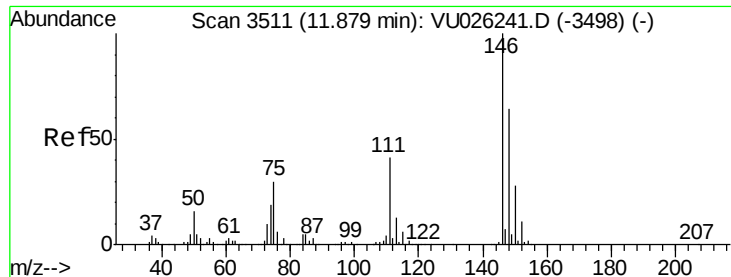


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

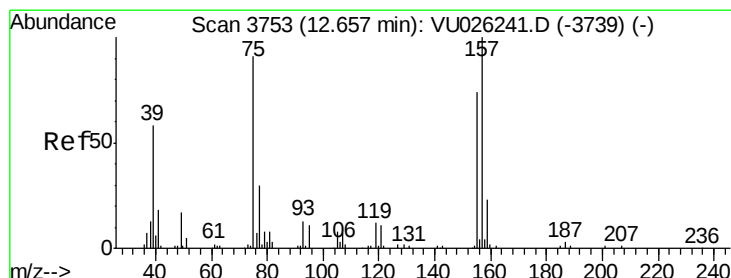
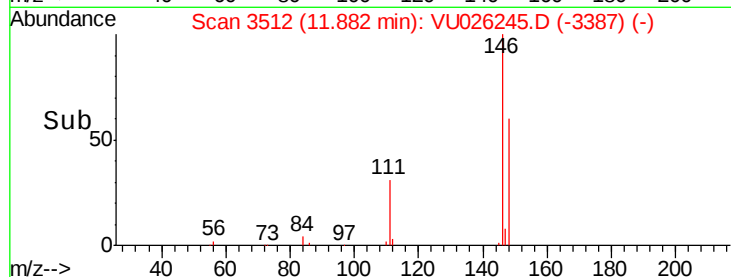
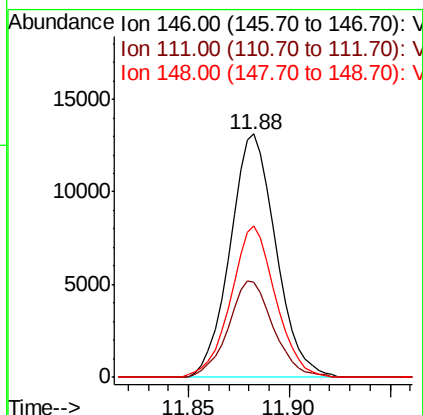
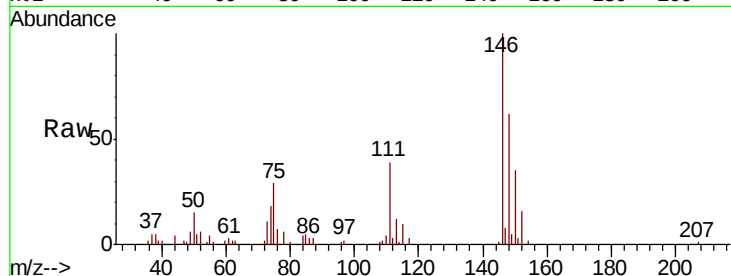




#65
 1,2-Dichlorobenzene
 Concen: 4.388 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

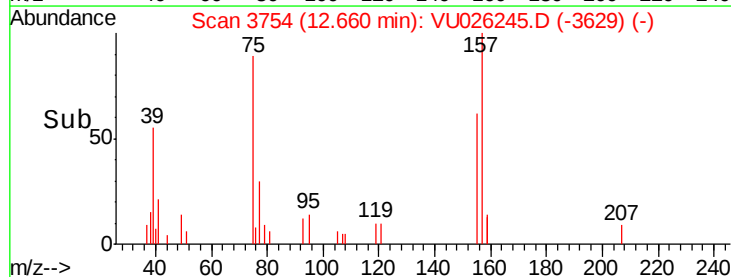
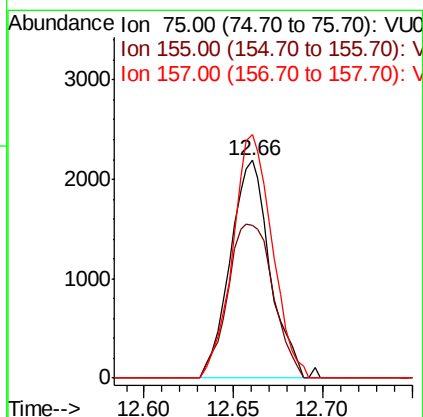
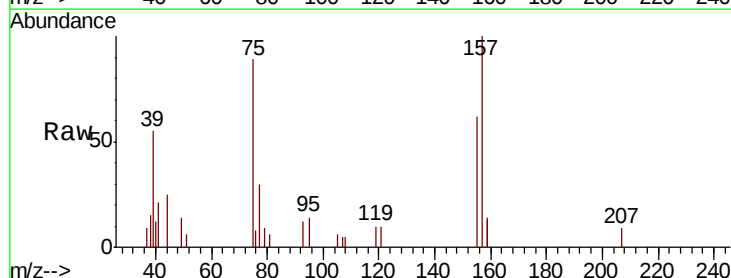
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

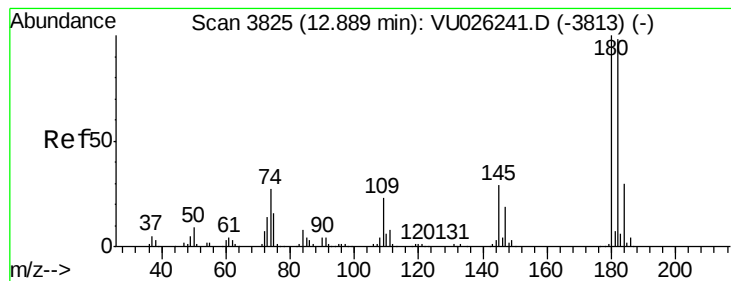
Tgt Ion: 146 Resp: 20844
 Ion Ratio Lower Upper
 146 100
 111 39.2 32.6 48.8
 148 62.1 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.100 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion: 75 Resp: 3398
 Ion Ratio Lower Upper
 75 100
 155 70.0 65.0 97.6
 157 112.0 87.5 131.3

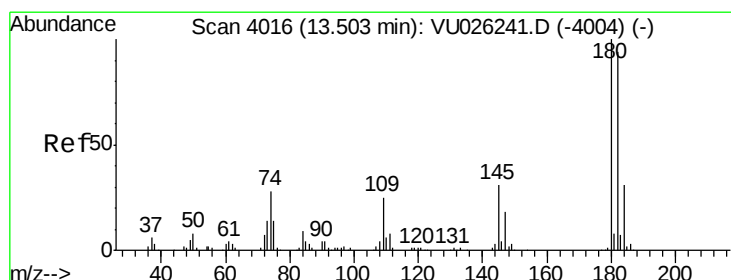
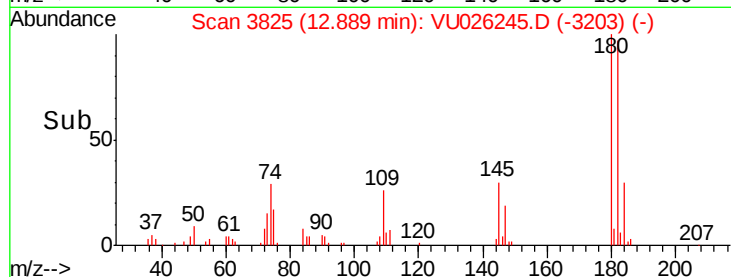
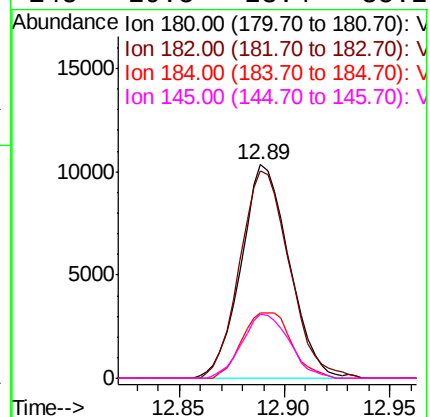
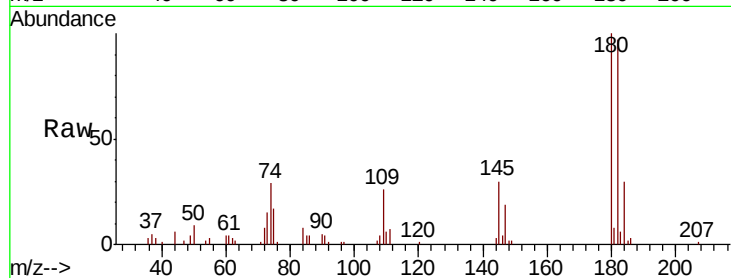




#67
 1,3,5-Trichlorobenzene
 Concen: 4.874 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

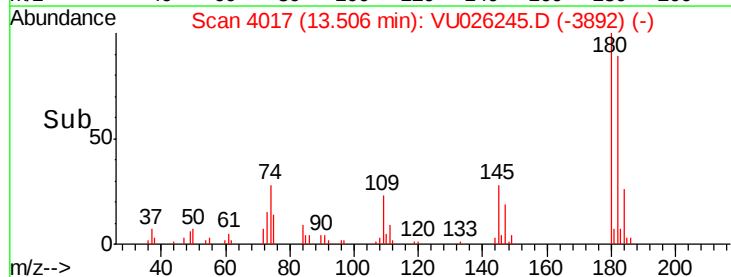
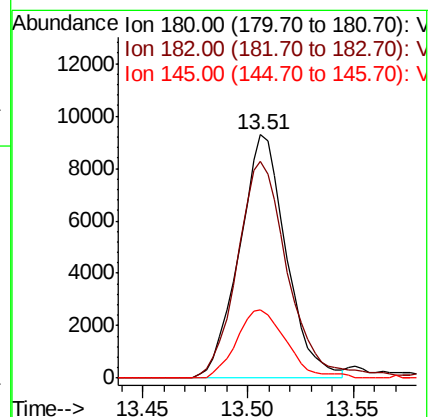
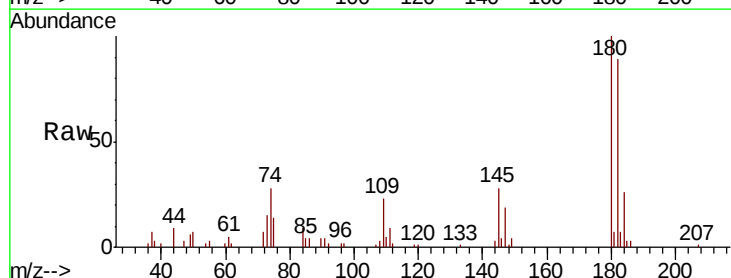
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

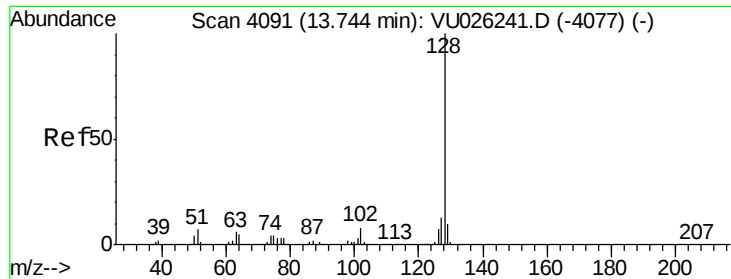
Tgt Ion:180 Resp: 16376
 Ion Ratio Lower Upper
 180 100
 182 100.3 77.9 116.9
 184 31.5 24.2 36.4
 145 29.5 23.4 35.2



#68
 1,2,4-trichlorobenzene
 Concen: 5.015 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026245.D
 Acq: 22 Aug 2018 13:54

Tgt Ion:180 Resp: 14354
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.8 113.6
 145 29.3 23.8 35.8





#69

Naphthalene

Concen: 3.670 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

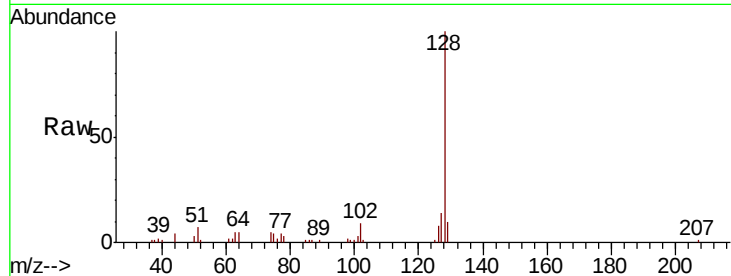
Tgt Ion:128 Resp: 33473

Ion Ratio Lower Upper

128 100

127 12.5 10.4 15.6

129 10.6 8.4 12.6

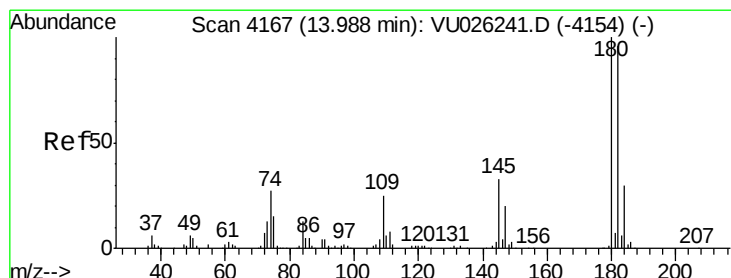
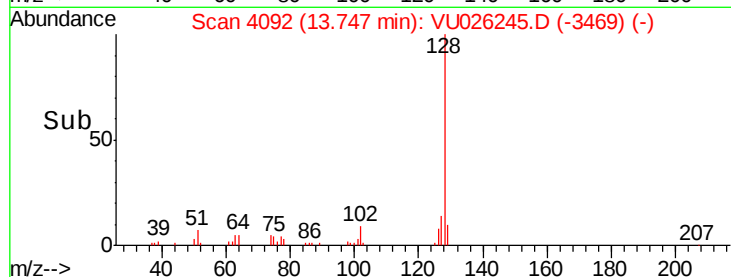
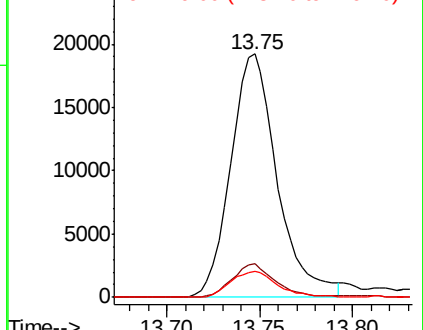


Abundance

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: 4.765 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU026245.D

Acq: 22 Aug 2018 13:54

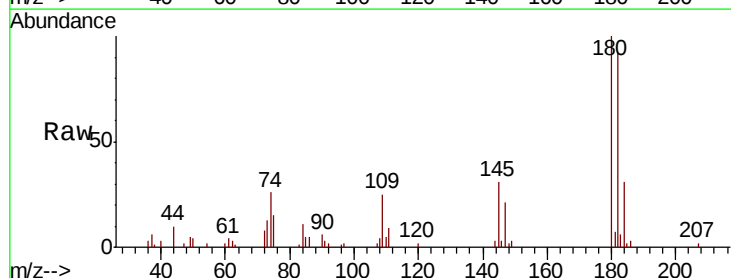
Tgt Ion:180 Resp: 14605

Ion Ratio Lower Upper

180 100

182 97.4 77.6 116.4

145 32.2 26.2 39.2



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

