

Data File : VU026825.D
Acq On : 17 Sep 2018 16:46
Operator : MD/SY
Sample : VSTD00549
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00549

Quant Time: Sep 18 01:00:42 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 18 00:50:30 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	258628	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	247201	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	109850	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	8568	4.48	ug/L	0.00
7) Chloroethane-d5	1.68	69	7292	4.45	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	16943	4.68	ug/L	0.00
21) 2-Butanone-d5	4.18	46	11068	8.72	ug/L	0.00
24) Chloroform-d	4.65	84	16666	4.70	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	10518	4.71	ug/L	0.00
32) Benzene-d6	5.34	84	30236	4.36	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	10153	4.55	ug/L	0.00
41) Toluene-d8	7.57	98	25432	4.06	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	4095	4.11	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	5661	6.45	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13767	4.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	10946	4.79	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	12556	5.137 ug/L	99
3) Chloromethane	1.33	50	12229	4.905 ug/L	99
5) Vinyl chloride	1.40	62	11969	4.933 ug/L	99
6) Bromomethane	1.63	94	5937	4.954 ug/L	100
8) Chloroethane	1.70	64	7737	5.088 ug/L	99
9) Trichlorofluoromethane	1.89	101	14964	4.964 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	9097	5.094 ug/L	98
12) 1,1-Dichloroethene	2.28	96	8230	4.907 ug/L	99
13) Acetone	2.32	43	14714	11.791 ug/L	97
14) Carbon disulfide	2.48	76	29691	5.130 ug/L	98
15) Methyl Acetate	2.62	43	11150	5.157 ug/L	96
16) Methylene chloride	2.70	84	11161	5.235 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	9396	5.087 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	25513	4.723 ug/L	99
19) 1,1-Dichloroethane	3.45	63	17917	5.029 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	9576	4.714 ug/L	93
22) 2-Butanone	4.27	43	15342	9.970 ug/L	94
23) Bromochloromethane	4.55	128	5666	5.165 ug/L	95
25) Chloroform	4.67	83	18117	5.021 ug/L	96
27) 1,2-Dichloroethane	5.41	62	14234	5.055 ug/L	99
29) Cyclohexane	5.00	56	12544	4.370 ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	14940	5.080 ug/L	99
31) Carbon tetrachloride	5.14	117	13075	4.961 ug/L	100
33) Benzene	5.39	78	37714	4.921 ug/L	100
34) Trichloroethene	6.19	95	9231	5.019 ug/L	99
35) Methylcyclohexane	6.42	83	13179	4.396 ug/L	93
37) 1,2-Dichloropropane	6.44	63	10349	4.916 ug/L	99
38) Bromodichloromethane	6.76	83	12881	4.934 ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	13390	4.502 ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	21478	8.586 ug/L	96

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QLast Update : Tue Sep 18 00:50:30 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	35048	4.519	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	12500	4.489	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	9616	5.010	ug/L	98
46) Tetrachloroethene	8.23	164	8027	4.923	ug/L	98
48) 2-Hexanone	8.37	43	17838	8.840	ug/L	92
49) Dibromochloromethane	8.48	129	10420	4.796	ug/L	99
50) 1,2-Dibromoethane	8.59	107	9683	4.839	ug/L #	98
51) Chlorobenzene	9.12	112	25998	4.940	ug/L	98
52) Ethylbenzene	9.25	91	34634	4.263	ug/L	100
53) m,p-Xylene	9.38	106	12826	4.107	ug/L	96
54) o-xylene	9.78	106	12104	3.978	ug/L	99
55) Styrene	9.79	104	19971	3.801	ug/L	100
56) Isopropylbenzene	10.17	105	30560	3.931	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	15704	4.864	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	12362	4.902	ug/L	99
61) Bromoform	9.96	173	7669	5.309	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	16603	4.958	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	19714	5.346	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	18675	5.036	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	2919	5.189	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	12423	4.794	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	10566	4.732	ug/L	97
69) Naphthalene	13.75	128	25264	3.840	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	11302	4.596	ug/L	97

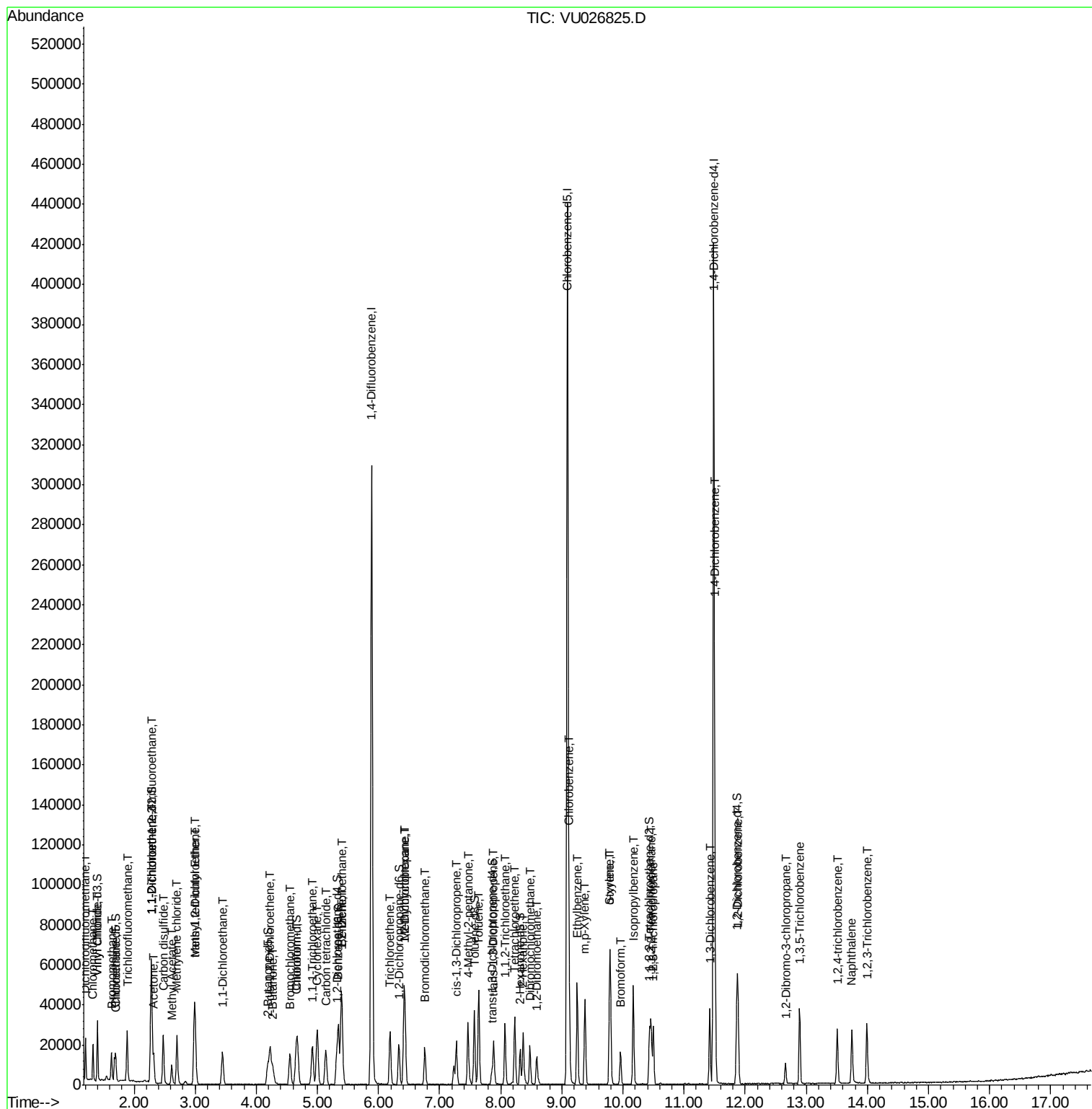
(#) = qualifier out of range (m) = manual integration (+) = signals summed

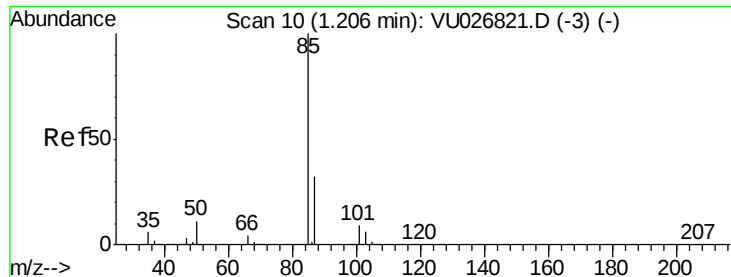
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#2

Dichlorodifluoromethane

Concen: 5.137 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

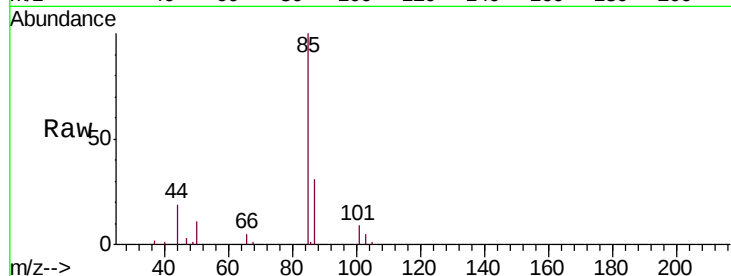
VSTD00549

Tgt Ion: 85 Resp: 12556

Ion Ratio Lower Upper

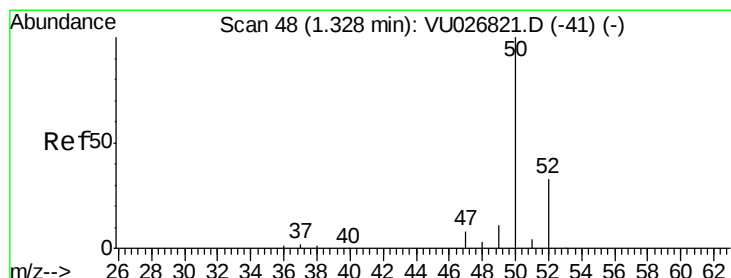
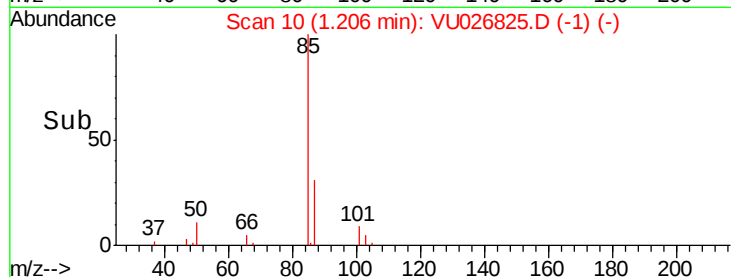
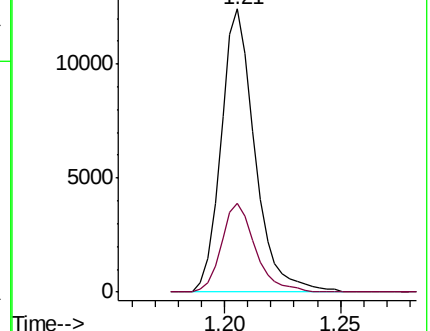
85 100

87 31.5 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.905 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU026825.D

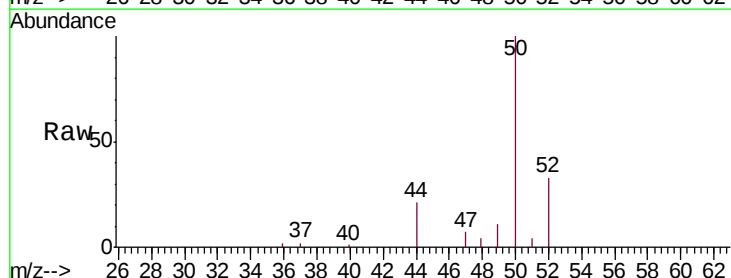
Acq: 17 Sep 2018 16:46

Tgt Ion: 50 Resp: 12229

Ion Ratio Lower Upper

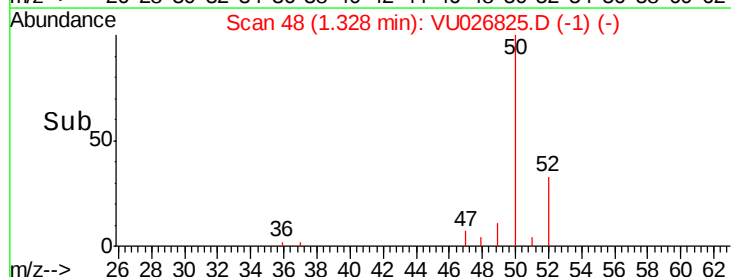
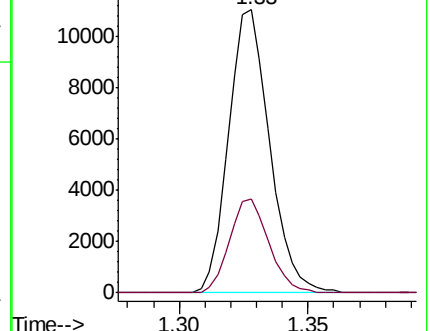
50 100

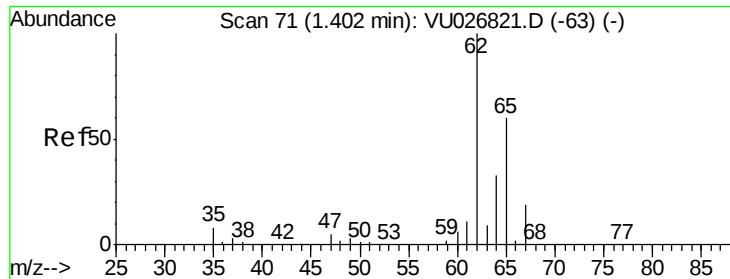
52 33.0 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 4.933 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

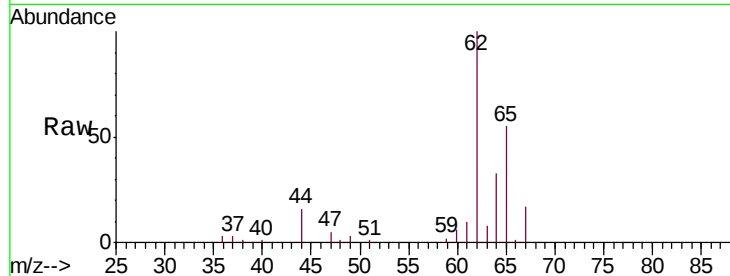
VSTD00549

Tgt Ion: 62 Resp: 11969

Ion Ratio Lower Upper

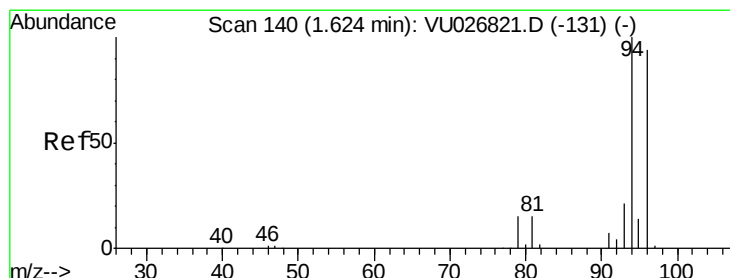
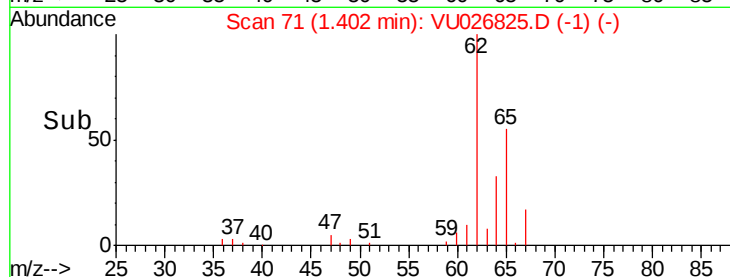
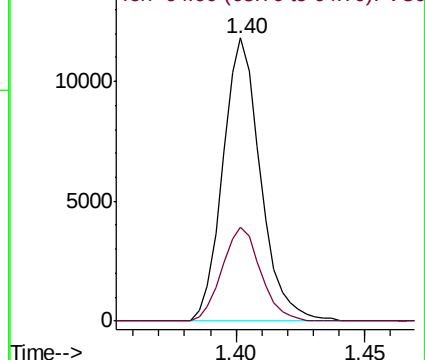
62 100

64 33.3 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 4.954 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU026825.D

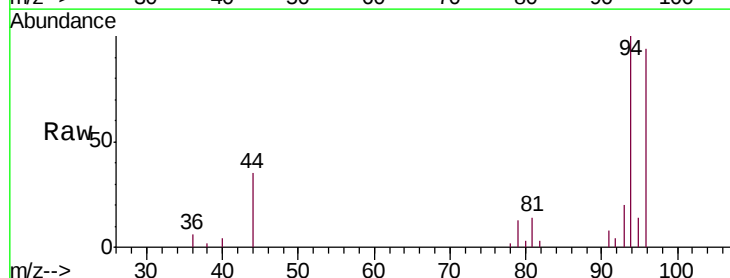
Acq: 17 Sep 2018 16:46

Tgt Ion: 94 Resp: 5937

Ion Ratio Lower Upper

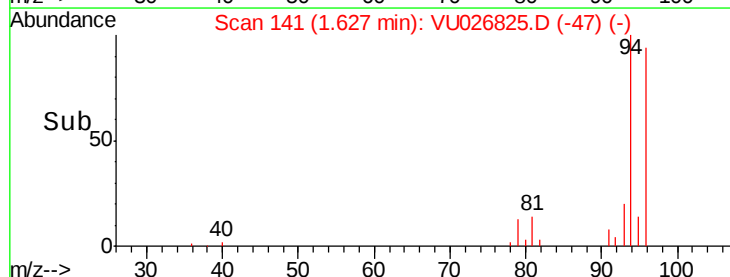
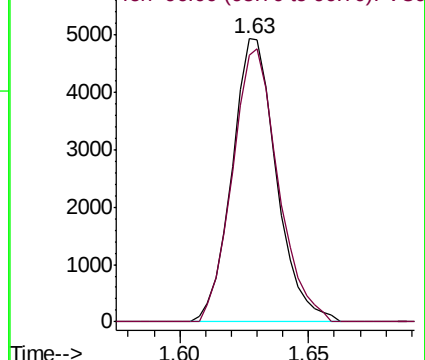
94 100

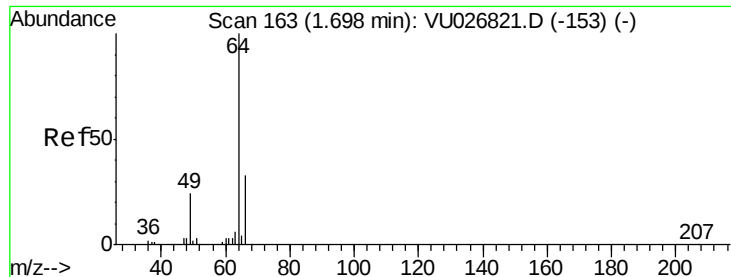
96 94.1 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.088 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

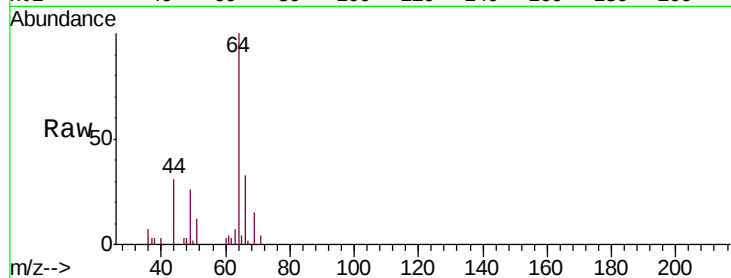
VSTD00549

Tgt Ion: 64 Resp: 7737

Ion Ratio Lower Upper

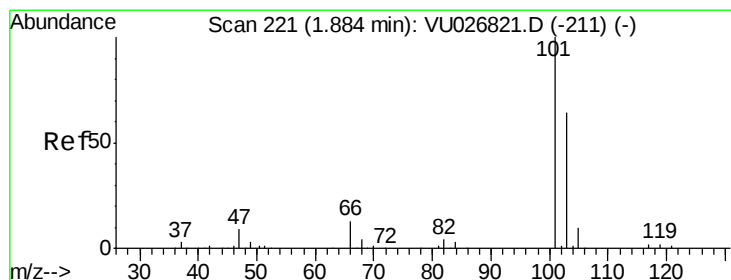
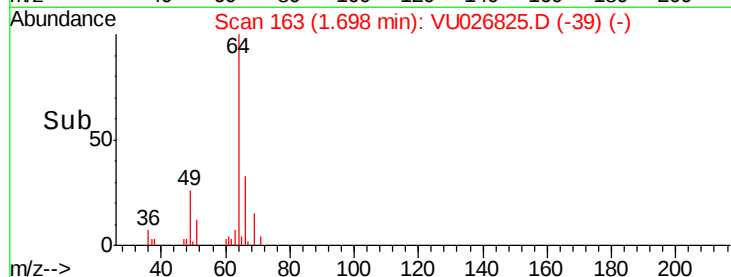
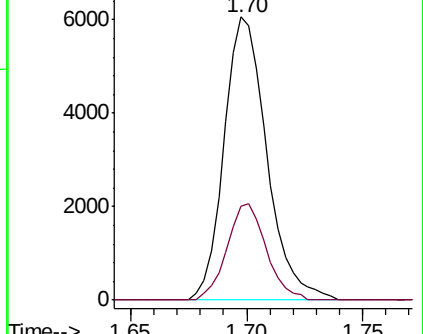
64 100

66 33.3 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 4.964 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU026825.D

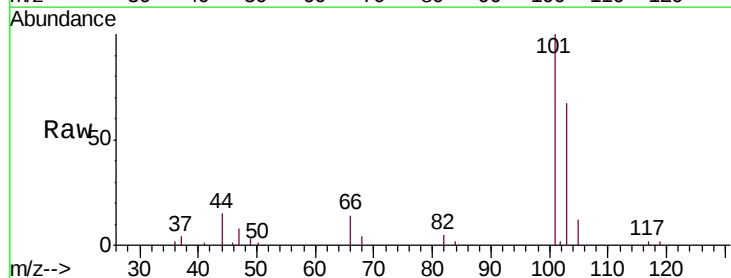
Acq: 17 Sep 2018 16:46

Tgt Ion: 101 Resp: 14964

Ion Ratio Lower Upper

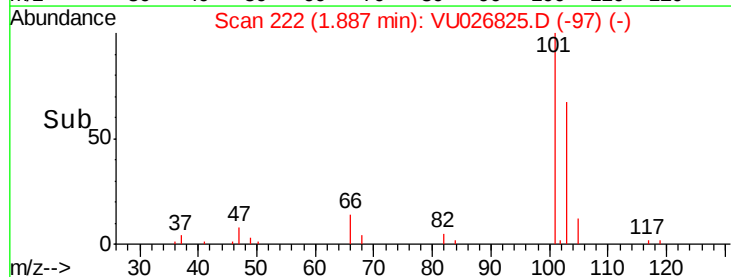
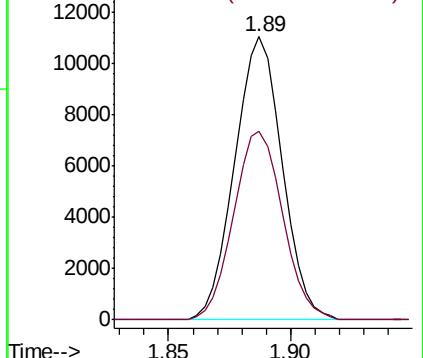
101 100

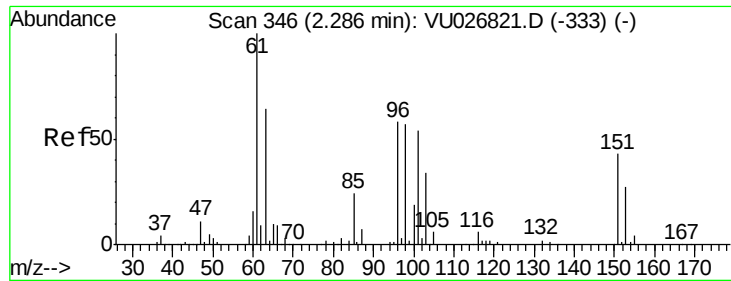
103 68.9 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 5.094 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

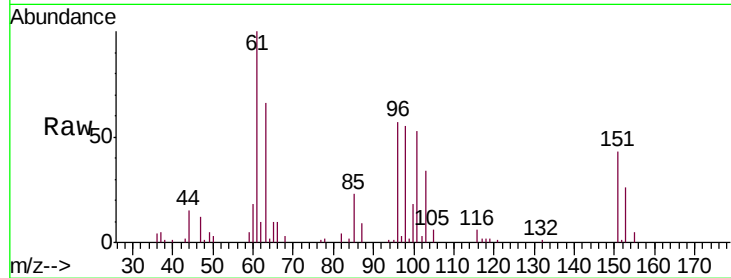
Tgt Ion: 101 Resp: 9097

Ion Ratio Lower Upper

101 100

85 42.5 34.6 52.0

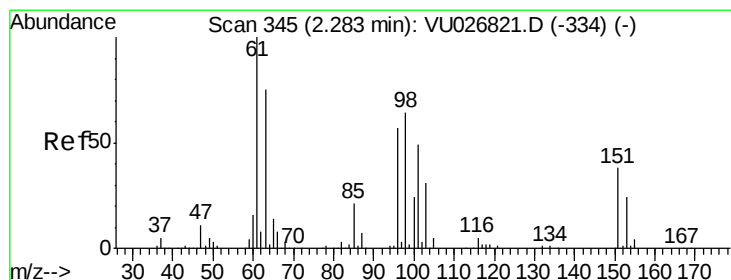
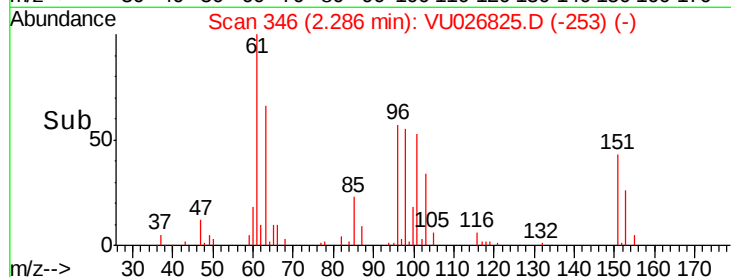
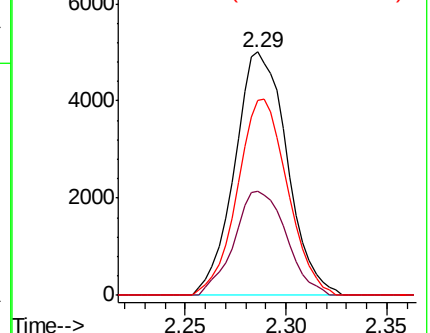
151 77.1 63.0 94.4



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: 4.907 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

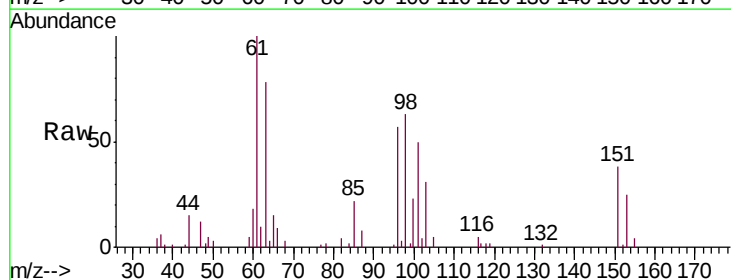
Tgt Ion: 96 Resp: 8230

Ion Ratio Lower Upper

96 100

61 176.2 124.0 230.4

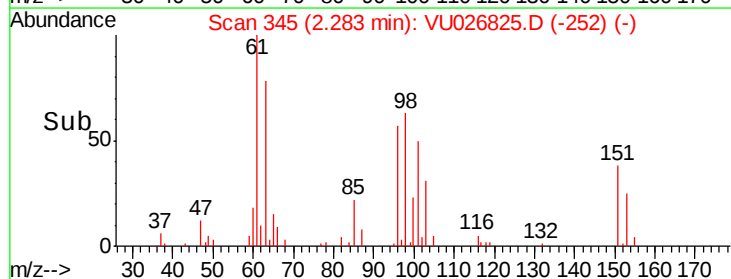
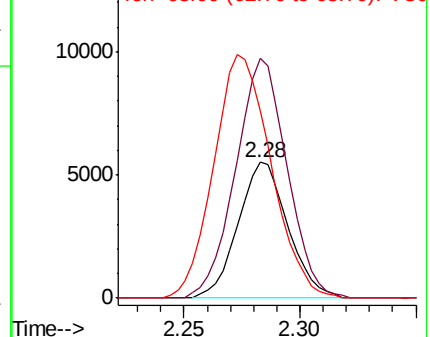
63 137.6 97.7 181.5

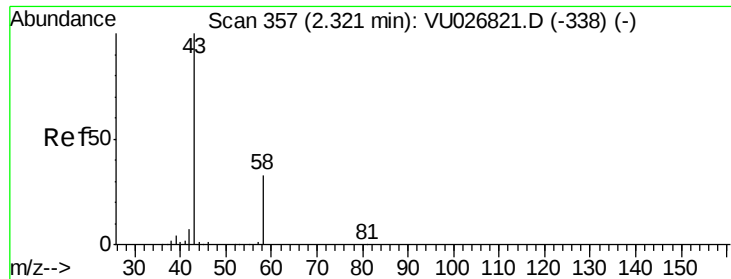


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.791 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

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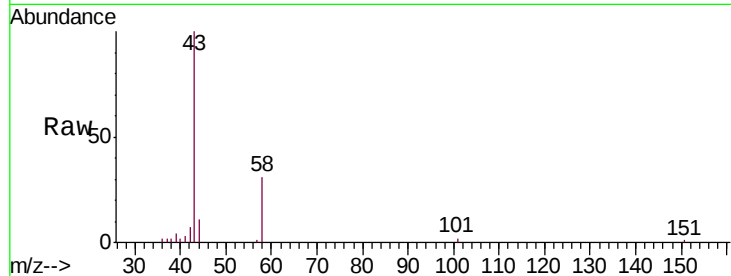
VSTD00549

Tgt Ion: 43 Resp: 14714

Ion Ratio Lower Upper

43 100

58 33.8 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU026825.D (-313) (-)

Ion 58.00 (57.70 to 58.70): VU026825.D (-313) (-)

Time-->

2.25 2.30 2.35 2.40

10000

8000

6000

4000

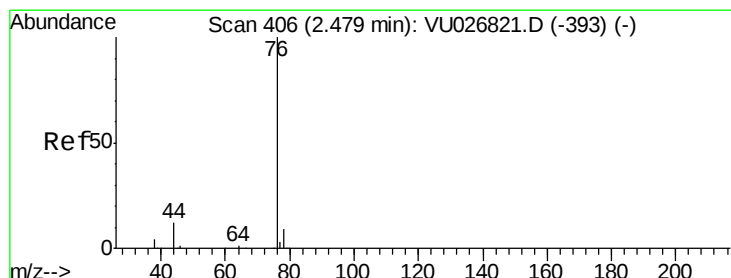
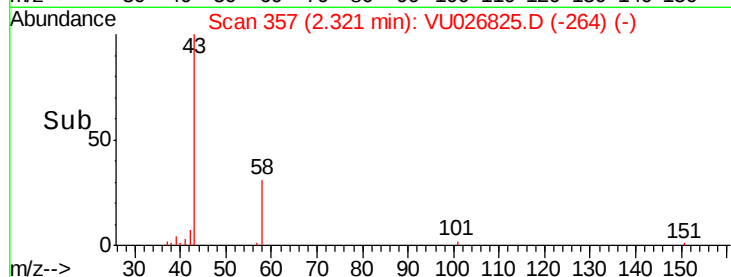
2000

0

2.32

2.35

2.40



#14

Carbon disulfide

Concen: 5.130 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU026825.D

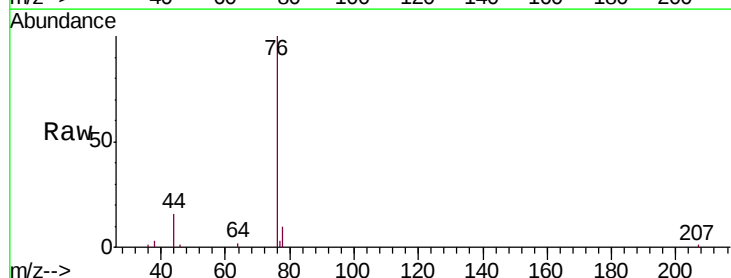
Acq: 17 Sep 2018 16:46

Tgt Ion: 76 Resp: 29691

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU026825.D (-313) (-)

Ion 78.00 (77.70 to 78.70): VU026825.D (-313) (-)

Time-->

2.40 2.45 2.50 2.55

20000

15000

10000

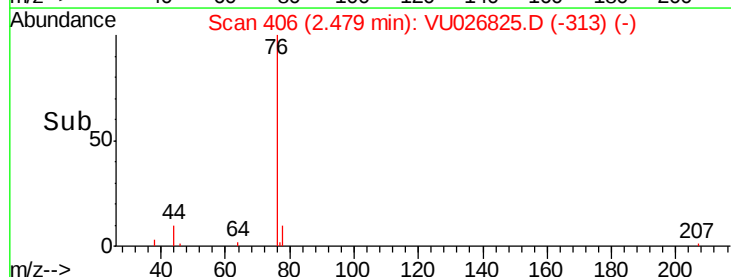
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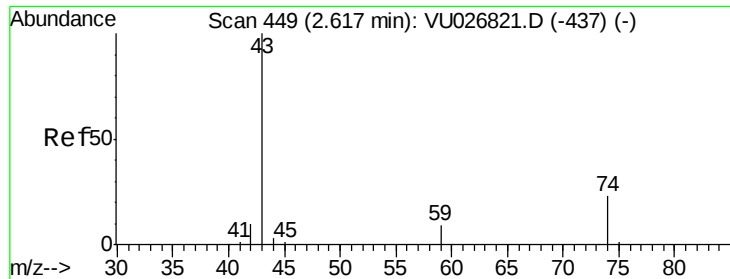
0

2.48

2.50

2.55





#15

Methyl Acetate

Concen: 5.157 ug/L

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

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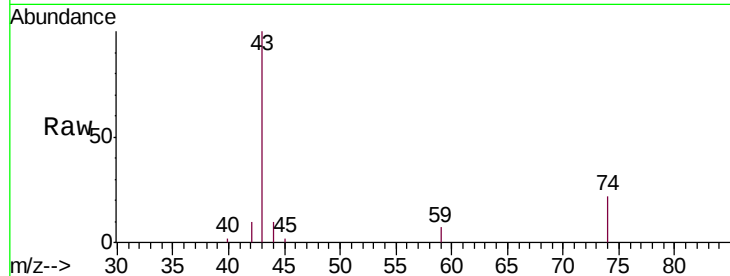
VSTD00549

Tgt Ion: 43 Resp: 11150

Ion Ratio Lower Upper

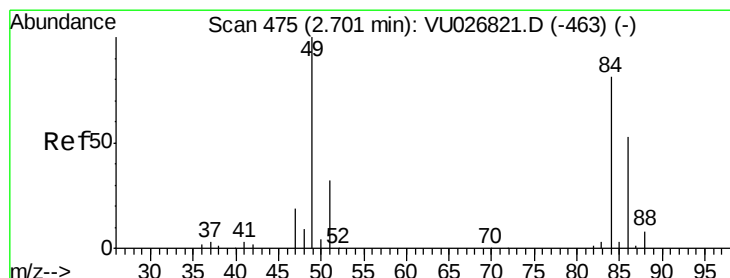
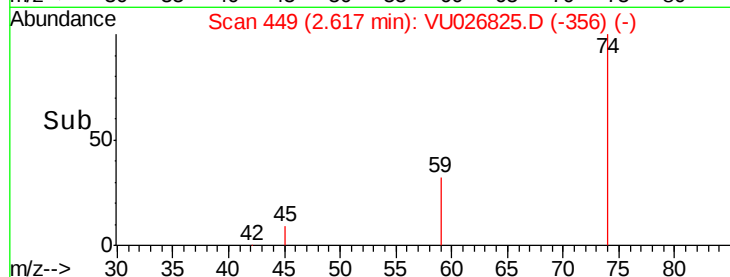
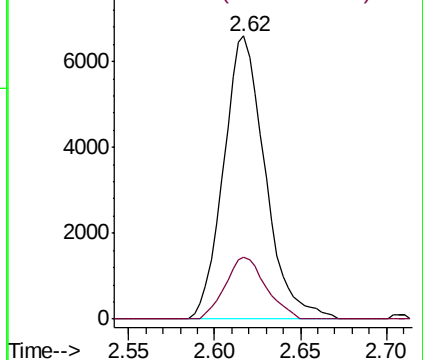
43 100

74 21.5 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 5.235 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

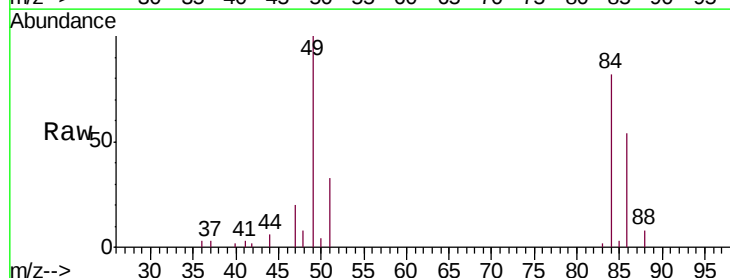
Tgt Ion: 84 Resp: 11161

Ion Ratio Lower Upper

84 100

86 66.1 45.3 84.1

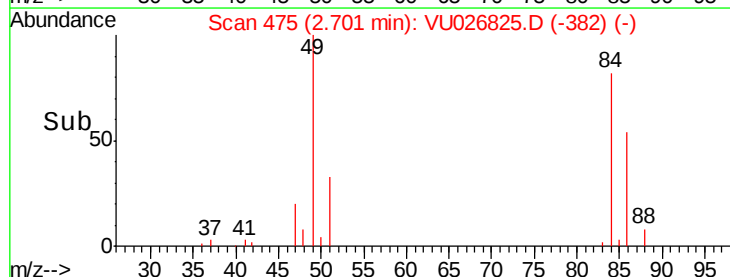
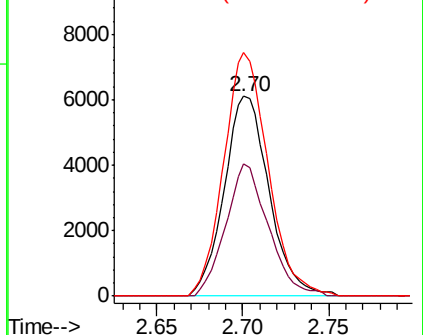
49 121.9 86.2 160.2

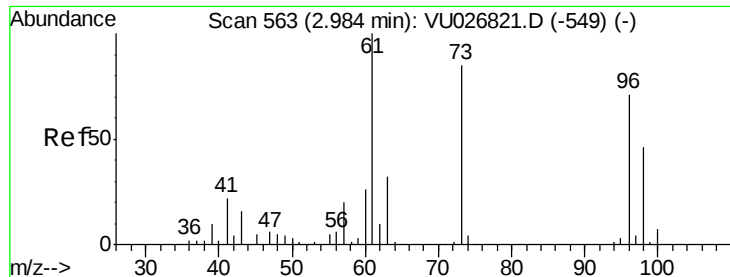


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 5.087 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

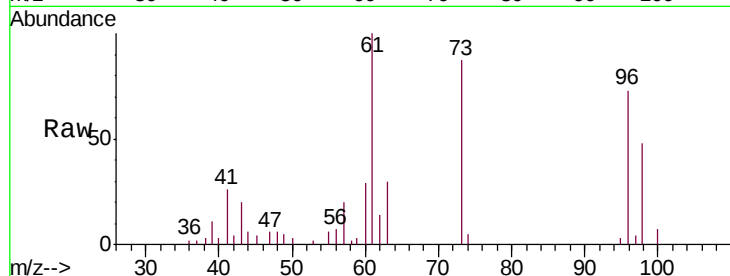
Tgt Ion: 96 Resp: 9396

Ion Ratio Lower Upper

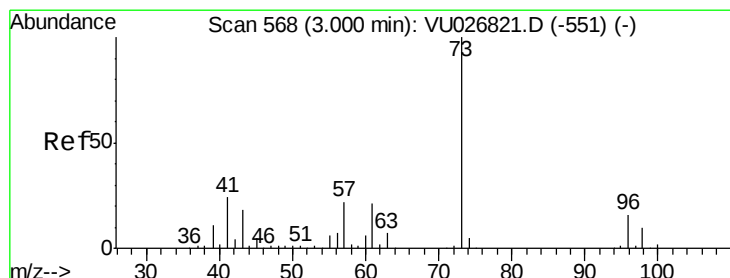
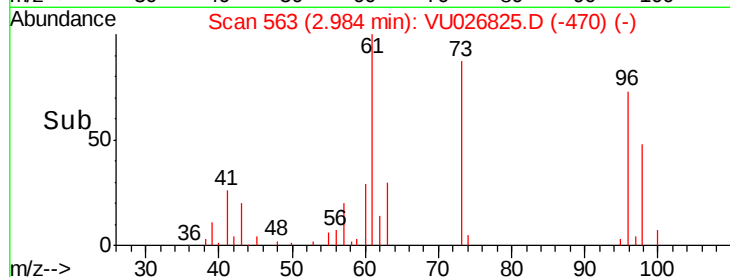
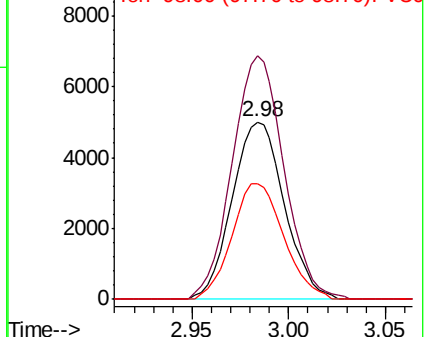
96 100

61 137.1 98.7 183.3

98 65.1 45.2 84.0



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



#18

Methyl tert-butyl Ether

Concen: 4.723 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

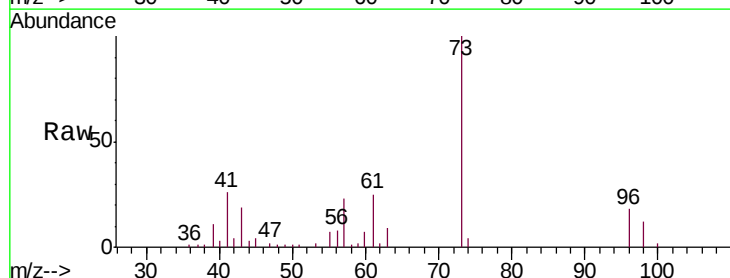
Tgt Ion: 73 Resp: 25513

Ion Ratio Lower Upper

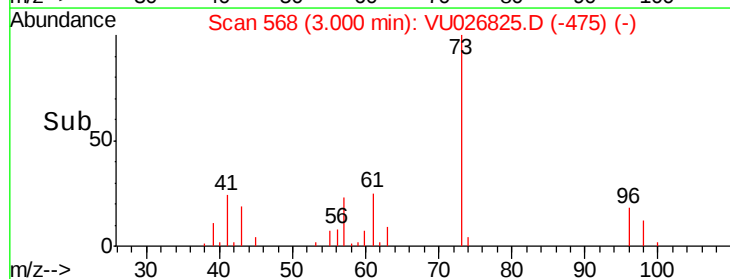
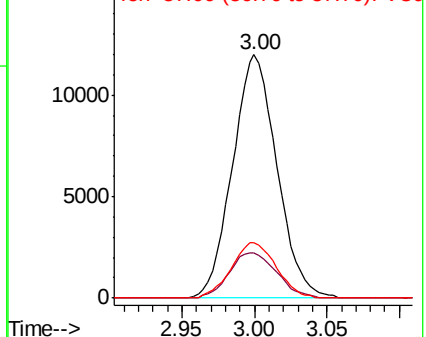
73 100

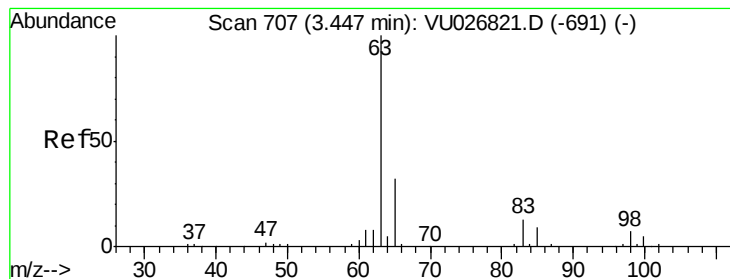
43 20.0 15.3 22.9

57 23.0 18.1 27.1



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





#19

1,1-Dichloroethane

Concen: 5.029 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampled :

VSTD00549

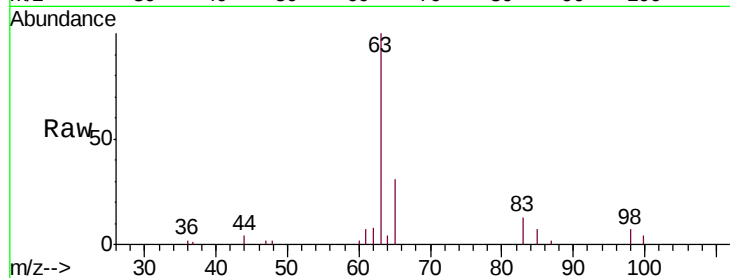
Tgt Ion: 63 Resp: 17917

Ion Ratio Lower Upper

63 100

65 30.8 22.1 41.1

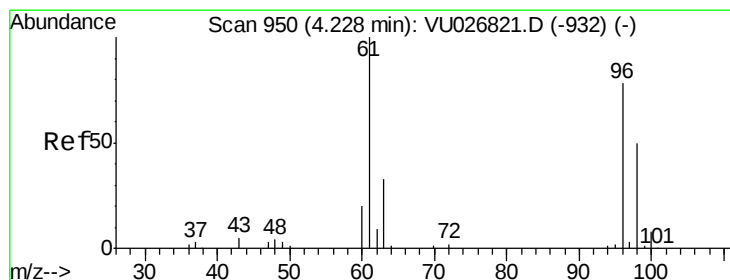
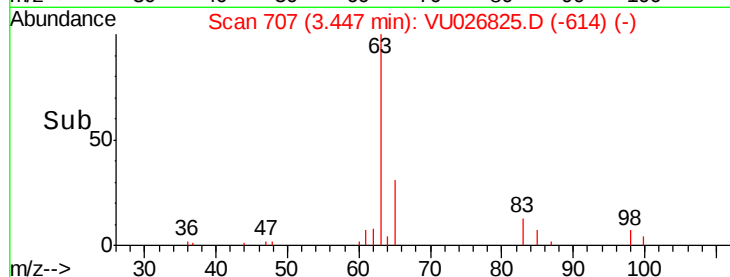
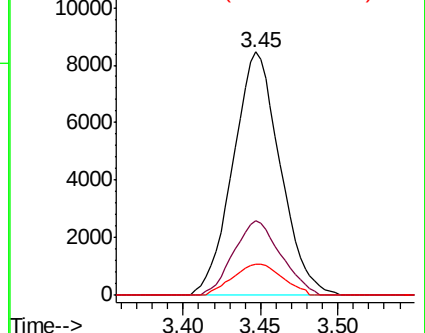
83 12.5 9.3 17.3



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: 4.714 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

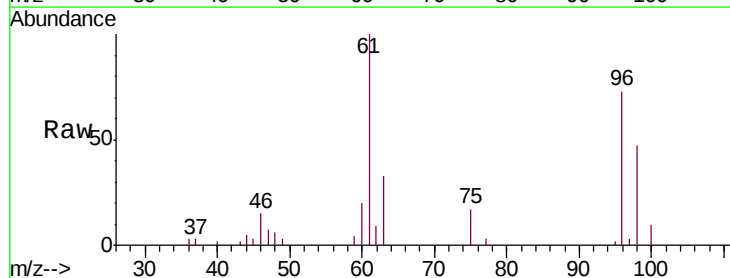
Tgt Ion: 96 Resp: 9576

Ion Ratio Lower Upper

96 100

61 137.0 90.2 167.4

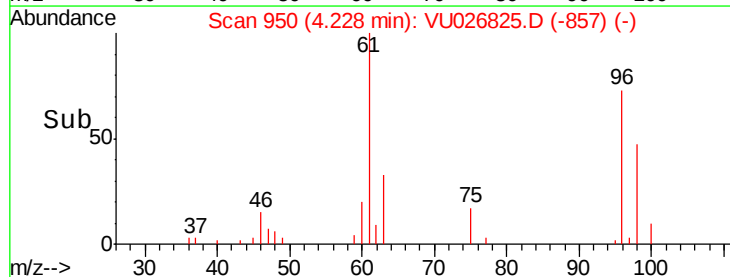
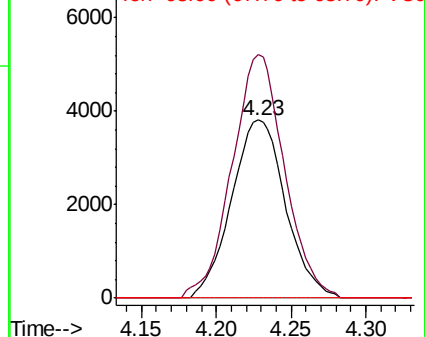
68 0.0 0.0 0.0

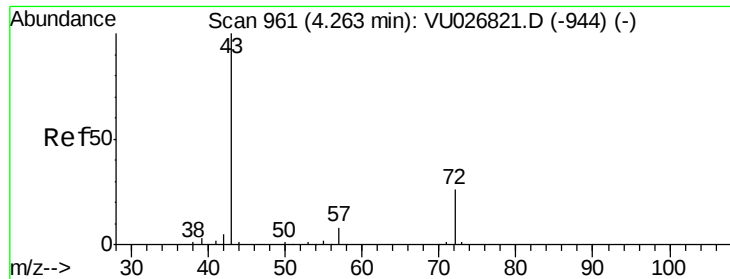


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 9.970 ug/L

RT: 4.27 min Scan# 962

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

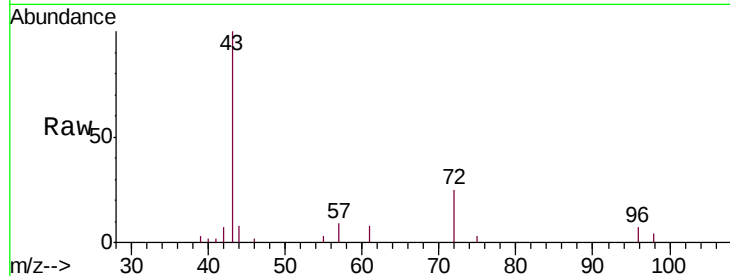
VSTD00549

Tgt Ion: 43 Resp: 15342

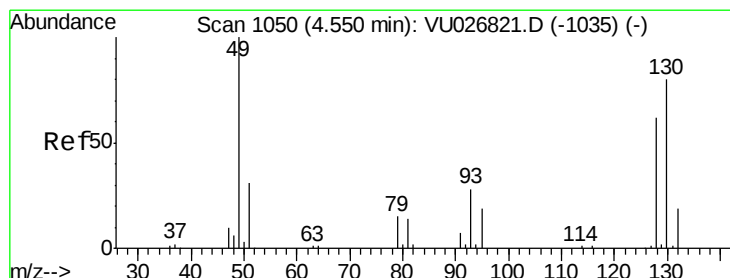
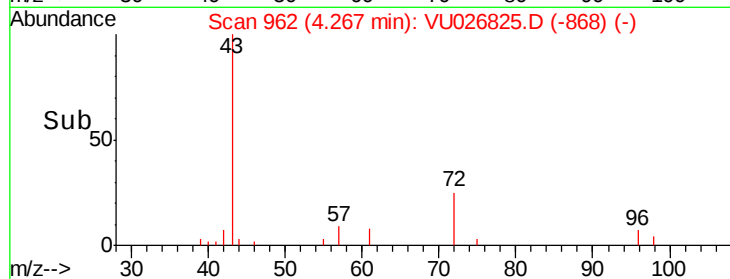
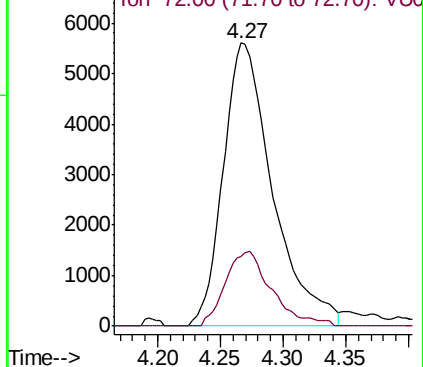
Ion Ratio Lower Upper

43 100

72 23.7 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU026825.D (-968) (-)



#23

Bromochloromethane

Concen: 5.165 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Tgt Ion: 128 Resp: 5666

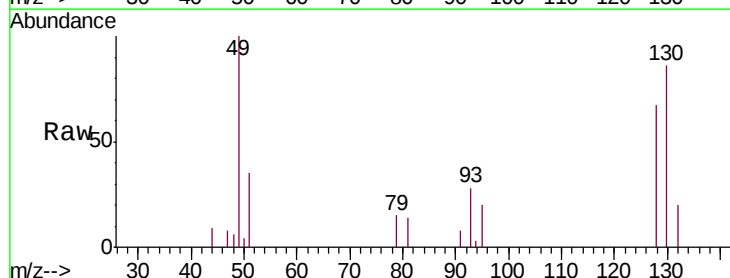
Ion Ratio Lower Upper

128 100

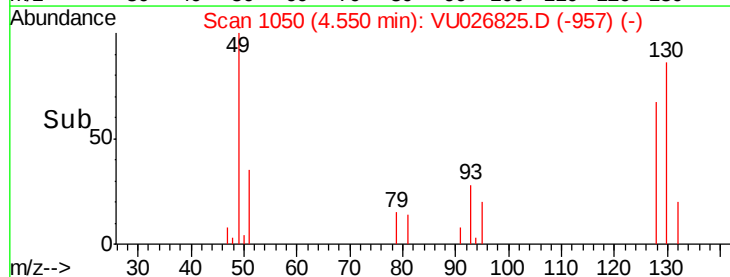
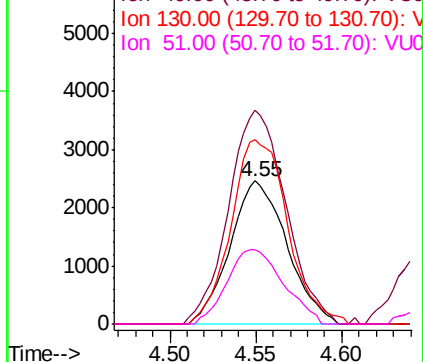
49 149.3 113.0 209.8

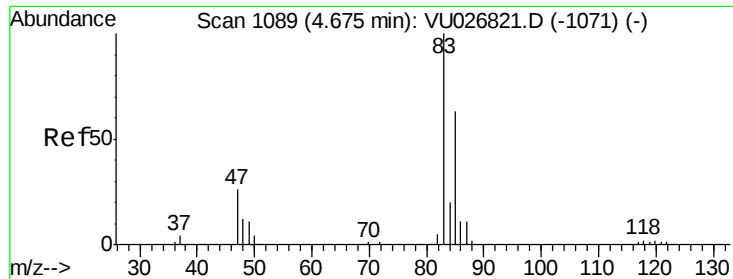
130 129.1 89.7 166.5

51 52.4 39.7 59.5



Abundance Ion 128.00 (127.70 to 128.70): VU026825.D (-957) (-)

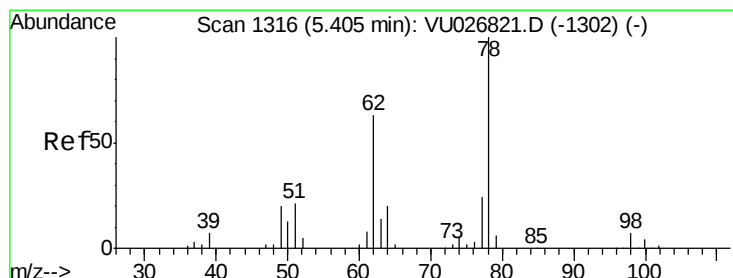
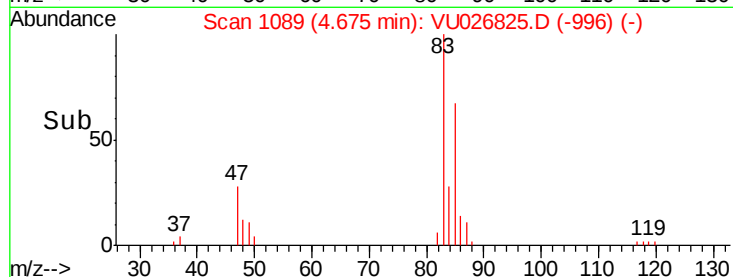
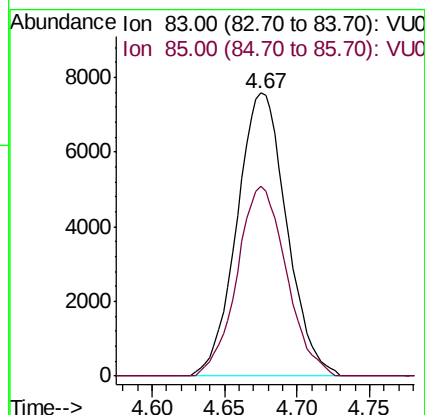
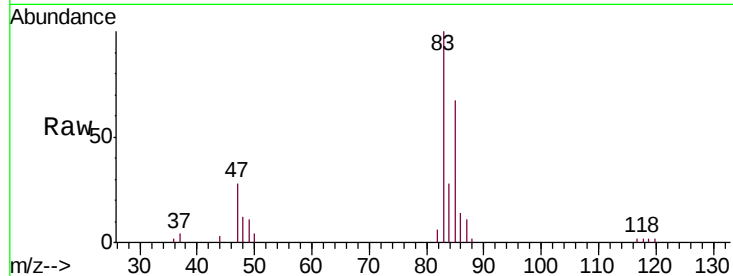




#25
Chloroform
Concen: 5.021 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

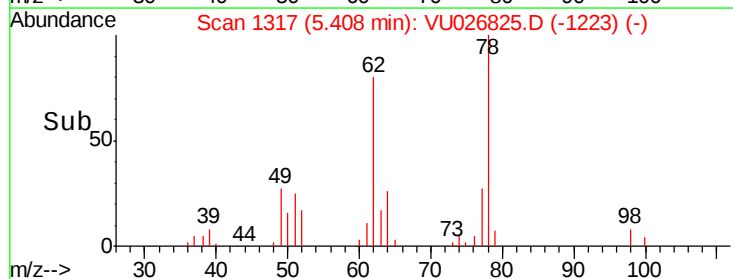
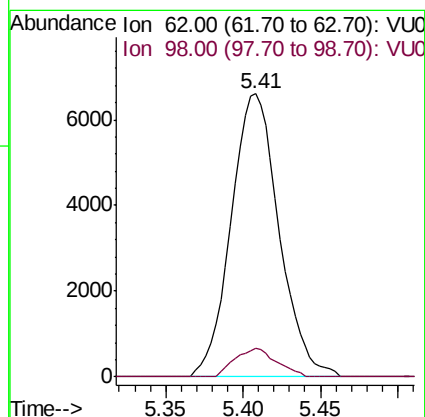
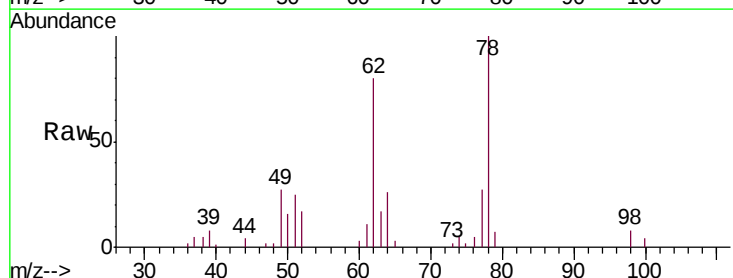
Instrument :
MSVOA_U
ClientSampleId :
VSTD00549

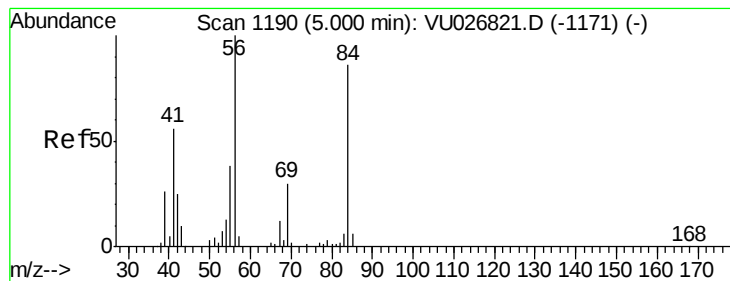
Tgt Ion: 83 Resp: 18117
Ion Ratio Lower Upper
83 100
85 67.0 44.4 82.5



#27
1,2-Dichloroethane
Concen: 5.055 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

Tgt Ion: 62 Resp: 14234
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.4





#29

Cyclohexane

Concen: 4.370 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

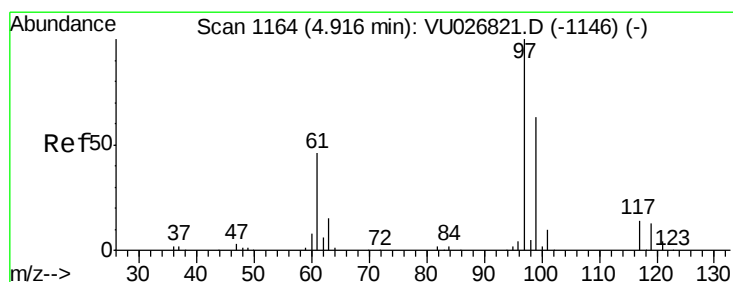
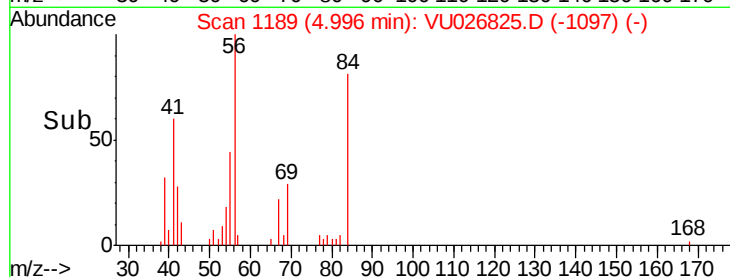
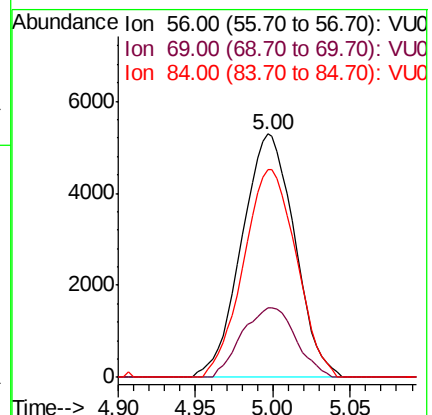
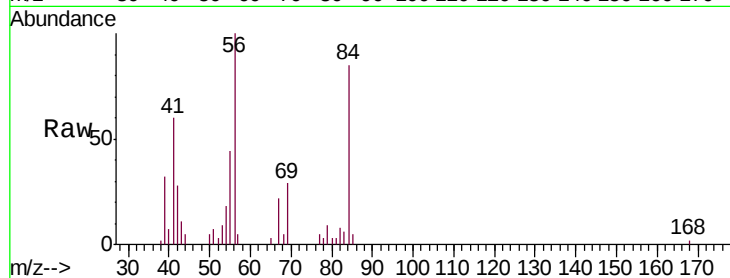
Tgt Ion: 56 Resp: 12544

Ion Ratio Lower Upper

56 100

69 29.2 23.7 35.5

84 85.5 69.0 103.4



#30

1,1,1-Trichloroethane

Concen: 5.080 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

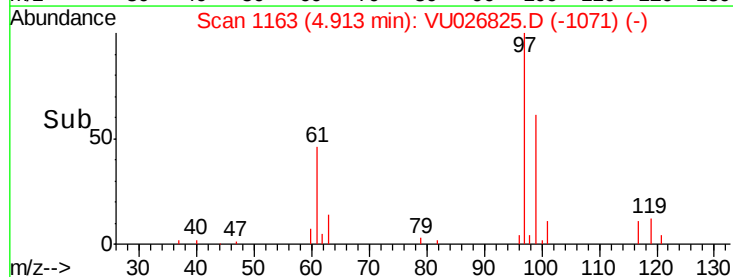
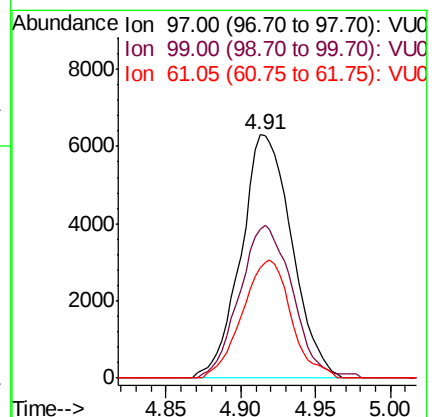
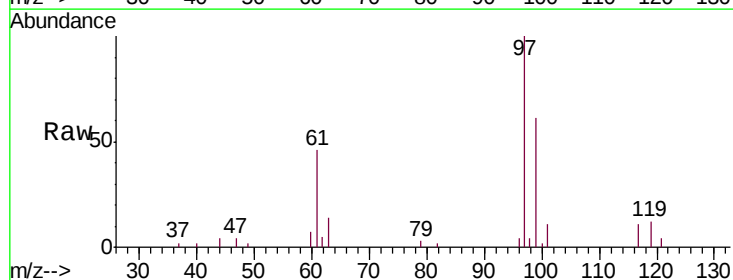
Tgt Ion: 97 Resp: 14940

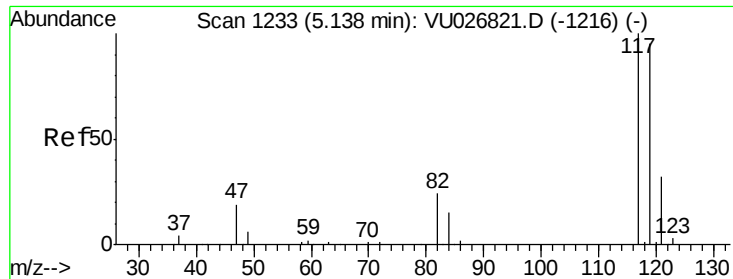
Ion Ratio Lower Upper

97 100

99 65.0 51.8 77.8

61 46.5 36.6 54.8





#31

Carbon tetrachloride

Concen: 4.961 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

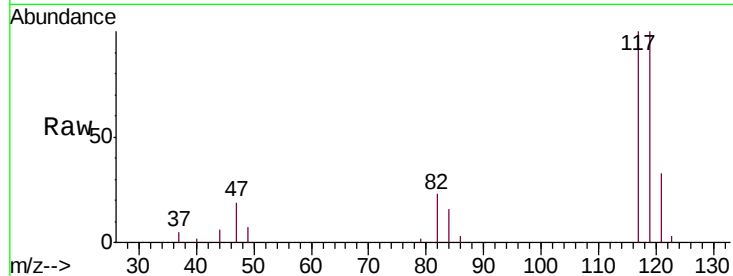
VSTD00549

Tgt Ion:117 Resp: 13075

Ion Ratio Lower Upper

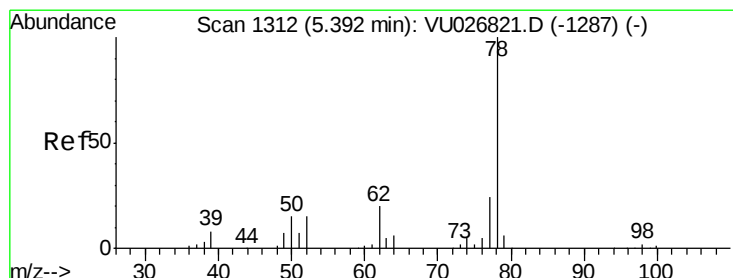
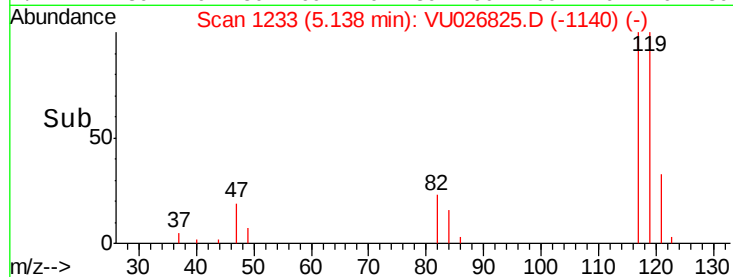
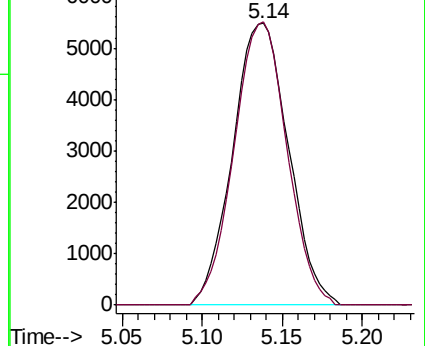
117 100

119 95.5 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.921 ug/L

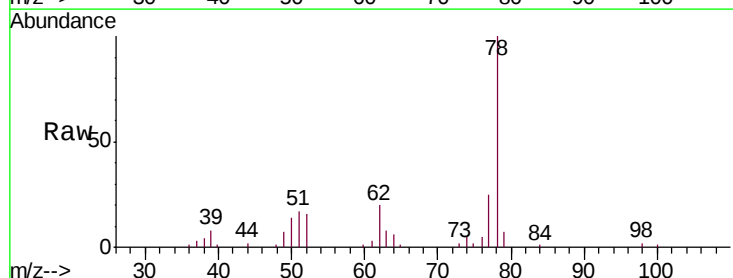
RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

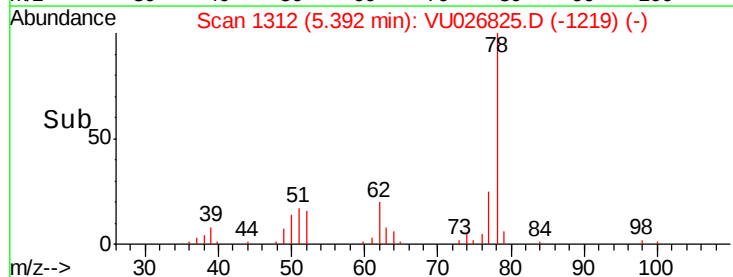
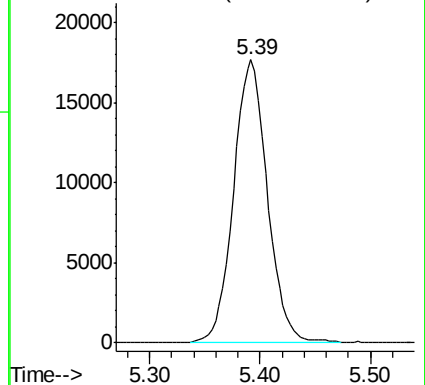
Lab File: VU026825.D

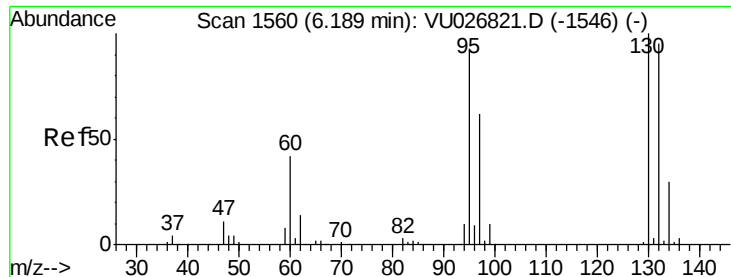
Acq: 17 Sep 2018 16:46

Tgt Ion: 78 Resp: 37714



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 5.019 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

Tgt Ion: 95 Resp: 9231

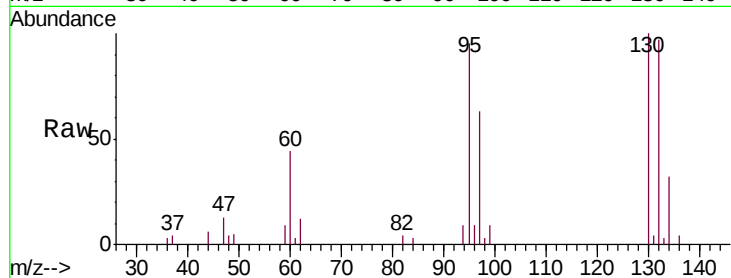
Ion Ratio Lower Upper

95 100

97 66.6 46.3 85.9

132 102.4 71.7 133.1

130 105.2 75.3 139.8

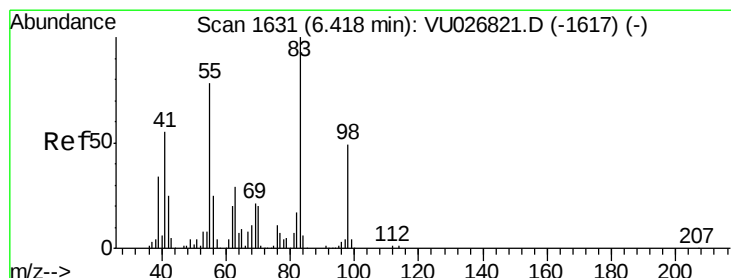
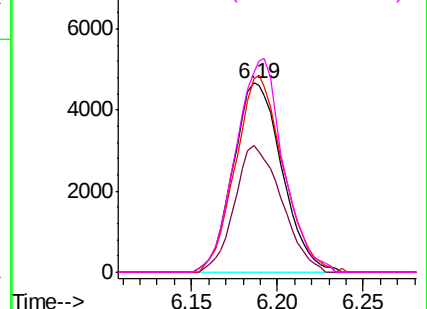
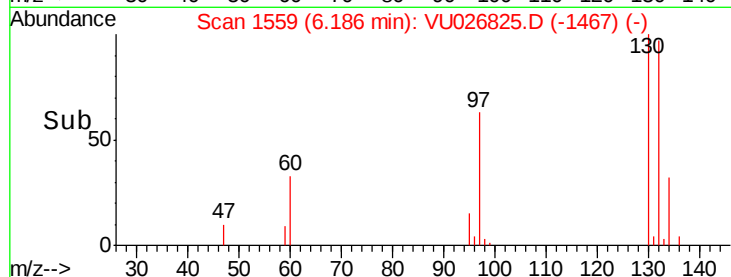


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.396 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

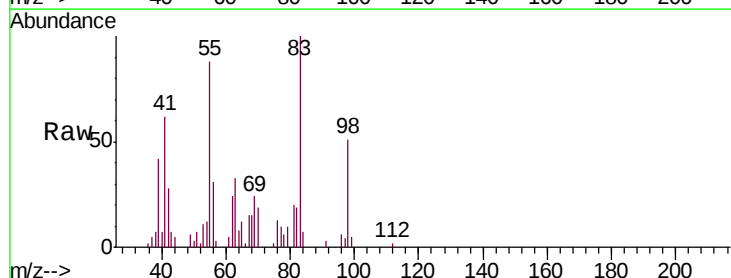
Tgt Ion: 83 Resp: 13179

Ion Ratio Lower Upper

83 100

55 85.1 61.7 92.5

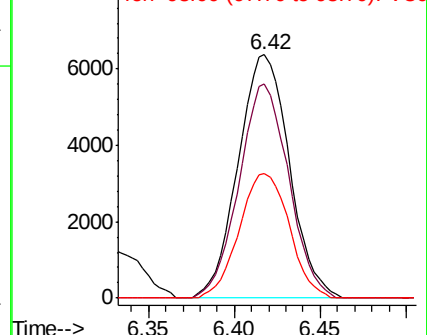
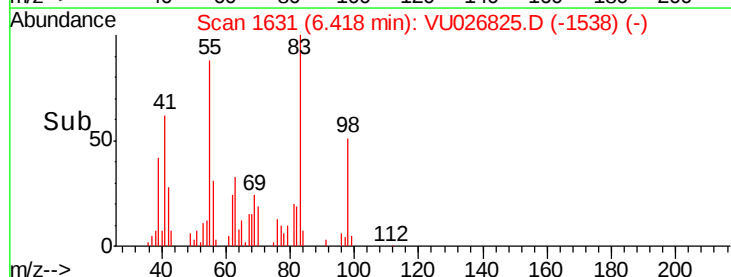
98 49.8 38.3 57.5

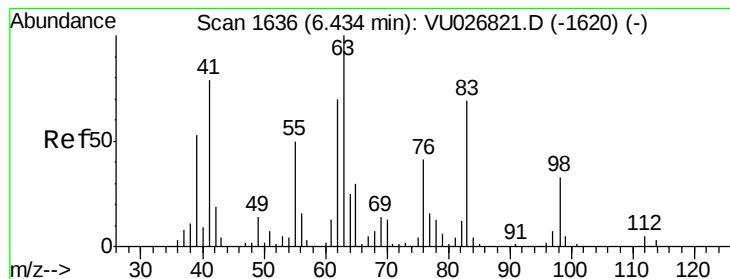


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 4.916 ug/L

RT: 6.44 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

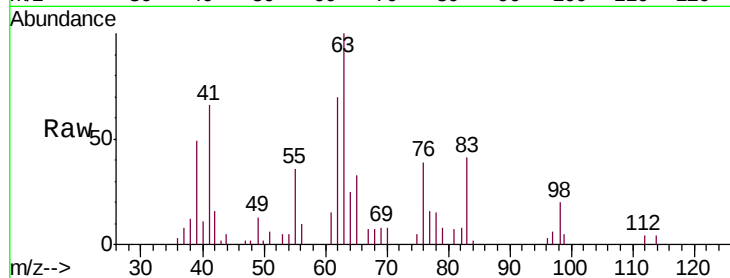
VSTD00549

Tgt Ion: 63 Resp: 10349

Ion Ratio Lower Upper

63 100

112 4.4 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VU026825.D (-1543) (-)

Ion 112.00 (111.70 to 112.70): VU026825.D (-1543) (-)

6.44

6.44

6.44

6.44

6.44

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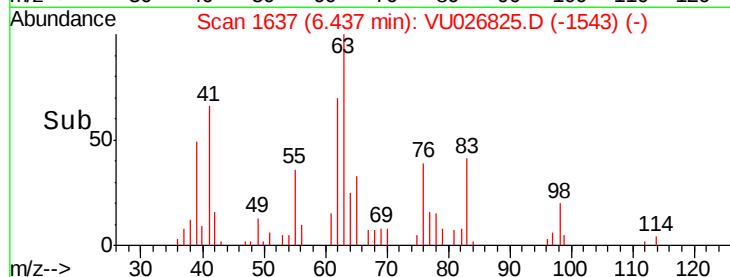
6.44

6.44

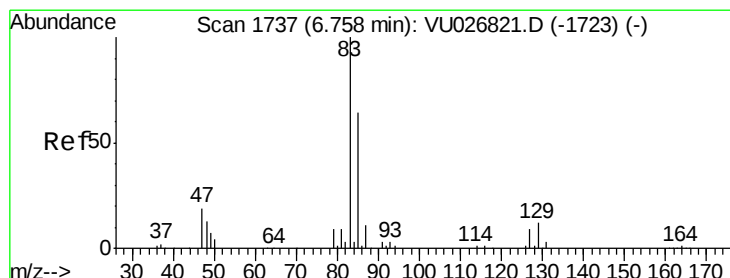
6.44

6.44

6.44



Time-->



#38

Bromodichloromethane

Concen: 4.934 ug/L

RT: 6.76 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

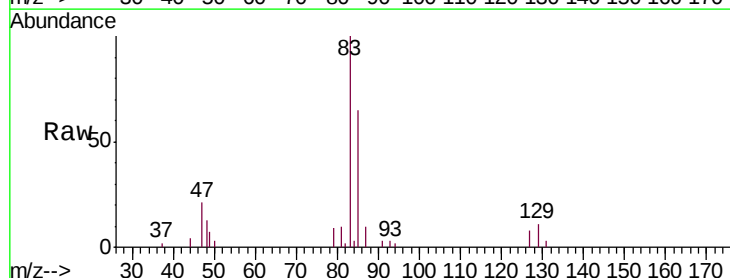
Tgt Ion: 83 Resp: 12881

Ion Ratio Lower Upper

83 100

85 64.6 44.5 82.7

127 7.5 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VU026825.D (-1644) (-)

Ion 85.00 (84.70 to 85.70): VU026825.D (-1644) (-)

Ion 127.00 (126.70 to 127.70): VU026825.D (-1644) (-)

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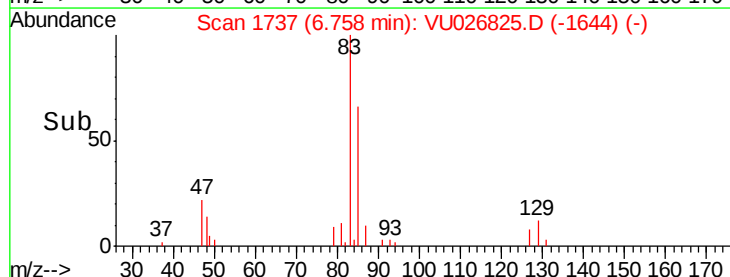
6.76

6.76

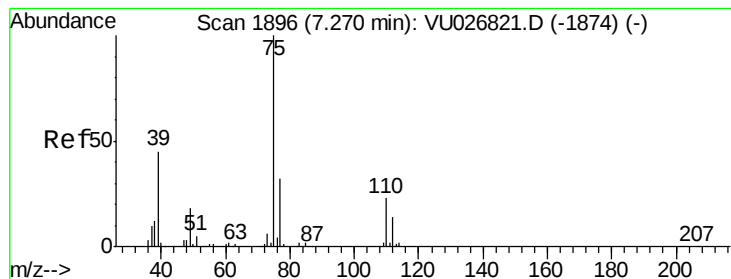
6.76

6.76

6.76



Time-->

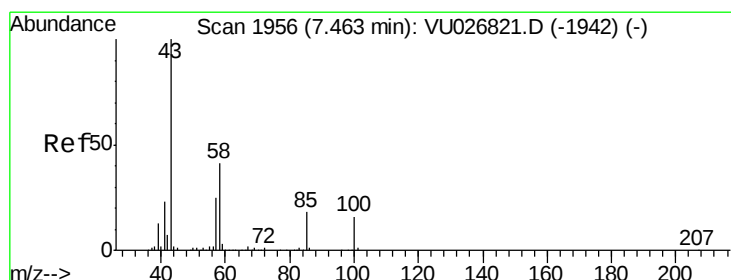
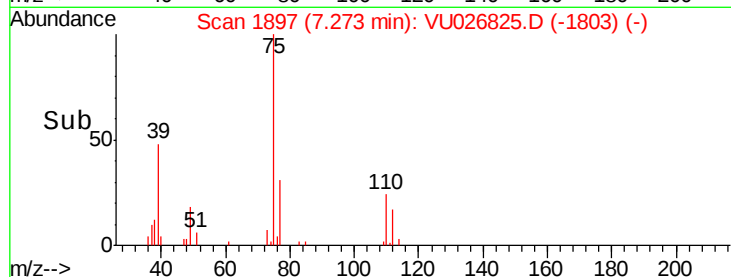
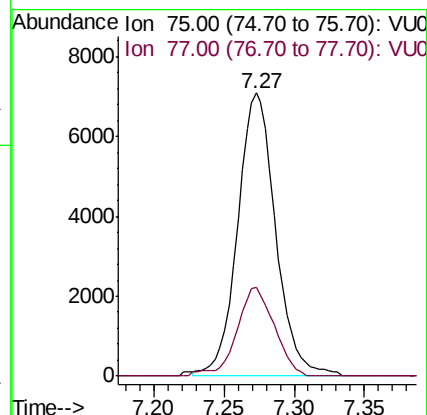
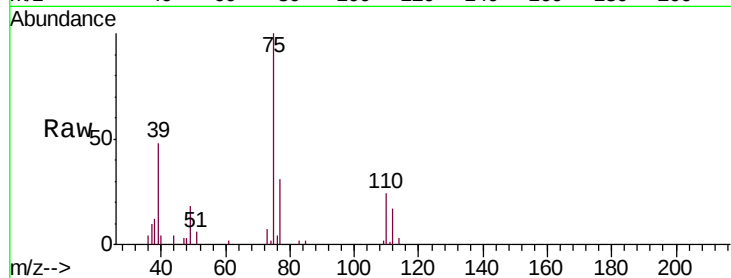


#39

cis-1,3-Dichloropropene
 Concen: 4.502 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00549

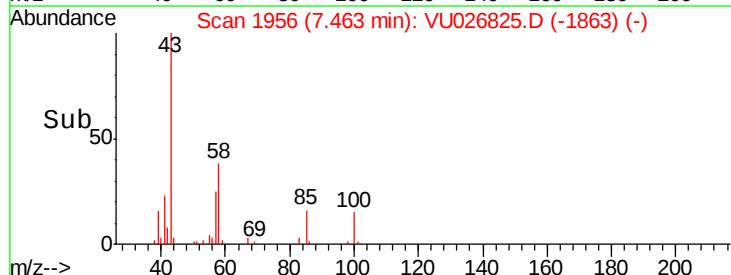
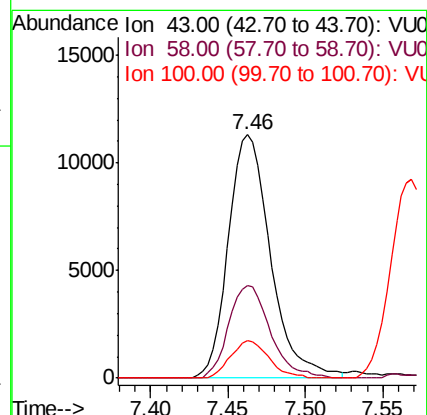
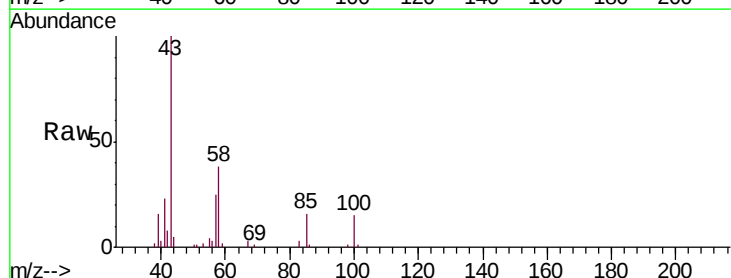
Tgt Ion: 75 Resp: 13390
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.1 41.1

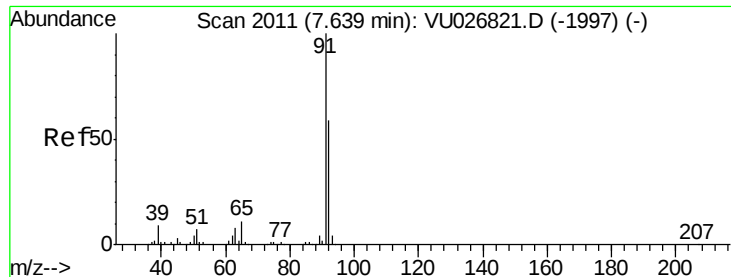


#40

4-Methyl-2-pentanone
 Concen: 8.586 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Tgt Ion: 43 Resp: 21478
 Ion Ratio Lower Upper
 43 100
 58 37.4 32.0 48.0
 100 13.8 12.6 19.0





#42

Toluene

Concen: 4.519 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

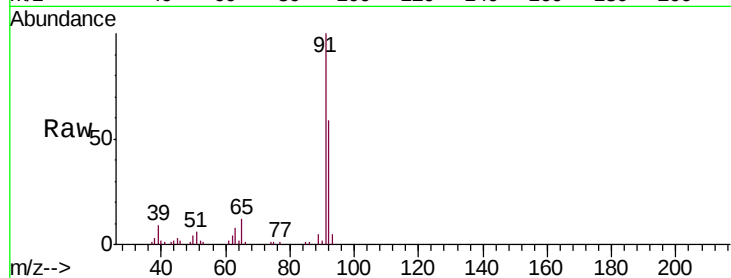
VSTD00549

Tgt Ion: 91 Resp: 35048

Ion Ratio Lower Upper

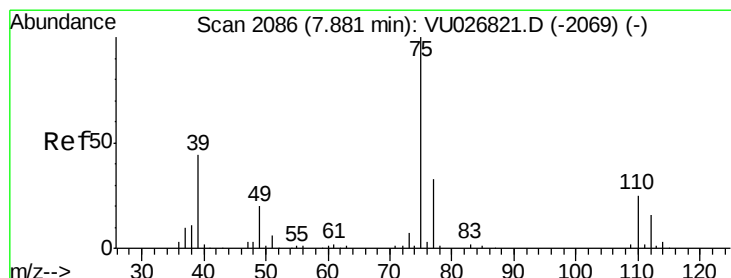
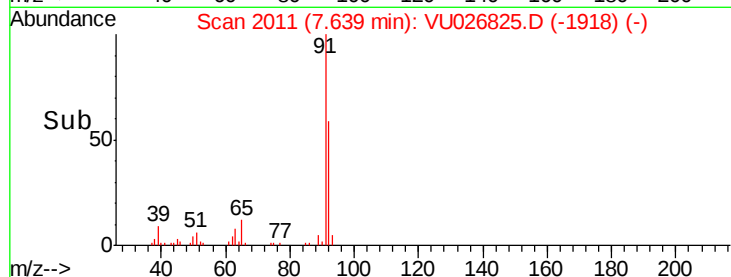
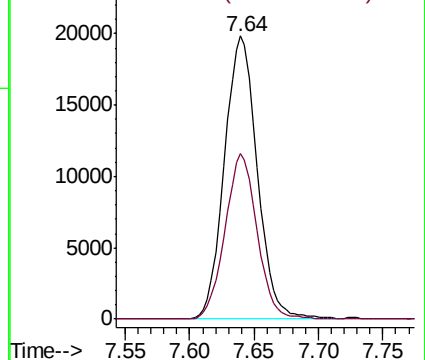
91 100

92 58.6 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.489 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU026825.D

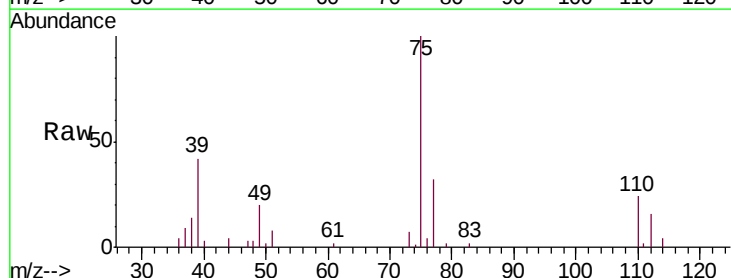
Acq: 17 Sep 2018 16:46

Tgt Ion: 75 Resp: 12500

Ion Ratio Lower Upper

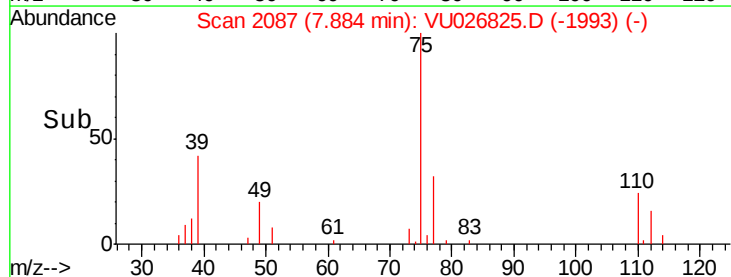
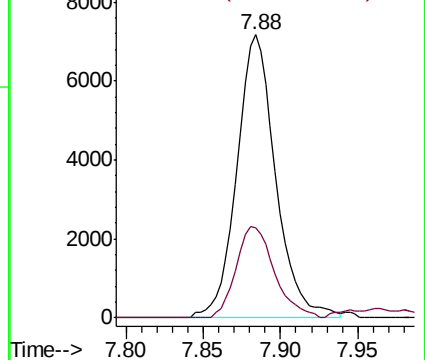
75 100

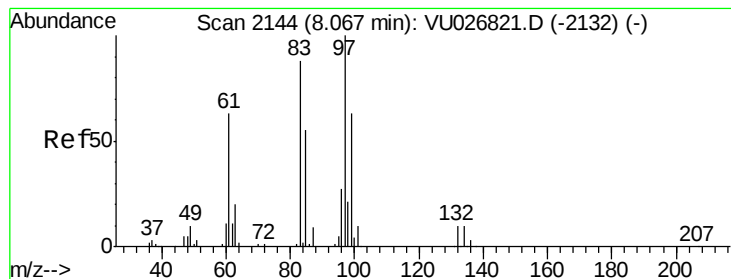
77 32.0 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 5.010 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

Tgt Ion: 97 Resp: 9616

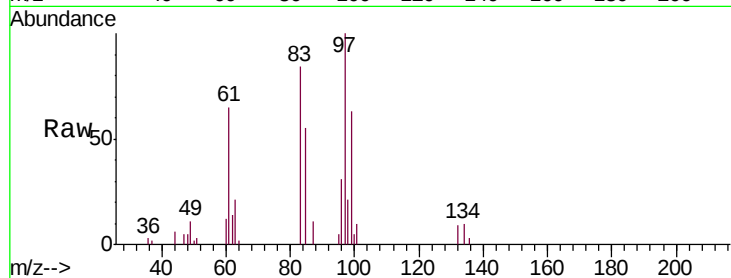
Ion Ratio Lower Upper

97 100

99 63.3 44.3 82.3

83 84.1 61.5 114.1

85 54.6 38.6 71.6



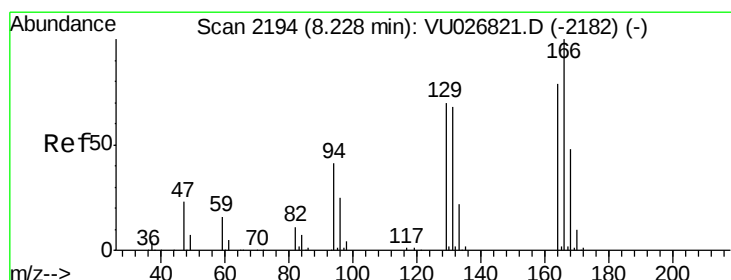
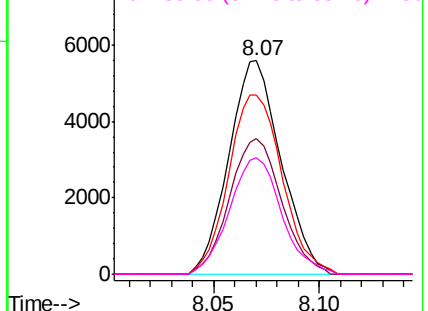
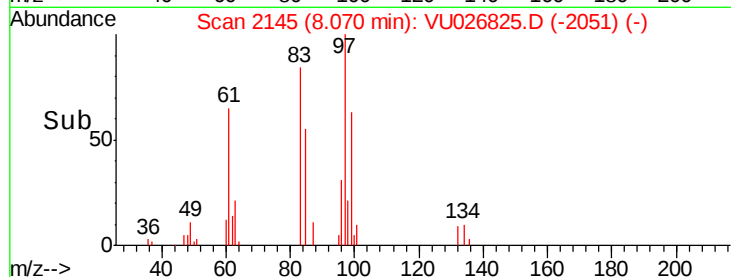
Abundance

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: 4.923 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Tgt Ion: 164 Resp: 8027

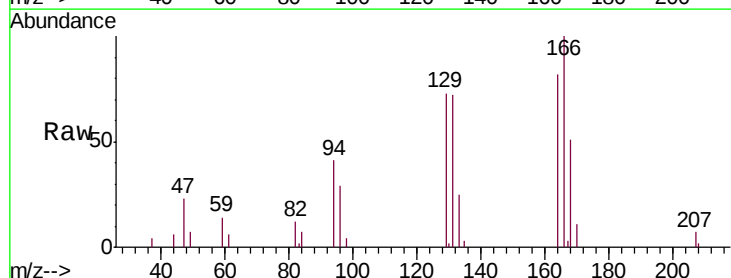
Ion Ratio Lower Upper

164 100

129 89.1 62.2 115.4

131 88.1 60.5 112.5

166 122.0 89.0 165.2



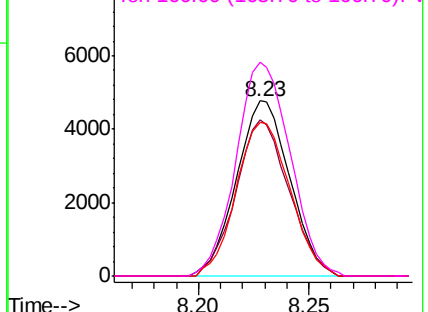
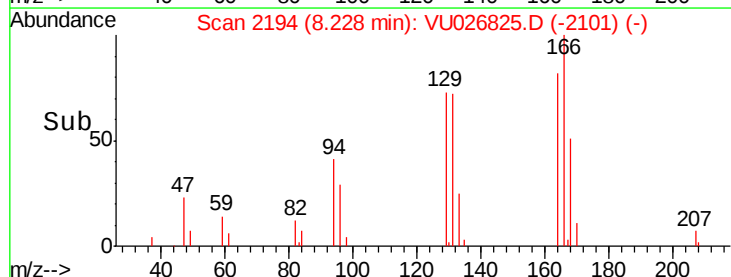
Abundance

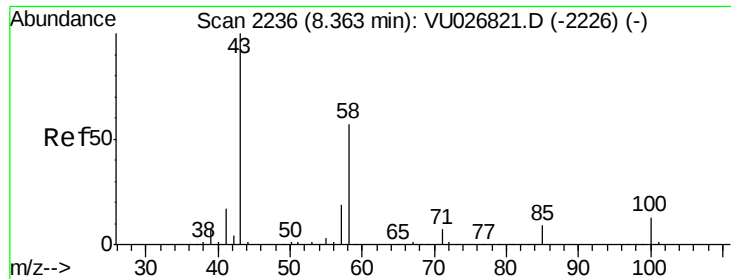
Ion 164.00 (163.70 to 164.70): V

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

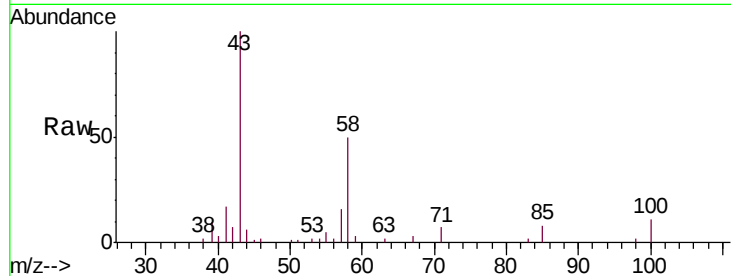




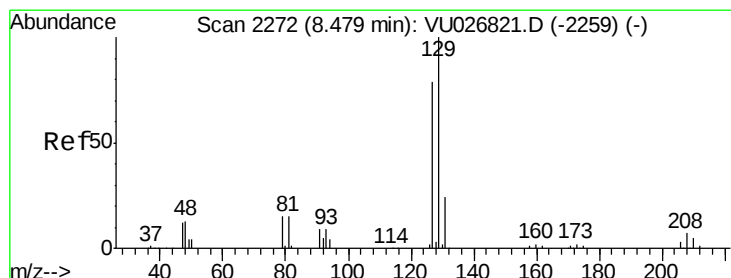
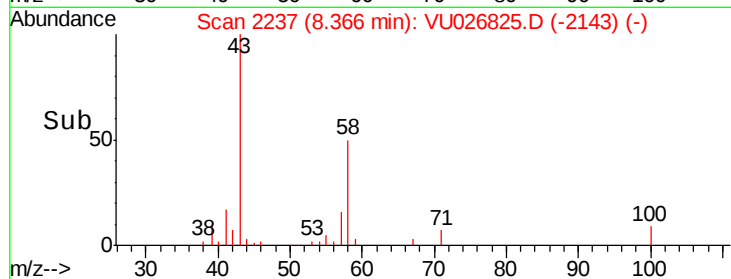
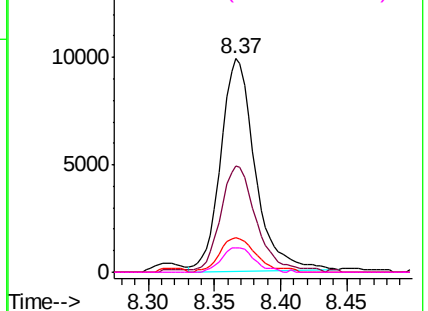
#48
2-Hexanone
Concen: 8.840 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

Instrument :
MSVOA_U
ClientSampleId :
VSTD00549

Tgt Ion: 43 Resp: 17838
Ion Ratio Lower Upper
43 100
58 49.4 44.9 67.3
57 16.8 15.4 23.2
100 11.1 10.2 15.4

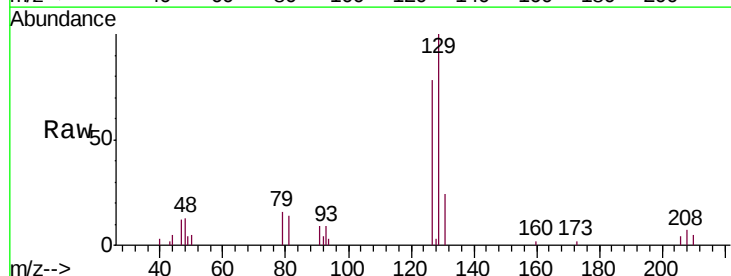


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

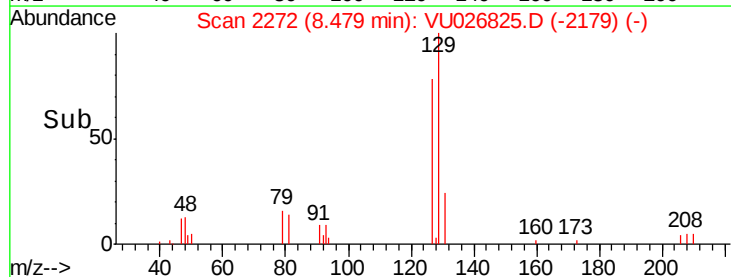
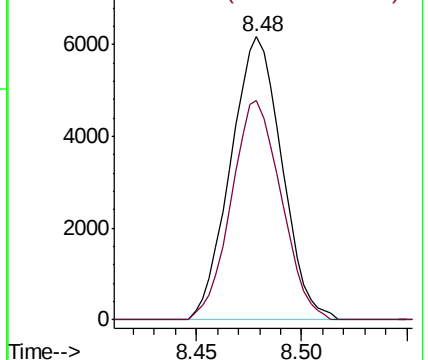


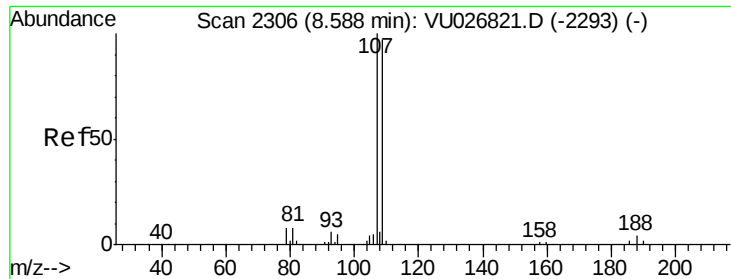
#49
Dibromochloromethane
Concen: 4.796 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

Tgt Ion: 129 Resp: 10420
Ion Ratio Lower Upper
129 100
127 77.7 55.2 102.4



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

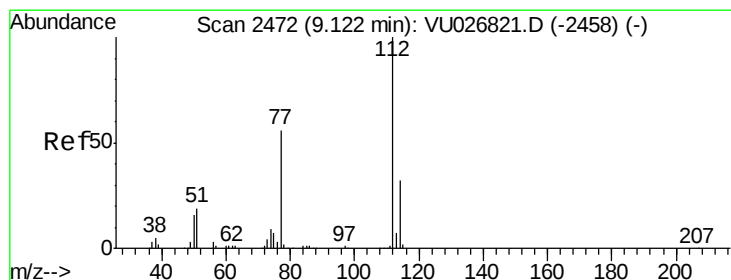
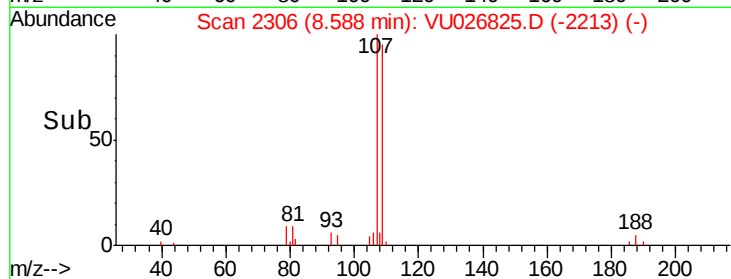
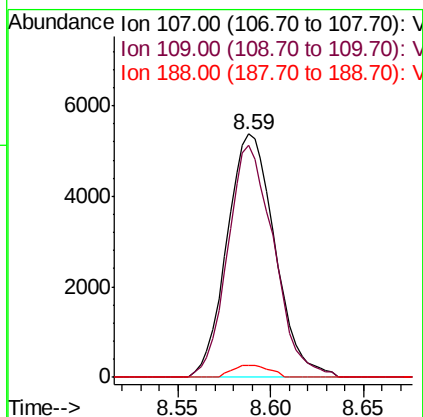
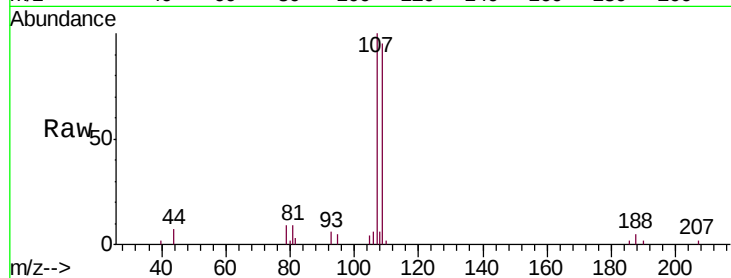




#50
 1,2-Dibromoethane
 Concen: 4.839 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

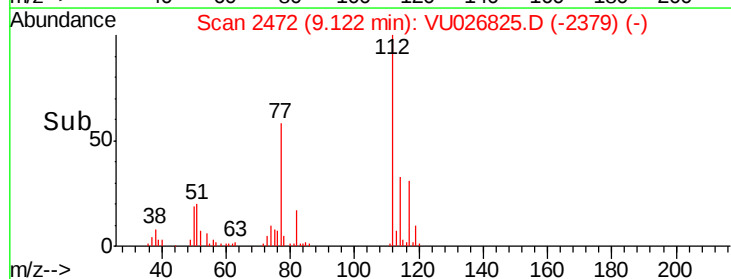
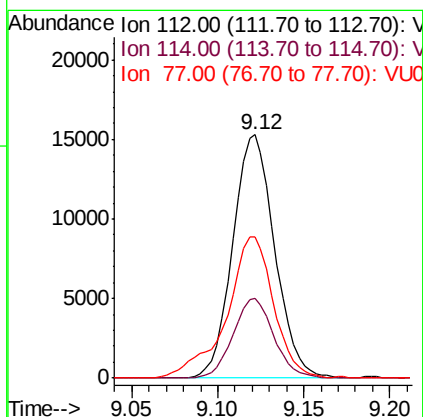
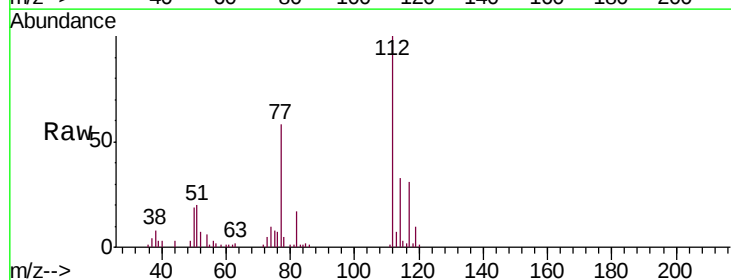
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00549

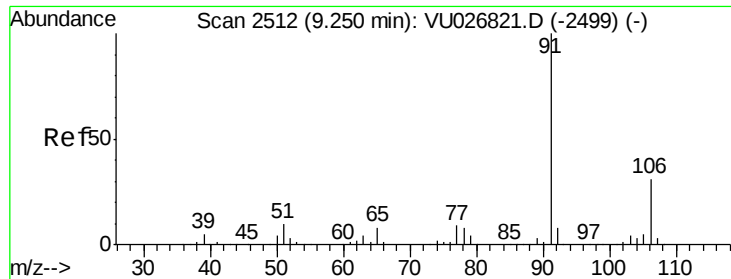
Tgt Ion:107 Resp: 9683
 Ion Ratio Lower Upper
 107 100
 109 95.3 67.8 125.8
 188 5.1 3.2 4.8#



#51
 Chlorobenzene
 Concen: 4.940 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. -0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Tgt Ion:112 Resp: 25998
 Ion Ratio Lower Upper
 112 100
 114 32.9 22.3 41.5
 77 57.8 45.1 67.7





#52

Ethylbenzene

Concen: 4.263 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

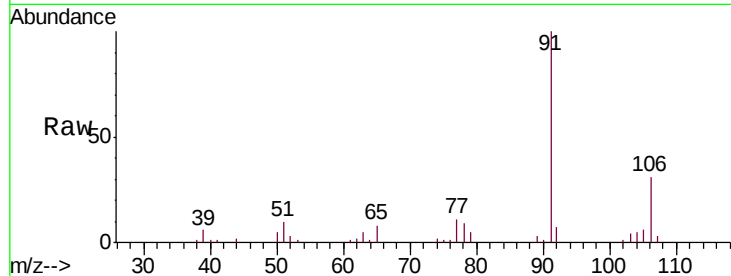
VSTD00549

Tgt Ion: 91 Resp: 34634

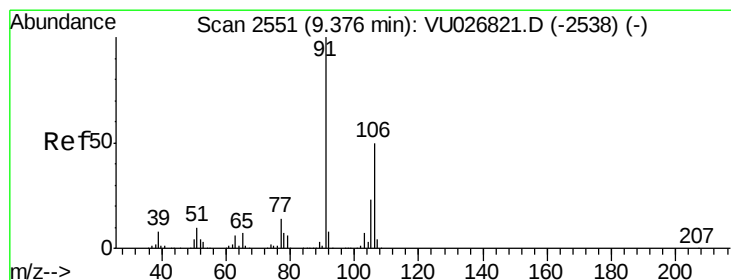
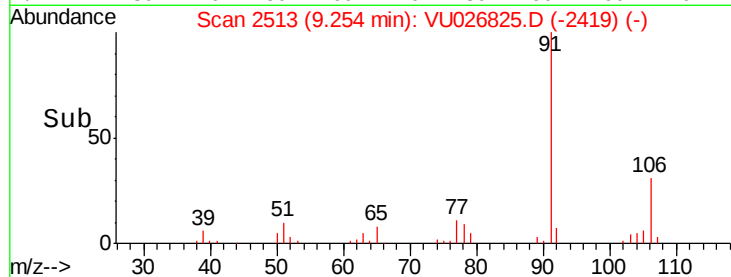
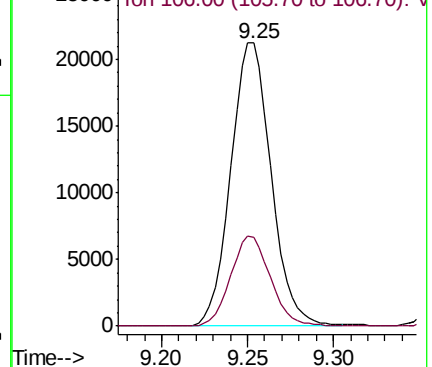
Ion Ratio Lower Upper

91 100

106 31.2 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU026821.D (-2499) (-)



#53

m,p-Xylene

Concen: 4.107 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU026825.D

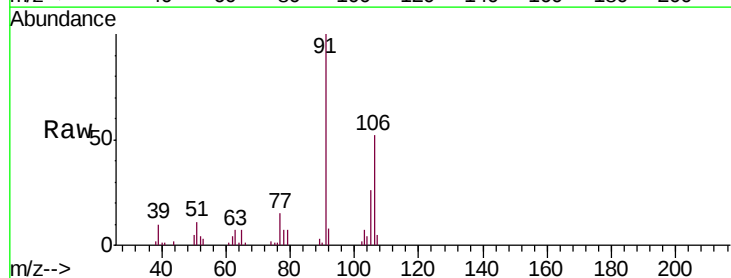
Acq: 17 Sep 2018 16:46

Tgt Ion: 106 Resp: 12826

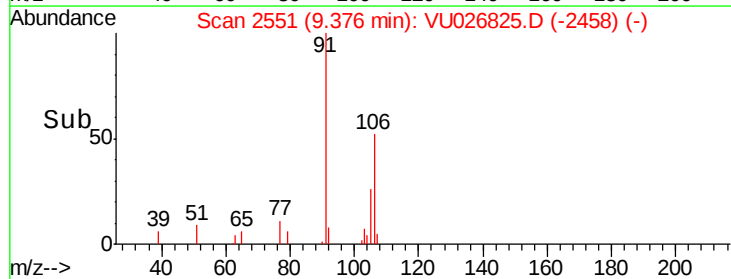
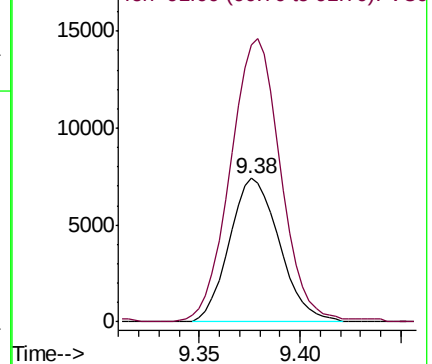
Ion Ratio Lower Upper

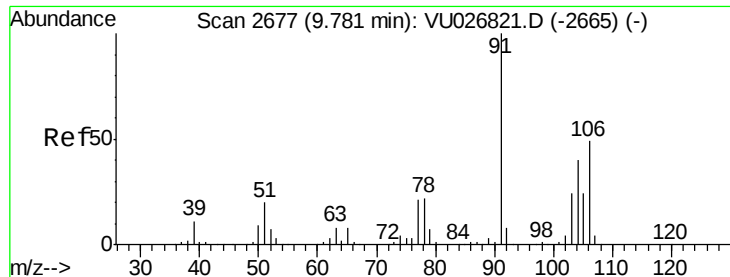
106 100

91 193.1 139.2 258.6



Abundance Ion 106.00 (105.70 to 106.70): VU026821.D (-2538) (-)

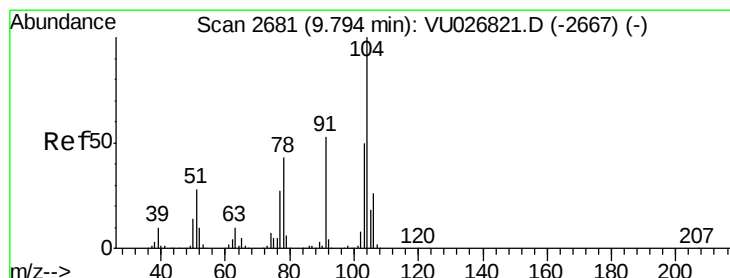
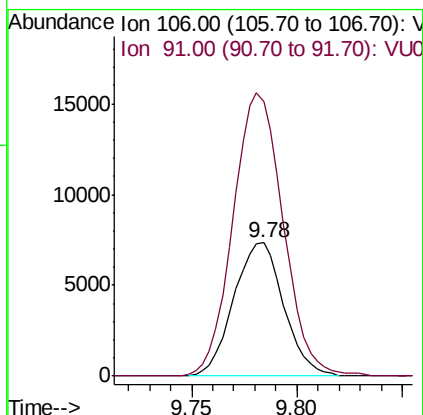
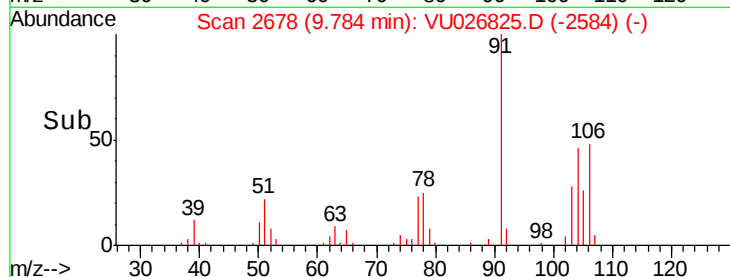
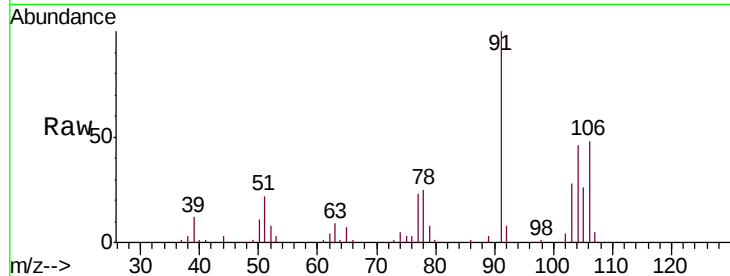




#54
o-xylene
Concen: 3.978 ug/L
RT: 9.78 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

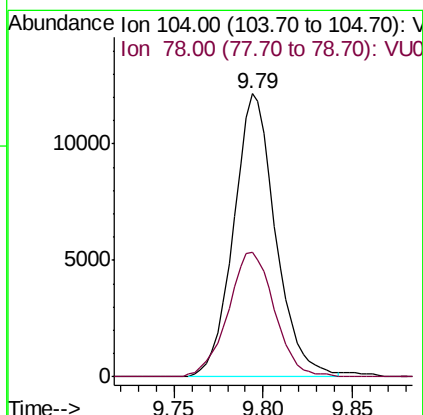
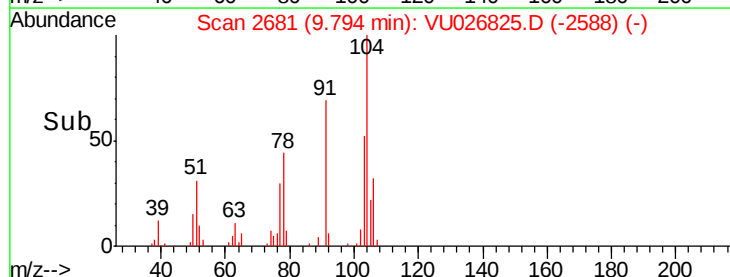
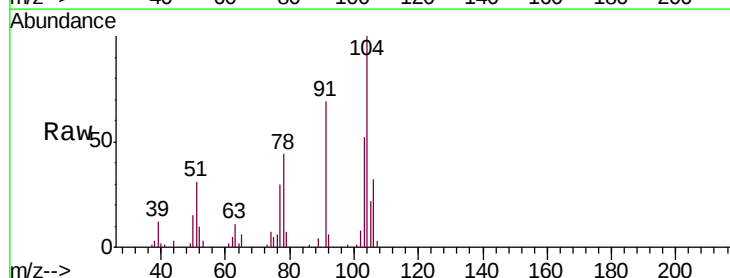
Instrument :
MSVOA_U
ClientSampleId :
VSTD00549

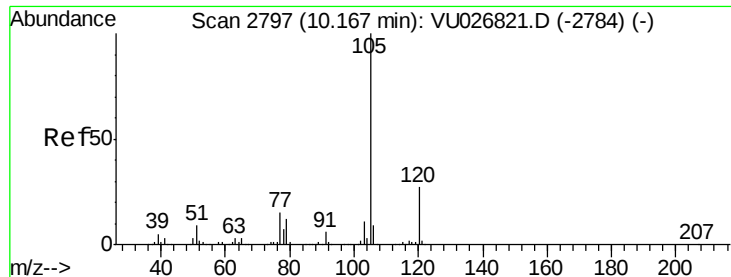
Tgt Ion:106 Resp: 12104
Ion Ratio Lower Upper
106 100
91 206.3 143.1 265.9



#55
Styrene
Concen: 3.801 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU026825.D
Acq: 17 Sep 2018 16:46

Tgt Ion:104 Resp: 19971
Ion Ratio Lower Upper
104 100
78 43.9 30.5 56.7





#56

Isopropylbenzene

Concen: 3.931 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

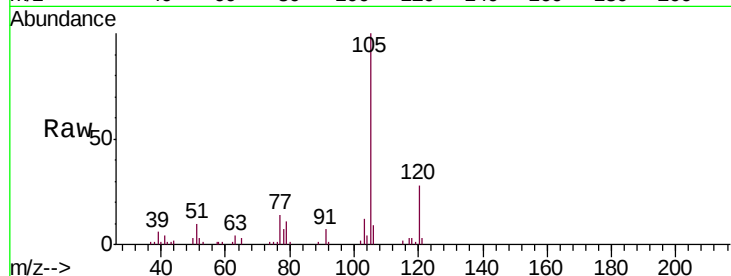
Tgt Ion: 105 Resp: 30560

Ion Ratio Lower Upper

105 100

120 28.1 21.4 32.2

77 15.3 12.2 18.4

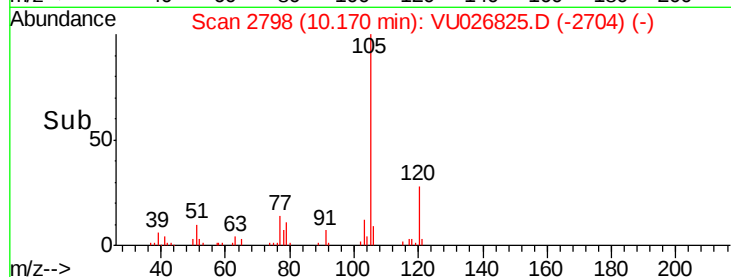


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

Time--> 10.10 10.15 10.20



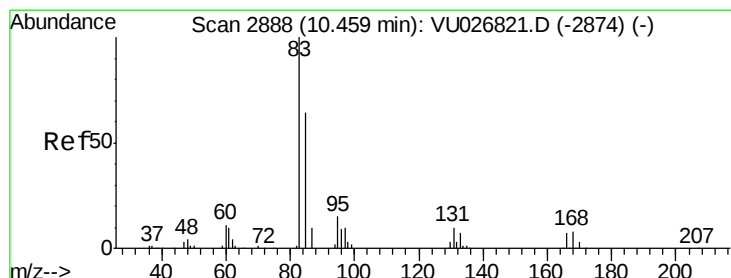
Abundance

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

Time--> 10.10 10.15 10.20



#58

1,1,2,2-Tetrachloroethane

Concen: 4.864 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

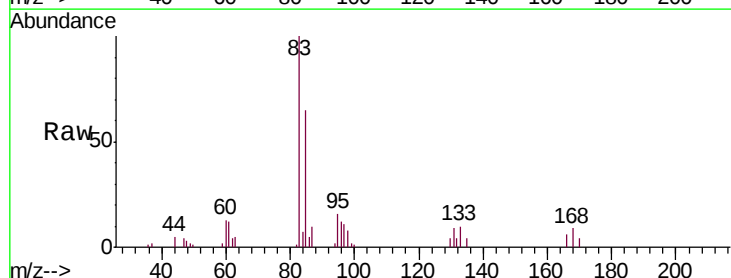
Tgt Ion: 83 Resp: 15704

Ion Ratio Lower Upper

83 100

85 65.4 45.4 84.2

131 9.3 7.9 11.9

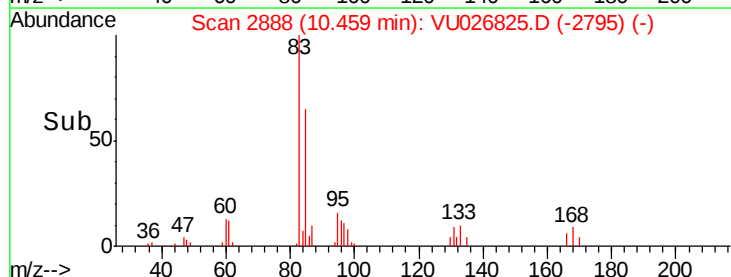


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

Time--> 10.40 10.45 10.50



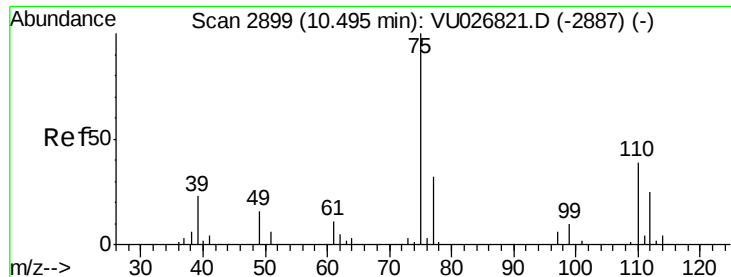
Abundance

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

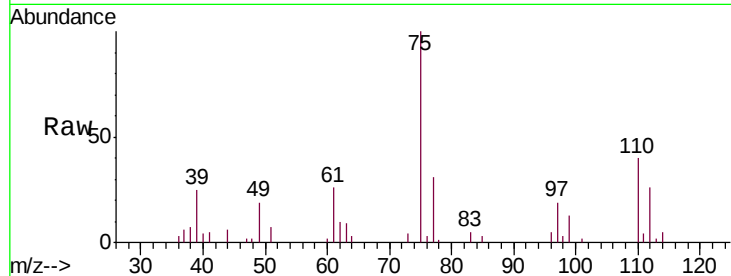
Time--> 10.40 10.45 10.50



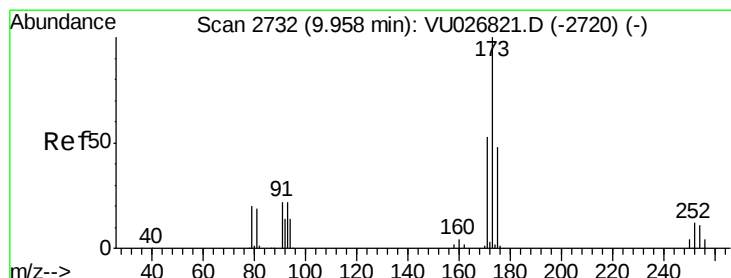
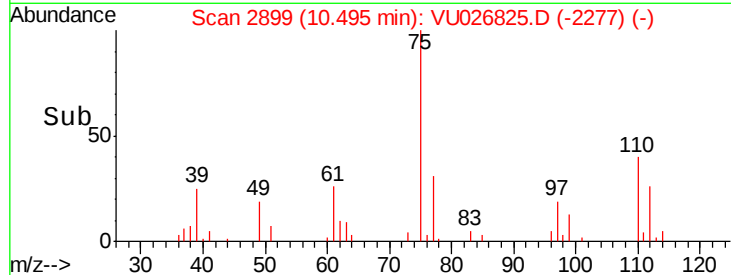
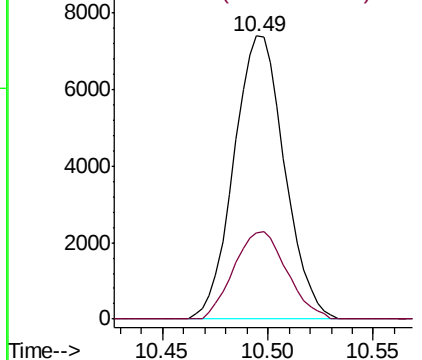
#59
 1,2,3-Trichloropropane
 Concen: 4.902 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00549

Tgt Ion: 75 Resp: 12362
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.5 38.3

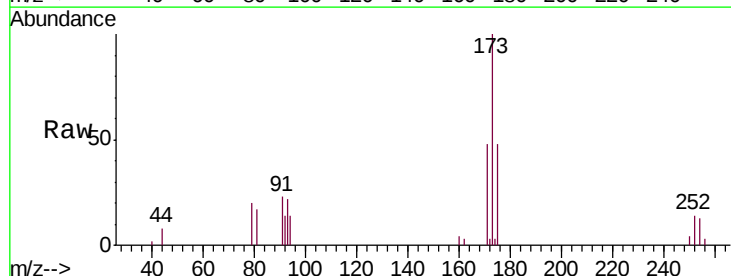


Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0

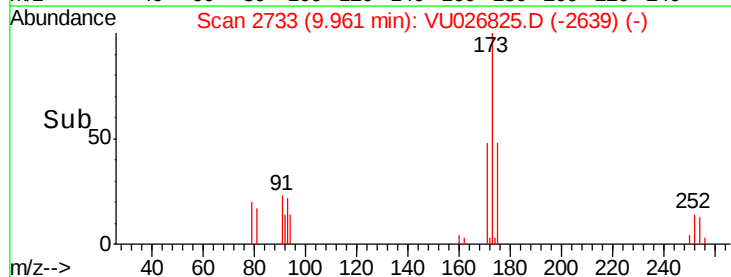
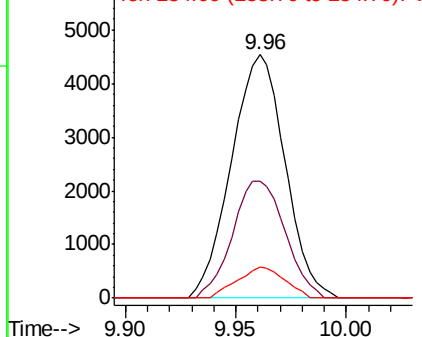


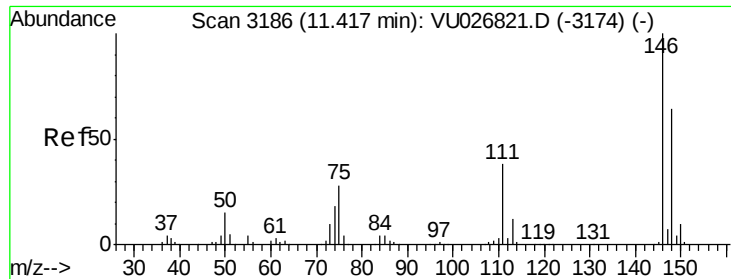
#61
 Bromoform
 Concen: 5.309 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Tgt Ion: 173 Resp: 7669
 Ion Ratio Lower Upper
 173 100
 175 47.0 38.6 57.8
 254 11.2 9.4 14.2



Abundance Ion 173.00 (172.70 to 173.70): V
 Ion 175.00 (174.70 to 175.70): V
 Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 4.958 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

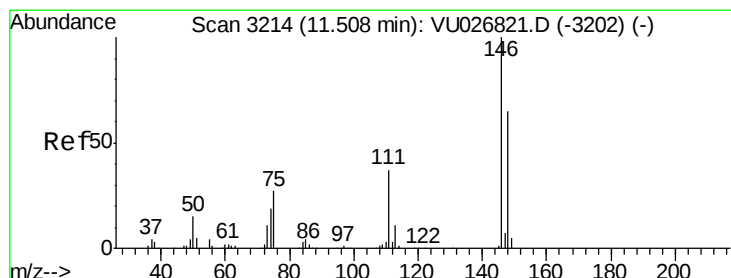
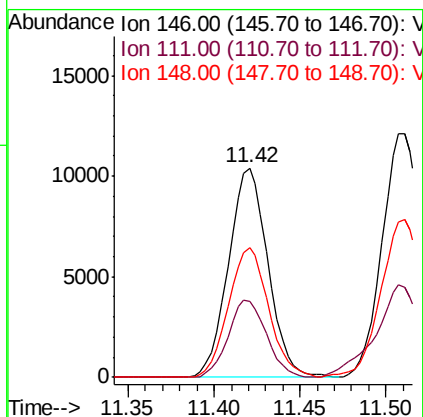
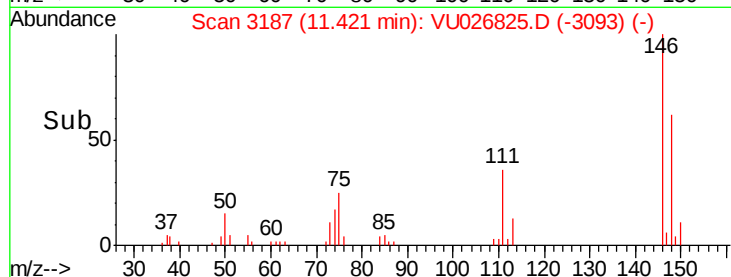
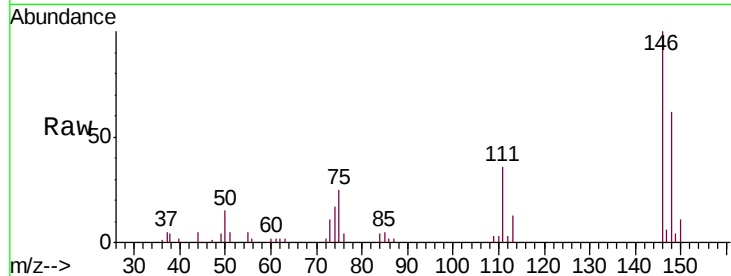
Tgt Ion:146 Resp: 16603

Ion Ratio Lower Upper

146 100

111 36.0 26.7 49.7

148 62.1 44.9 83.5



#63

1,4-Dichlorobenzene

Concen: 5.346 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

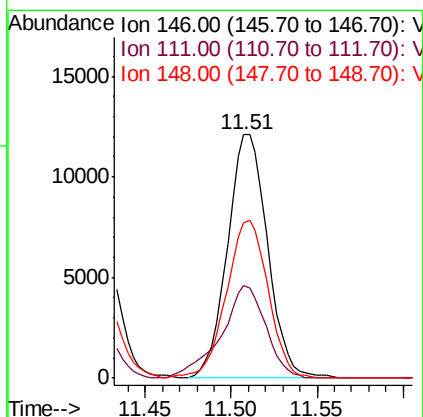
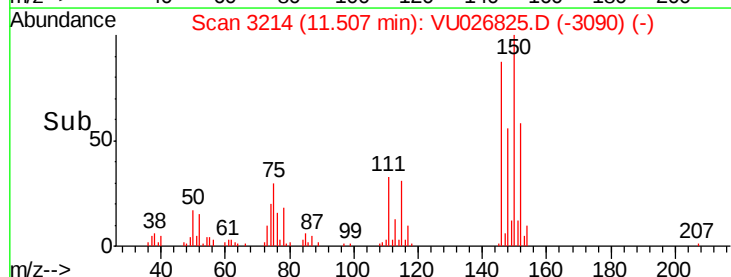
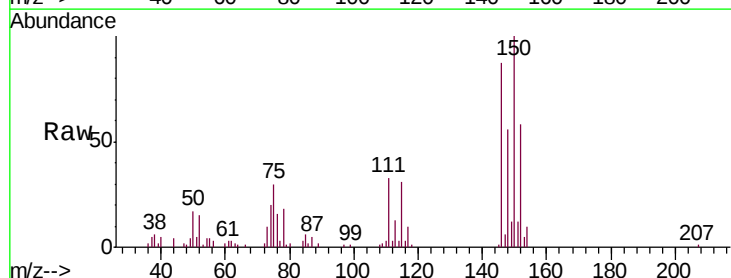
Tgt Ion:146 Resp: 19714

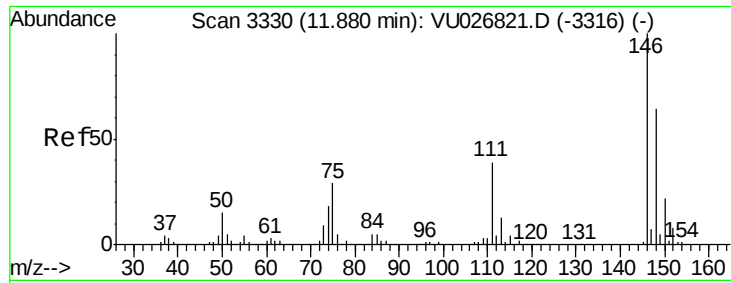
Ion Ratio Lower Upper

146 100

111 38.0 26.0 48.2

148 63.9 45.8 85.2





#65

1,2-Dichlorobenzene

Concen: 5.036 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

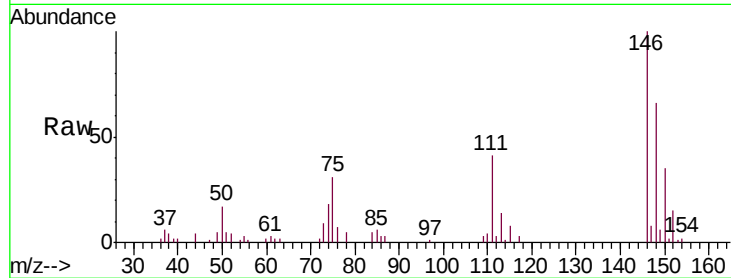
Tgt Ion: 146 Resp: 18675

Ion Ratio Lower Upper

146 100

111 40.8 31.4 47.0

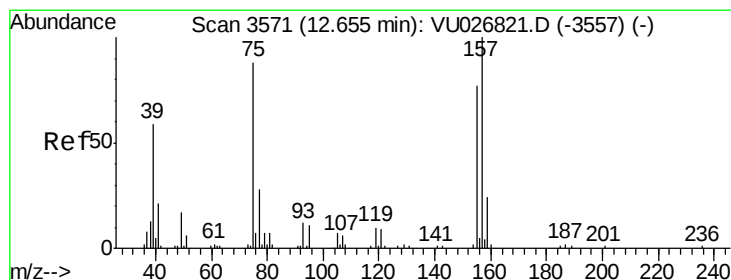
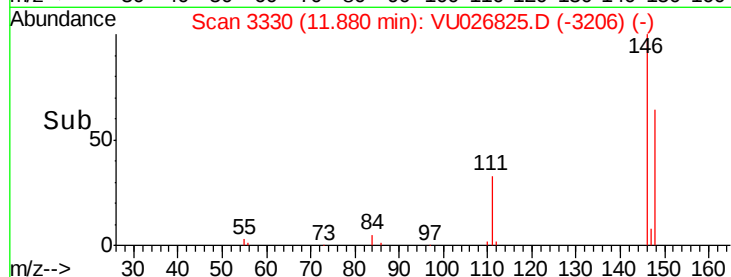
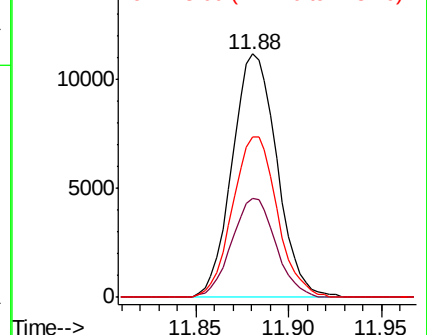
148 65.9 51.4 77.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.189 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

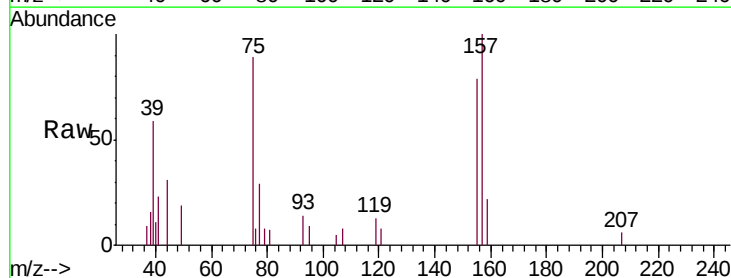
Tgt Ion: 75 Resp: 2919

Ion Ratio Lower Upper

75 100

155 88.1 69.5 104.3

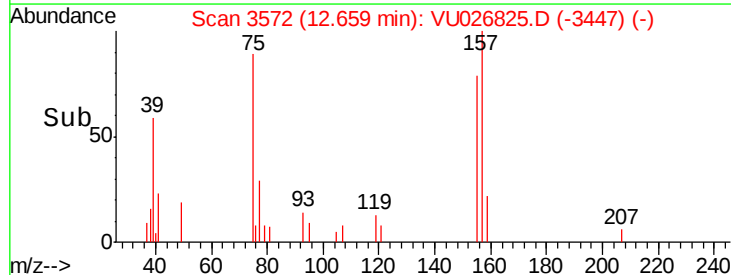
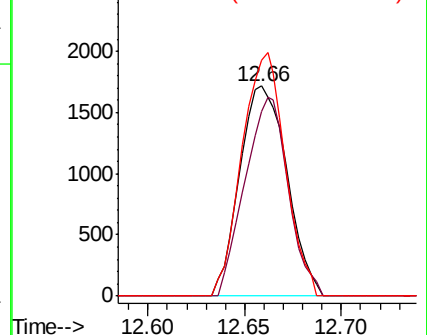
157 112.2 90.5 135.7

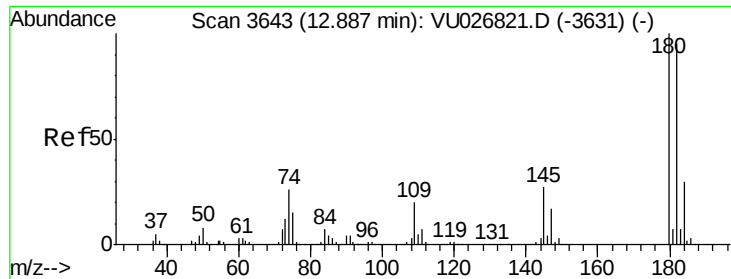


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

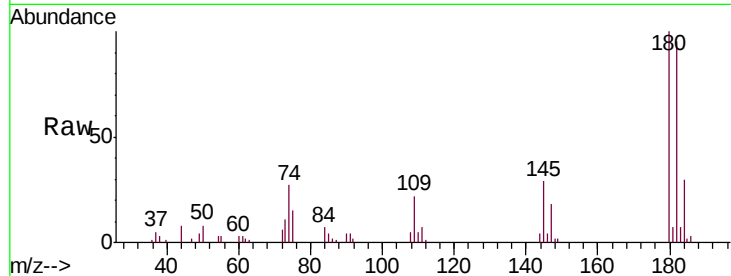




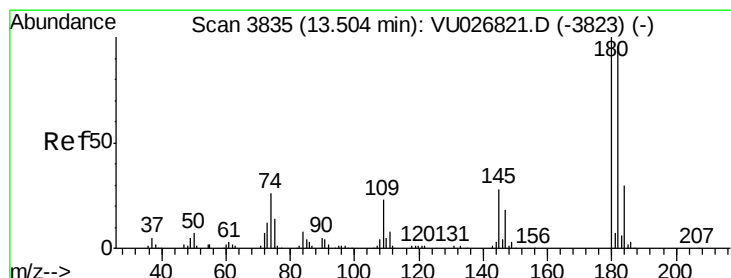
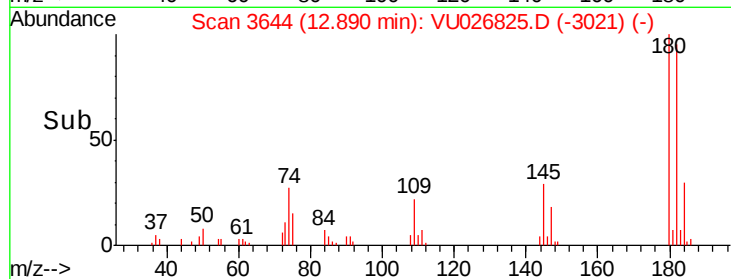
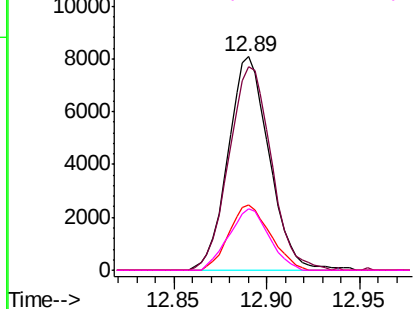
#67
 1,3,5-Trichlorobenzene
 Concen: 4.794 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00549

Tgt Ion:180 Resp: 12423
 Ion Ratio Lower Upper
 180 100
 182 98.1 76.7 115.1
 184 30.7 24.2 36.4
 145 28.1 21.8 32.6

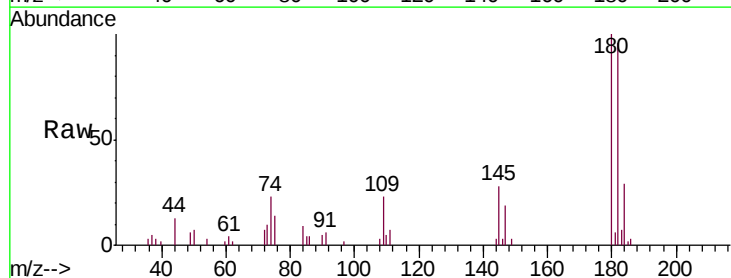


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

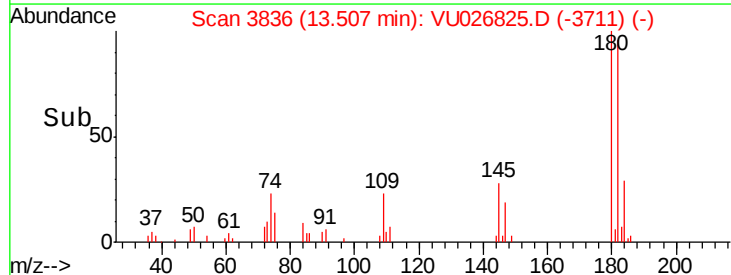
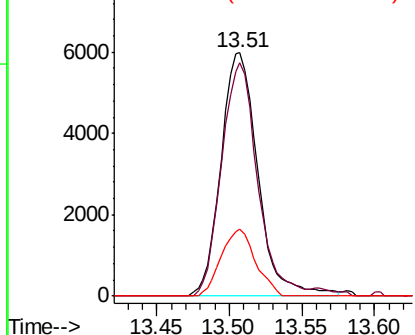


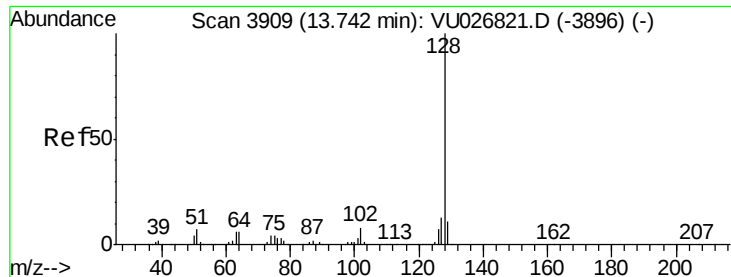
#68
 1,2,4-trichlorobenzene
 Concen: 4.732 ug/L
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU026825.D
 Acq: 17 Sep 2018 16:46

Tgt Ion:180 Resp: 10566
 Ion Ratio Lower Upper
 180 100
 182 93.1 76.8 115.2
 145 25.6 22.2 33.2



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





#69

Naphthalene

Concen: 3.840 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00549

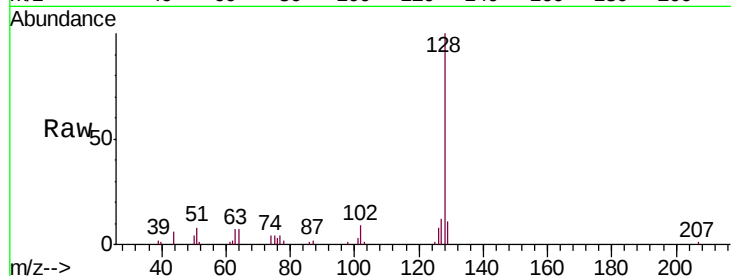
Tgt Ion:128 Resp: 25264

Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.4

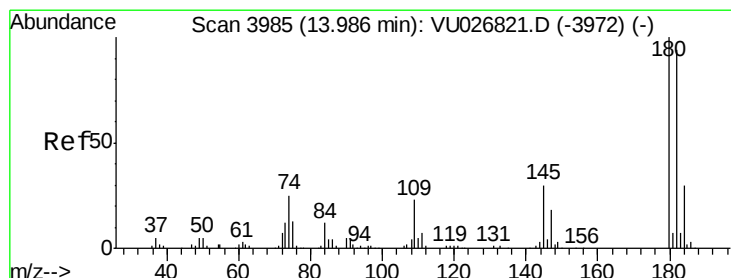
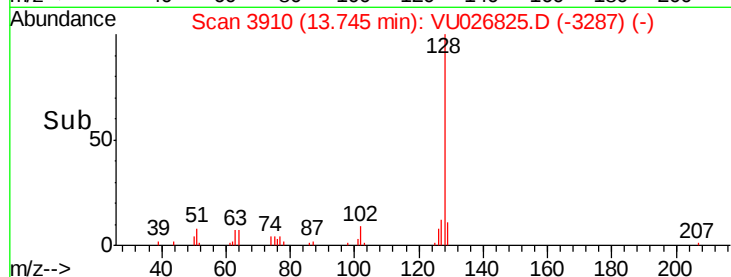
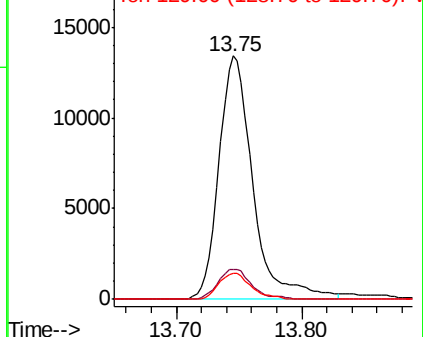
129 10.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.596 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU026825.D

Acq: 17 Sep 2018 16:46

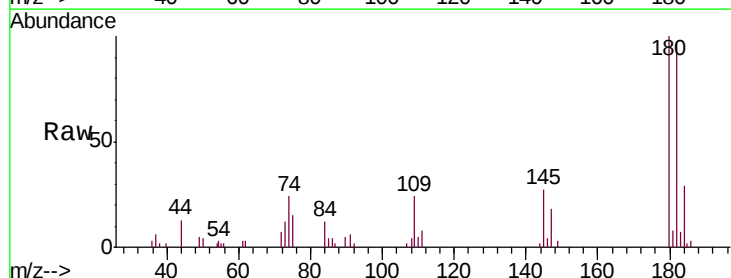
Tgt Ion:180 Resp: 11302

Ion Ratio Lower Upper

180 100

182 97.3 75.6 113.4

145 27.0 23.8 35.6



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

