

Data File : VU032461.D
Acq On : 05 Jun 2019 15:06
Operator : JC/SP
Sample : VSTD20058
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Quant Time: Jun 06 02:07:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Jun 06 02:03:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	210038	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	202039	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	113612	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	279816	185.45	ug/L	0.00
7) Chloroethane-d5	1.65	69	225041	183.97	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.26	63	557240	203.15	ug/L	0.00
21) 2-Butanone-d5	4.16	46	502466	479.62	ug/L	0.00
24) Chloroform-d	4.64	84	531623	198.38	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	332186	208.04	ug/L	0.00
32) Benzene-d6	5.33	84	1063360	200.98	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	336419	204.19	ug/L	0.00
41) Toluene-d8	7.56	98	1013704	204.80	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	176916	231.26	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	377367	524.90	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	515912	205.14	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	435937	190.23	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	383583	228.672	ug/L	99
3) Chloromethane	1.32	50	368581	210.041	ug/L	100
5) Vinyl chloride	1.40	62	372650	210.816	ug/L	100
6) Bromomethane	1.60	94	210652	187.723	ug/L	100
8) Chloroethane	1.68	64	212548	198.827	ug/L	98
9) Trichlorofluoromethane	1.87	101	502928	223.639	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	261078	197.890	ug/L	99
12) 1,1-Dichloroethene	2.27	96	257727	193.210	ug/L	92
13) Acetone	2.32	43	440047	436.774	ug/L	100
14) Carbon disulfide	2.46	76	784308	195.161	ug/L	99
15) Methyl Acetate	2.61	43	347076	220.168	ug/L	98
16) Methylene chloride	2.69	84	289494	186.062	ug/L	100
17) trans-1,2-Dichloroethene	2.97	96	277292	199.701	ug/L	98
18) Methyl tert-butyl Ether	2.99	73	907936	213.093	ug/L	100
19) 1,1-Dichloroethane	3.43	63	509935	201.546	ug/L	99
20) cis-1,2-Dichloroethene	4.21	96	315014	202.115	ug/L	97
22) 2-Butanone	4.25	43	591997	491.059	ug/L	99
23) Bromochloromethane	4.54	128	164138	199.399	ug/L	97
25) Chloroform	4.66	83	524132	199.987	ug/L	98
27) 1,2-Dichloroethane	5.40	62	418899	212.836	ug/L	100
29) Cyclohexane	4.99	56	480554	227.440	ug/L	100
30) 1,1,1-Trichloroethane	4.90	97	465762	215.193	ug/L	98
31) Carbon tetrachloride	5.13	117	431781	230.751	ug/L	100
33) Benzene	5.38	78	1145018	202.106	ug/L	100
34) Trichloroethene	6.18	95	305612	207.994	ug/L	98
35) Methylcyclohexane	6.41	83	496235	219.929	ug/L	99
37) 1,2-Dichloropropane	6.42	63	308364	208.176	ug/L	100
38) Bromodichloromethane	6.75	83	408752	213.885	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	519352	234.326	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	1039961	512.429	ug/L	100

Data File : VU032461.D
Acq On : 05 Jun 2019 15:06
Operator : JC/SP
Sample : VSTD20058
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Quant Time: Jun 06 02:07:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Jun 06 02:03:12 2019
Response via : Initial Calibration

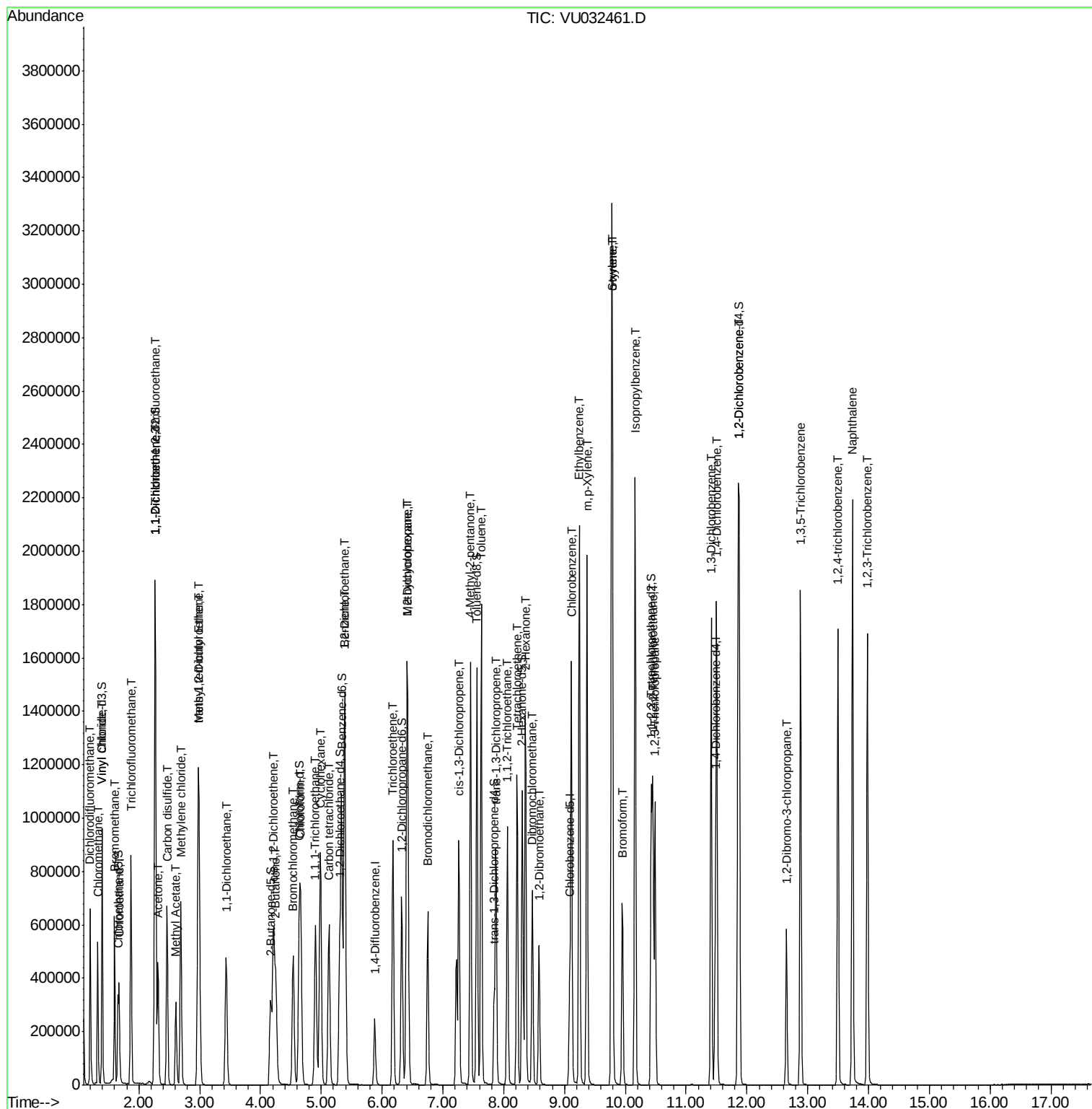
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1258400	204.312	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	468091	239.625	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	290104	200.346	ug/L	99
46) Tetrachloroethene	8.22	164	253568	210.756	ug/L	99
48) 2-Hexanone	8.36	43	857087	516.408	ug/L	98
49) Dibromochloromethane	8.47	129	360784	226.879	ug/L	99
50) 1,2-Dibromoethane	8.58	107	333121	216.298	ug/L	98
51) Chlorobenzene	9.11	112	819175	206.055	ug/L	100
52) Ethylbenzene	9.24	91	1431054	216.604	ug/L	100
53) m,p-Xylene	9.37	106	542542	214.697	ug/L	98
54) o-xylene	9.77	106	537009	211.641	ug/L	98
55) Styrene	9.79	104	936217	220.506	ug/L	97
56) Isopropylbenzene	10.16	105	1428750	220.240	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	524535	209.886	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	412015	208.810	ug/L	100
61) Bromoform	9.95	173	295666	204.722	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	688206	197.854	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	696020	196.118	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	694106	191.306	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	136452	225.667	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	570484	220.095	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	525947	256.516	ug/L	100
69) Naphthalene	13.74	128	1706728	276.519	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	514815	236.169	ug/L	99

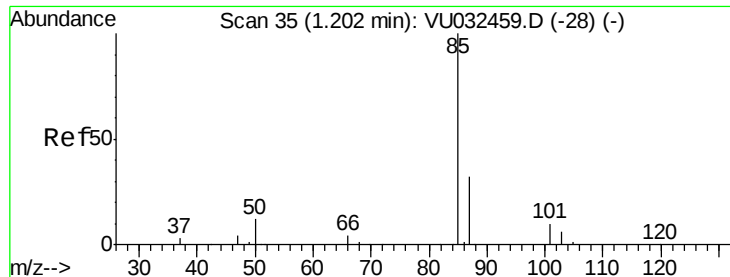
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032461.D
Acq On : 05 Jun 2019 15:06
Operator : JC/SP
Sample : VSTD20058
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Quant Time: Jun 06 02:07:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Jun 06 02:03:12 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 228.672 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

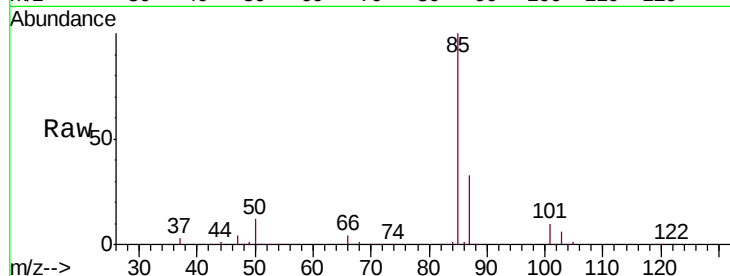
VSTD20058

Tgt Ion: 85 Resp: 383583

Ion Ratio Lower Upper

85 100

87 33.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU032459.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032459.D (-28) (-)

1.20

400000

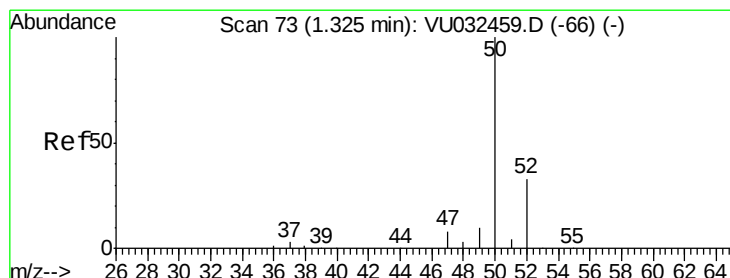
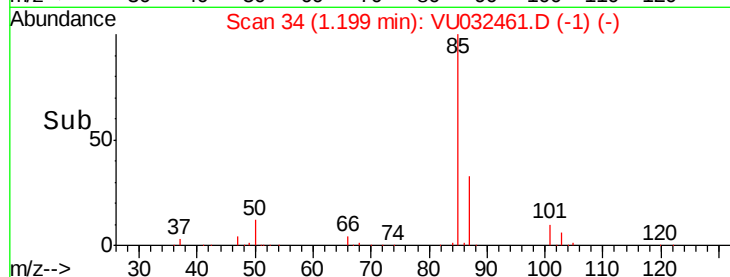
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 210.041 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU032461.D

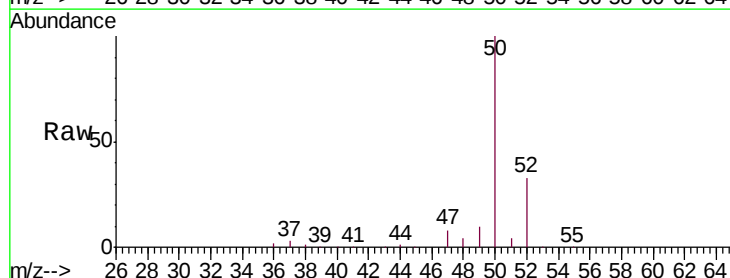
Acq: 05 Jun 2019 15:06

Tgt Ion: 50 Resp: 368581

Ion Ratio Lower Upper

50 100

52 32.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032459.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032459.D (-66) (-)

1.32

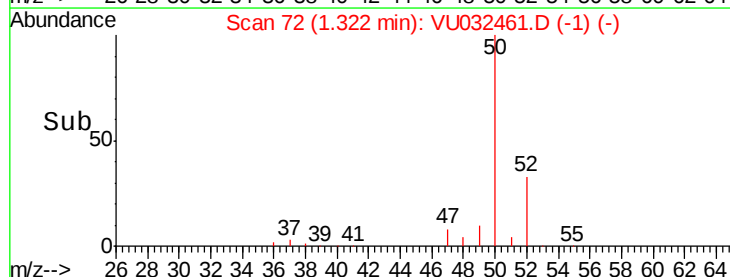
300000

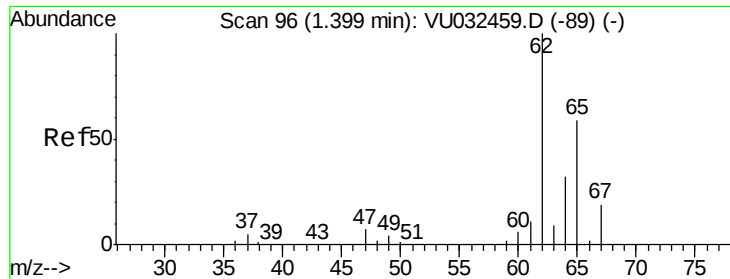
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 210.816 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

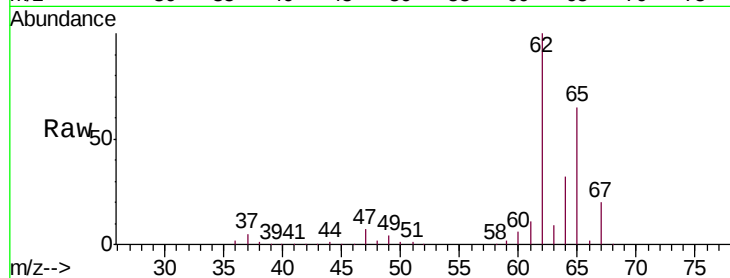
VSTD20058

Tgt Ion: 62 Resp: 372650

Ion Ratio Lower Upper

62 100

64 32.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU032459.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032461.D (-3) (-)

1.40

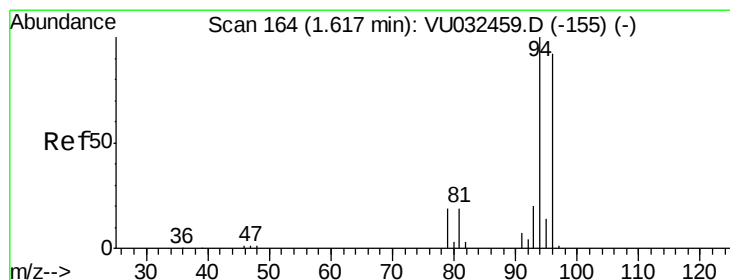
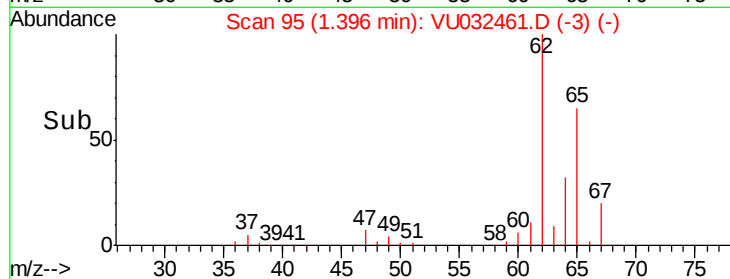
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 187.723 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.02 min

Lab File: VU032461.D

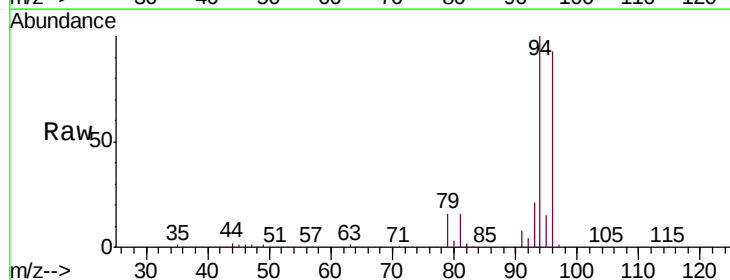
Acq: 05 Jun 2019 15:06

Tgt Ion: 94 Resp: 210652

Ion Ratio Lower Upper

94 100

96 92.8 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU032459.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU032461.D (-71) (-)

1.60

250000

200000

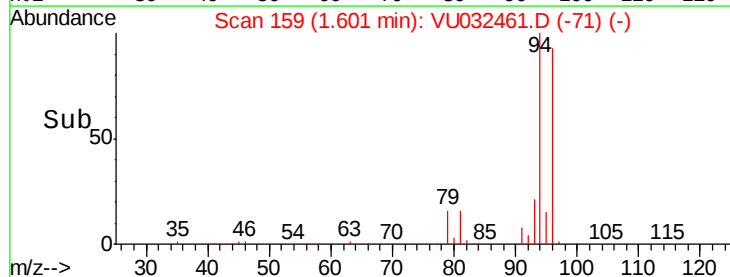
150000

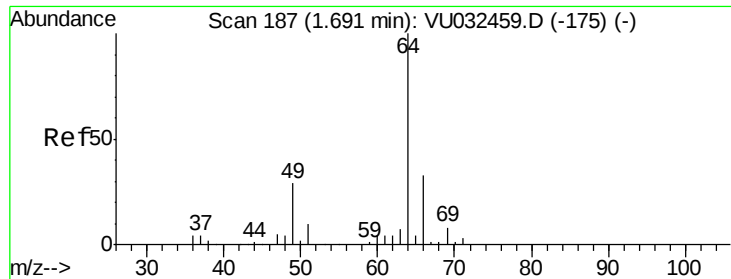
100000

50000

0

Time-->





#8

Chloroethane

Concen: 198.827 ug/L

RT: 1.68 min Scan# 182

Delta R.T. -0.02 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

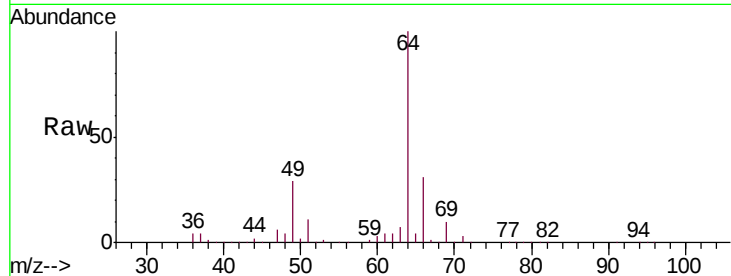
VSTD20058

Tgt Ion: 64 Resp: 212548

Ion Ratio Lower Upper

64 100

66 31.5 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VU032459.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU032459.D (-175) (-)

1.68

150000

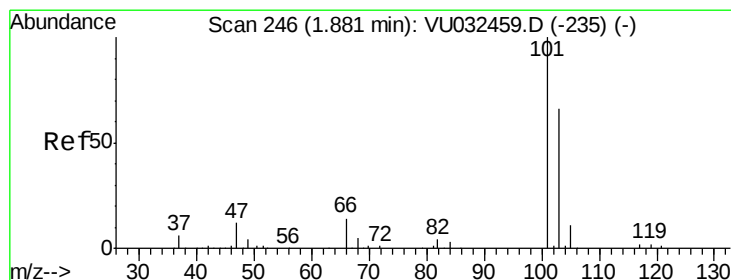
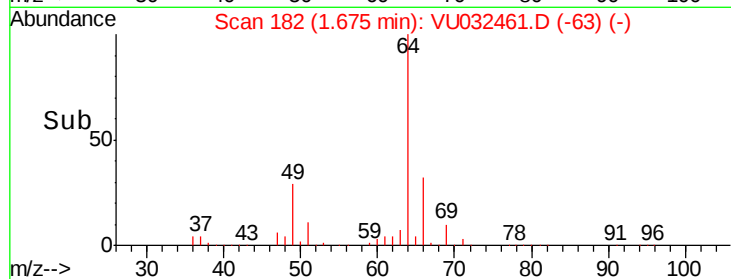
100000

50000

0

1.60 1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 223.639 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU032461.D

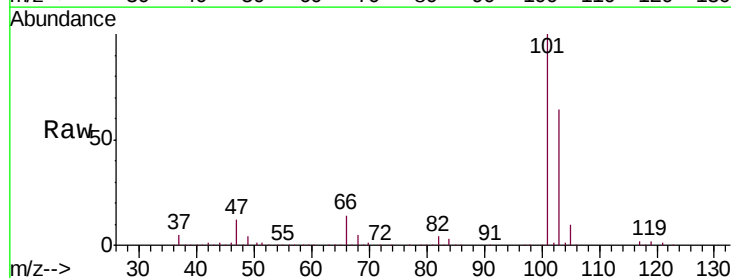
Acq: 05 Jun 2019 15:06

Tgt Ion: 101 Resp: 502928

Ion Ratio Lower Upper

101 100

103 64.6 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032459.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032459.D (-235) (-)

1.87

400000

300000

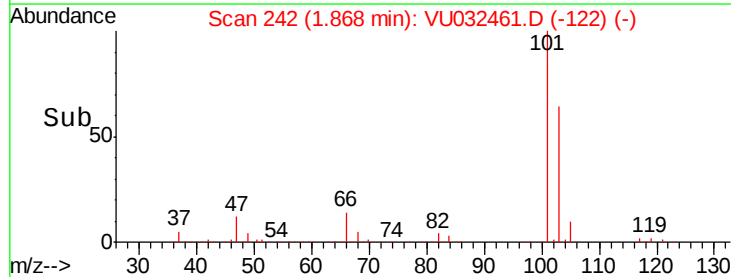
200000

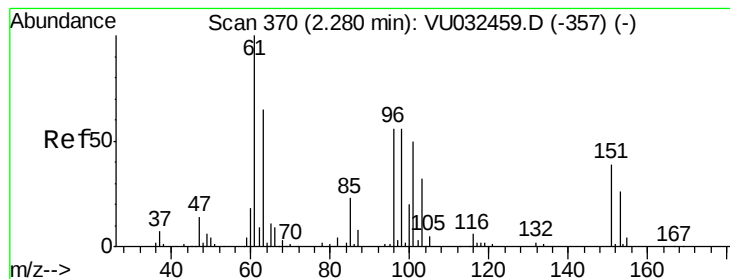
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 197.890 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

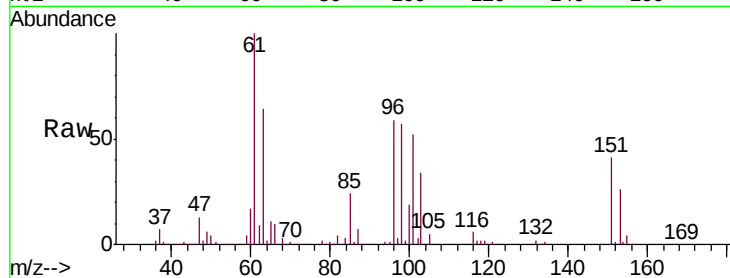
Tgt Ion: 101 Resp: 261078

Ion Ratio Lower Upper

101 100

85 44.8 36.1 54.1

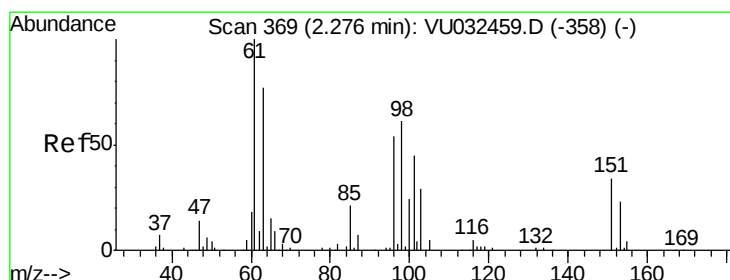
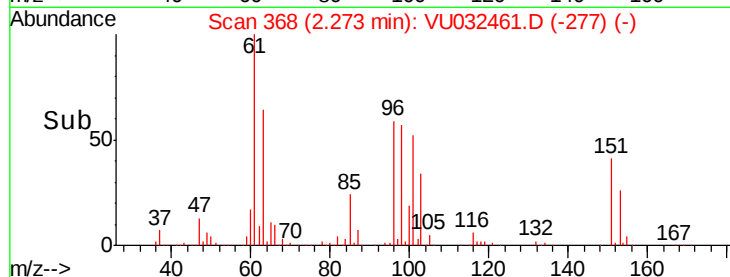
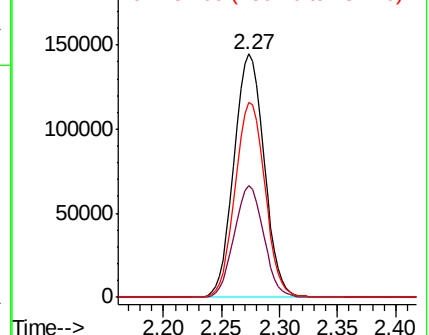
151 79.3 63.0 94.4



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: 193.210 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

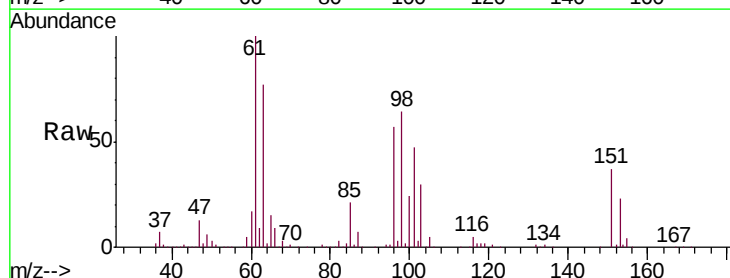
Tgt Ion: 96 Resp: 257727

Ion Ratio Lower Upper

96 100

61 175.7 129.5 240.5

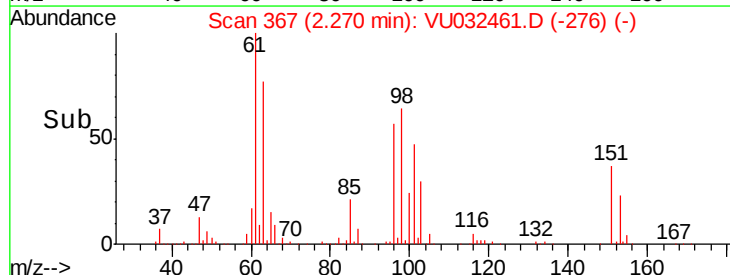
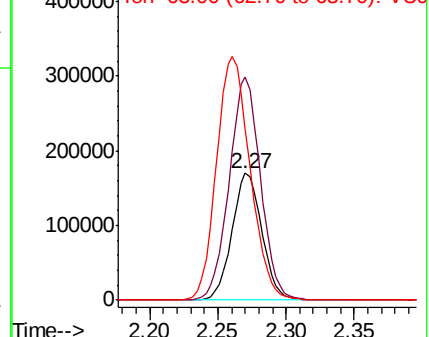
63 135.4 103.4 192.0

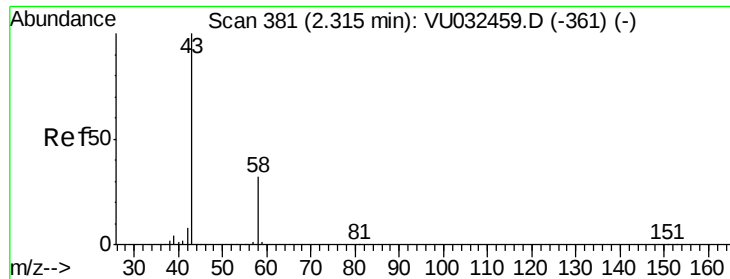


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

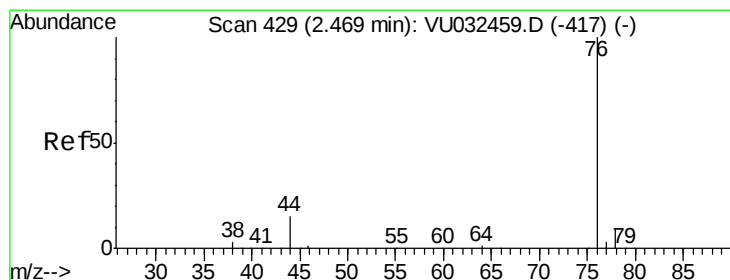
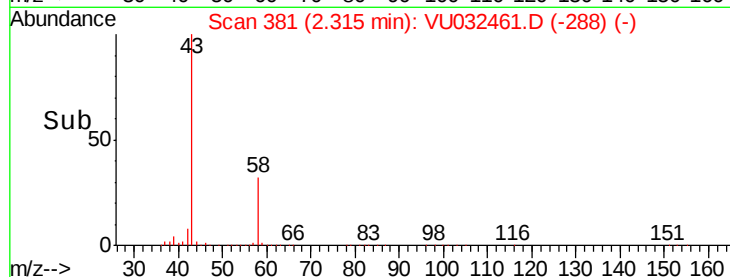
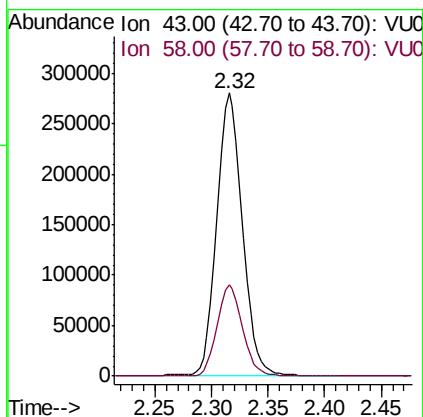
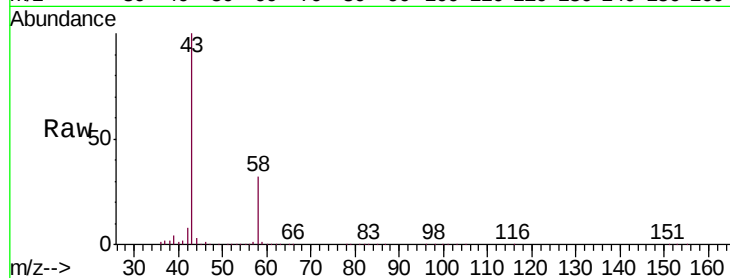




#13
Acetone
Concen: 436.774 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

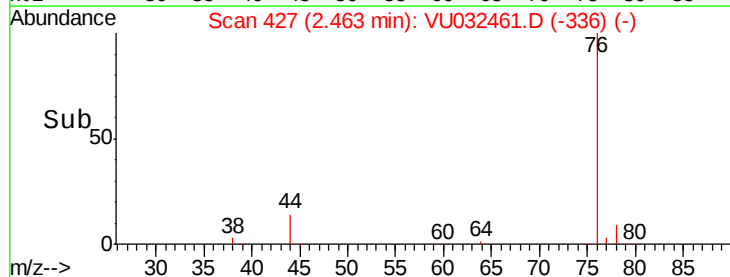
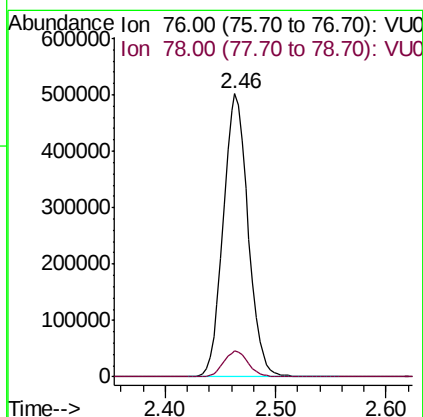
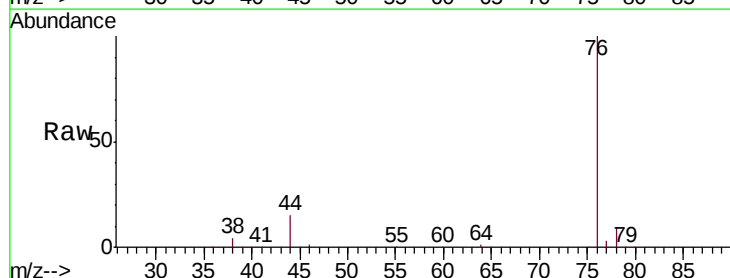
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

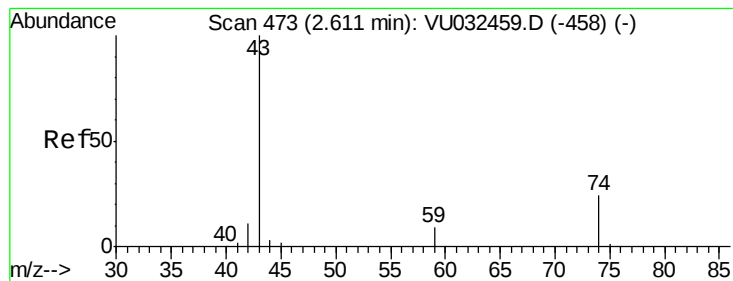
Tgt Ion: 43 Resp: 440047
Ion Ratio Lower Upper
43 100
58 32.0 0.0 64.0



#14
Carbon disulfide
Concen: 195.161 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.01 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Tgt Ion: 76 Resp: 784308
Ion Ratio Lower Upper
76 100
78 9.1 7.6 11.4





#15

Methyl Acetate

Concen: 220.168 ug/L

RT: 2.61 min Scan# 472

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

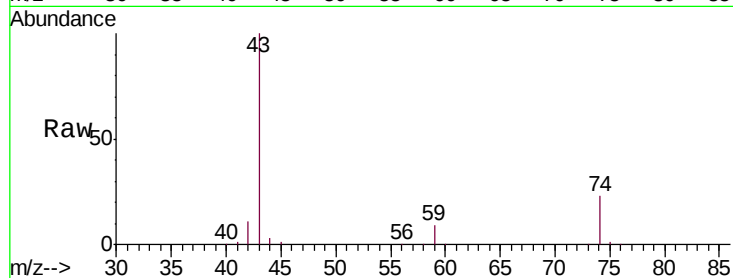
VSTD20058

Tgt Ion: 43 Resp: 347076

Ion Ratio Lower Upper

43 100

74 23.5 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU032461.D (-380) (-)

Ion 74.00 (73.70 to 74.70): VU032461.D (-380) (-)

2.61

200000

150000

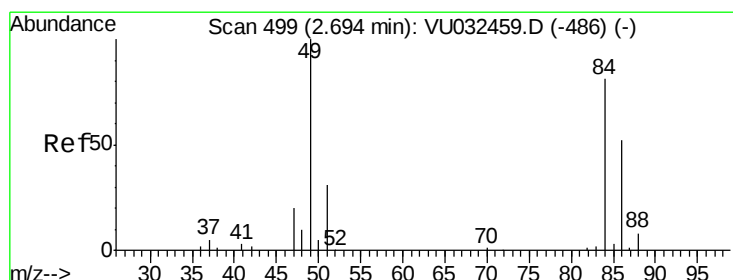
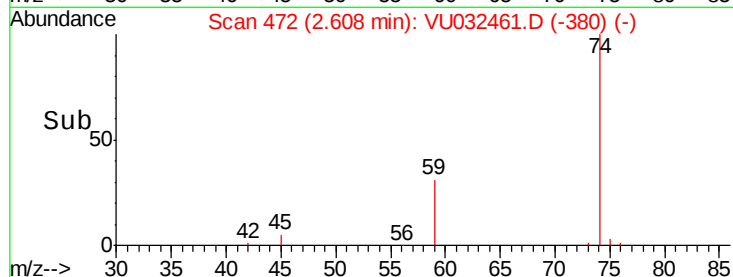
100000

50000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 186.062 ug/L

RT: 2.69 min Scan# 497

Delta R.T. -0.01 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

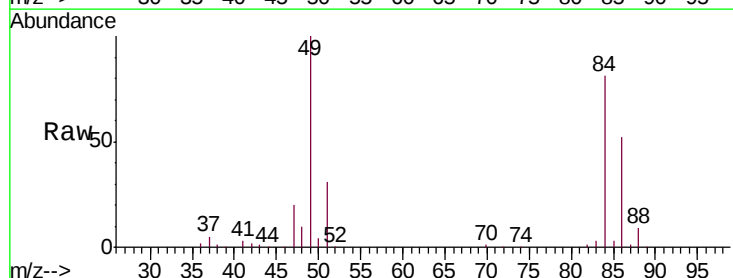
Tgt Ion: 84 Resp: 289494

Ion Ratio Lower Upper

84 100

86 64.5 44.7 82.9

49 123.3 86.1 159.9



Abundance Ion 84.00 (83.70 to 84.70): VU032461.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032461.D (-406) (-)

Ion 49.00 (48.70 to 49.70): VU032461.D (-406) (-)

2.69

250000

200000

150000

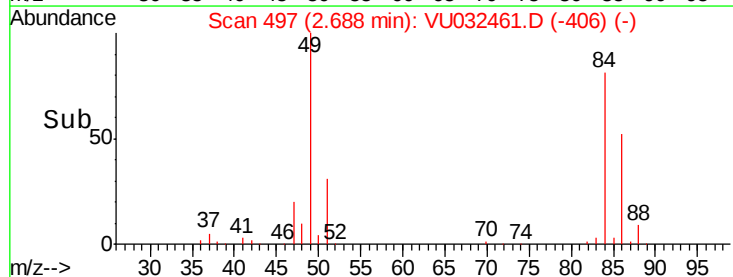
100000

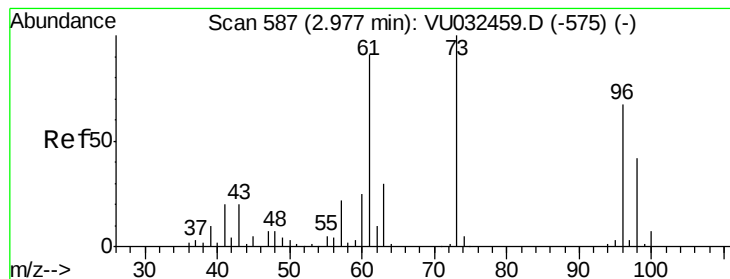
50000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 199.701 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

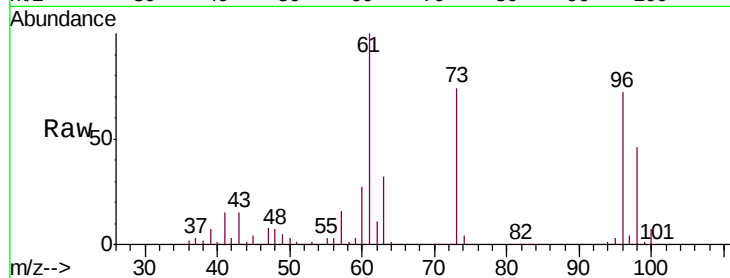
Tgt Ion: 96 Resp: 277292

Ion Ratio Lower Upper

96 100

61 139.6 95.7 177.7

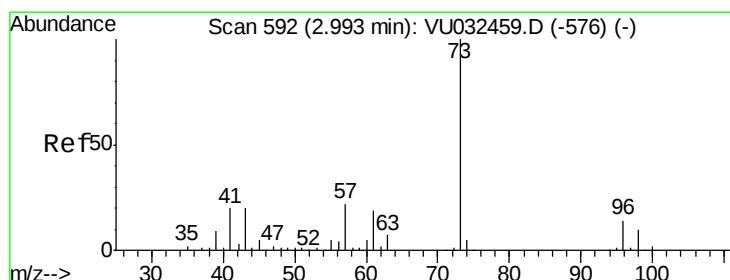
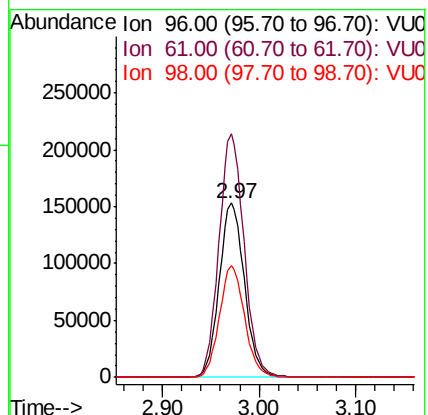
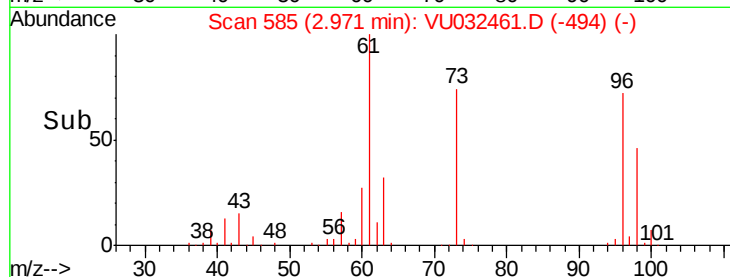
98 63.8 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU032461.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032461.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032461.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 213.093 ug/L

RT: 2.99 min Scan# 591

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

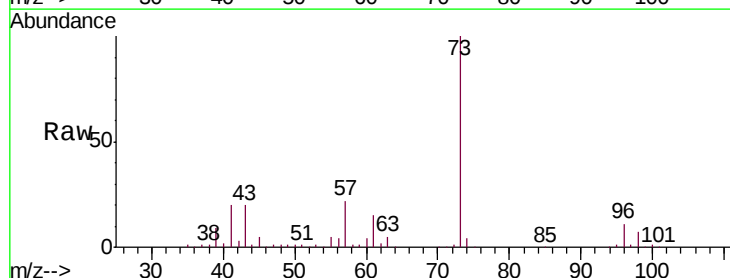
Tgt Ion: 73 Resp: 907936

Ion Ratio Lower Upper

73 100

43 19.9 15.8 23.6

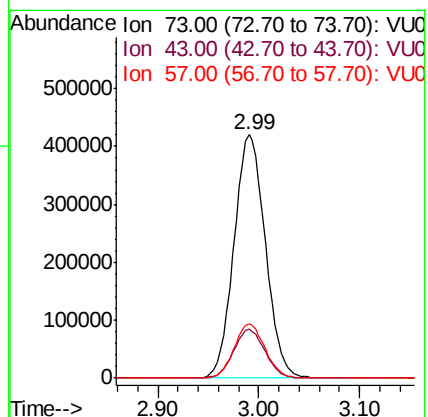
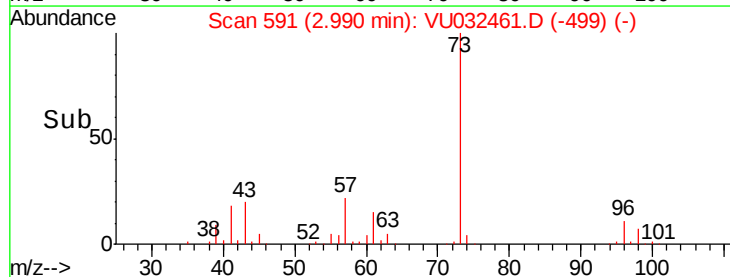
57 21.9 17.6 26.4

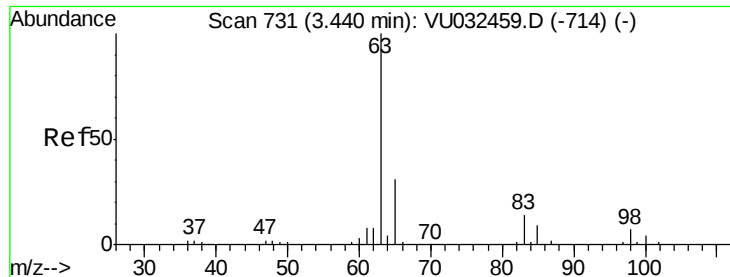


Abundance Ion 73.00 (72.70 to 73.70): VU032461.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU032461.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU032461.D (-499) (-)

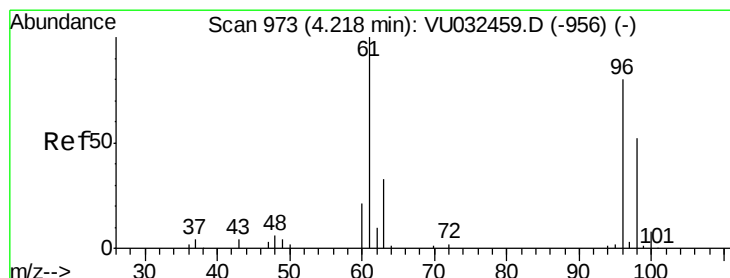
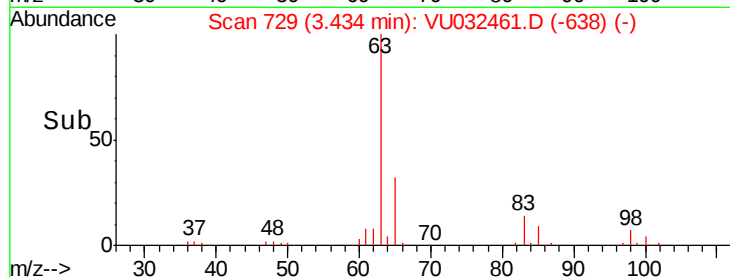
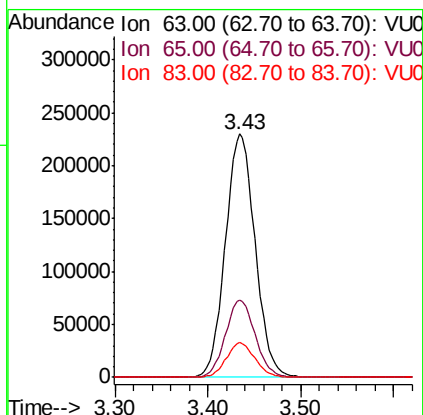
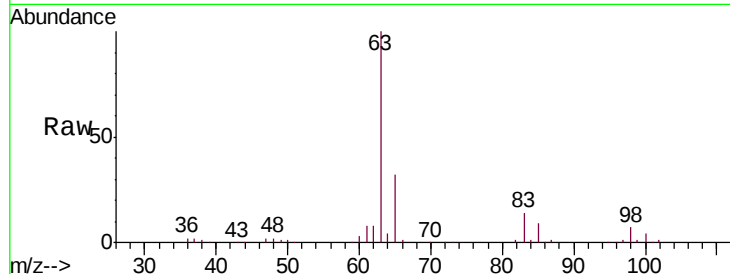




#19
 1,1-Dichloroethane
 Concen: 201.546 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. -0.01 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

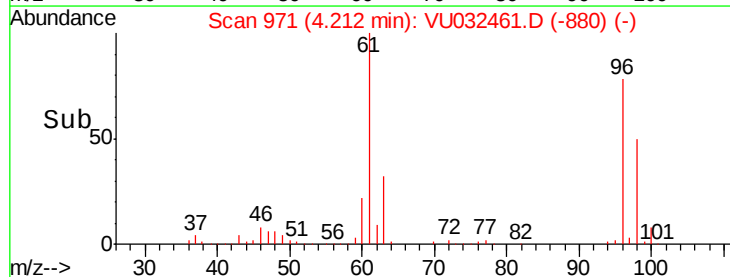
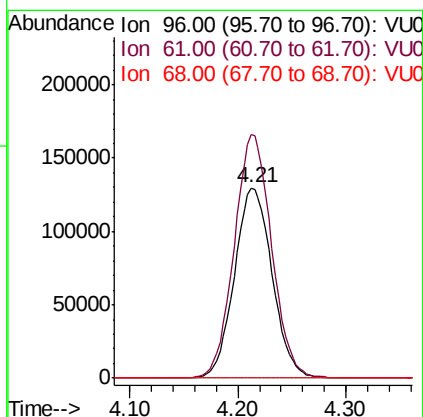
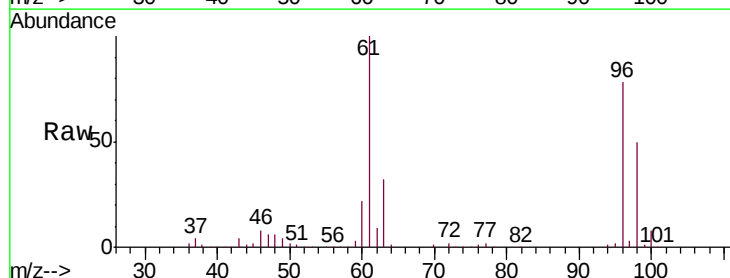
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

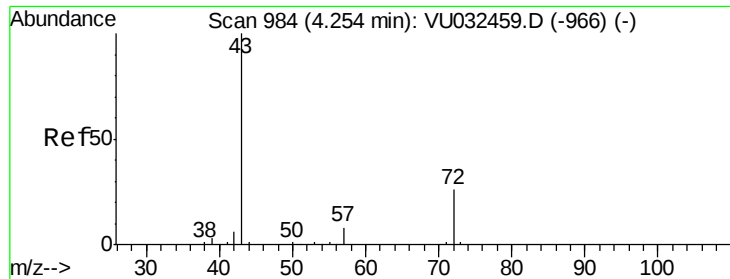
Tgt Ion: 63 Resp: 509935
 Ion Ratio Lower Upper
 63 100
 65 31.9 21.8 40.6
 83 14.2 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 202.115 ug/L
 RT: 4.21 min Scan# 971
 Delta R.T. -0.01 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Tgt Ion: 96 Resp: 315014
 Ion Ratio Lower Upper
 96 100
 61 127.9 87.2 162.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 491.059 ug/L

RT: 4.25 min Scan# 983

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

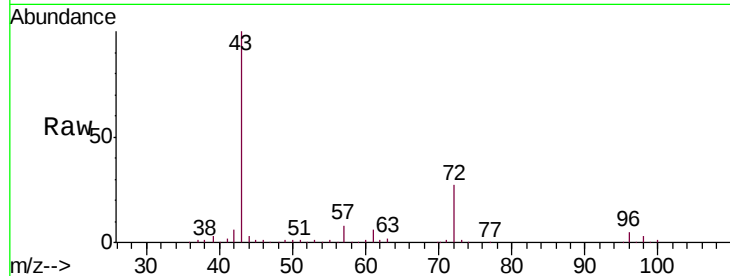
VSTD20058

Tgt Ion: 43 Resp: 591997

Ion Ratio Lower Upper

43 100

72 26.9 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032459.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU032459.D (-966) (-)

4.25

250000

200000

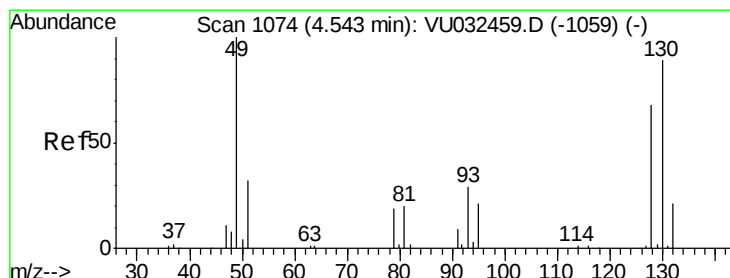
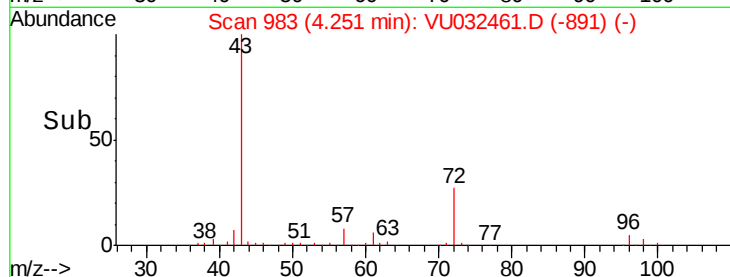
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 199.399 ug/L

RT: 4.54 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Tgt Ion: 128 Resp: 164138

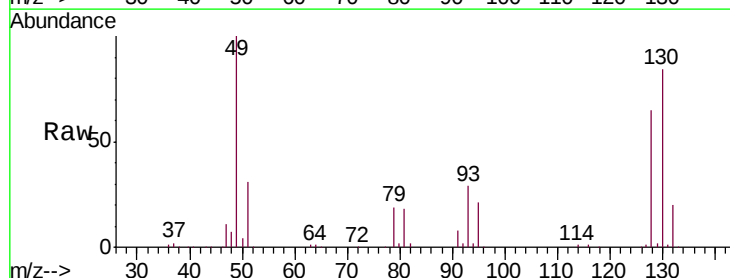
Ion Ratio Lower Upper

128 100

49 154.5 103.7 192.5

130 129.3 92.2 171.2

51 48.6 37.7 56.5



Abundance Ion 128.00 (127.70 to 128.70): VU032459.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032459.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032459.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032459.D (-1059) (-)

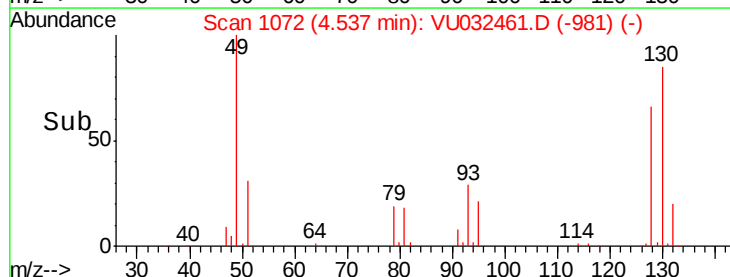
150000

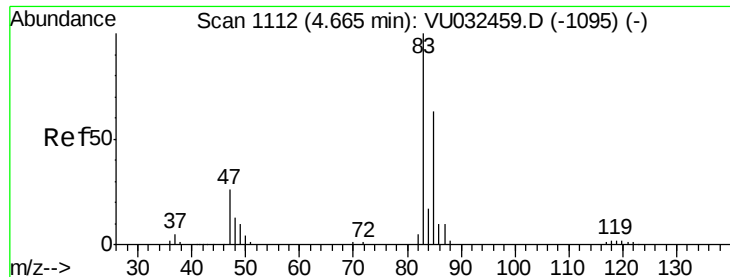
100000

50000

0

Time-->

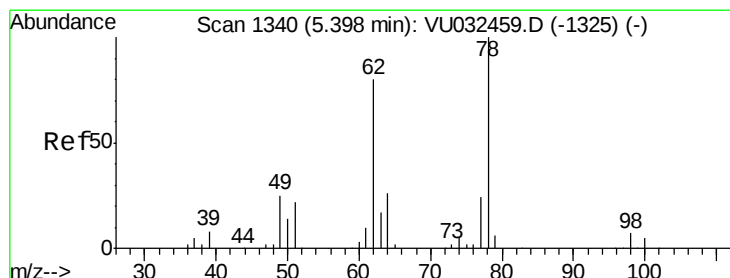
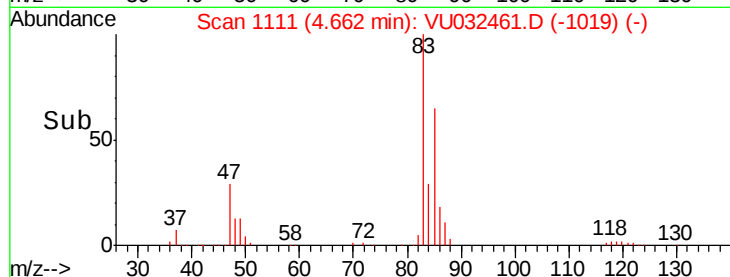
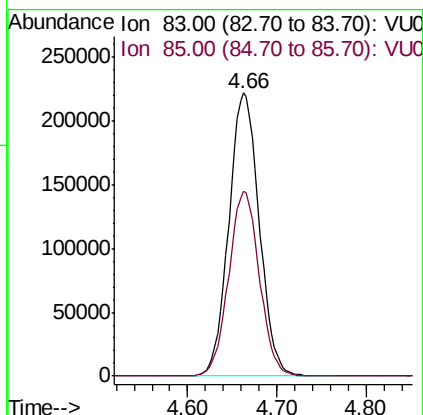
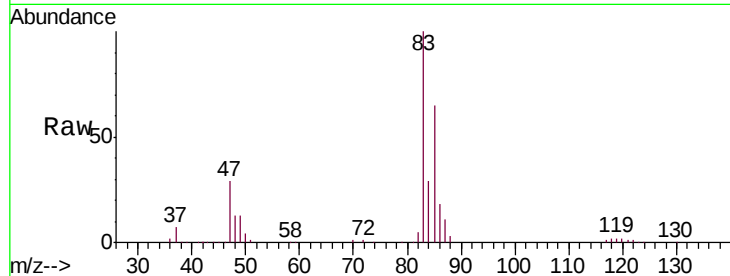




#25
Chloroform
Concen: 199.987 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

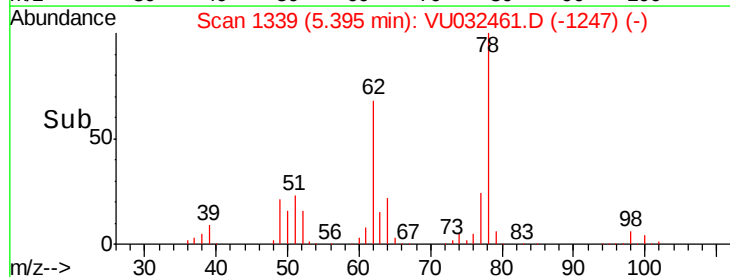
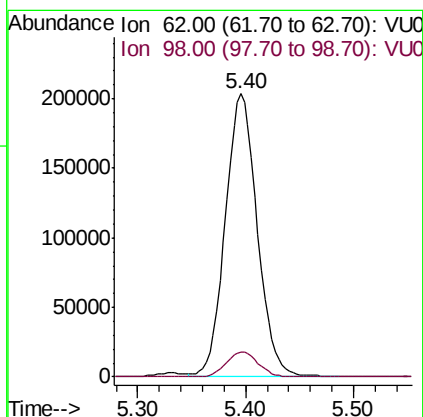
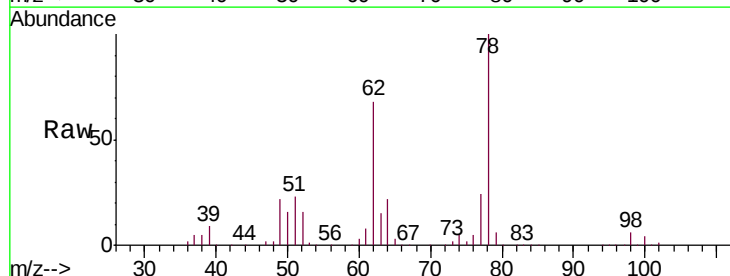
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

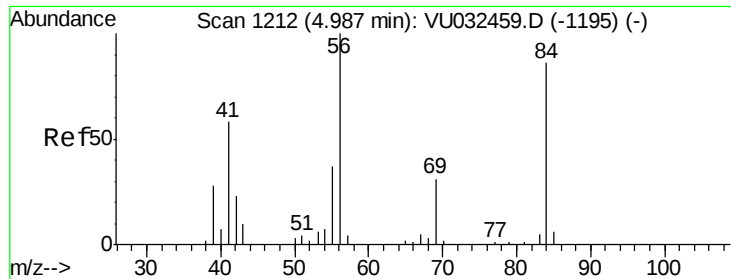
Tgt Ion: 83 Resp: 524132
Ion Ratio Lower Upper
83 100
85 65.4 44.7 82.9



#27
1,2-Dichloroethane
Concen: 212.836 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Tgt Ion: 62 Resp: 418899
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8

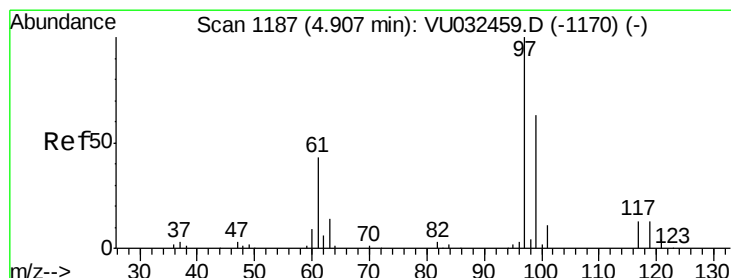
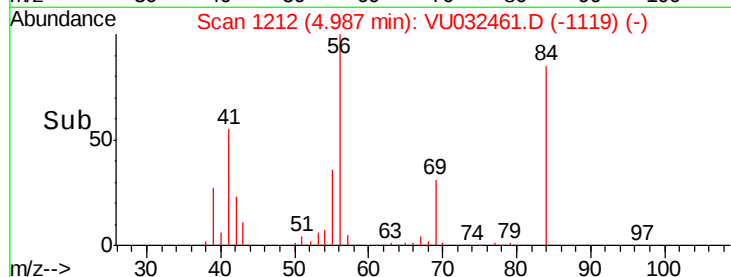
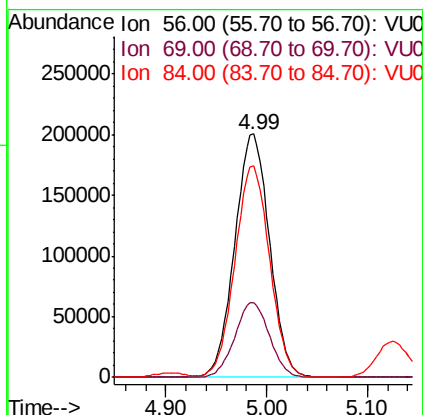
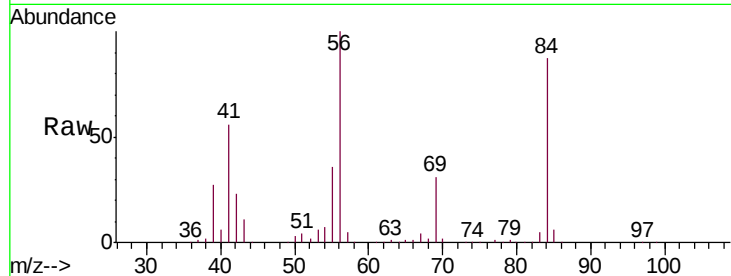




#29
Cyclohexane
Concen: 227.440 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

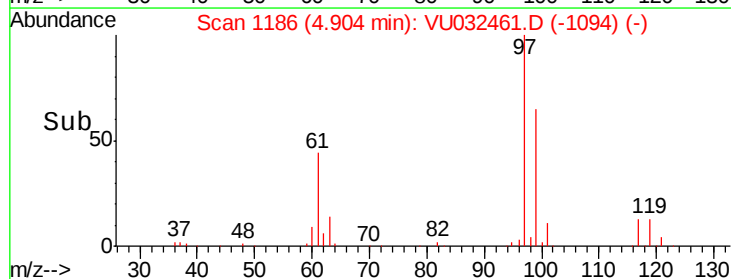
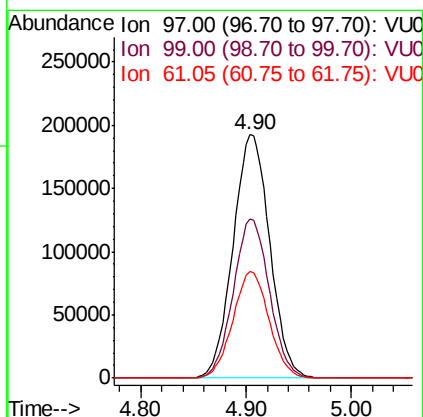
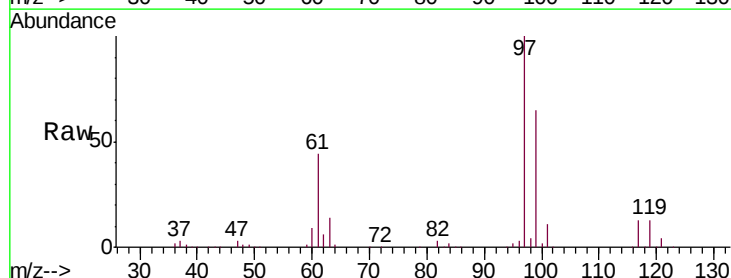
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

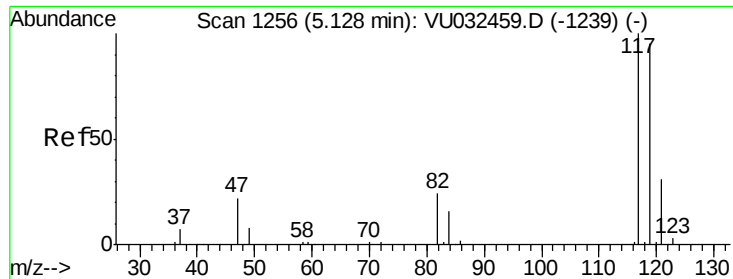
Tgt Ion: 56 Resp: 480554
Ion Ratio Lower Upper
56 100
69 30.6 24.7 37.1
84 86.6 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 215.193 ug/L
RT: 4.90 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Tgt Ion: 97 Resp: 465762
Ion Ratio Lower Upper
97 100
99 64.4 50.5 75.7
61 43.1 33.8 50.6





#31

Carbon tetrachloride

Concen: 230.751 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

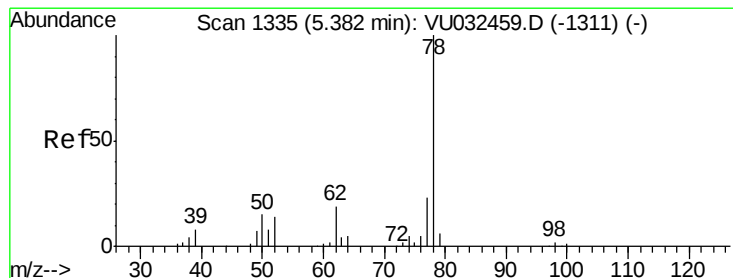
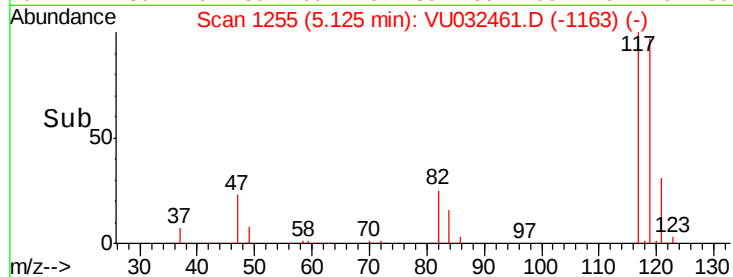
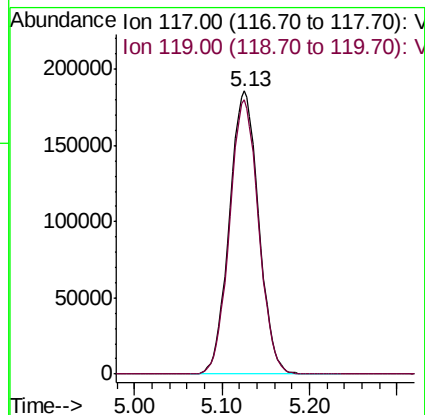
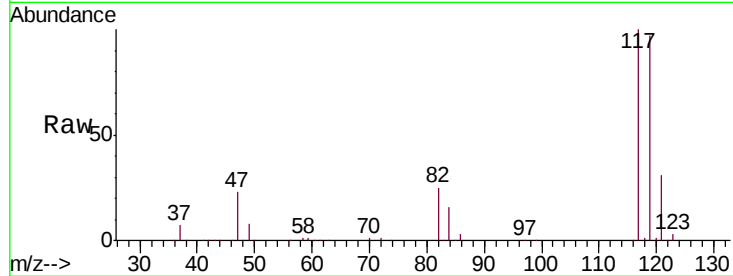
Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Tgt Ion:117 Resp: 431781

Ion Ratio Lower Upper

117 100

119 95.9 76.6 114.8



#33

Benzene

Concen: 202.106 ug/L

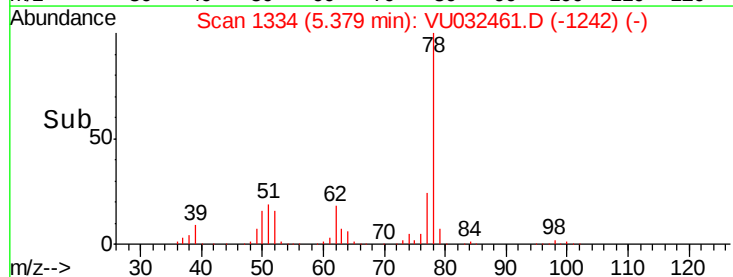
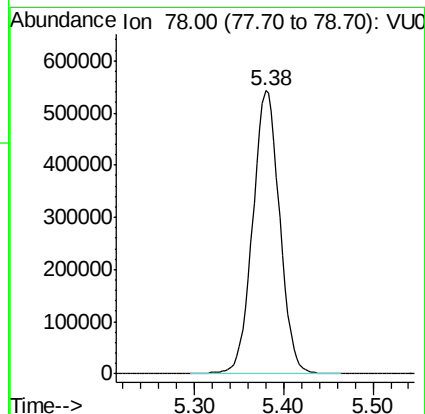
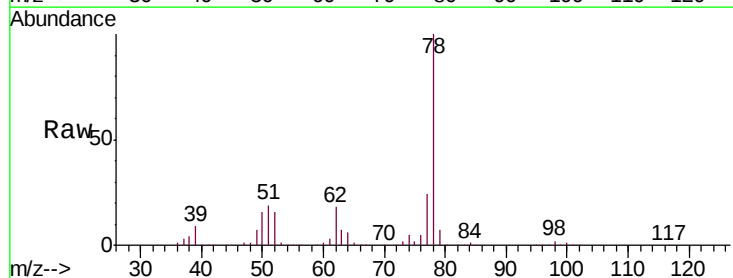
RT: 5.38 min Scan# 1334

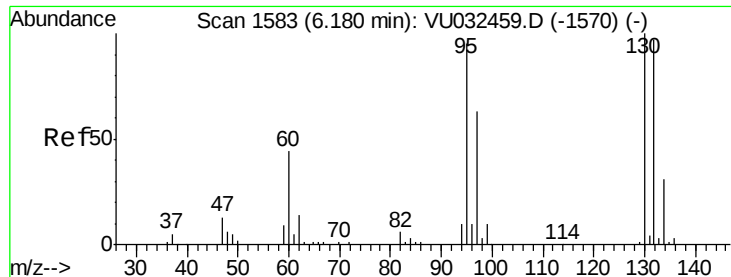
Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Tgt Ion: 78 Resp: 1145018





#34

Trichloroethene

Concen: 207.994 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

Tgt Ion: 95 Resp: 305612

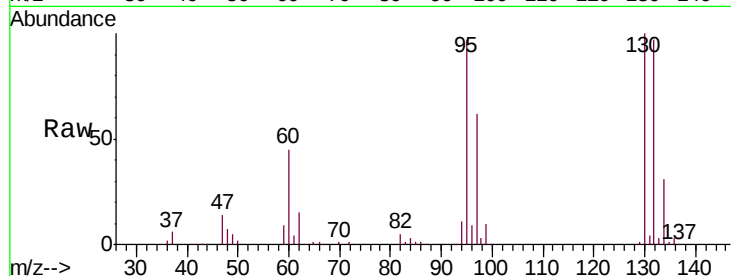
Ion Ratio Lower Upper

95 100

97 64.2 45.8 85.2

132 99.9 71.0 131.8

130 103.1 73.4 136.2

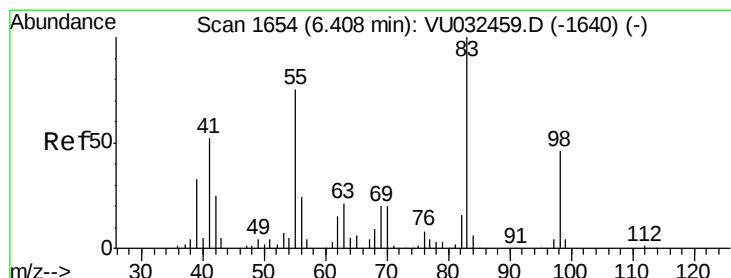
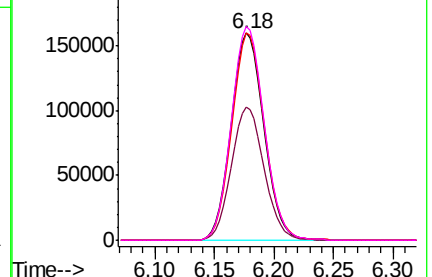
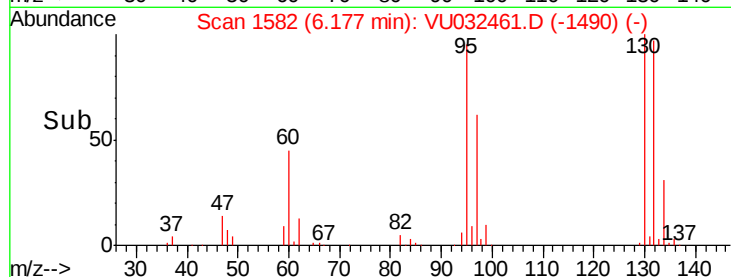


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 219.929 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

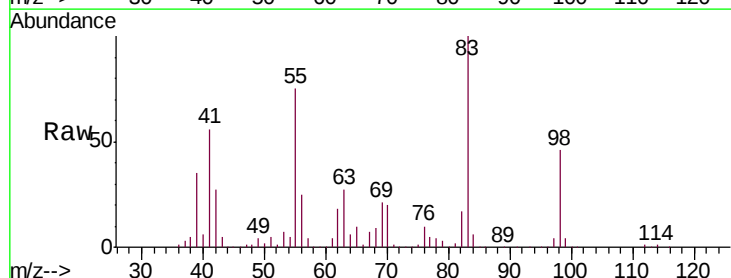
Tgt Ion: 83 Resp: 496235

Ion Ratio Lower Upper

83 100

55 75.0 60.2 90.4

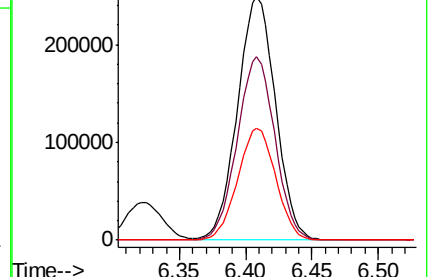
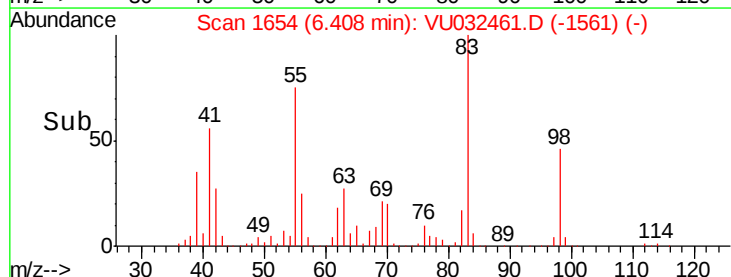
98 46.1 37.4 56.2

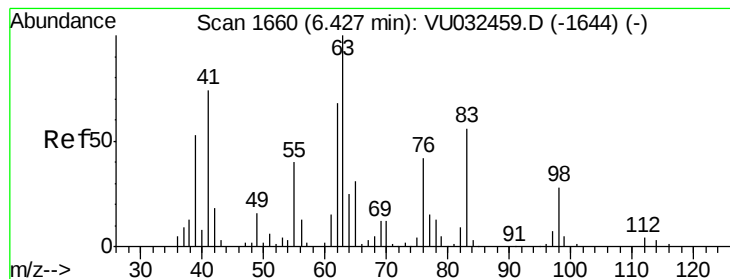


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 208.176 ug/L

RT: 6.42 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

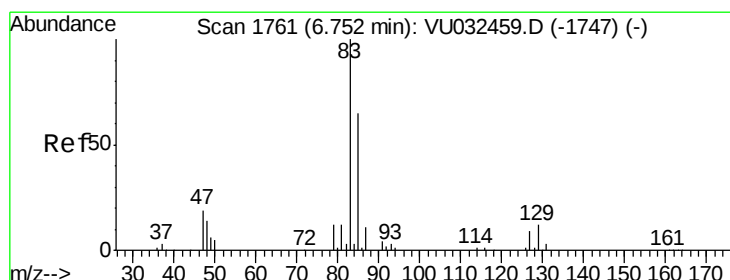
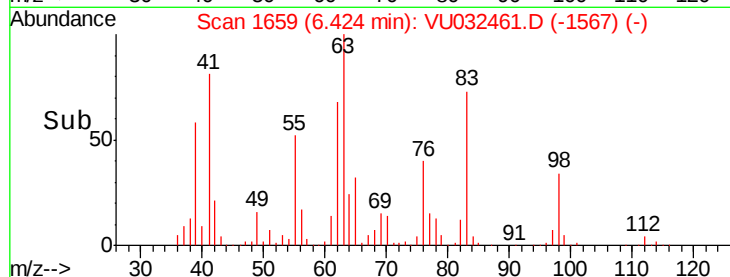
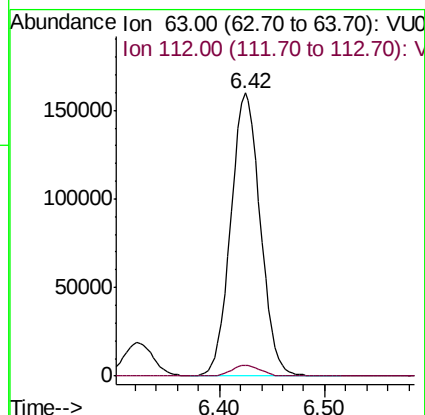
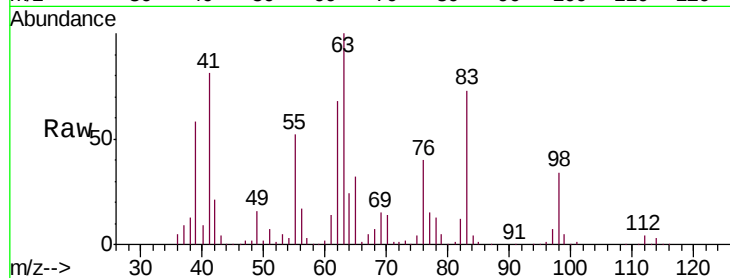
VSTD20058

Tgt Ion: 63 Resp: 308364

Ion Ratio Lower Upper

63 100

112 3.8 3.1 4.7



#38

Bromodichloromethane

Concen: 213.885 ug/L

RT: 6.75 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

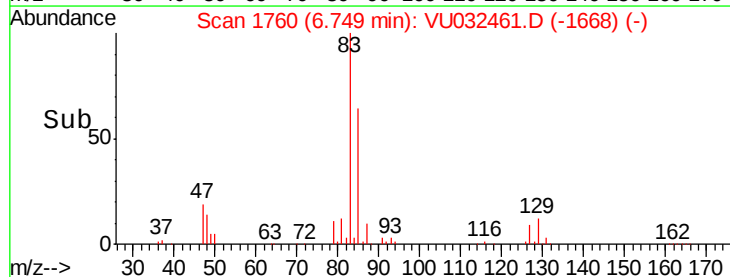
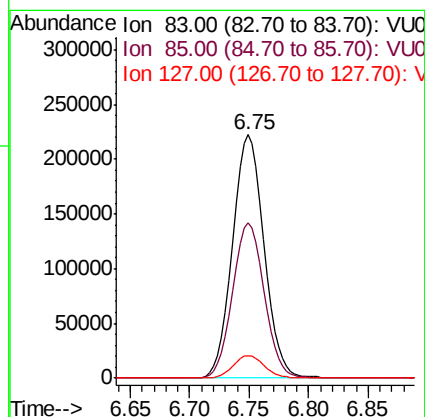
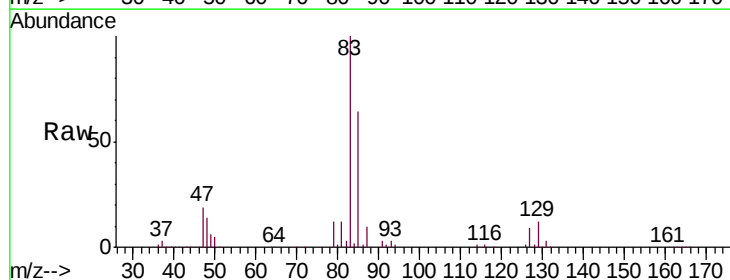
Tgt Ion: 83 Resp: 408752

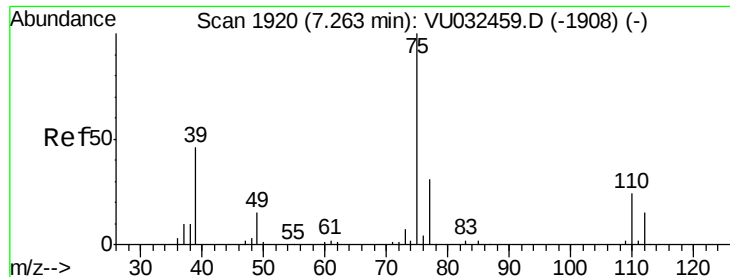
Ion Ratio Lower Upper

83 100

85 64.0 45.4 84.4

127 9.2 7.4 11.2



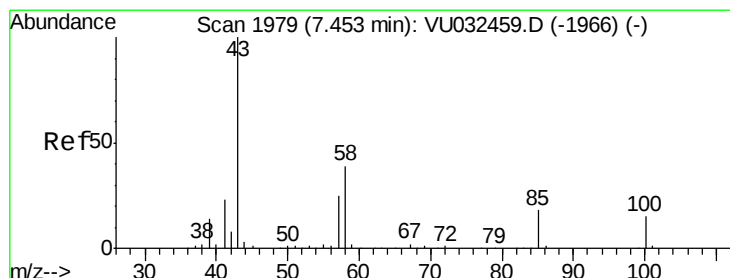
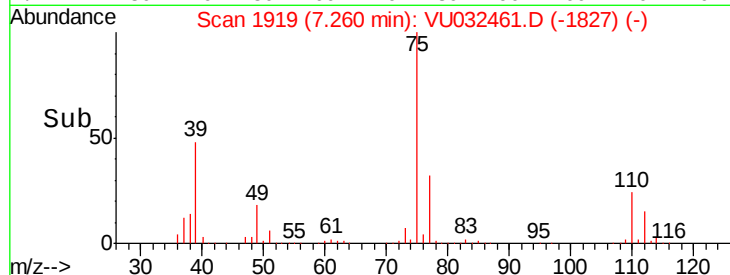
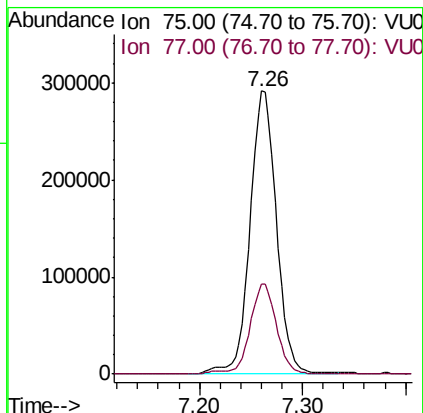
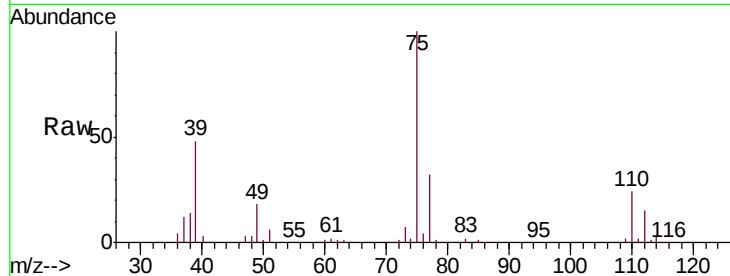


#39

cis-1,3-Dichloropropene
 Concen: 234.326 ug/L
 RT: 7.26 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

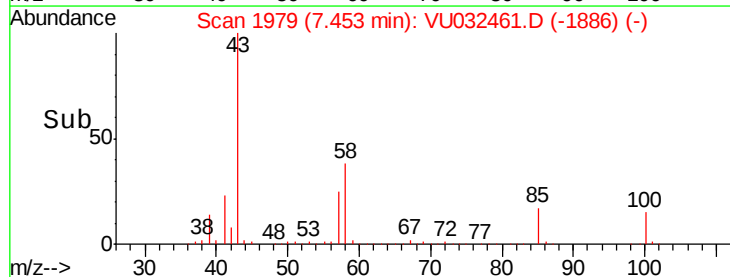
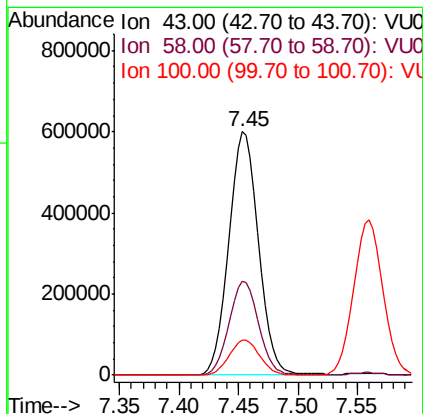
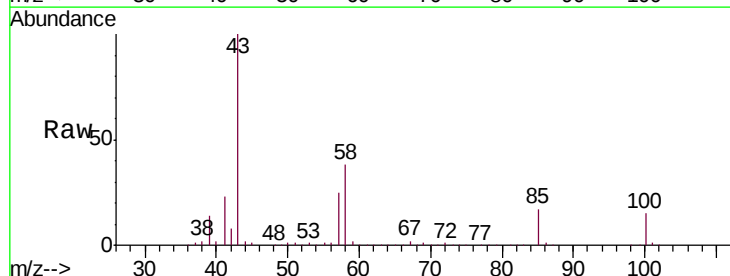
Tgt Ion: 75 Resp: 519352
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.0 41.0

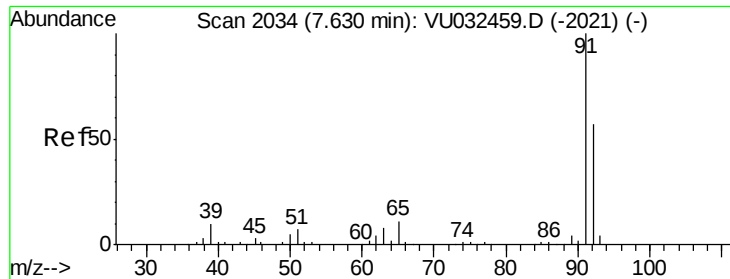


#40

4-Methyl-2-pentanone
 Concen: 512.429 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Tgt Ion: 43 Resp: 1039961
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.8 46.2
 100 14.7 12.1 18.1





#42

Toluene

Concen: 204.312 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

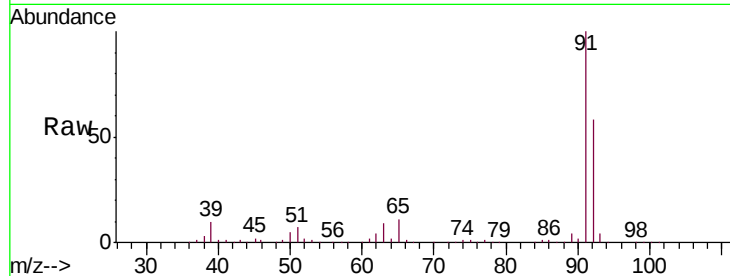
VSTD20058

Tgt Ion: 91 Resp: 1258400

Ion Ratio Lower Upper

91 100

92 57.7 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032459.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032459.D (-2021) (-)

7.63

800000

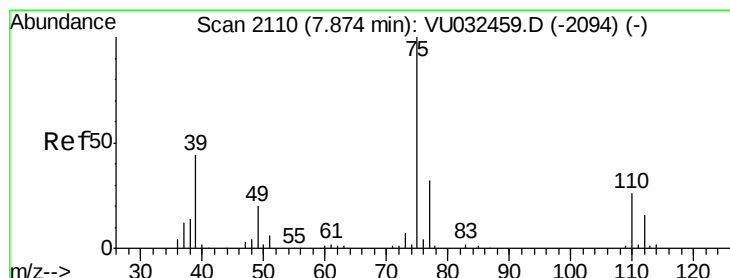
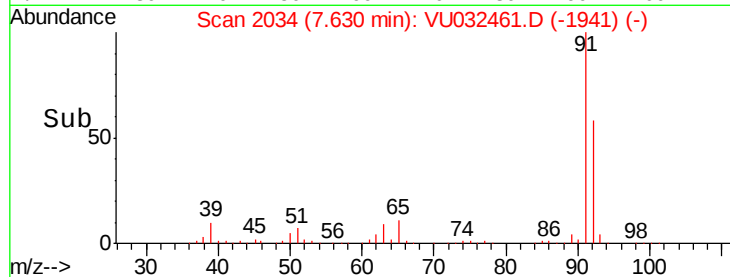
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 239.625 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. -0.00 min

Lab File: VU032461.D

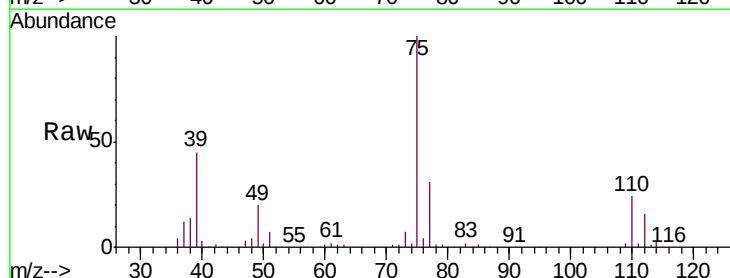
Acq: 05 Jun 2019 15:06

Tgt Ion: 75 Resp: 468091

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU032459.D (-2094) (-)

Ion 77.00 (76.70 to 77.70): VU032459.D (-2094) (-)

7.87

300000

250000

200000

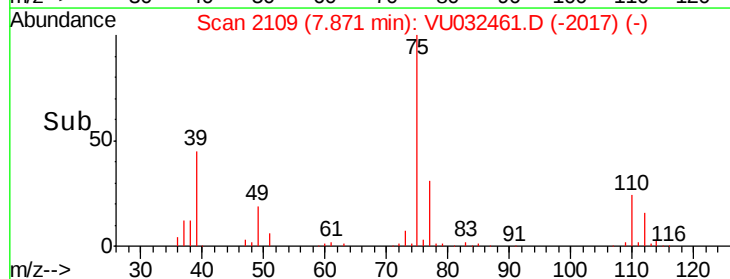
150000

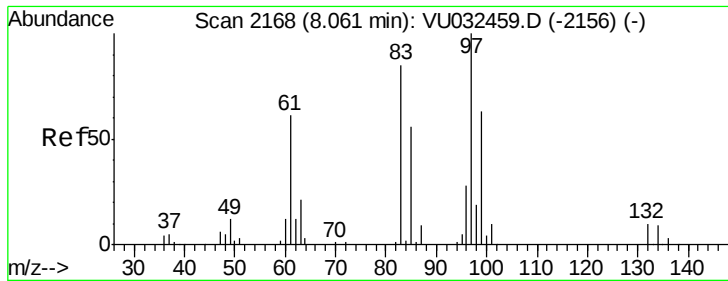
100000

50000

0

Time-->

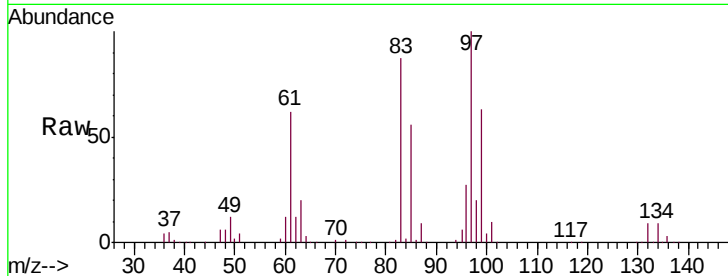




#45
 1,1,2-Trichloroethane
 Concen: 200.346 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

Tgt Ion:	97	Resp:	290104
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.1	81.9
83	87.1	59.4	110.2
85	56.0	39.1	72.7



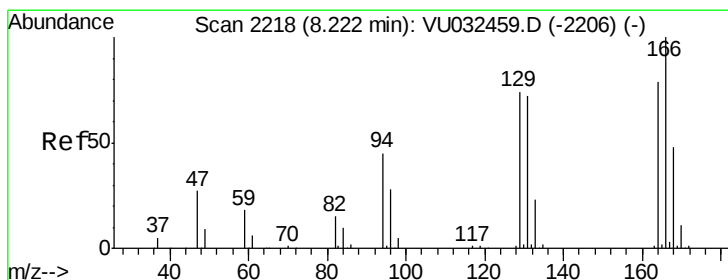
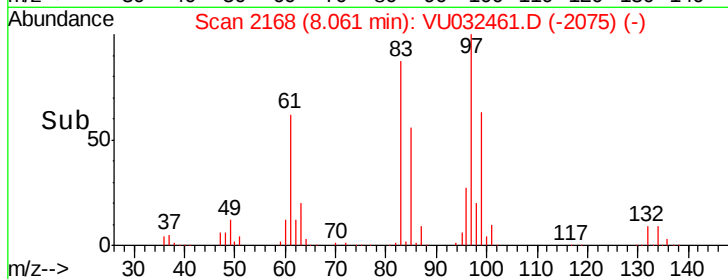
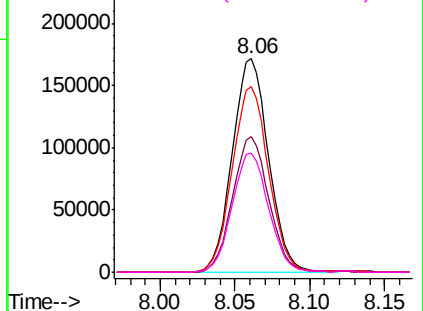
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

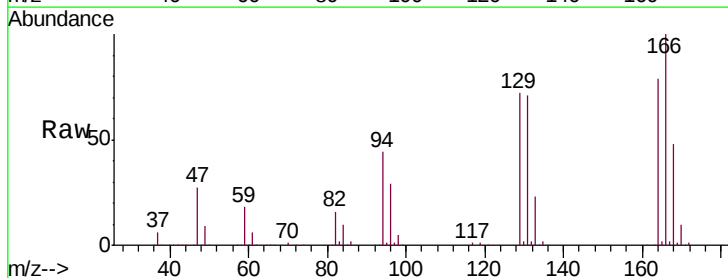
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 210.756 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Tgt Ion:	164	Resp:	253568
Ion	Ratio	Lower	Upper
164	100		
129	91.8	65.3	121.3
131	90.3	64.0	119.0
166	126.6	88.8	165.0



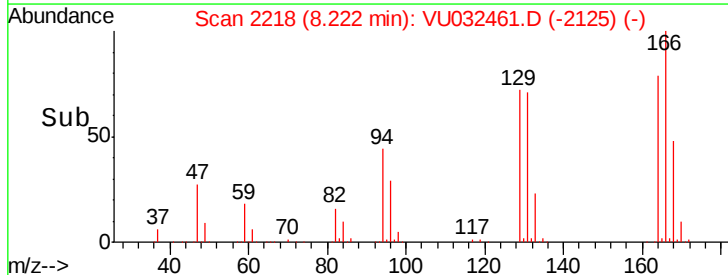
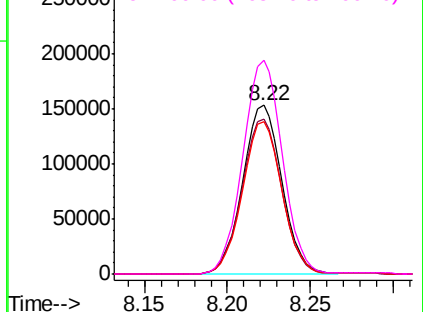
Abundance

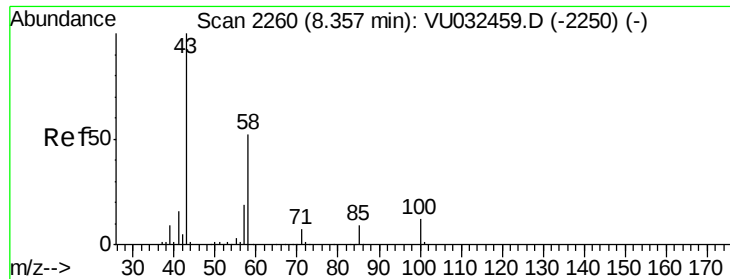
Ion 164.00 (163.70 to 164.70): V

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

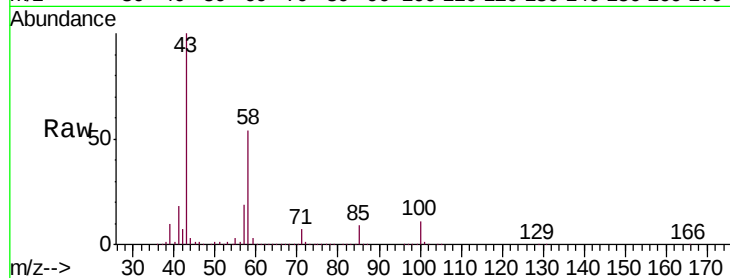




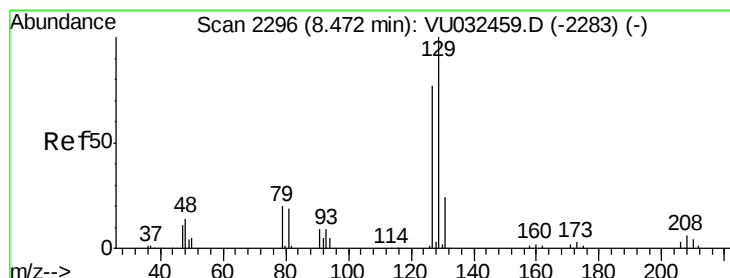
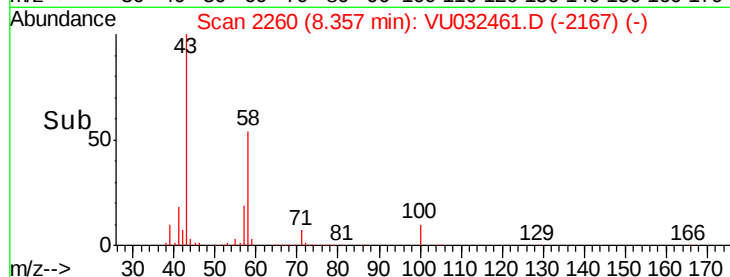
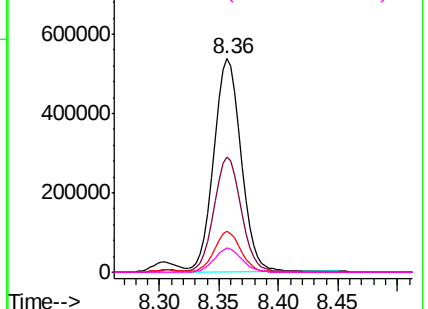
#48
2-Hexanone
Concen: 516.408 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Tgt Ion: 43 Resp: 857087
Ion Ratio Lower Upper
43 100
58 54.1 42.0 63.0
57 18.8 14.6 22.0
100 11.3 9.2 13.8

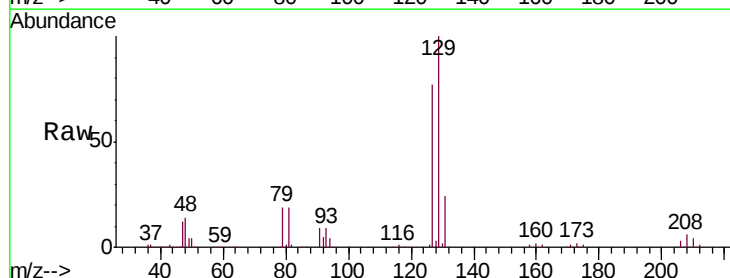


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

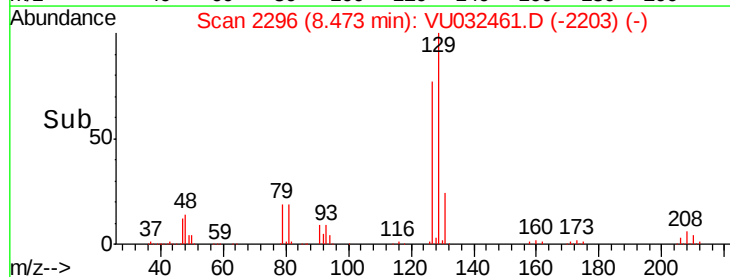
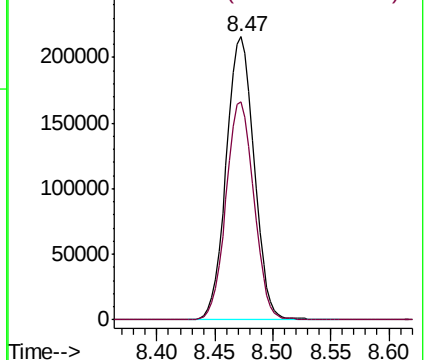


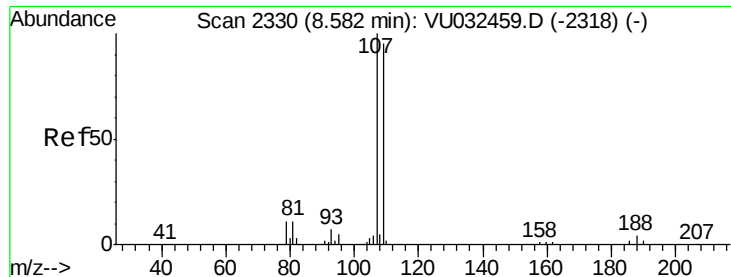
#49
Dibromochloromethane
Concen: 226.879 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Tgt Ion: 129 Resp: 360784
Ion Ratio Lower Upper
129 100
127 77.2 53.6 99.6



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

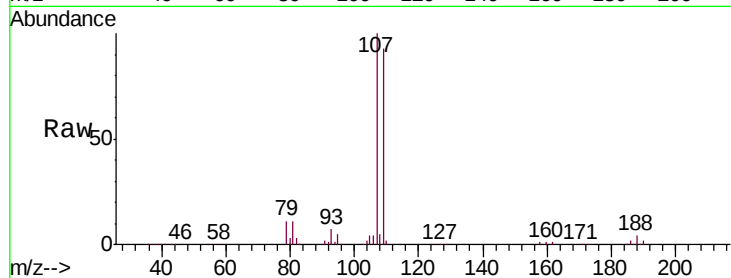




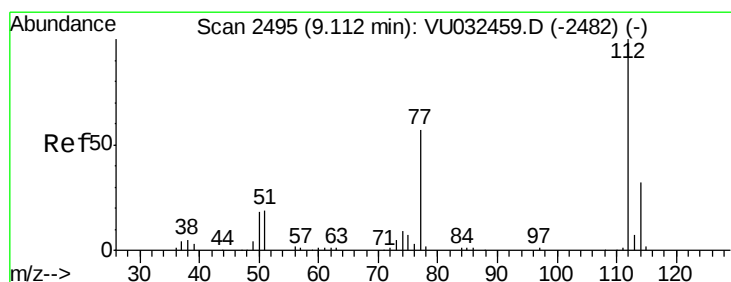
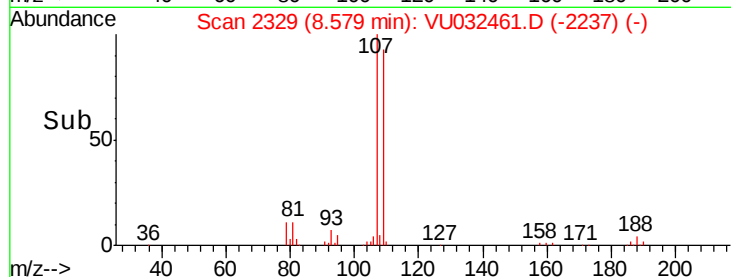
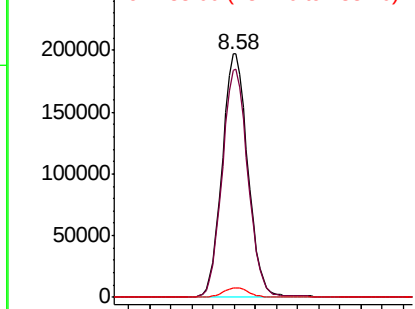
#50
1,2-Dibromoethane
Concen: 216.298 ug/L
RT: 8.58 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD20058

Tgt Ion:107 Resp: 333121
Ion Ratio Lower Upper
107 100
109 93.3 66.8 124.0
188 3.9 3.1 4.7

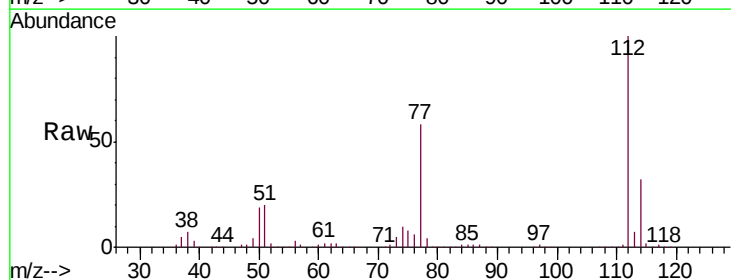


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

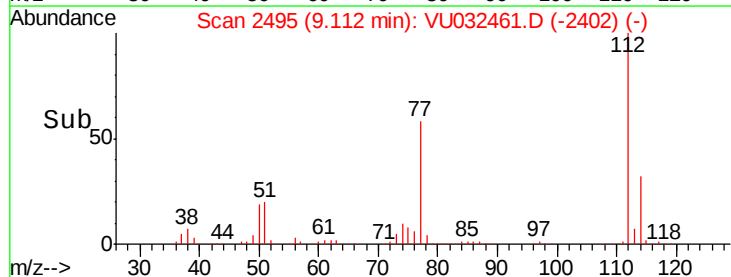
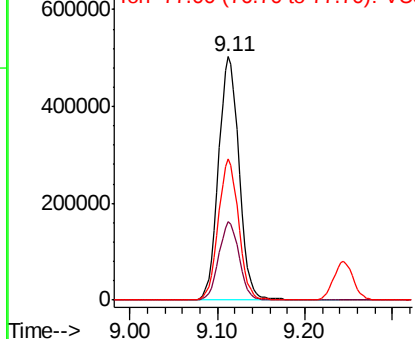


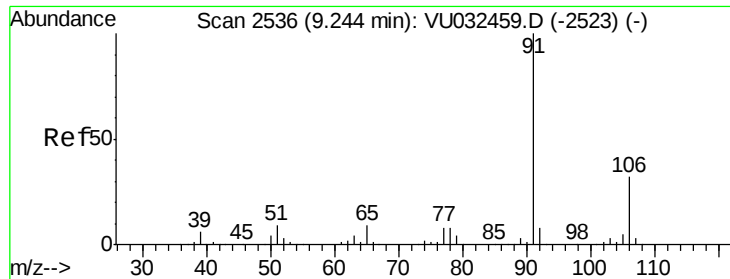
#51
Chlorobenzene
Concen: 206.055 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU032461.D
Acq: 05 Jun 2019 15:06

Tgt Ion:112 Resp: 819175
Ion Ratio Lower Upper
112 100
114 32.0 22.6 42.0
77 57.8 46.1 69.1



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





#52

Ethylbenzene

Concen: 216.604 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

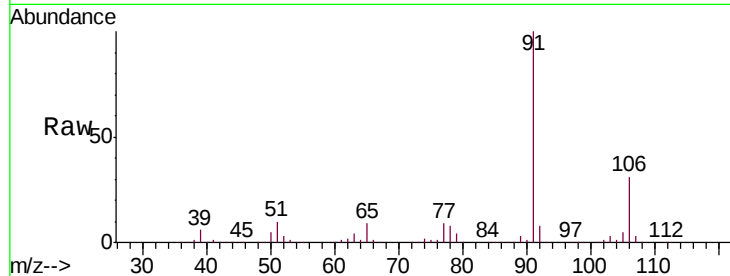
VSTD20058

Tgt Ion: 91 Resp: 1431054

Ion Ratio Lower Upper

91 100

106 31.3 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU032459.D (-2523) (-)

Ion 106.00 (105.70 to 106.70): VU032459.D (-2523) (-)

9.24

800000

600000

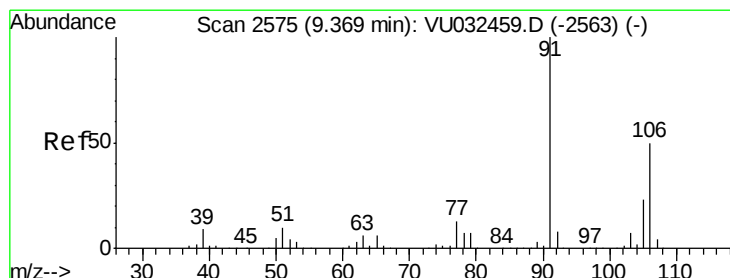
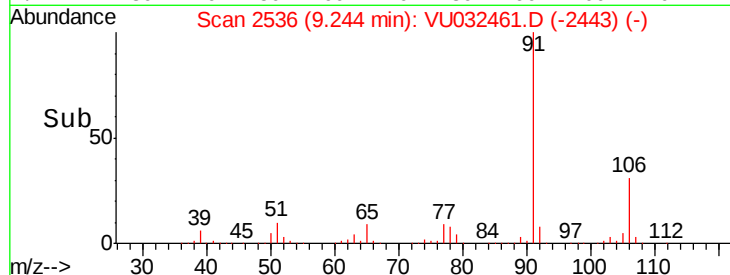
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 214.697 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032461.D

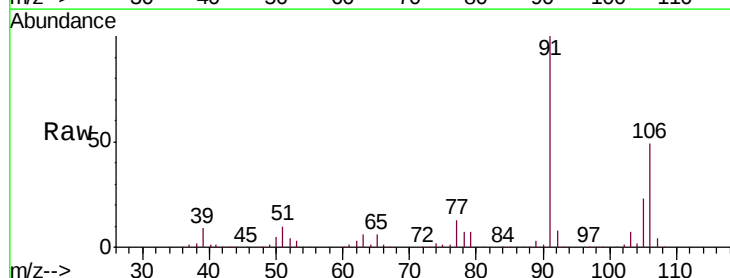
Acq: 05 Jun 2019 15:06

Tgt Ion: 106 Resp: 542542

Ion Ratio Lower Upper

106 100

91 206.2 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): VU032459.D (-2563) (-)

Ion 91.00 (90.70 to 91.70): VU032459.D (-2563) (-)

9.37

800000

600000

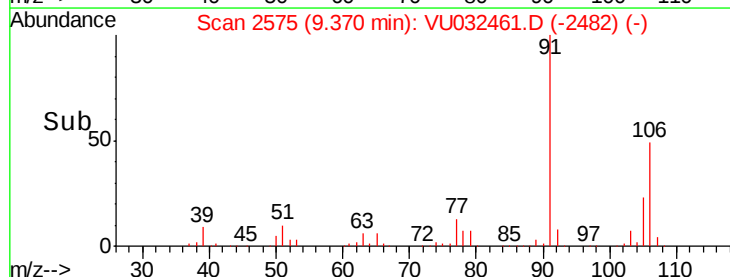
400000

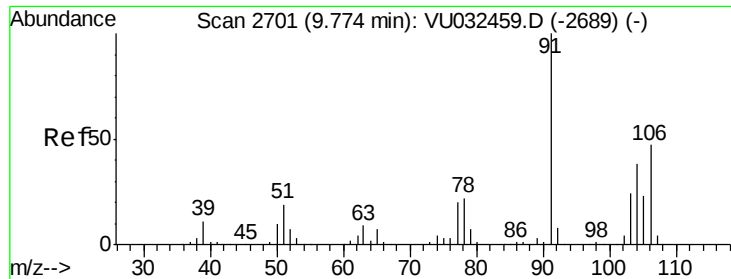
200000

0

9.30 9.40 9.50

Time-->





#54

o-xylene

Concen: 211.641 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

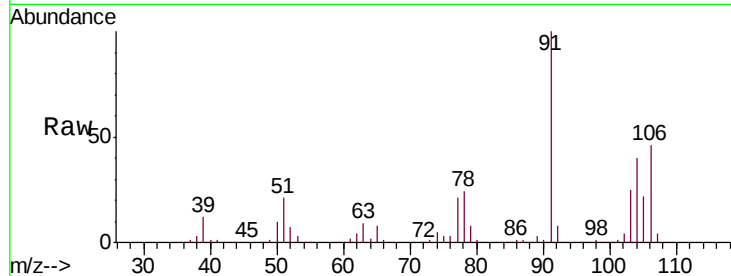
VSTD20058

Tgt Ion:106 Resp: 537009

Ion Ratio Lower Upper

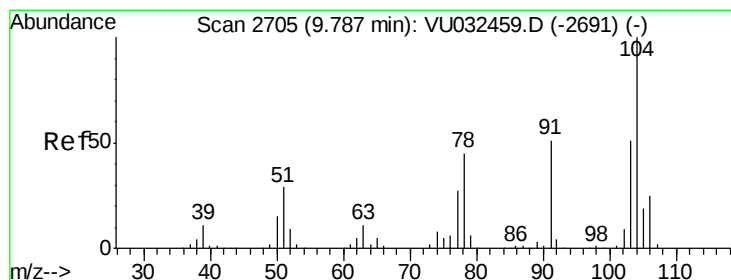
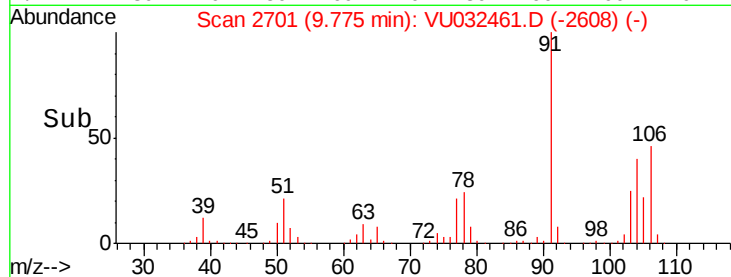
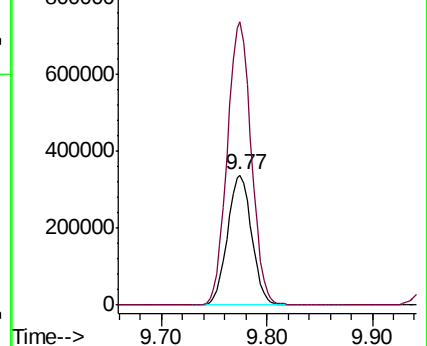
106 100

91 217.6 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 220.506 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032461.D

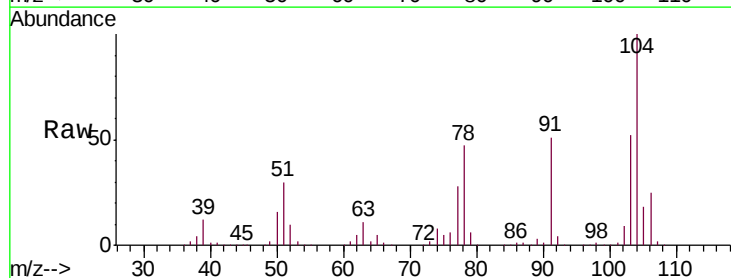
Acq: 05 Jun 2019 15:06

Tgt Ion:104 Resp: 936217

Ion Ratio Lower Upper

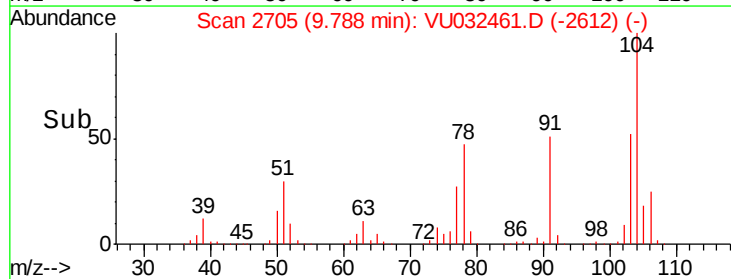
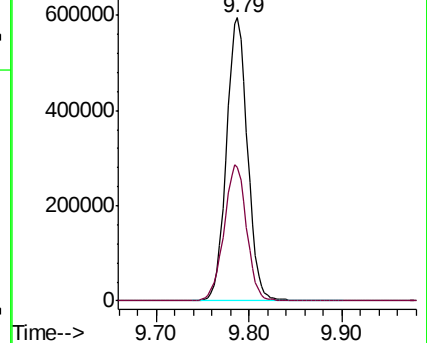
104 100

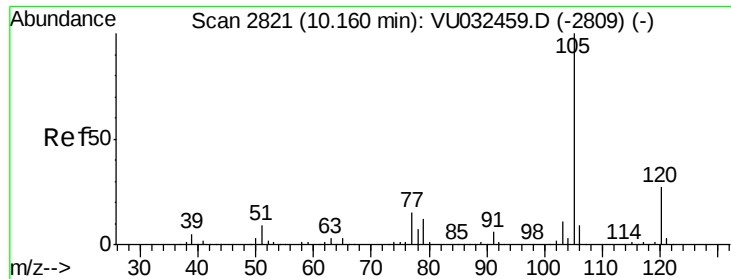
78 47.4 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 220.240 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

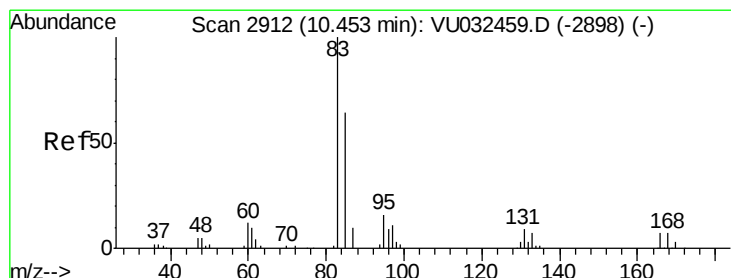
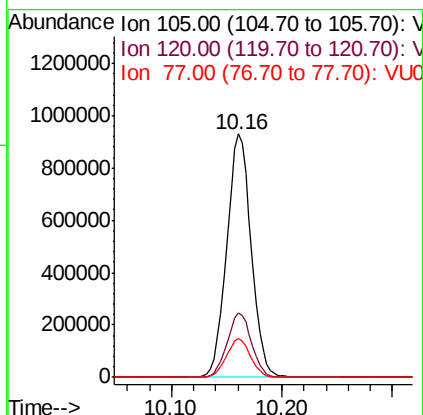
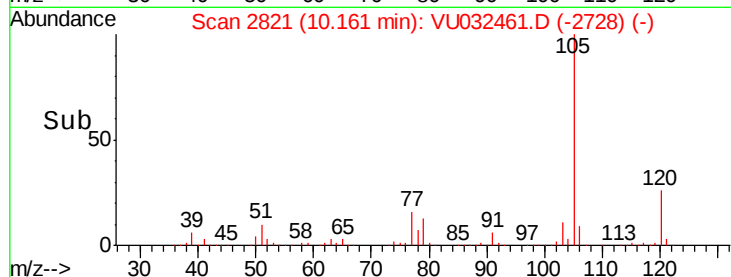
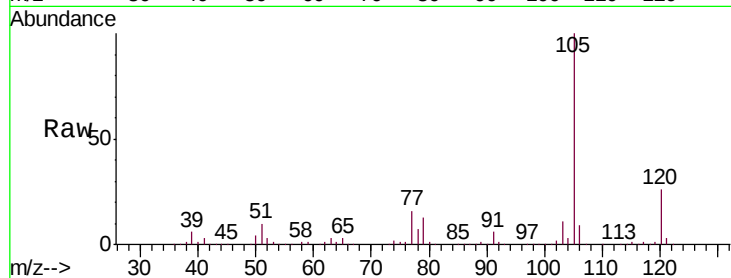
Tgt Ion:105 Resp: 1428750

Ion Ratio Lower Upper

105 100

120 26.4 21.6 32.4

77 15.8 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 209.886 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

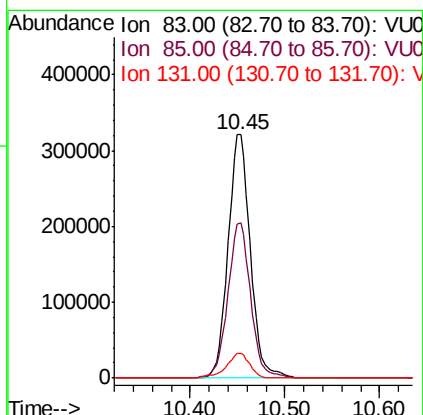
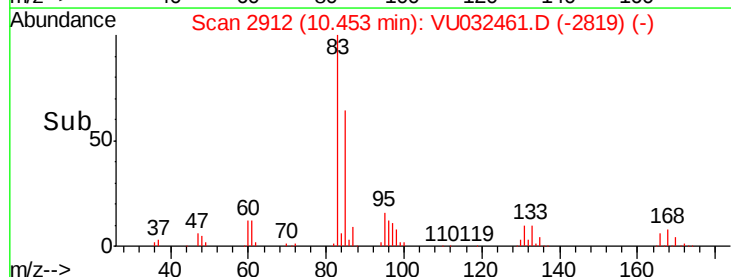
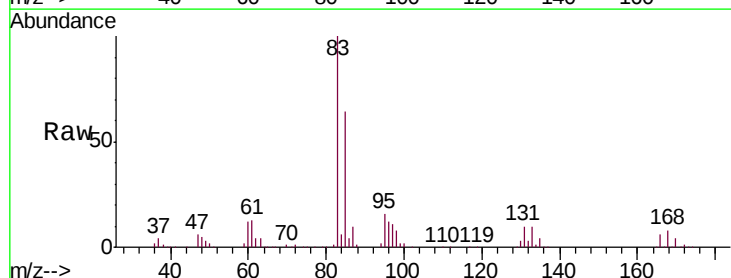
Tgt Ion: 83 Resp: 524535

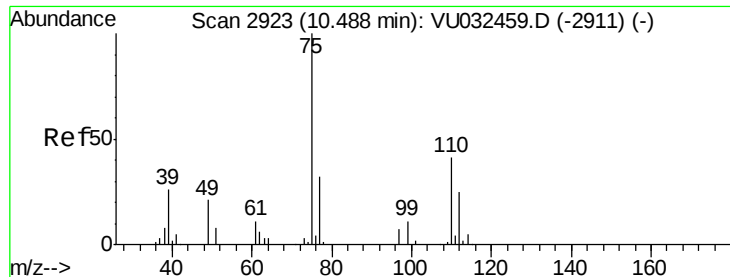
Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.7

131 10.2 7.9 11.9

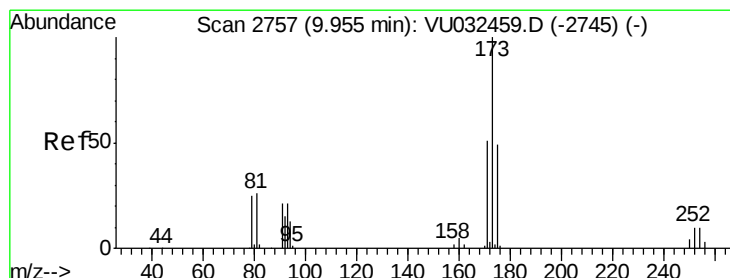
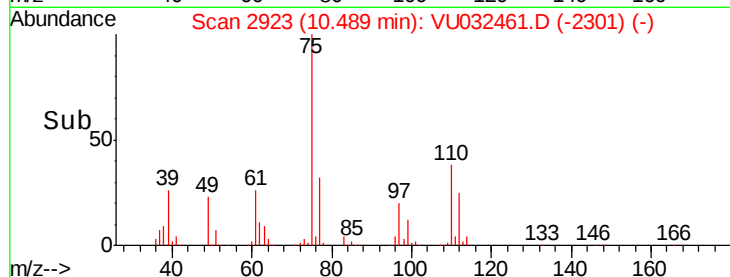
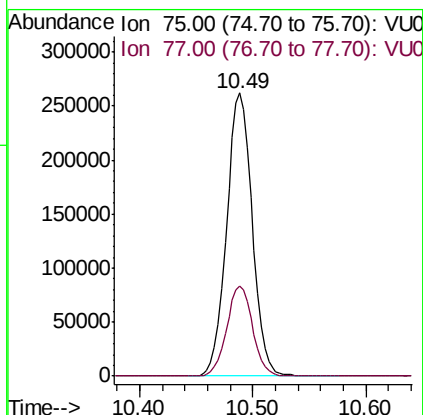
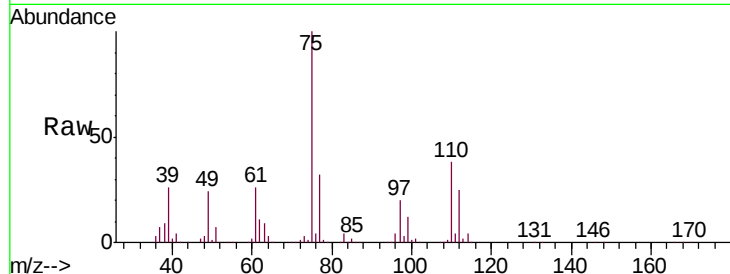




#59
 1,2,3-Trichloropropane
 Concen: 208.810 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

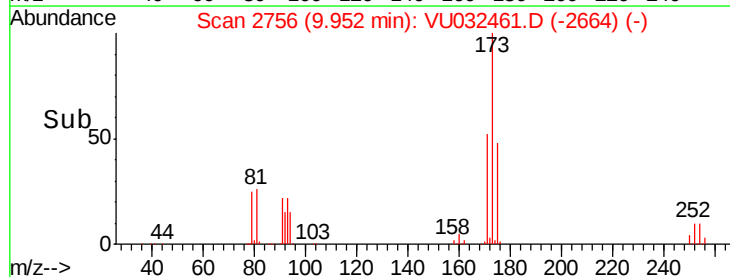
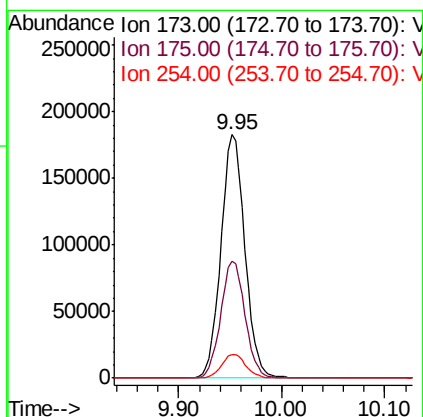
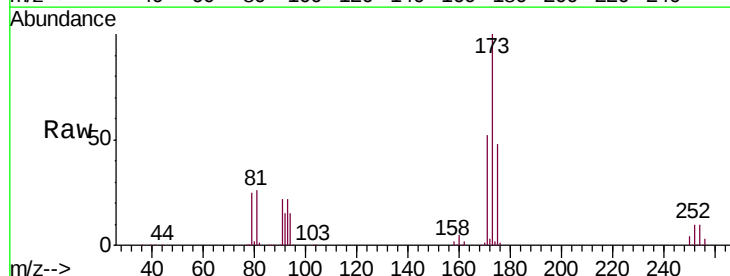
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

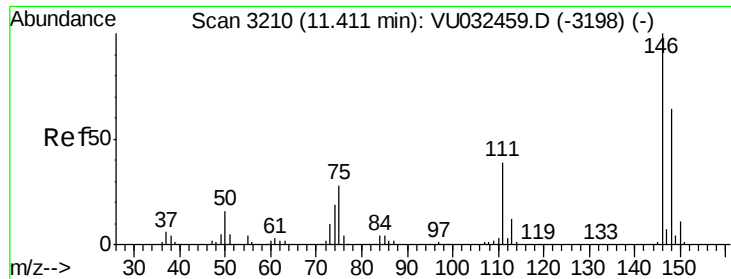
Tgt Ion: 75 Resp: 412015
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.6 38.4



#61
 Bromoform
 Concen: 204.722 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. -0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Tgt Ion: 173 Resp: 295666
 Ion Ratio Lower Upper
 173 100
 175 48.8 39.7 59.5
 254 9.8 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 197.854 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

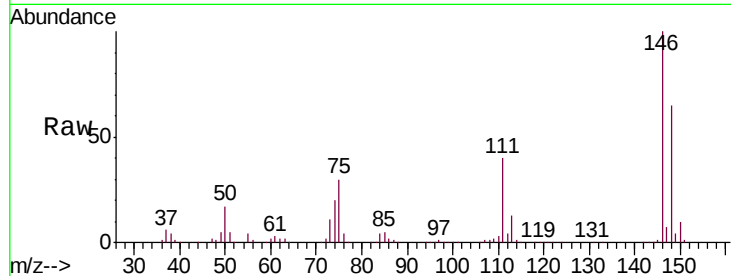
Tgt Ion:146 Resp: 688206

Ion Ratio Lower Upper

146 100

111 39.6 27.3 50.7

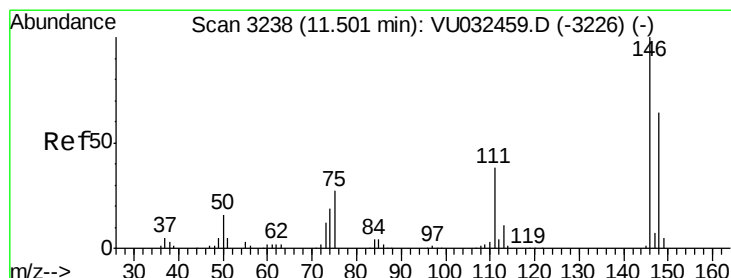
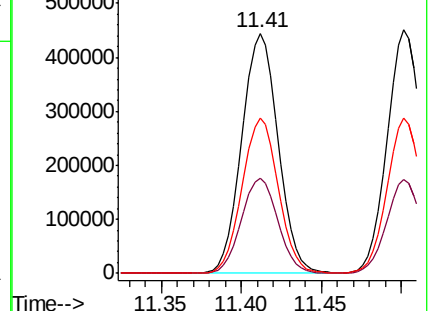
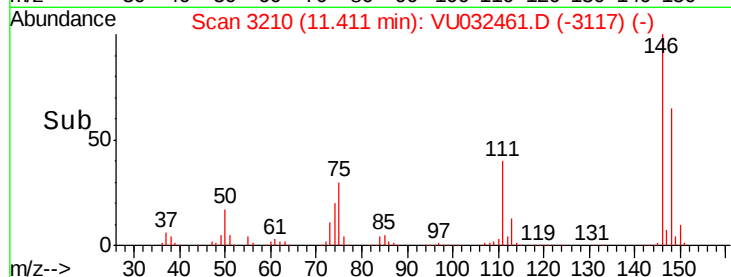
148 64.6 44.4 82.5



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: 196.118 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

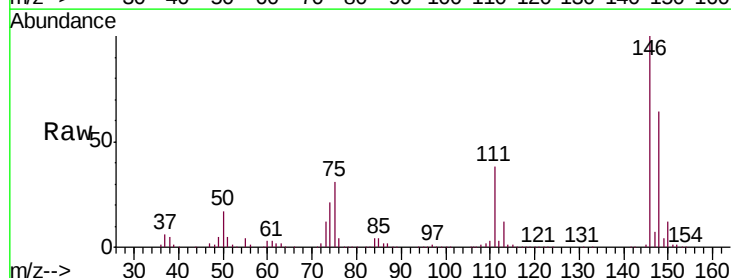
Tgt Ion:146 Resp: 696020

Ion Ratio Lower Upper

146 100

111 38.5 26.6 49.4

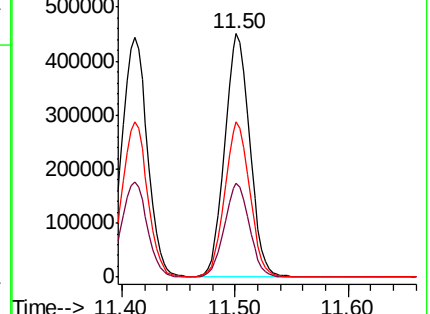
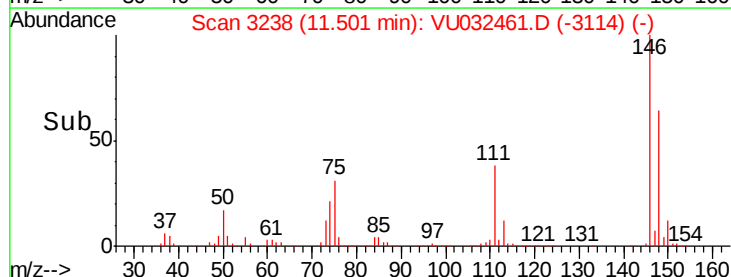
148 63.7 44.9 83.5

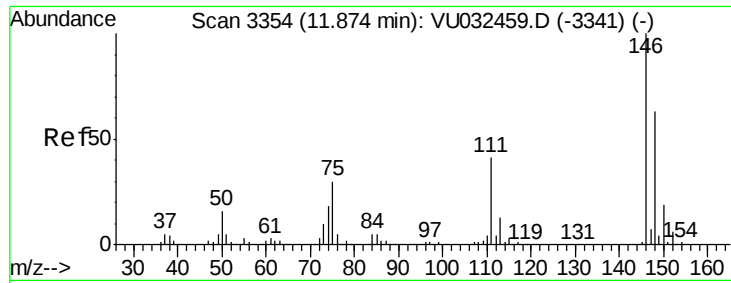


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 191.306 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

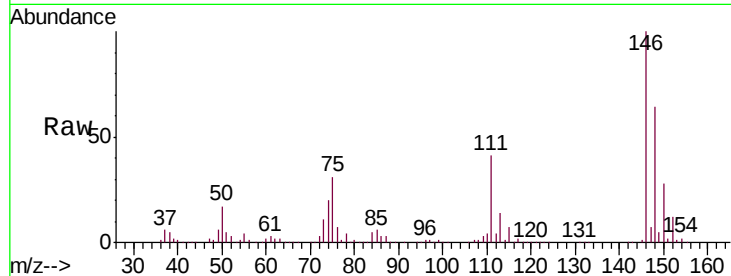
Tgt Ion: 146 Resp: 694106

Ion Ratio Lower Upper

146 100

111 40.9 32.6 48.8

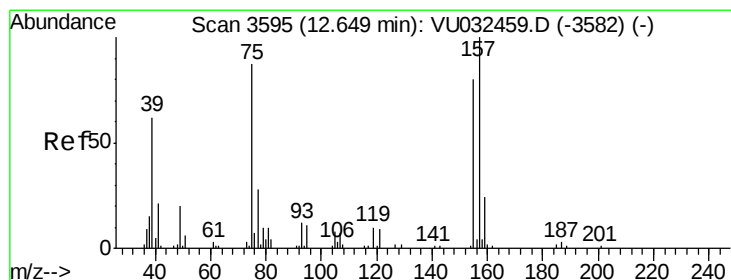
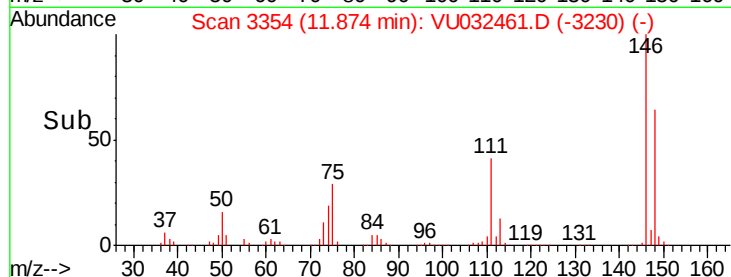
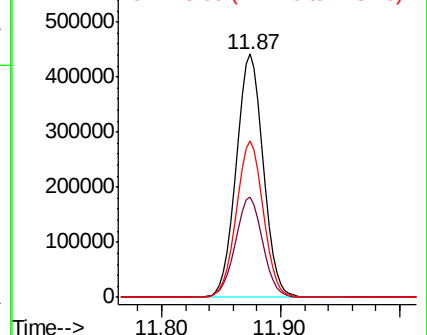
148 64.1 50.5 75.7



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



#66

1,2-Dibromo-3-chloropropane

Concen: 225.667 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

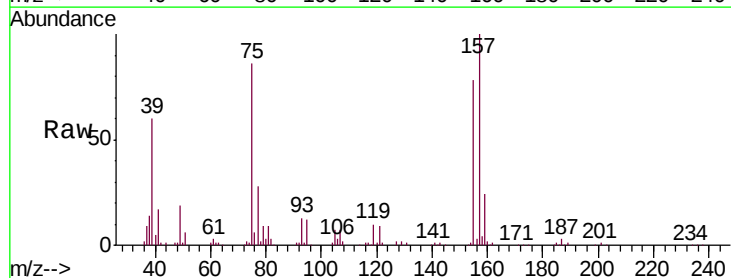
Tgt Ion: 75 Resp: 136452

Ion Ratio Lower Upper

75 100

155 90.8 73.1 109.7

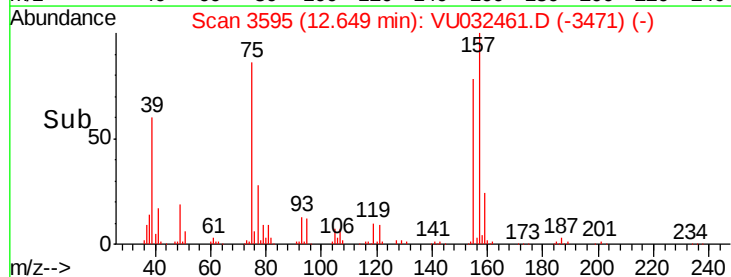
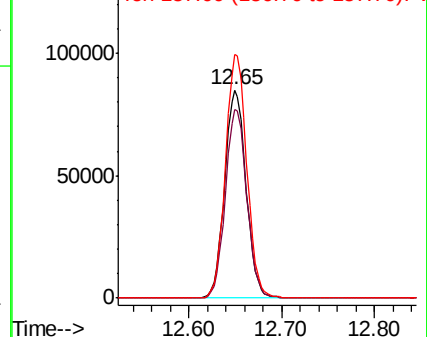
157 116.9 91.4 137.2

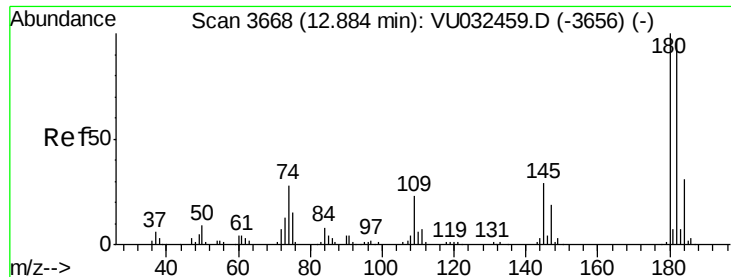


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

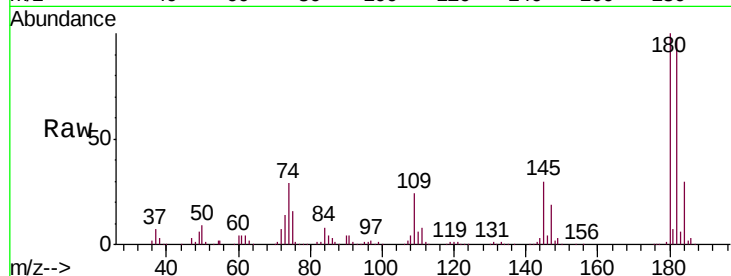




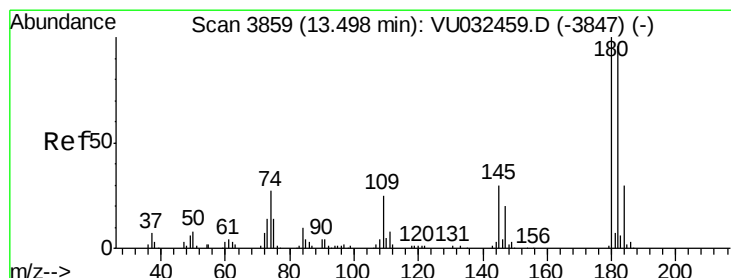
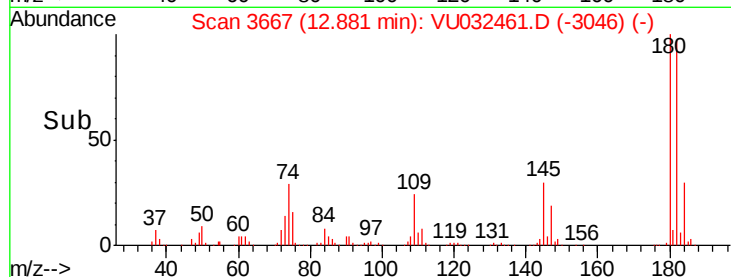
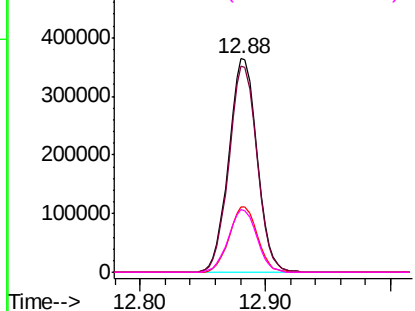
#67
 1,3,5-Trichlorobenzene
 Concen: 220.095 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. -0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20058

Tgt Ion:180 Resp: 570484
 Ion Ratio Lower Upper
 180 100
 182 95.8 78.2 117.4
 184 30.5 24.2 36.2
 145 29.4 23.9 35.9

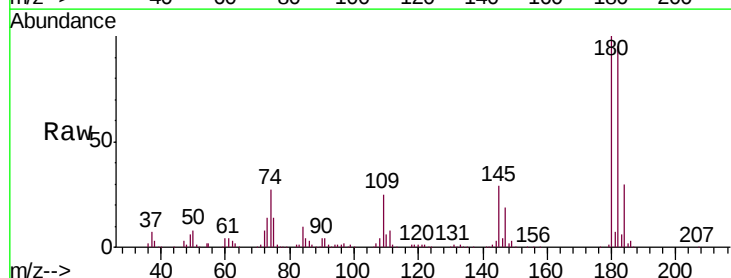


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

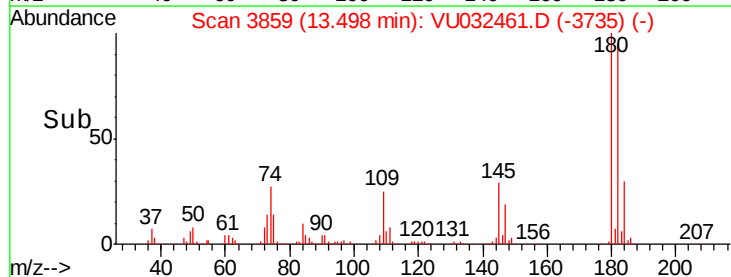
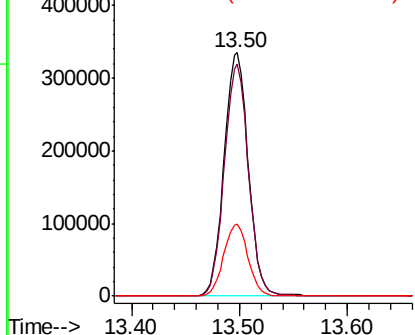


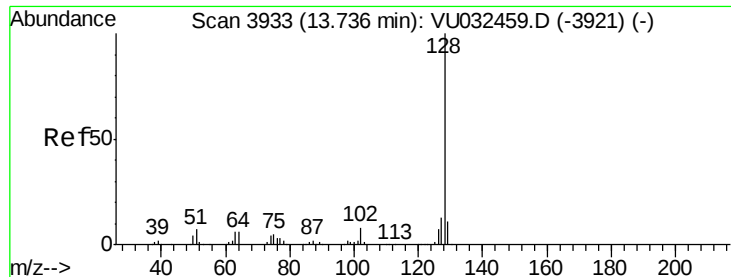
#68
 1,2,4-trichlorobenzene
 Concen: 256.516 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032461.D
 Acq: 05 Jun 2019 15:06

Tgt Ion:180 Resp: 525947
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.5 114.7
 145 29.8 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





#69

Naphthalene

Concen: 276.519 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD20058

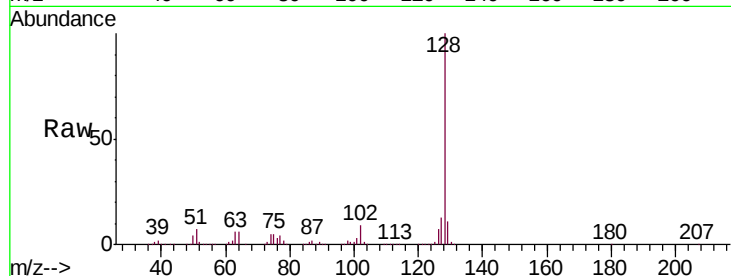
Tgt Ion:128 Resp: 1706728

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

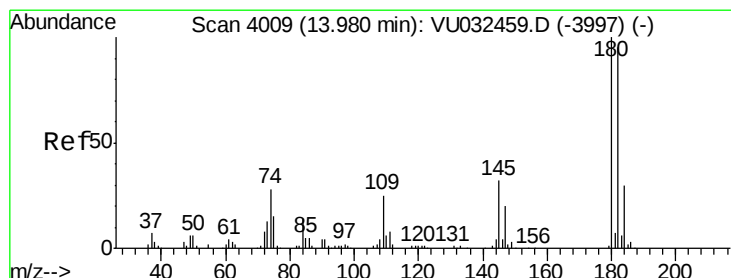
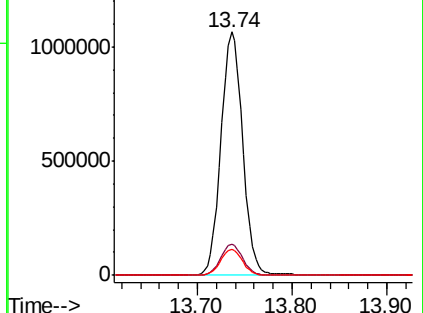
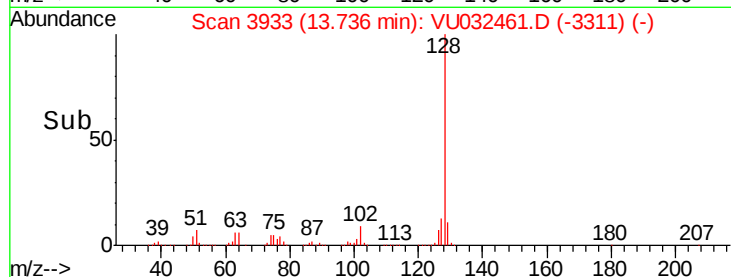
129 10.8 8.5 12.7



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: 236.169 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.00 min

Lab File: VU032461.D

Acq: 05 Jun 2019 15:06

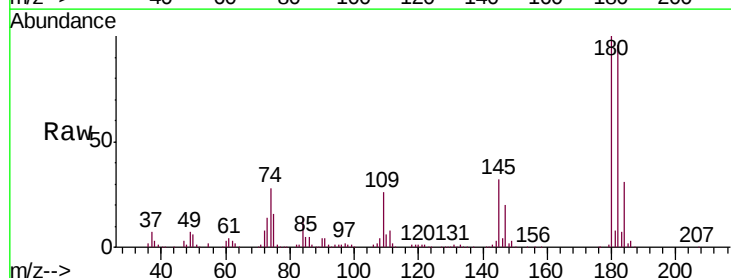
Tgt Ion:180 Resp: 514815

Ion Ratio Lower Upper

180 100

182 96.5 76.7 115.1

145 32.0 25.4 38.2



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

