

Data File : VU032457.D
Acq On : 05 Jun 2019 13:09
Operator : JC/SP
Sample : VSTD00554
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00554

Quant Time: Jun 06 02:06:02 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	216797	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	201009	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	101285	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	6908	4.44	ug/L	0.00
7) Chloroethane-d5	1.65	69	5418	4.29	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.26	63	13316	4.70	ug/L	0.00
21) 2-Butanone-d5	4.19	46	9997	9.24	ug/L	0.02
24) Chloroform-d	4.64	84	12535	4.53	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	8162	4.95	ug/L	0.00
32) Benzene-d6	5.33	84	25517	4.85	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	8134	4.96	ug/L	0.00
41) Toluene-d8	7.56	98	24156	4.91	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	3250	4.27	ug/L	0.00
47) 2-Hexanone-d5	8.32	63	6224	8.70	ug/L	0.01
57) 1,1,2,2-Tetrachloroethane-	10.43	84	10946	4.37	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	9879	4.84	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	9684	5.593	ug/L	99
3) Chloromethane	1.32	50	9232	5.097	ug/L	98
5) Vinyl chloride	1.40	62	9278	5.085	ug/L	98
6) Bromomethane	1.60	94	5566	4.806	ug/L	97
8) Chloroethane	1.67	64	5904	5.351	ug/L	94
9) Trichlorofluoromethane	1.87	101	12897	5.556	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6513	4.783	ug/L	93
12) 1,1-Dichloroethene	2.27	96	6084	4.419	ug/L	91
13) Acetone	2.32	43	12712	12.224	ug/L	97
14) Carbon disulfide	2.46	76	18869	4.549	ug/L	99
15) Methyl Acetate	2.61	43	7661	4.708	ug/L	99
16) Methylene chloride	2.69	84	7189	4.476	ug/L	97
17) trans-1,2-Dichloroethene	2.97	96	6792	4.739	ug/L	98
18) Methyl tert-butyl Ether	2.99	73	22648	5.150	ug/L	96
19) 1,1-Dichloroethane	3.43	63	12316	4.716	ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	4581	2.848	ug/L	96
22) 2-Butanone	4.27	43	12321	9.902	ug/L	86
23) Bromochloromethane	4.54	128	4010	4.720	ug/L	94
25) Chloroform	4.66	83	12841	4.747	ug/L	97
27) 1,2-Dichloroethane	5.40	62	10101	4.972	ug/L	97
29) Cyclohexane	4.99	56	11688	5.560	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	10882	5.054	ug/L	98
31) Carbon tetrachloride	5.13	117	9818	5.274	ug/L	96
33) Benzene	5.38	78	27749	4.923	ug/L	100
34) Trichloroethene	6.18	95	7688	5.259	ug/L	96
35) Methylcyclohexane	6.41	83	12481	5.560	ug/L	99
37) 1,2-Dichloropropane	6.43	63	7299	4.953	ug/L	# 95
38) Bromodichloromethane	6.75	83	8889	4.675	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	10735	4.868	ug/L	95
40) 4-Methyl-2-pentanone	7.46	43	21520	10.658	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	30043	4.903	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	9002	4.632	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	6748	4.684	ug/L	96
46) Tetrachloroethene	8.23	164	6351	5.306	ug/L	95
48) 2-Hexanone	8.36	43	17833	10.800	ug/L	95
49) Dibromochloromethane	8.47	129	7292	4.609	ug/L	96
50) 1,2-Dibromoethane	8.58	107	7412	4.837	ug/L	94
51) Chlorobenzene	9.12	112	19377	4.899	ug/L	99
52) Ethylbenzene	9.25	91	33171	5.046	ug/L	98
53) m,p-Xylene	9.37	106	12395	4.930	ug/L	95
54) o-xylene	9.77	106	12508	4.955	ug/L	98
55) Styrene	9.79	104	19976	4.729	ug/L	97
56) Isopropylbenzene	10.16	105	32354	5.013	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	11066	4.451	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	9214	4.694	ug/L	95
61) Bromoform	9.96	173	5462	4.242	ug/L #	93
62) 1,3-Dichlorobenzene	11.41	146	15278	4.927	ug/L	96
63) 1,4-Dichlorobenzene	11.50	146	16511	5.219	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	15467	4.782	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	2097	3.890	ug/L	89
67) 1,3,5-Trichlorobenzene	12.89	180	10566	4.573	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	7407	4.052	ug/L #	87
69) Naphthalene	13.75	128	16594	3.016	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	8261	4.251	ug/L	91

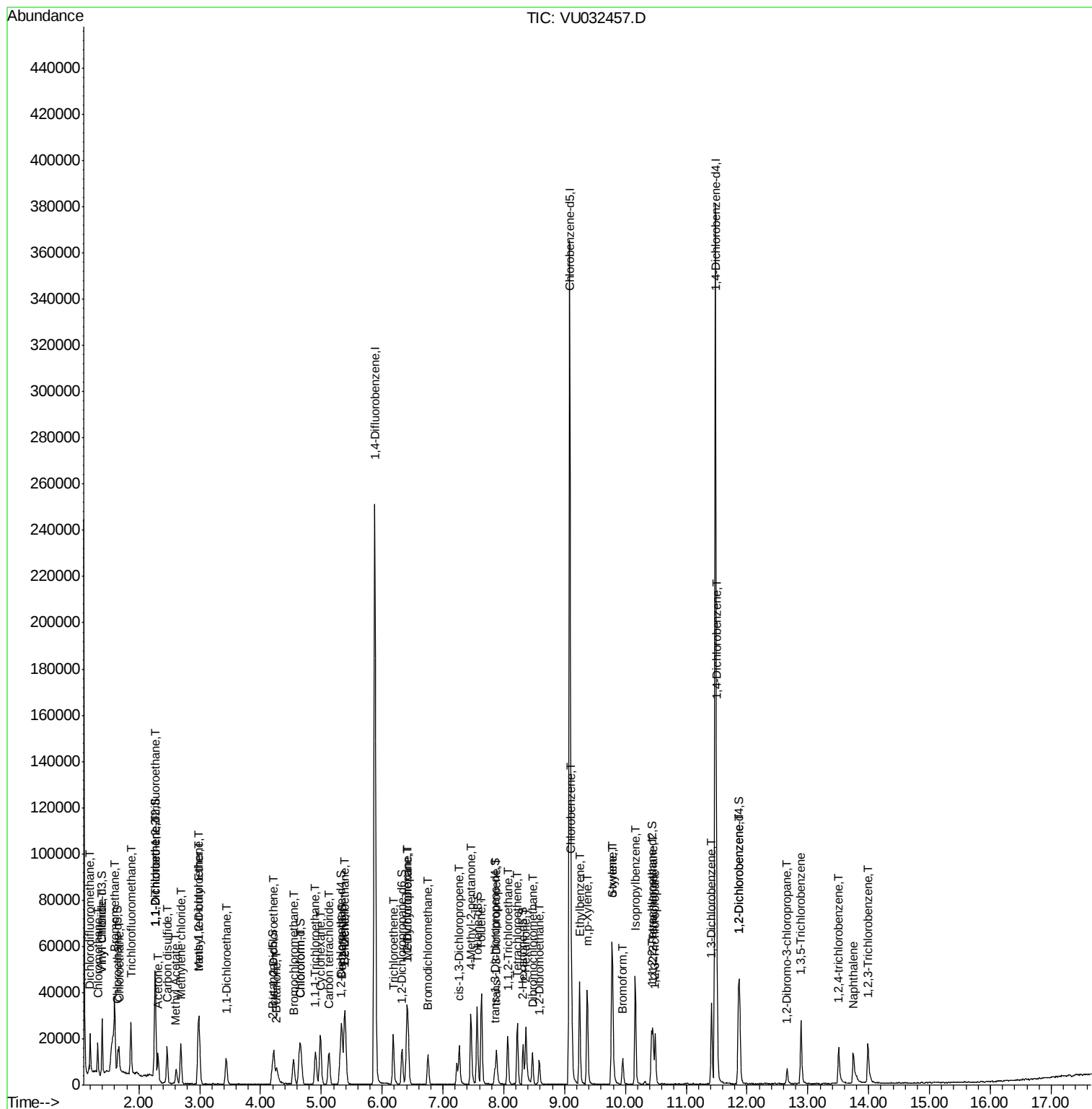
(#) = qualifier out of range (m) = manual integration (+) = signals summed

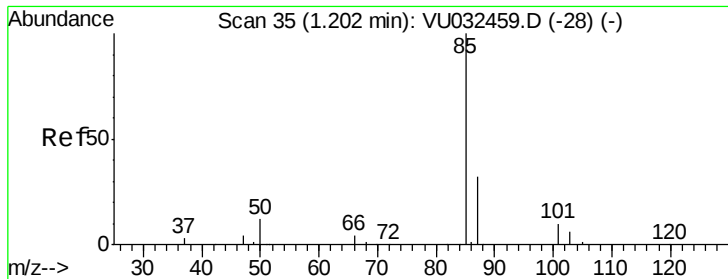
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#2

Dichlorodifluoromethane

Concen: 5.593 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

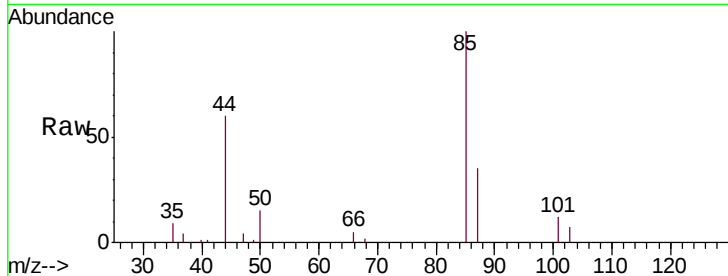
VSTD00554

Tgt Ion: 85 Resp: 9684

Ion Ratio Lower Upper

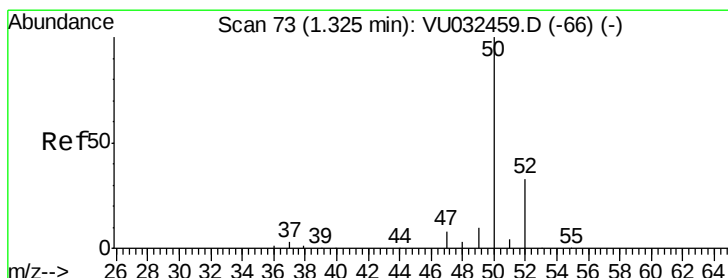
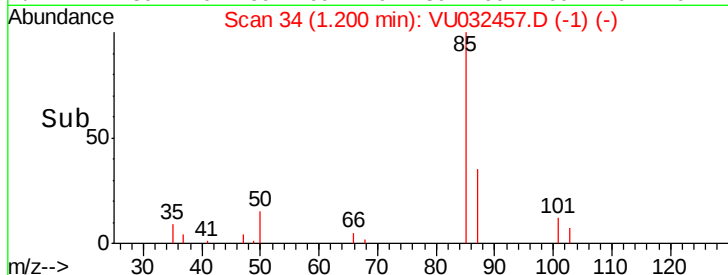
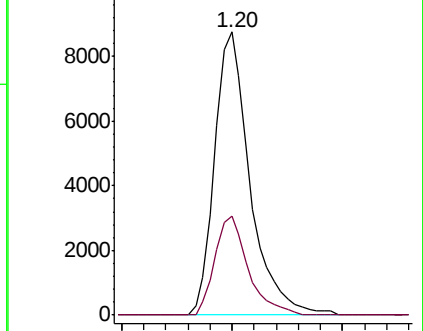
85 100

87 33.0 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) (-)



#3

Chloromethane

Concen: 5.097 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU032457.D

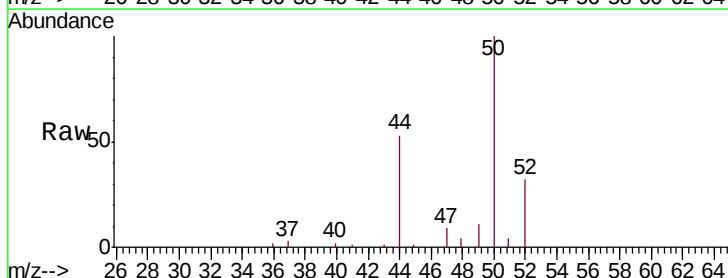
Acq: 05 Jun 2019 13:09

Tgt Ion: 50 Resp: 9232

Ion Ratio Lower Upper

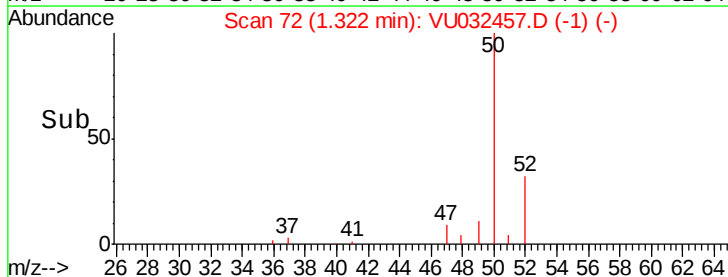
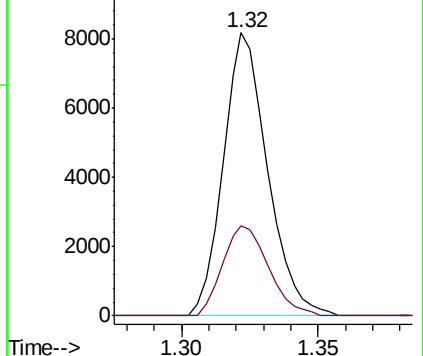
50 100

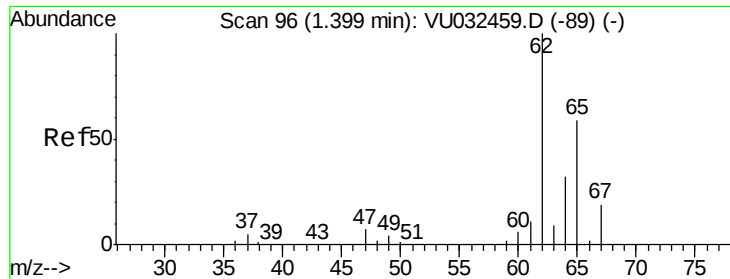
52 31.8 23.0 42.6



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

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





#5

Vinyl chloride

Concen: 5.085 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

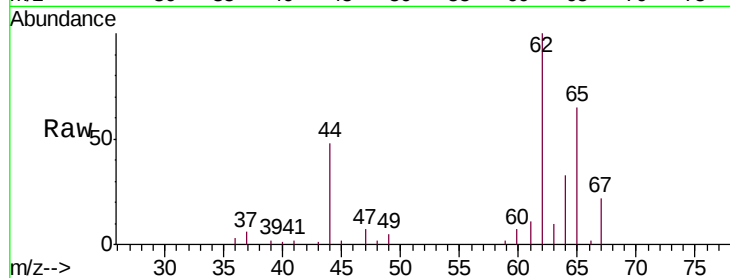
VSTD00554

Tgt Ion: 62 Resp: 9278

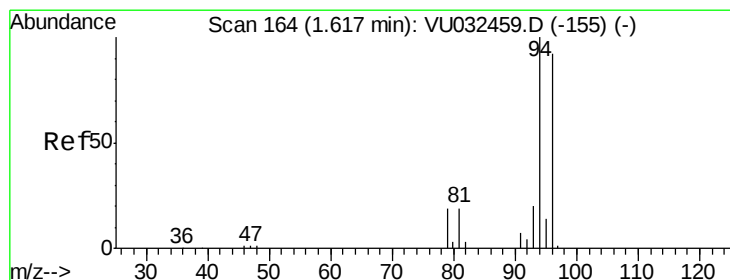
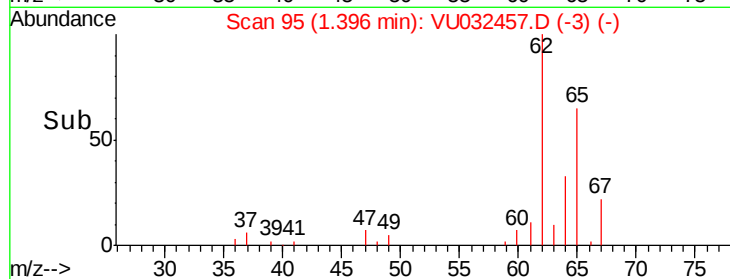
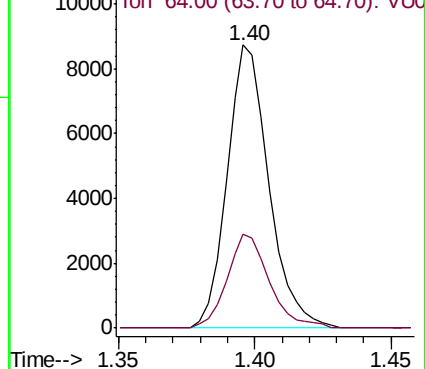
Ion Ratio Lower Upper

62 100

64 33.2 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU032457.D (-3) (-)



#6

Bromomethane

Concen: 4.806 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.02 min

Lab File: VU032457.D

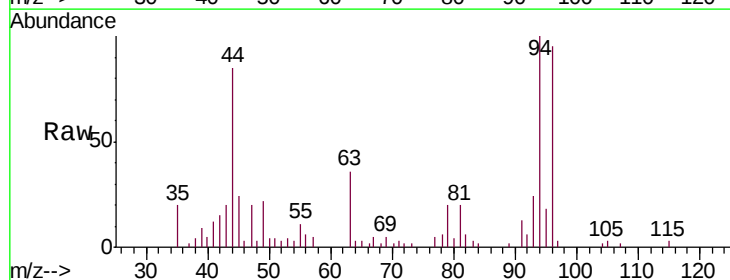
Acq: 05 Jun 2019 13:09

Tgt Ion: 94 Resp: 5566

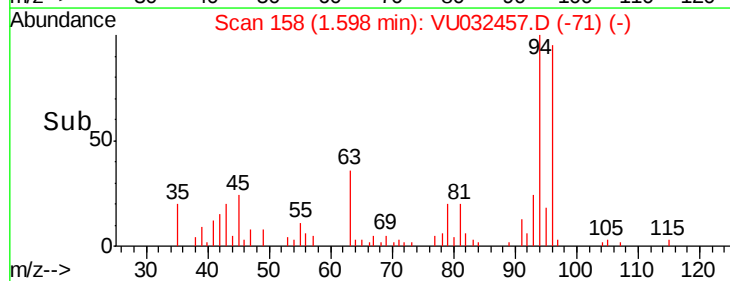
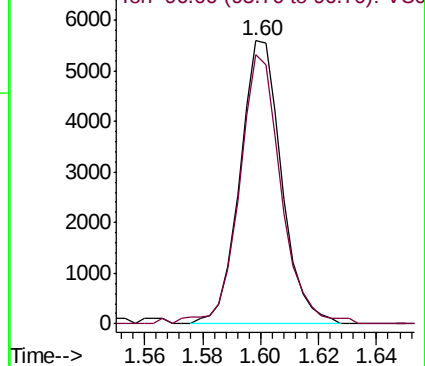
Ion Ratio Lower Upper

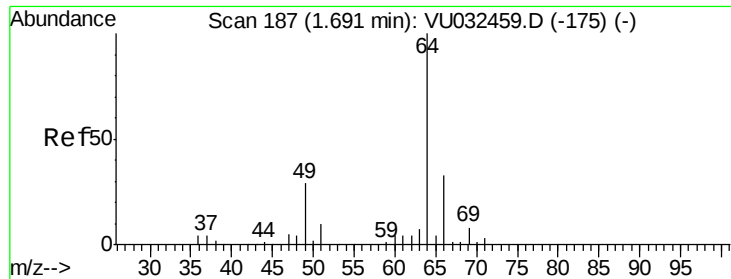
94 100

96 95.2 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU032457.D (-71) (-)





#8

Chloroethane

Concen: 5.351 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

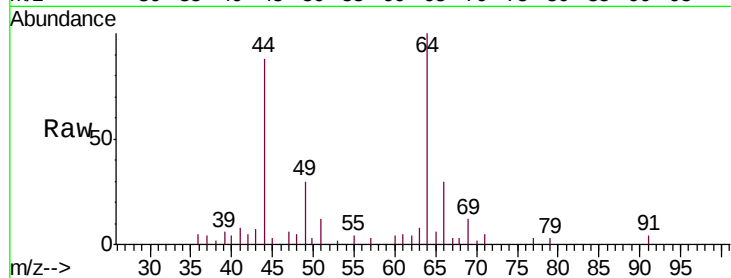
VSTD00554

Tgt Ion: 64 Resp: 5904

Ion Ratio Lower Upper

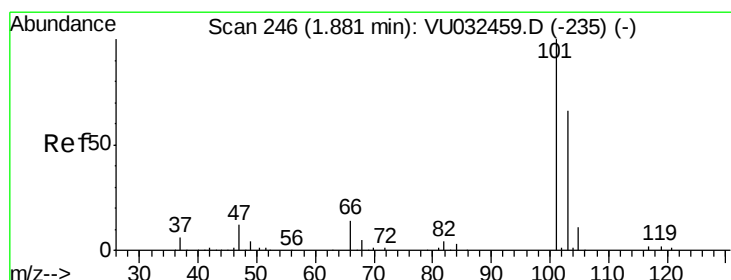
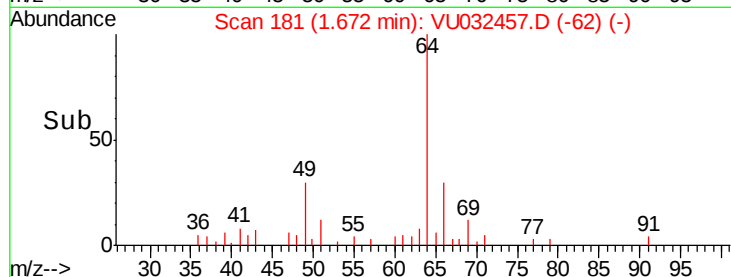
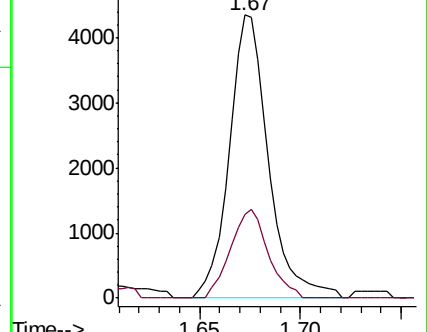
64 100

66 29.6 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) (-)



#9

Trichlorofluoromethane

Concen: 5.556 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU032457.D

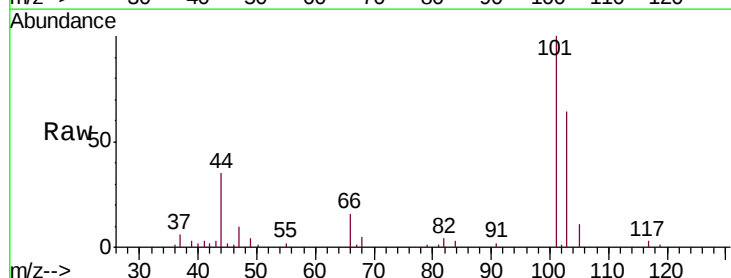
Acq: 05 Jun 2019 13:09

Tgt Ion: 101 Resp: 12897

Ion Ratio Lower Upper

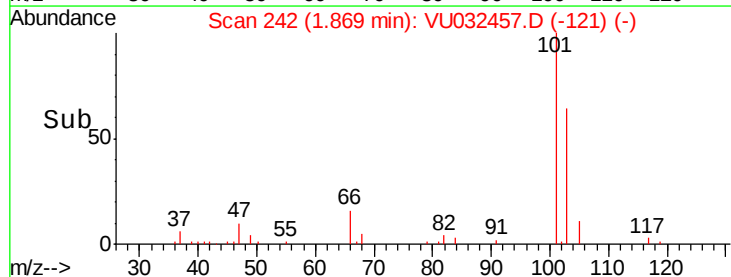
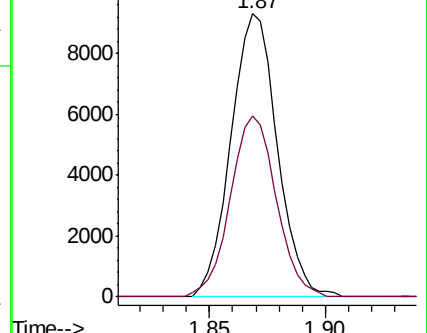
101 100

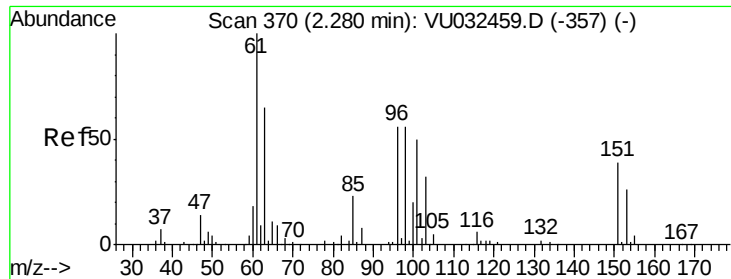
103 63.4 52.5 78.7



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

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





#10

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

Concen: 4.783 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

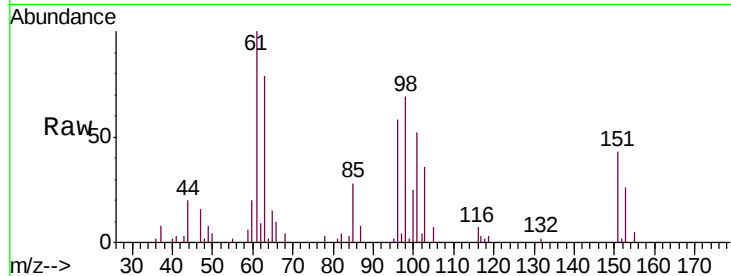
Tgt Ion:101 Resp: 6513

Ion Ratio Lower Upper

101 100

85 49.6 36.1 54.1

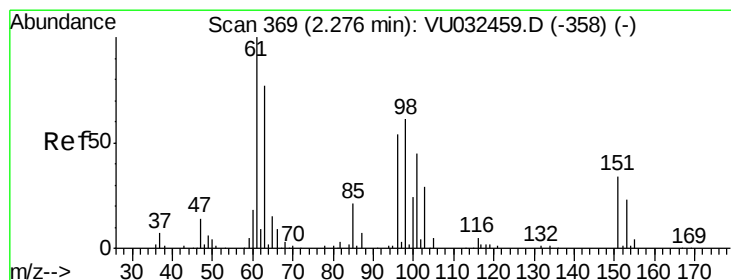
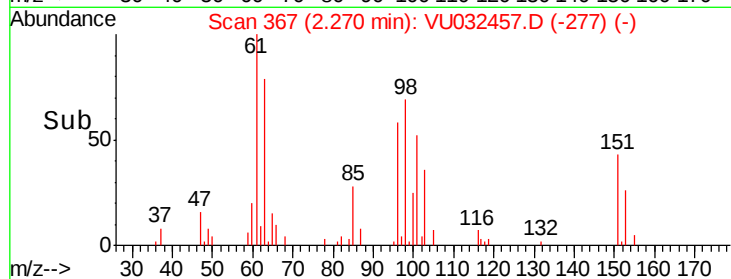
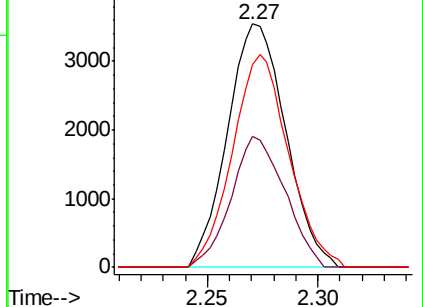
151 84.4 63.0 94.4



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: 4.419 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

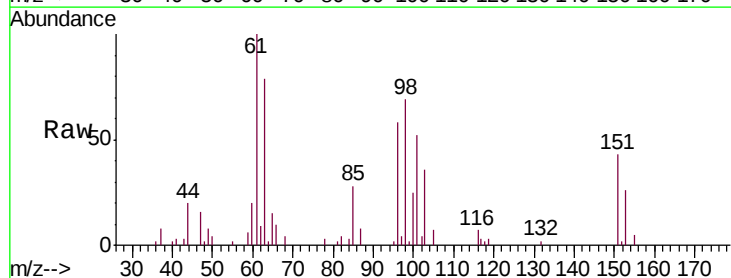
Tgt Ion: 96 Resp: 6084

Ion Ratio Lower Upper

96 100

61 172.6 129.5 240.5

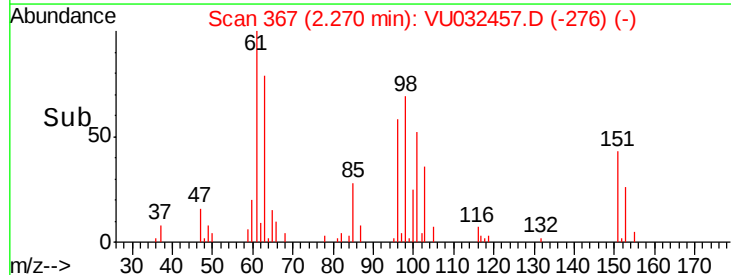
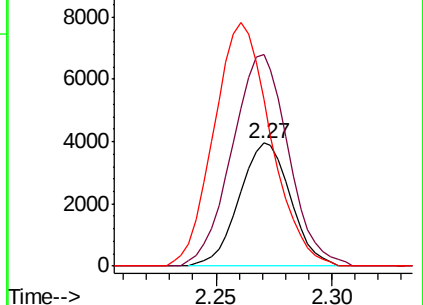
63 136.1 103.4 192.0

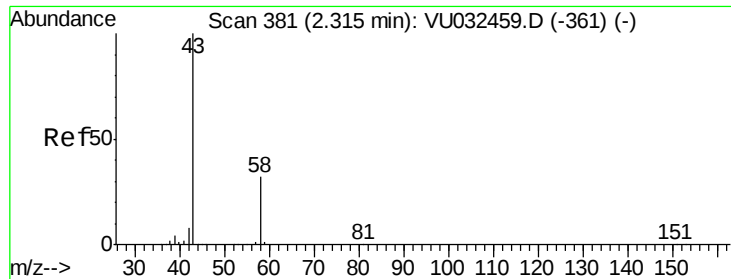


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 12.224 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

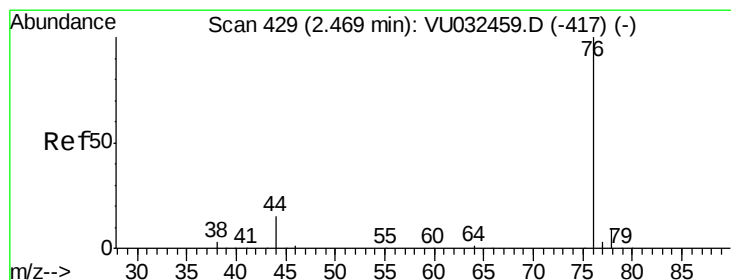
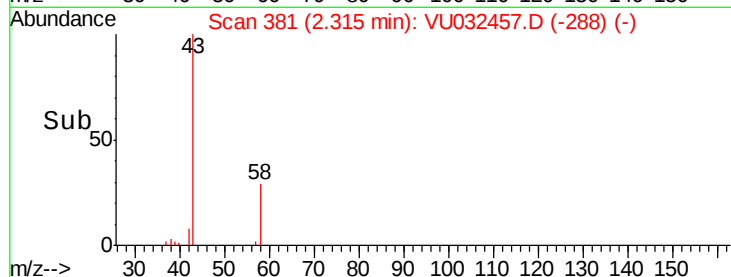
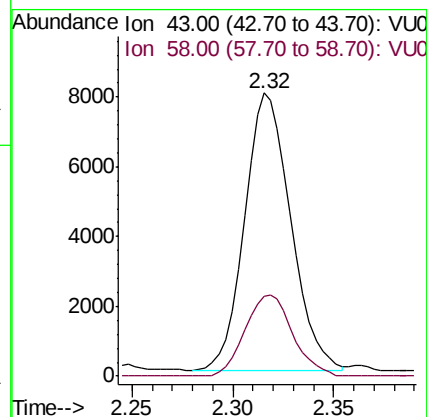
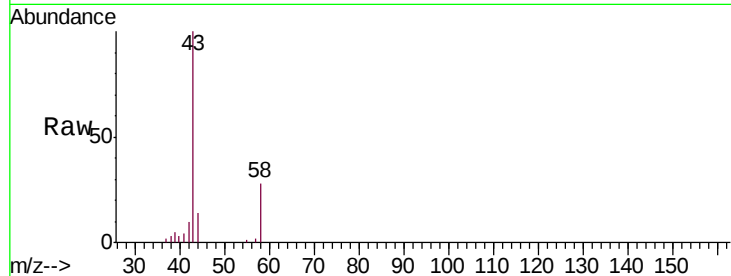
VSTD00554

Tgt Ion: 43 Resp: 12712

Ion Ratio Lower Upper

43 100

58 30.2 0.0 64.0



#14

Carbon disulfide

Concen: 4.549 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.01 min

Lab File: VU032457.D

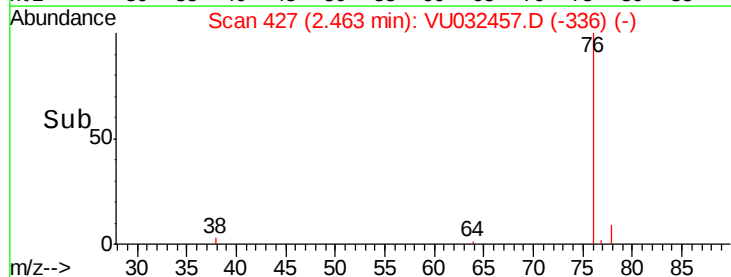
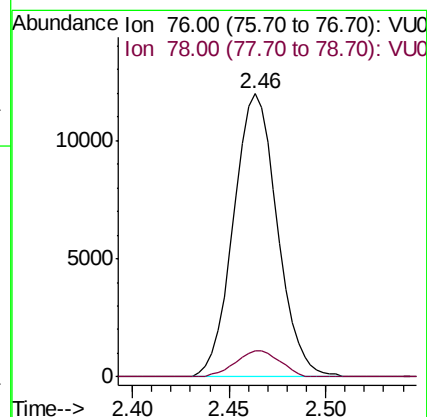
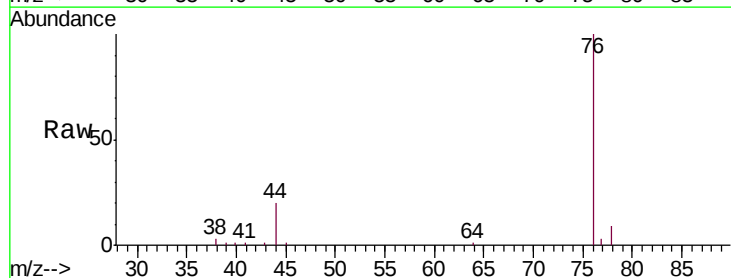
Acq: 05 Jun 2019 13:09

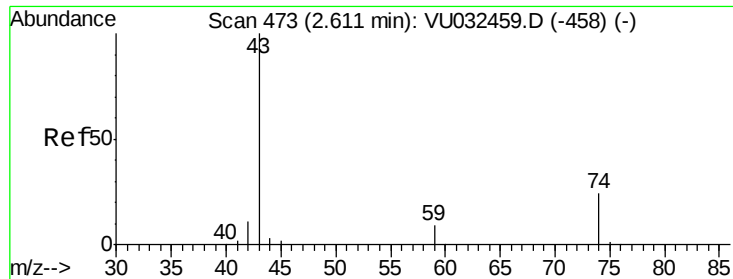
Tgt Ion: 76 Resp: 18869

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4

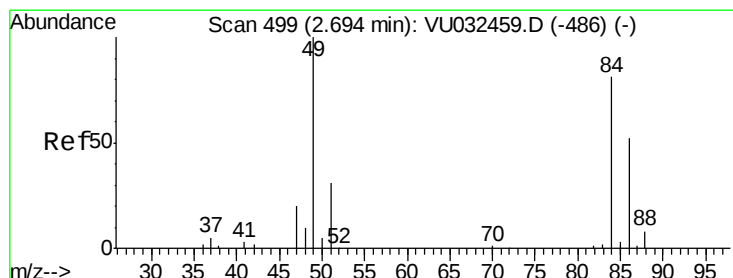
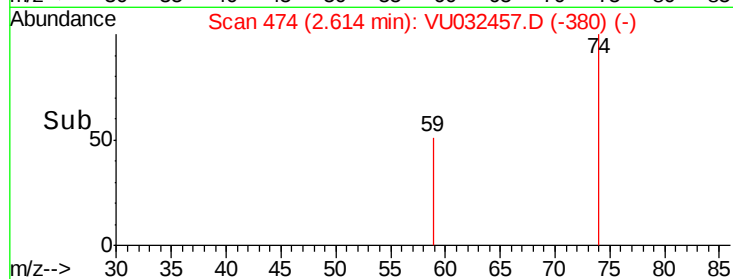
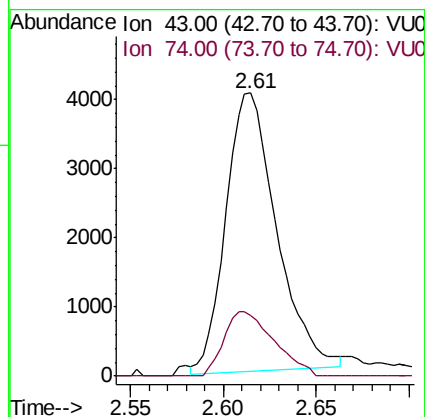
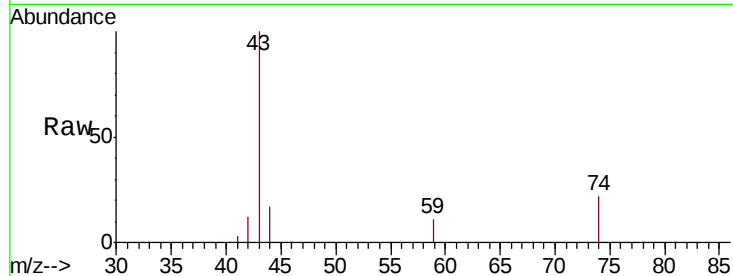




#15
Methyl Acetate
Concen: 4.708 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

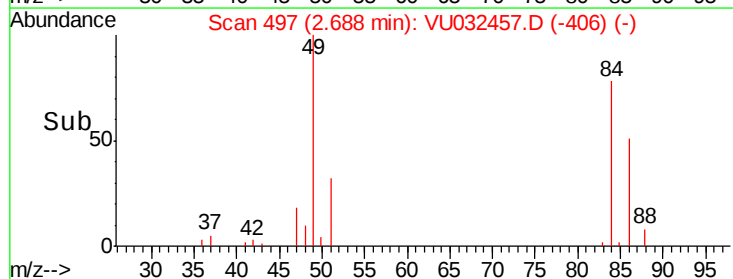
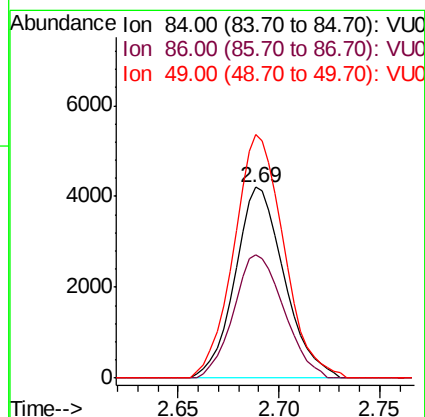
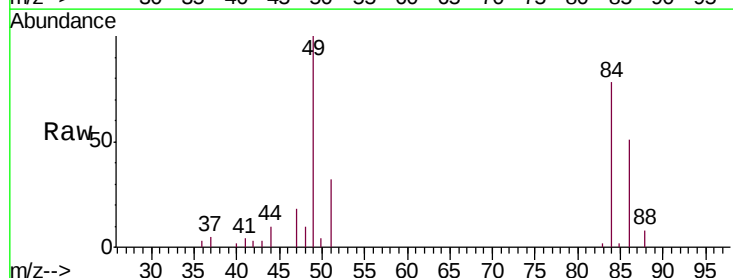
Instrument :
MSVOA_U
ClientSampleId :
VSTD00554

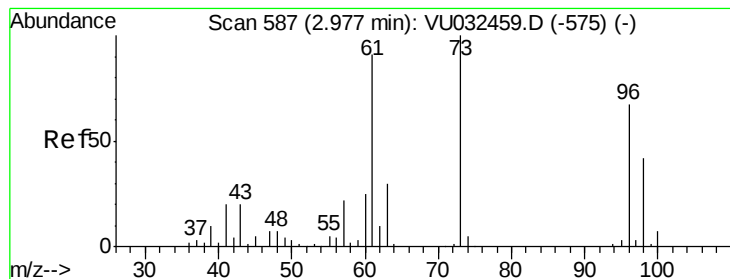
Tgt Ion: 43 Resp: 7661
Ion Ratio Lower Upper
43 100
74 23.0 18.0 27.0



#16
Methylene chloride
Concen: 4.476 ug/L
RT: 2.69 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

Tgt Ion: 84 Resp: 7189
Ion Ratio Lower Upper
84 100
86 64.6 44.7 82.9
49 127.6 86.1 159.9





#17

trans-1,2-Dichloroethene

Concen: 4.739 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

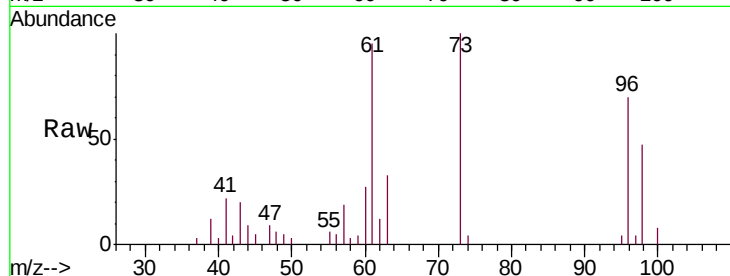
Tgt Ion: 96 Resp: 6792

Ion Ratio Lower Upper

96 100

61 135.6 95.7 177.7

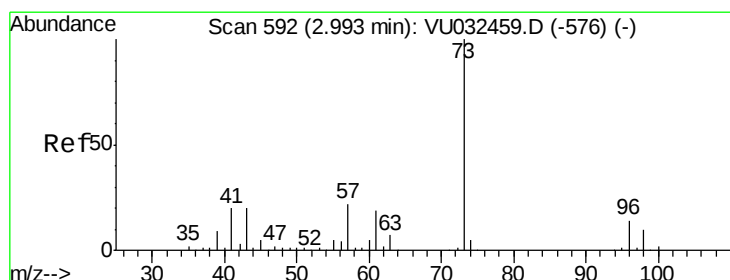
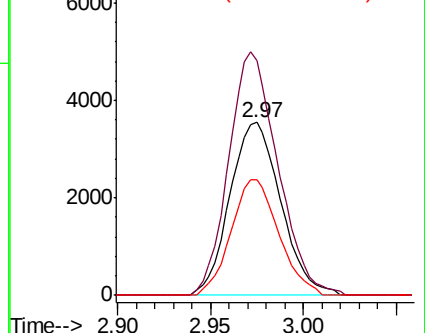
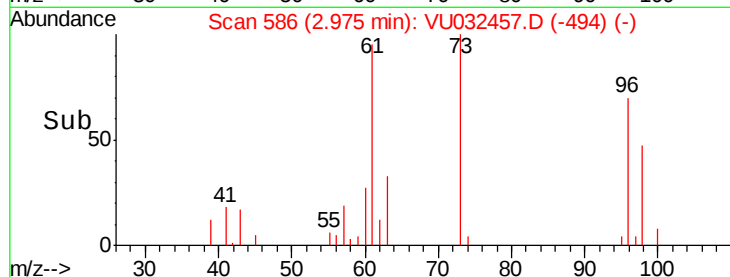
98 67.0 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU032457.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032457.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032457.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 5.150 ug/L

RT: 2.99 min Scan# 591

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

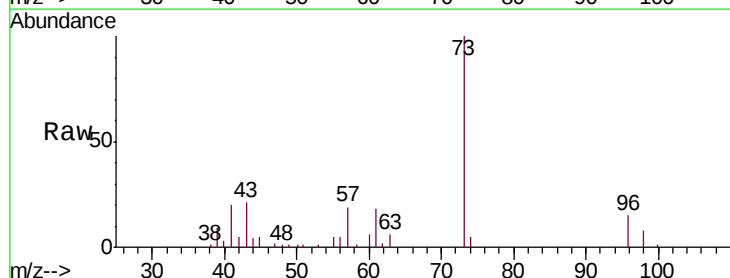
Tgt Ion: 73 Resp: 22648

Ion Ratio Lower Upper

73 100

43 20.7 15.8 23.6

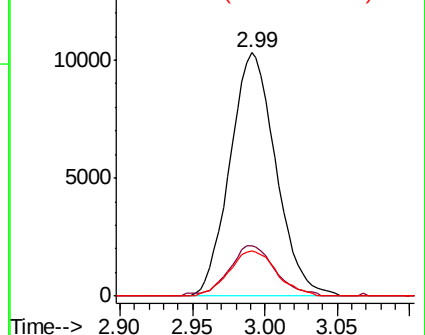
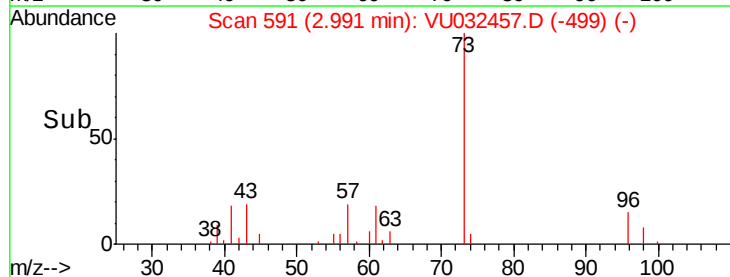
57 19.2 17.6 26.4

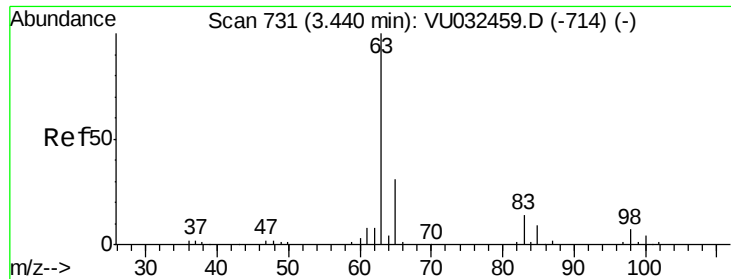


Abundance Ion 73.00 (72.70 to 73.70): VU032457.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU032457.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU032457.D (-499) (-)

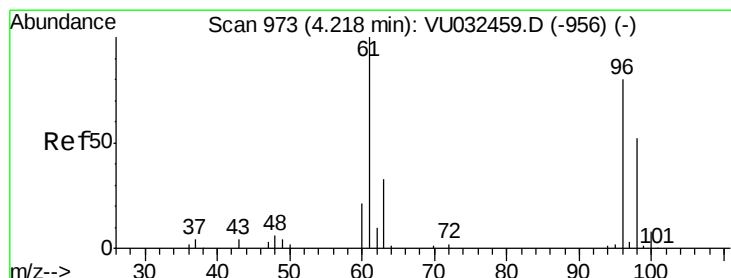
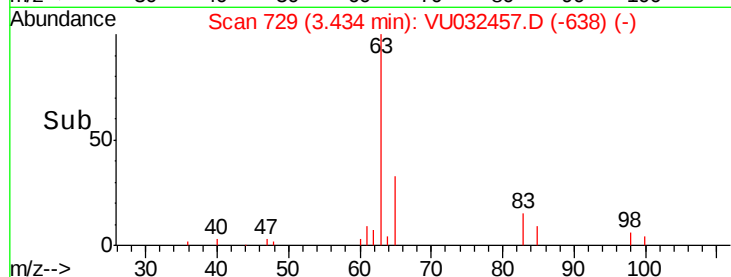
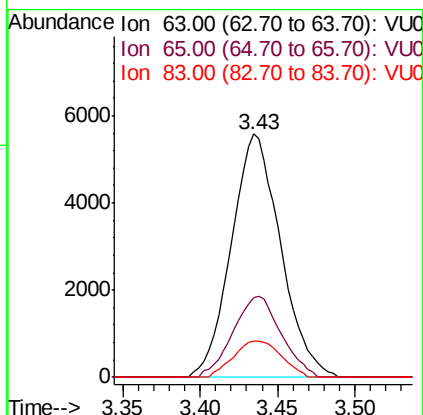
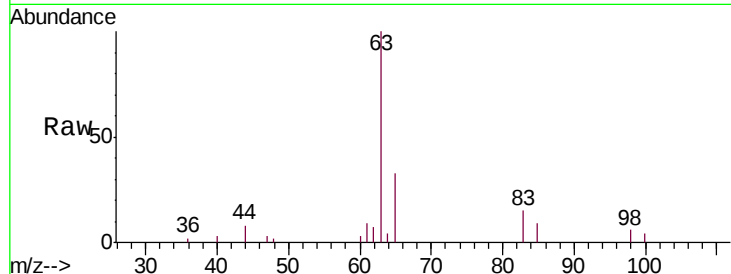




#19
 1,1-Dichloroethane
 Concen: 4.716 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. -0.01 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

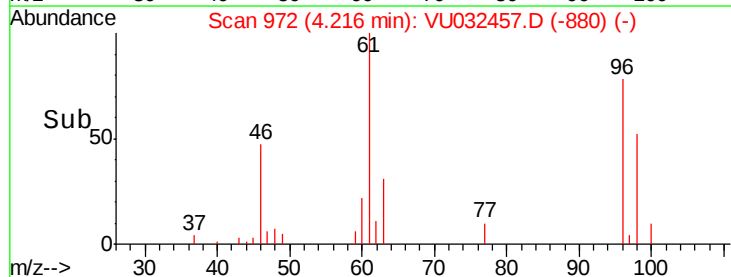
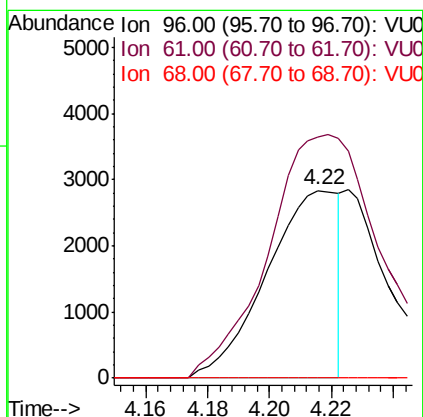
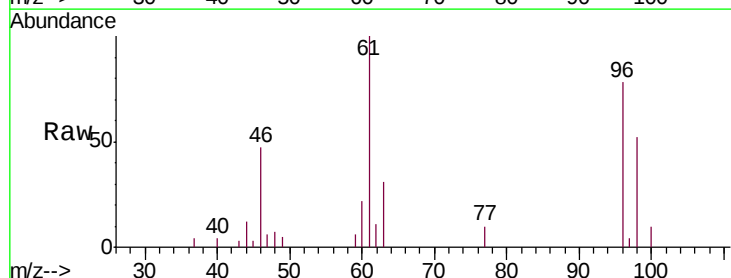
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

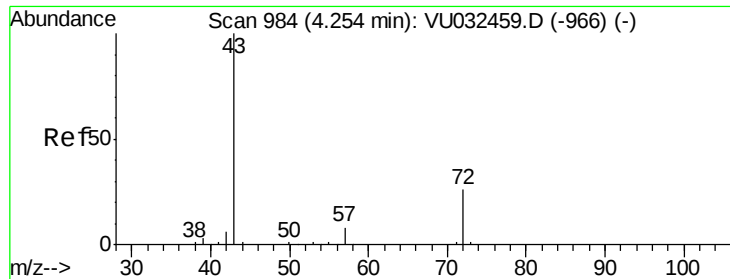
Tgt Ion: 63 Resp: 12316
 Ion Ratio Lower Upper
 63 100
 65 32.5 21.8 40.6
 83 15.1 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 2.848 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion: 96 Resp: 4581
 Ion Ratio Lower Upper
 96 100
 61 128.9 87.2 162.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.902 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.02 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

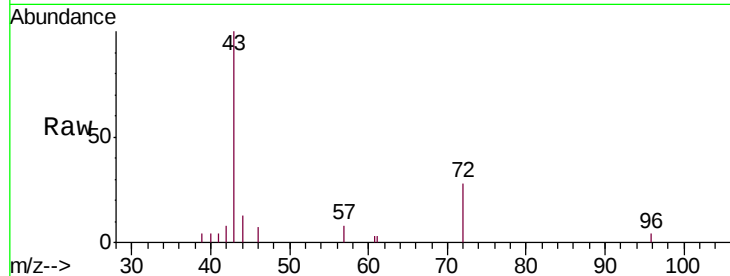
VSTD00554

Tgt Ion: 43 Resp: 12321

Ion Ratio Lower Upper

43 100

72 19.1 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032457.D (-891) (-)

Ion 72.00 (71.70 to 72.70): VU032457.D (-891) (-)

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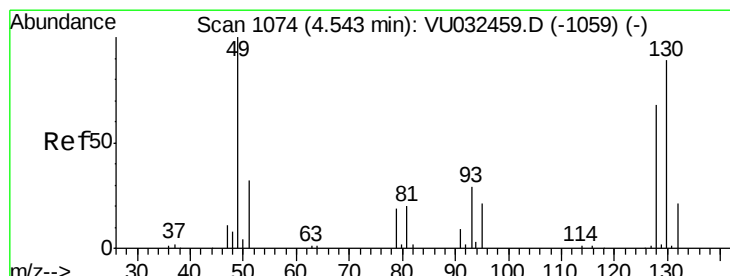
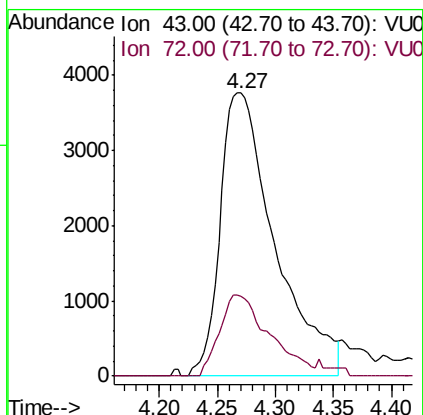
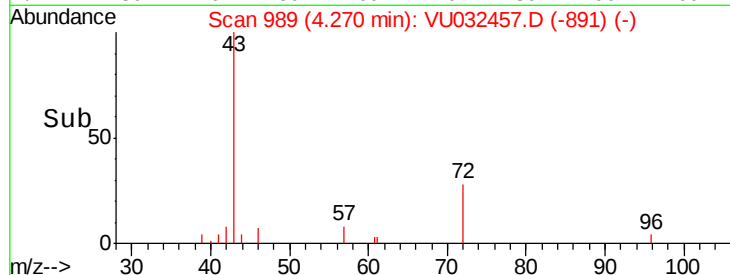
4.27

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4.27



#23

Bromochloromethane

Concen: 4.720 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Tgt Ion: 128 Resp: 4010

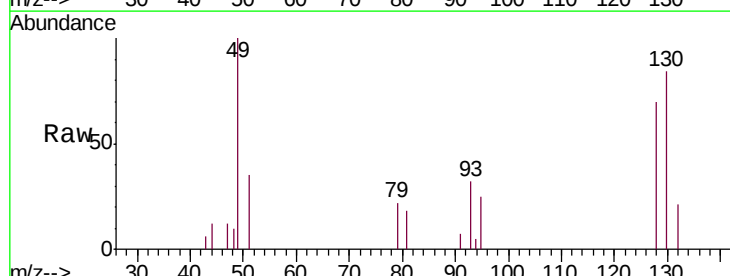
Ion Ratio Lower Upper

128 100

49 142.8 103.7 192.5

130 120.4 92.2 171.2

51 49.5 37.7 56.5



Abundance Ion 128.00 (127.70 to 128.70): VU032457.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU032457.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU032457.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU032457.D (-981) (-)

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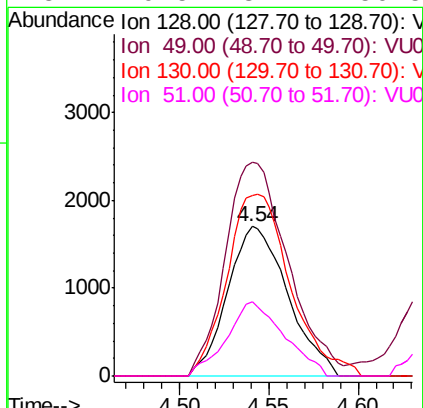
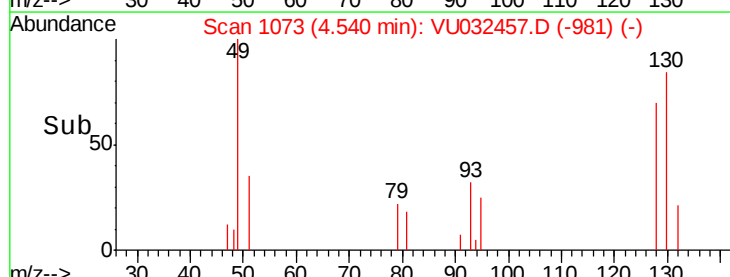
4.54

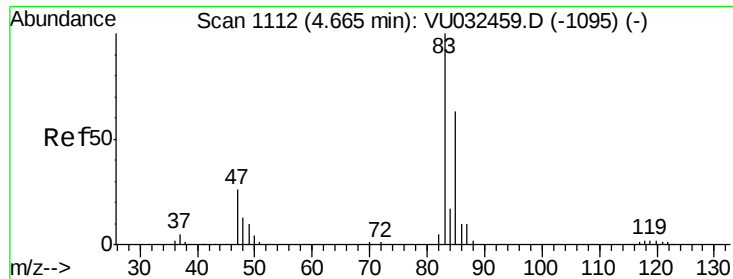
4.54

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4.54

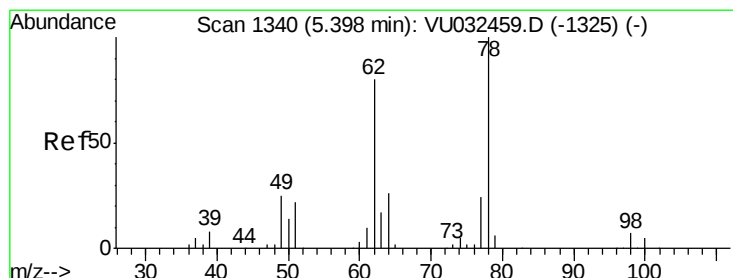
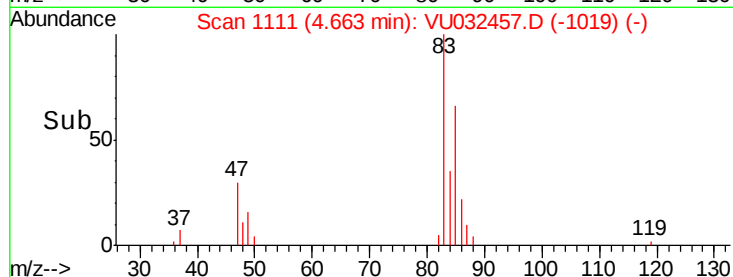
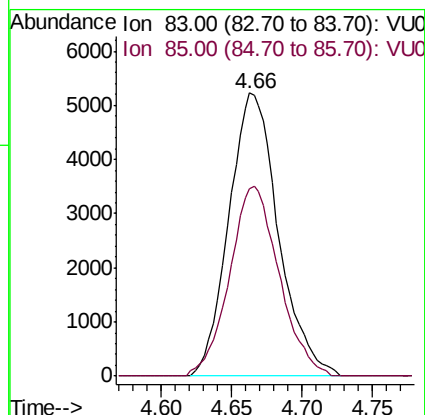
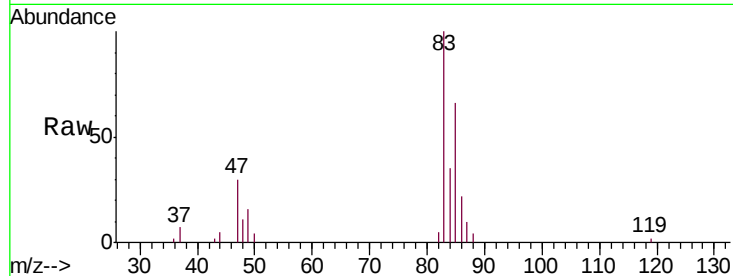




#25
Chloroform
Concen: 4.747 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

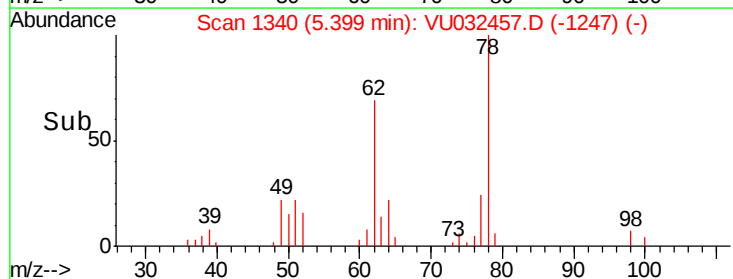
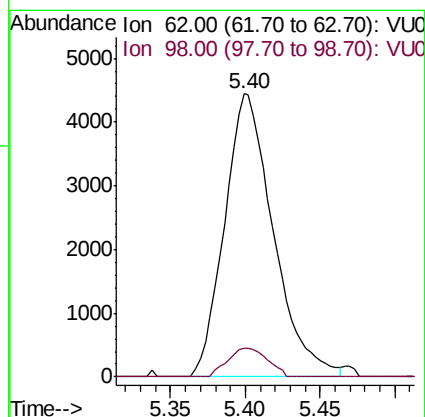
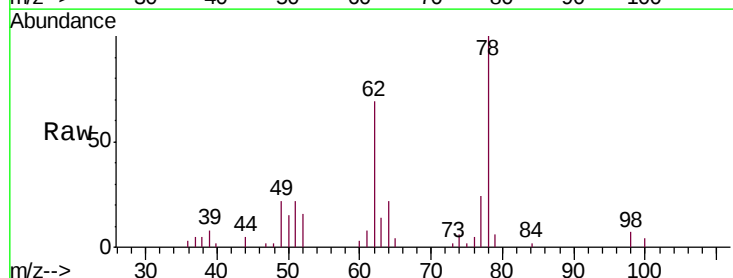
Instrument :
MSVOA_U
ClientSampleId :
VSTD00554

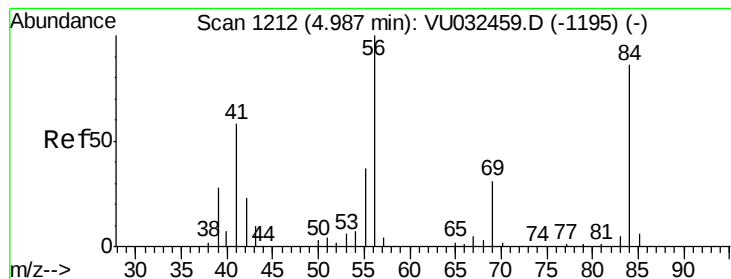
Tgt Ion: 83 Resp: 12841
Ion Ratio Lower Upper
83 100
85 66.2 44.7 82.9



#27
1,2-Dichloroethane
Concen: 4.972 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

Tgt Ion: 62 Resp: 10101
Ion Ratio Lower Upper
62 100
98 10.2 7.2 10.8





#29

Cyclohexane

Concen: 5.560 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

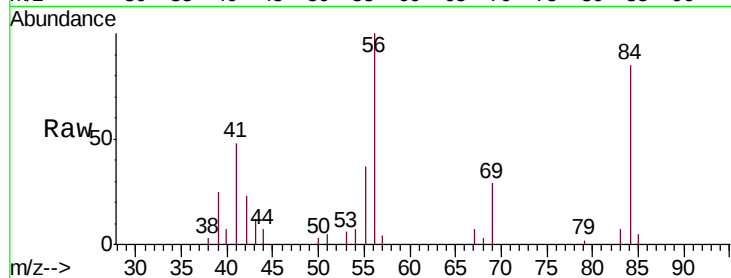
Tgt Ion: 56 Resp: 11688

Ion Ratio Lower Upper

56 100

69 31.1 24.7 37.1

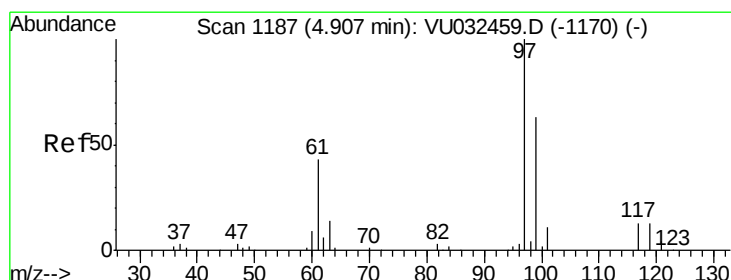
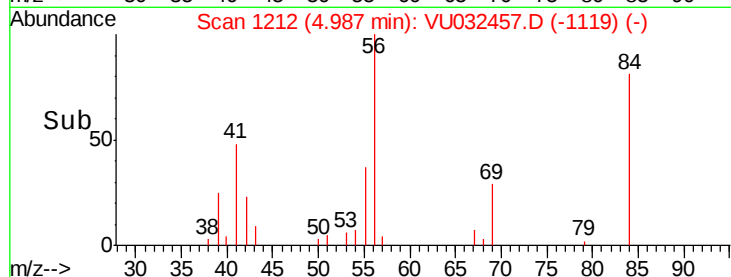
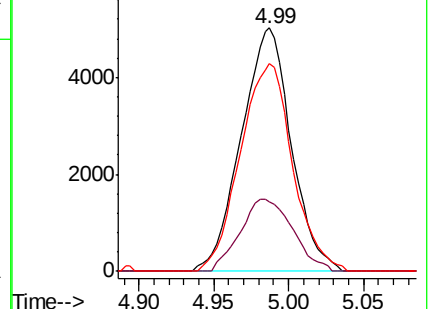
84 89.2 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VU032457.D (-1195) (-)

Ion 69.00 (68.70 to 69.70): VU032457.D (-1195) (-)

Ion 84.00 (83.70 to 84.70): VU032457.D (-1195) (-)



#30

1,1,1-Trichloroethane

Concen: 5.054 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

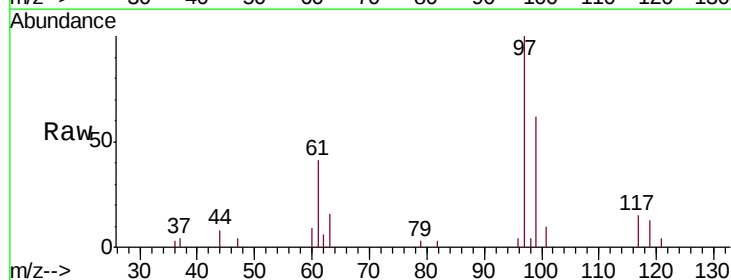
Tgt Ion: 97 Resp: 10882

Ion Ratio Lower Upper

97 100

99 64.4 50.5 75.7

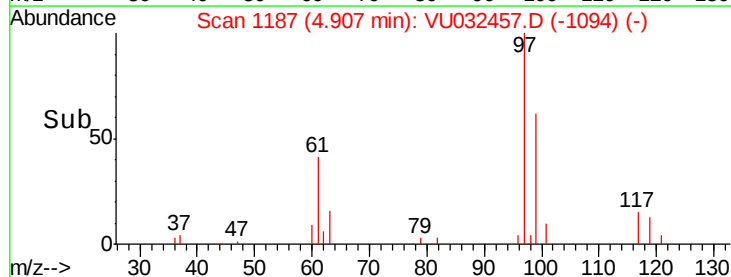
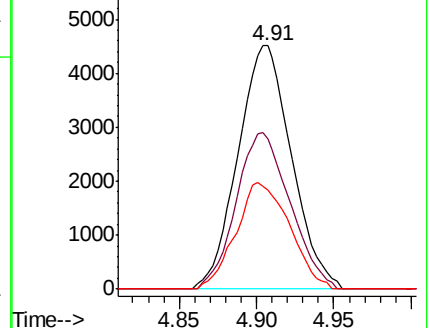
61 43.9 33.8 50.6

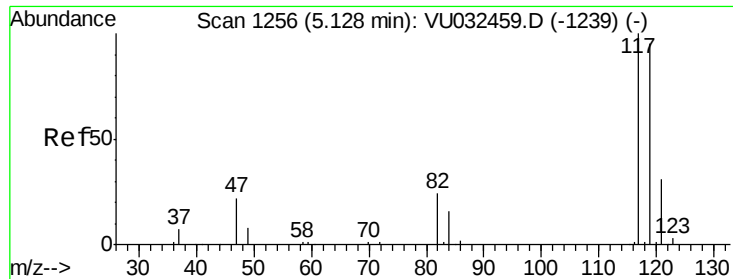


Abundance Ion 97.00 (96.70 to 97.70): VU032457.D (-1094) (-)

Ion 99.00 (98.70 to 99.70): VU032457.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU032457.D (-1094) (-)





#31

Carbon tetrachloride

Concen: 5.274 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

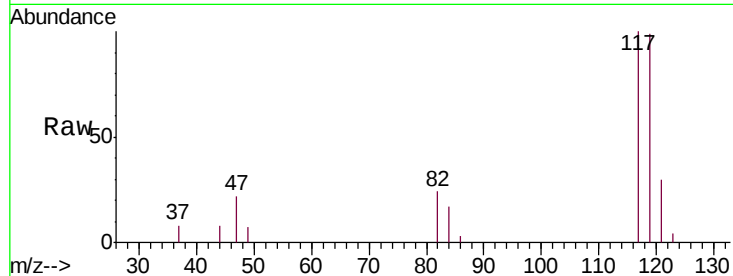
VSTD00554

Tgt Ion:117 Resp: 9818

Ion Ratio Lower Upper

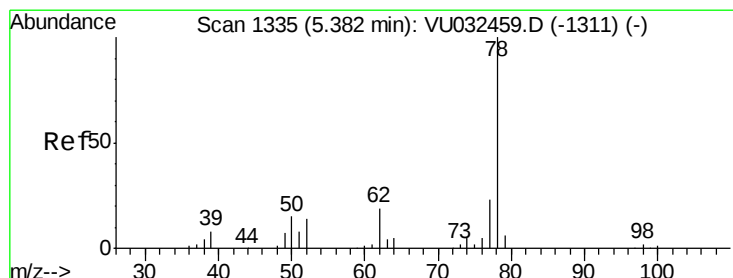
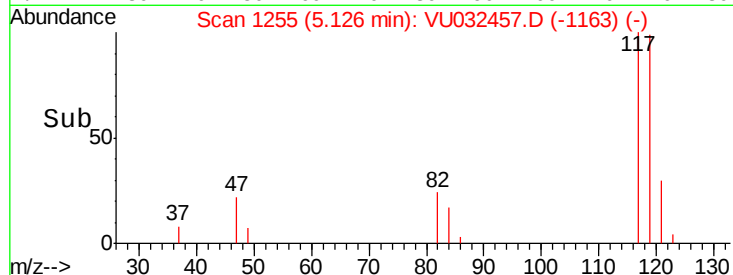
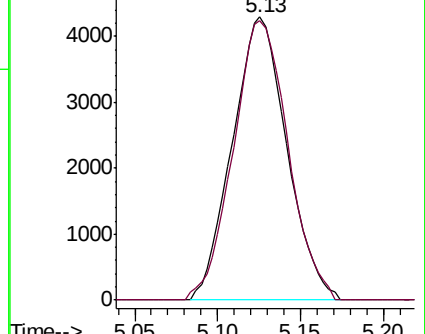
117 100

119 99.2 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.923 ug/L

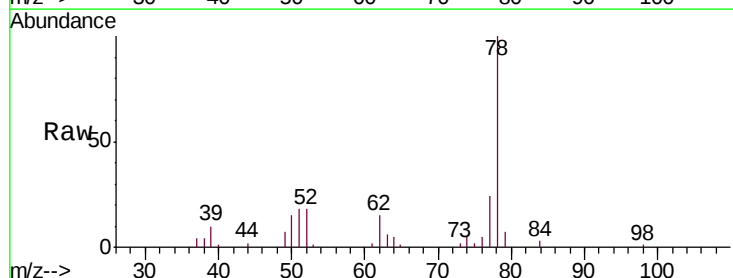
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Tgt Ion: 78 Resp: 27749



Abundance Ion 78.00 (77.70 to 78.70): VU0

15000

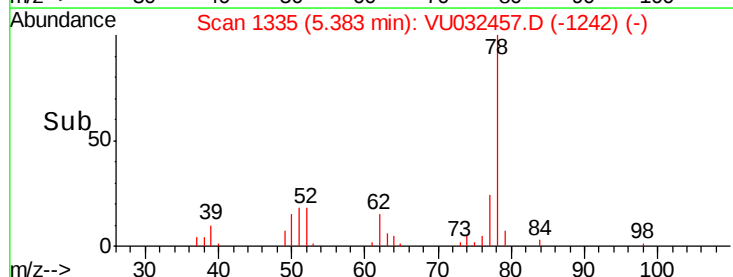
10000

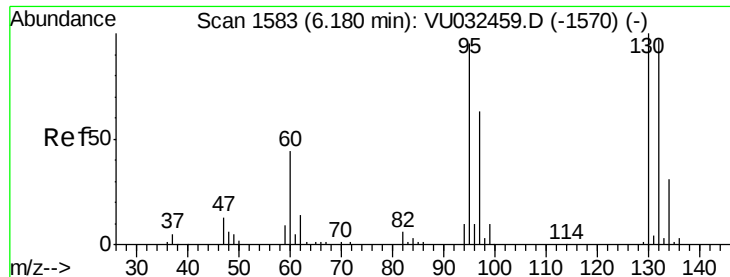
5000

0

5.30 5.35 5.40 5.45

Time-->





#34

Trichloroethene

Concen: 5.259 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

Tgt Ion: 95 Resp: 7688

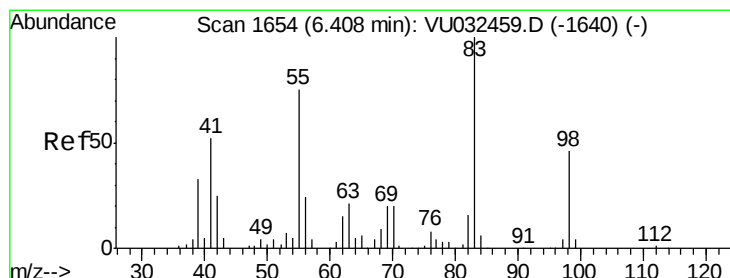
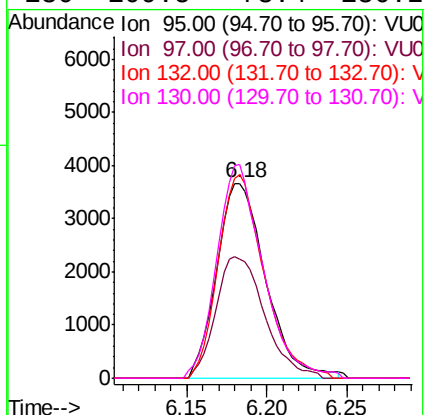
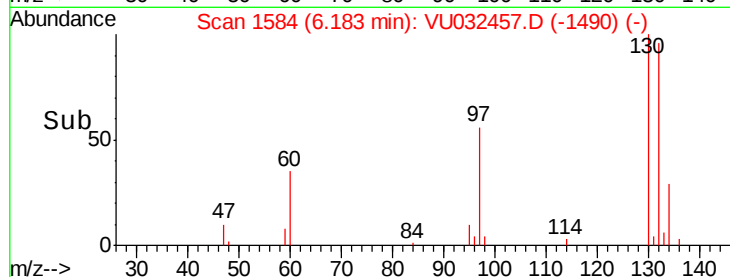
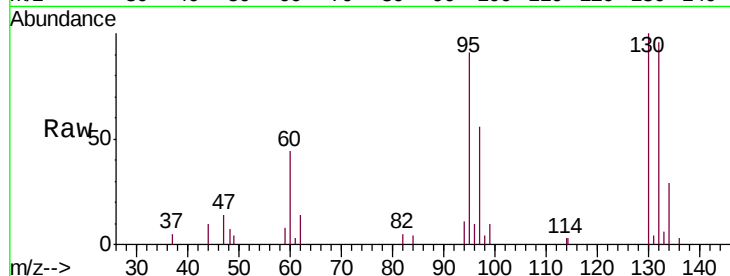
Ion Ratio Lower Upper

95 100

97 61.2 45.8 85.2

132 104.6 71.0 131.8

130 109.5 73.4 136.2



#35

Methylcyclohexane

Concen: 5.560 ug/L

RT: 6.41 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

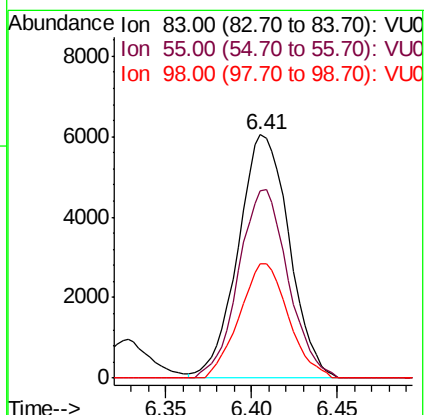
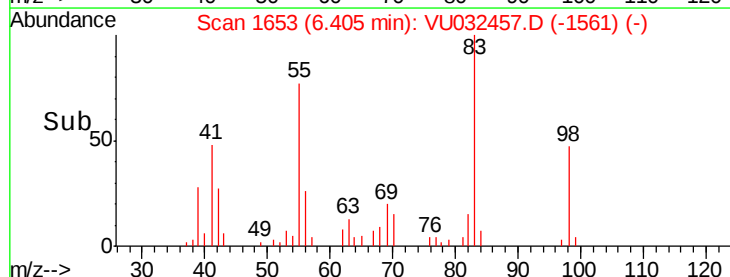
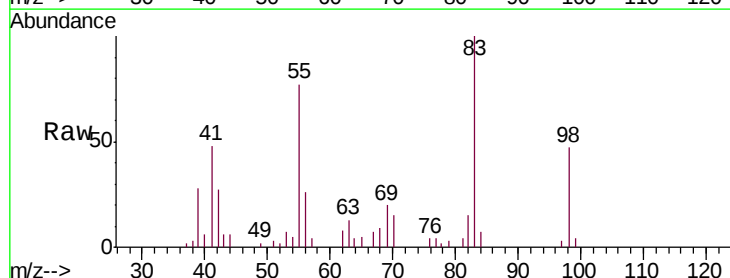
Tgt Ion: 83 Resp: 12481

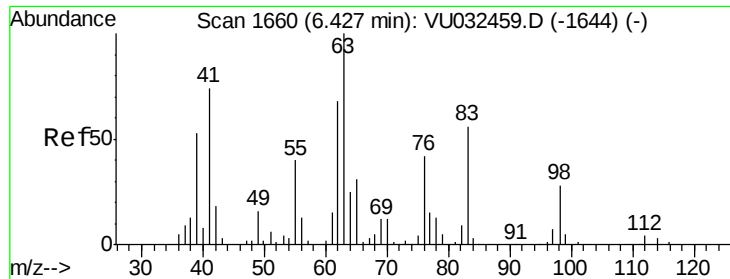
Ion Ratio Lower Upper

83 100

55 75.0 60.2 90.4

98 44.8 37.4 56.2

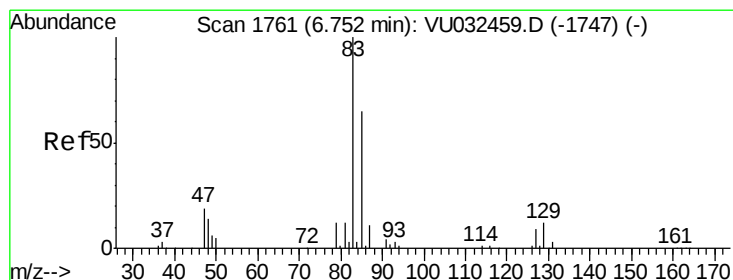
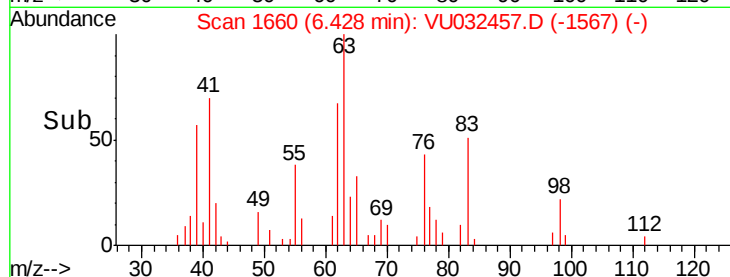
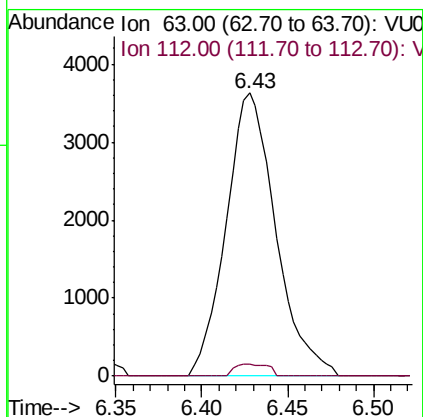
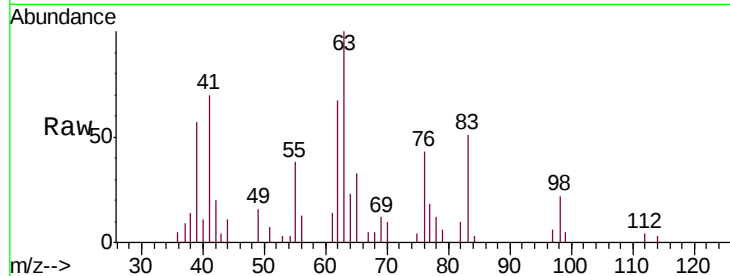




#37
 1,2-Dichloropropane
 Concen: 4.953 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

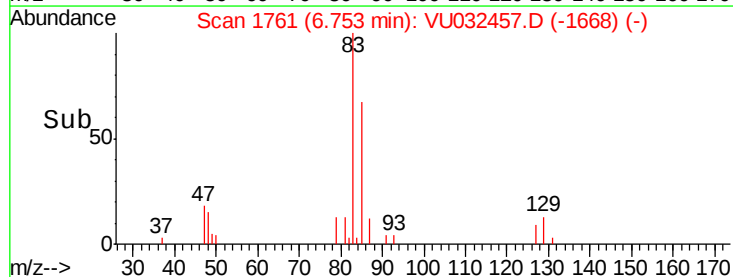
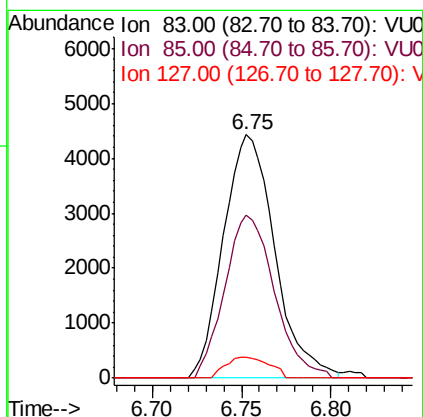
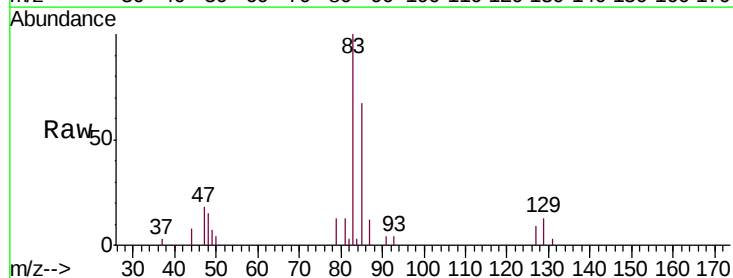
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

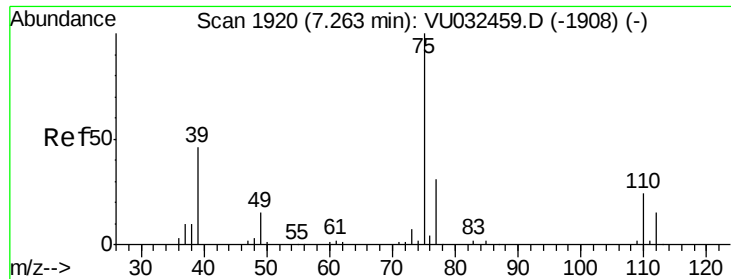
Tgt Ion: 63 Resp: 7299
 Ion Ratio Lower Upper
 63 100
 112 2.2 3.1 4.7#



#38
 Bromodichloromethane
 Concen: 4.675 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion: 83 Resp: 8889
 Ion Ratio Lower Upper
 83 100
 85 66.7 45.4 84.4
 127 8.6 7.4 11.2

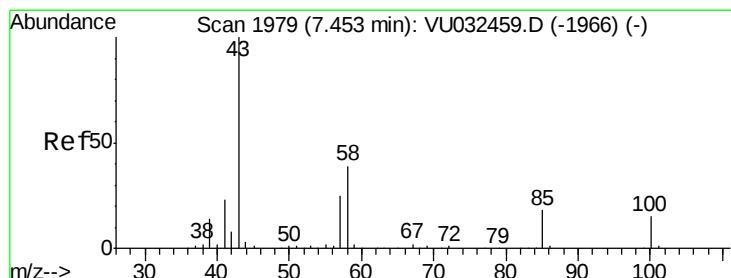
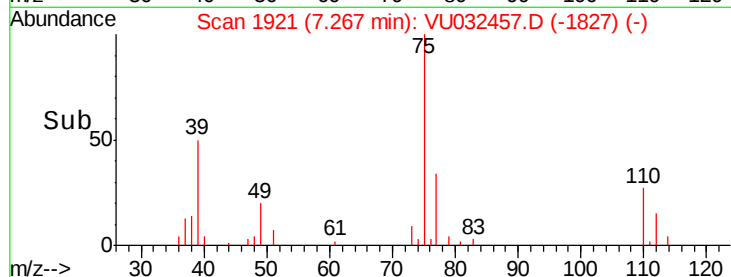
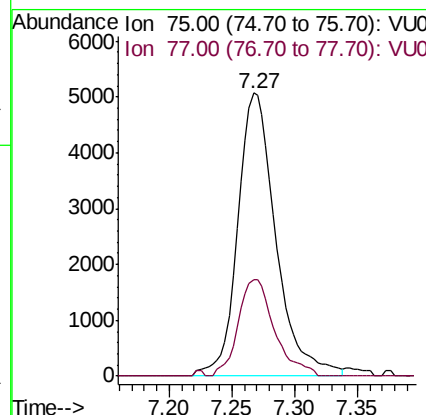
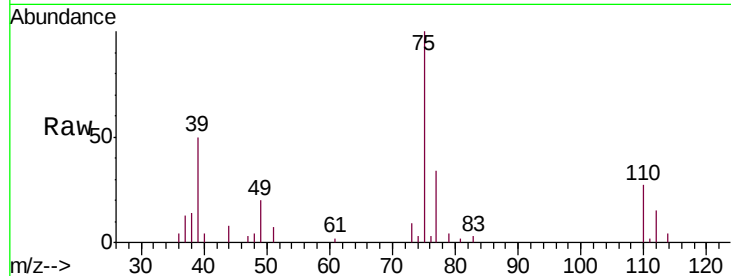




#39
 cis-1,3-Dichloropropene
 Concen: 4.868 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

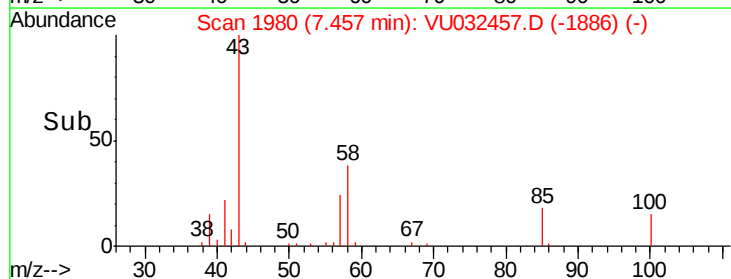
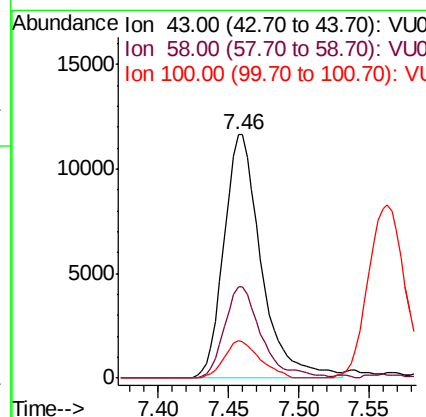
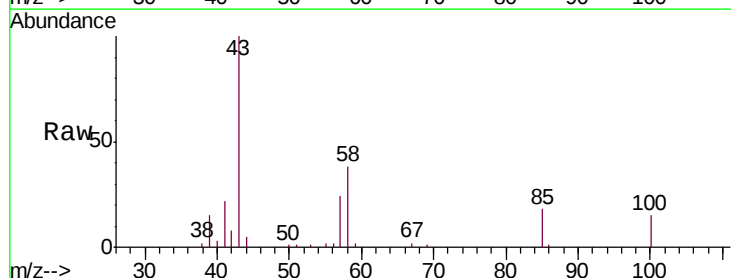
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

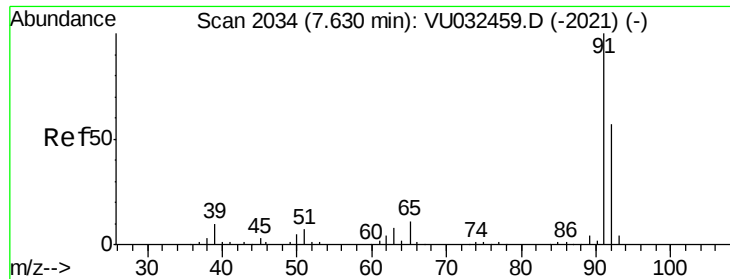
Tgt Ion: 75 Resp: 10735
 Ion Ratio Lower Upper
 75 100
 77 34.1 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 10.658 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion: 43 Resp: 21520
 Ion Ratio Lower Upper
 43 100
 58 37.0 30.8 46.2
 100 14.6 12.1 18.1





#42

Toluene

Concen: 4.903 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

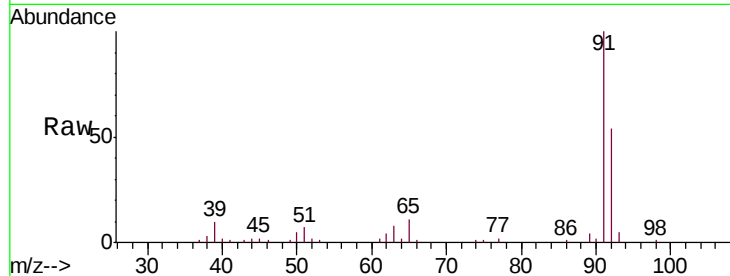
VSTD00554

Tgt Ion: 91 Resp: 30043

Ion Ratio Lower Upper

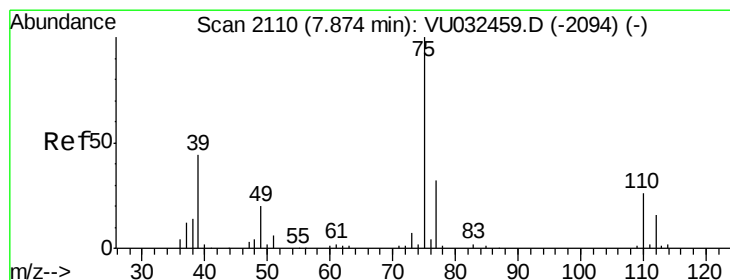
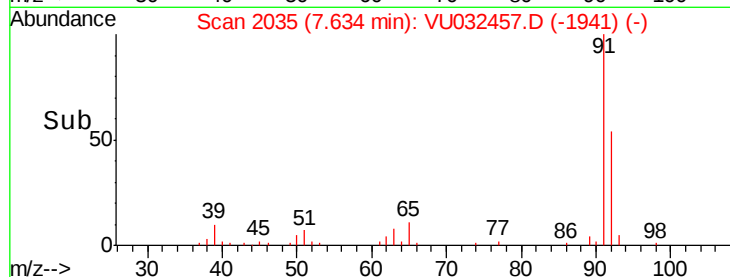
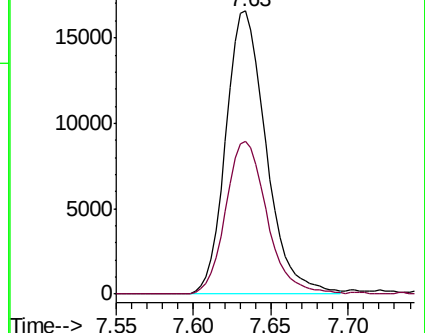
91 100

92 54.1 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) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.632 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU032457.D

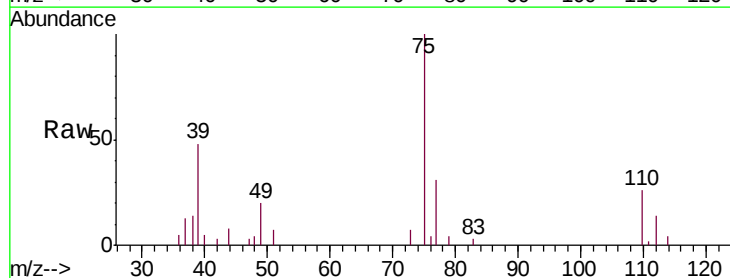
Acq: 05 Jun 2019 13:09

Tgt Ion: 75 Resp: 9002

Ion Ratio Lower Upper

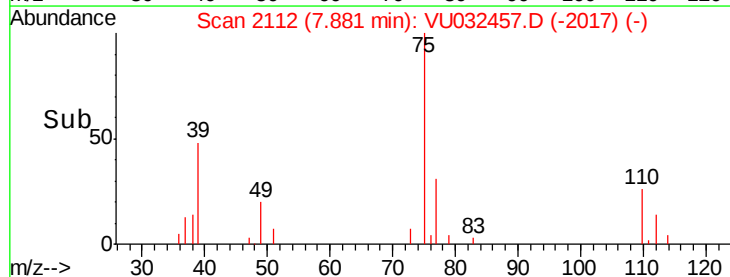
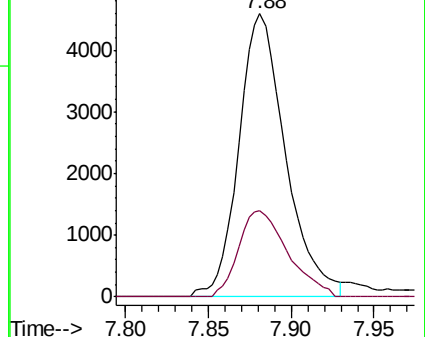
75 100

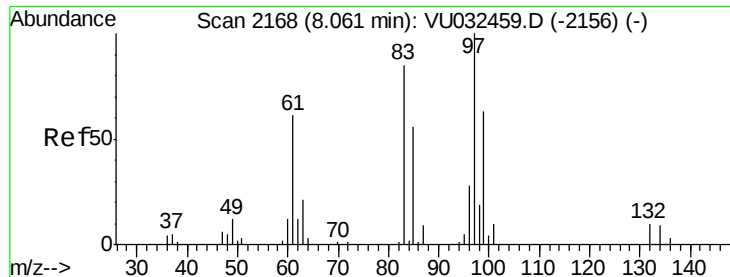
77 30.7 22.1 41.1



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

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

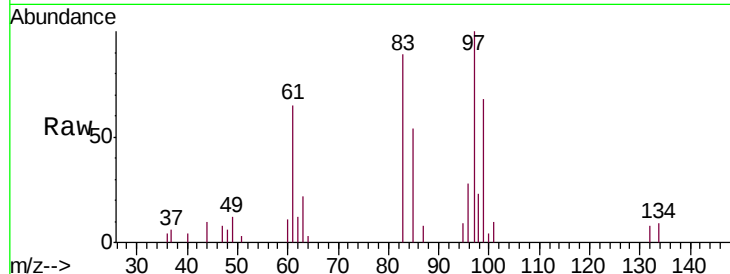




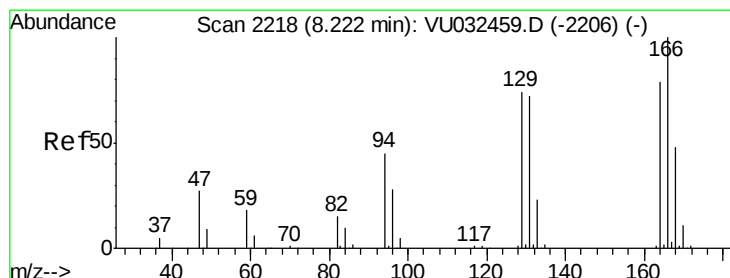
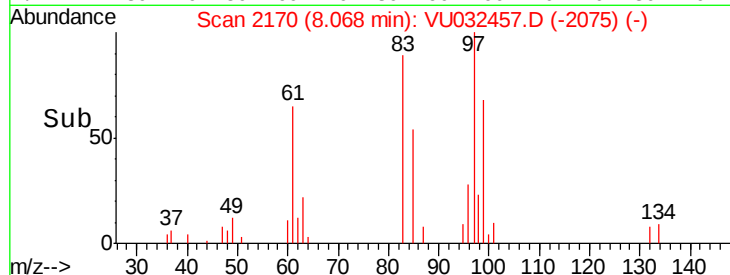
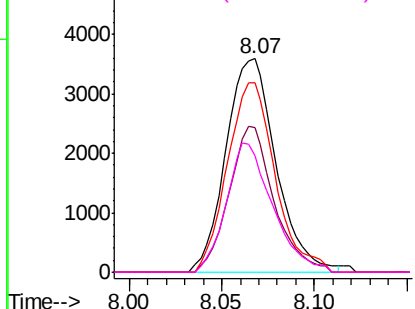
#45
 1,1,2-Trichloroethane
 Concen: 4.684 ug/L
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.01 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

Tgt Ion: 97 Resp: 6748
 Ion Ratio Lower Upper
 97 100
 99 67.7 44.1 81.9
 83 88.9 59.4 110.2
 85 54.4 39.1 72.7

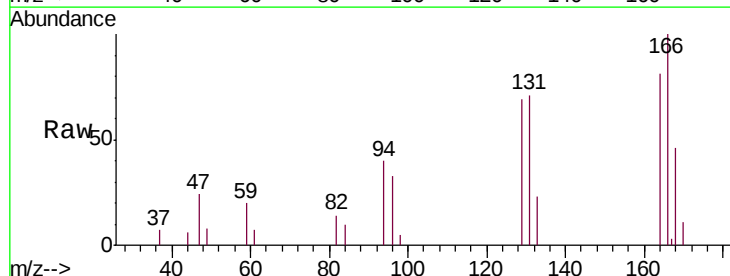


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

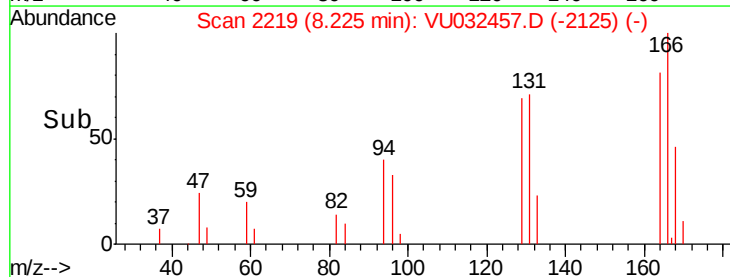
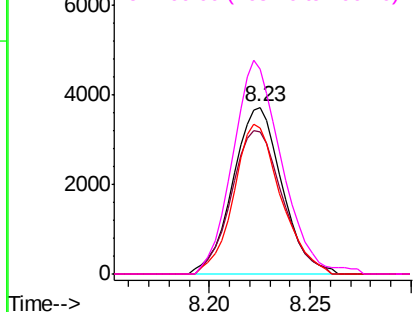


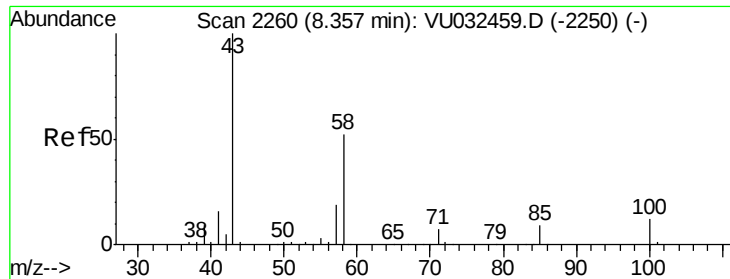
#46
 Tetrachloroethene
 Concen: 5.306 ug/L
 RT: 8.23 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion: 164 Resp: 6351
 Ion Ratio Lower Upper
 164 100
 129 85.5 65.3 121.3
 131 87.6 64.0 119.0
 166 123.3 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

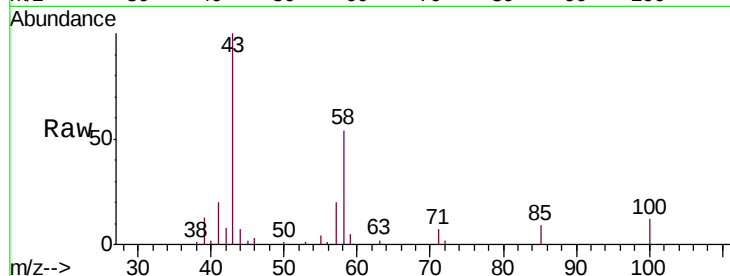




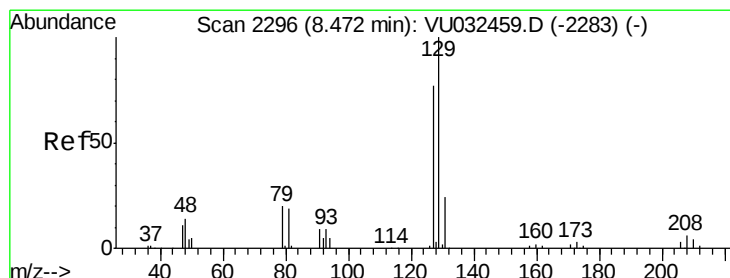
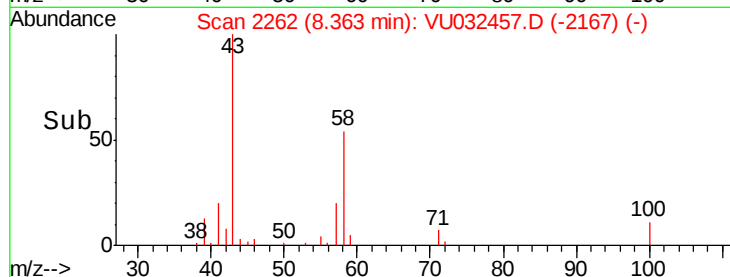
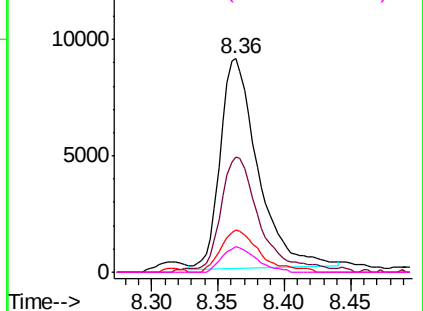
#48
2-Hexanone
Concen: 10.800 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

Instrument :
MSVOA_U
ClientSampleId :
VSTD00554

Tgt Ion: 43 Resp: 17833
Ion Ratio Lower Upper
43 100
58 57.4 42.0 63.0
57 20.1 14.6 22.0
100 11.2 9.2 13.8

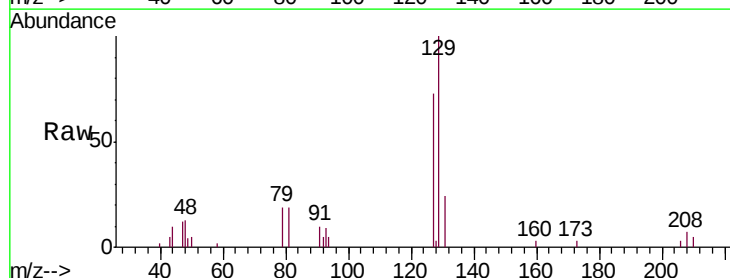


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

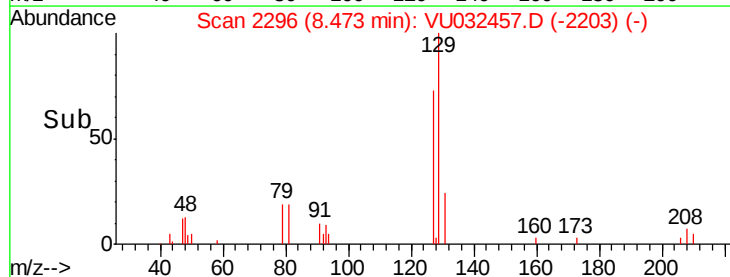
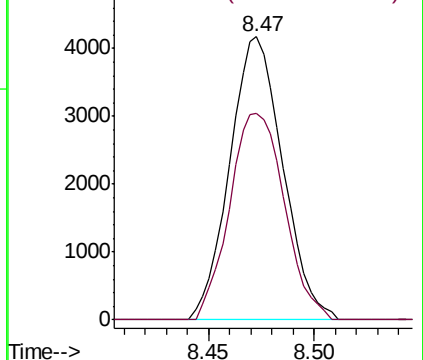


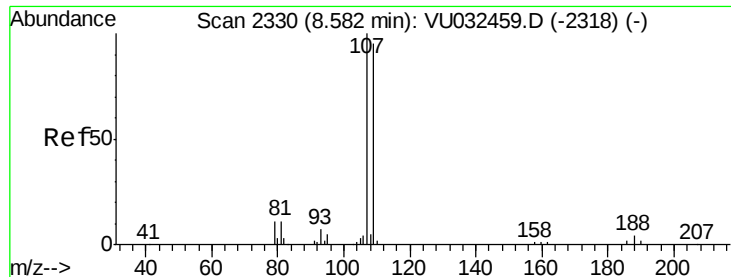
#49
Dibromochloromethane
Concen: 4.609 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

Tgt Ion: 129 Resp: 7292
Ion Ratio Lower Upper
129 100
127 73.0 53.6 99.6



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

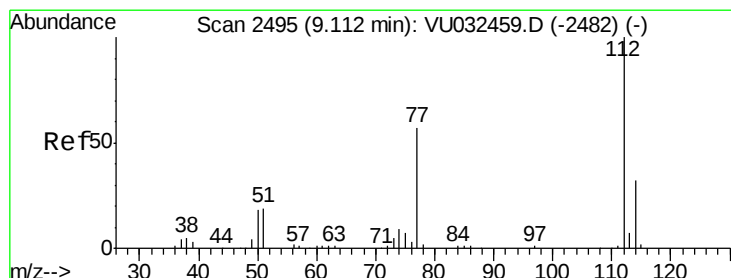
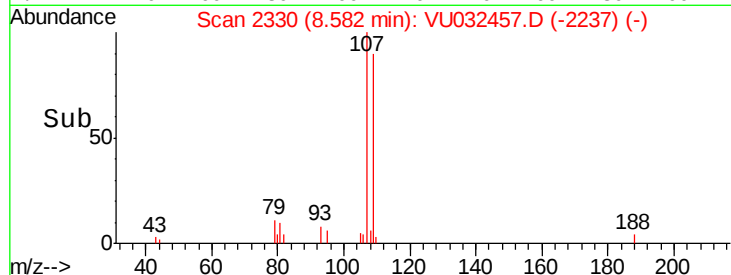
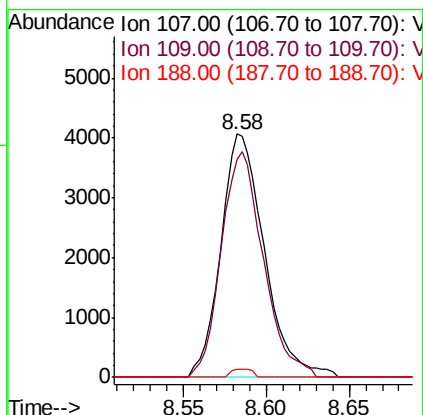
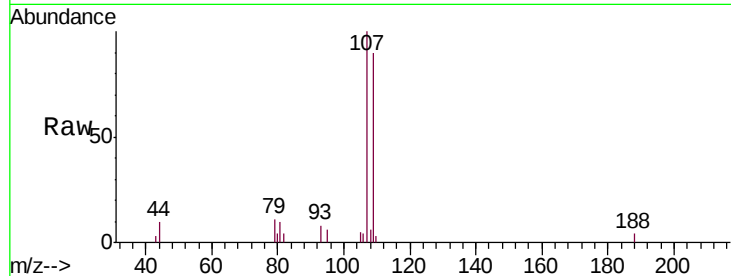




#50
1,2-Dibromoethane
Concen: 4.837 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

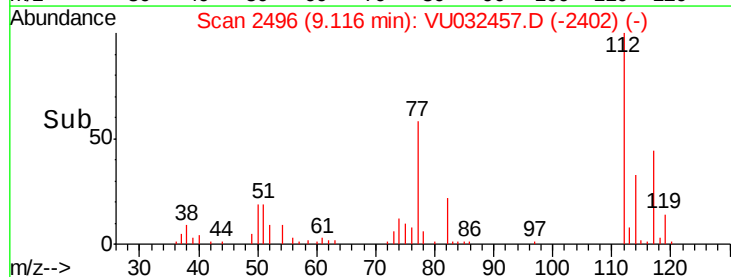
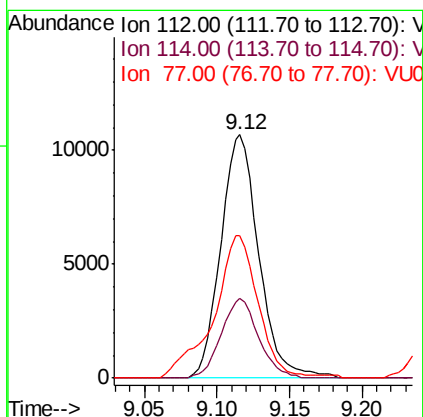
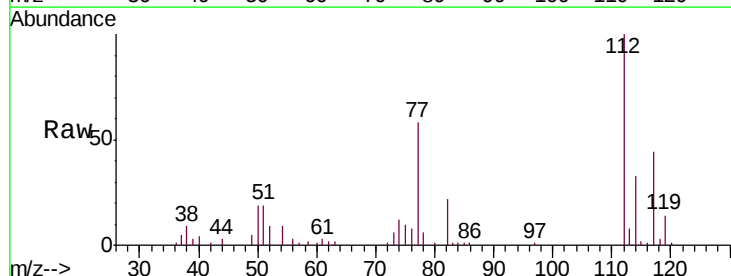
Instrument :
MSVOA_U
ClientSampleId :
VSTD00554

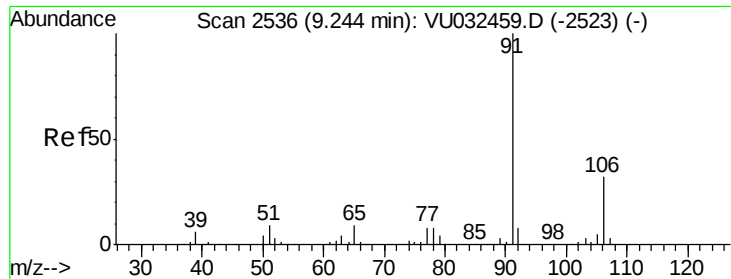
Tgt Ion:107 Resp: 7412
Ion Ratio Lower Upper
107 100
109 89.7 66.8 124.0
188 3.5 3.1 4.7



#51
Chlorobenzene
Concen: 4.899 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032457.D
Acq: 05 Jun 2019 13:09

Tgt Ion:112 Resp: 19377
Ion Ratio Lower Upper
112 100
114 32.8 22.6 42.0
77 58.5 46.1 69.1





#52

Ethylbenzene

Concen: 5.046 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

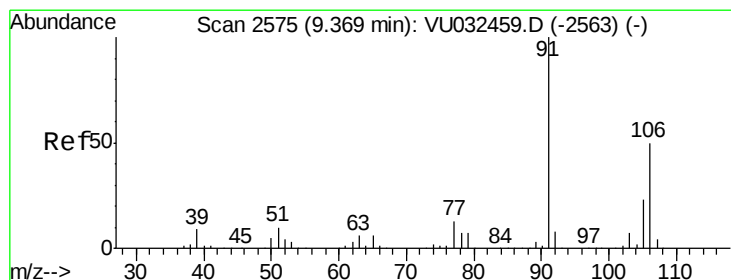
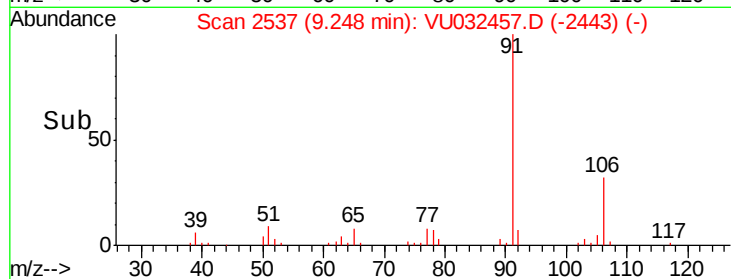
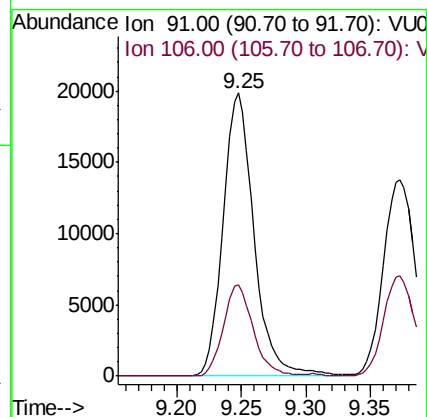
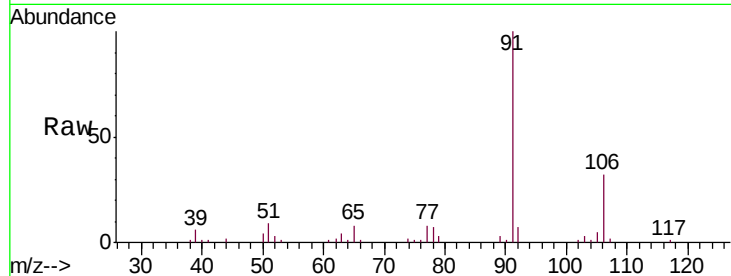
VSTD00554

Tgt Ion: 91 Resp: 33171

Ion Ratio Lower Upper

91 100

106 32.4 22.0 41.0



#53

m,p-Xylene

Concen: 4.930 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032457.D

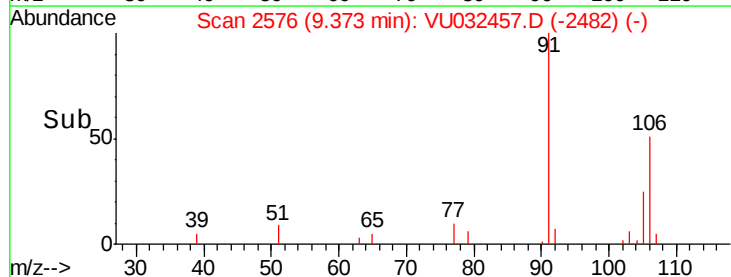
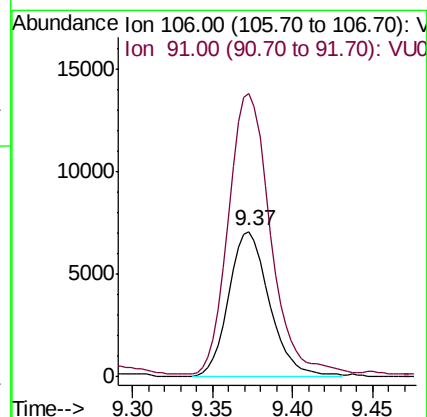
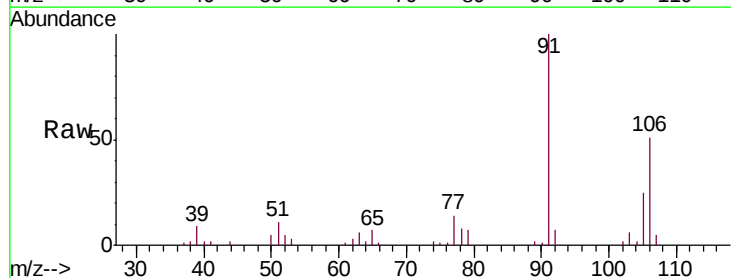
Acq: 05 Jun 2019 13:09

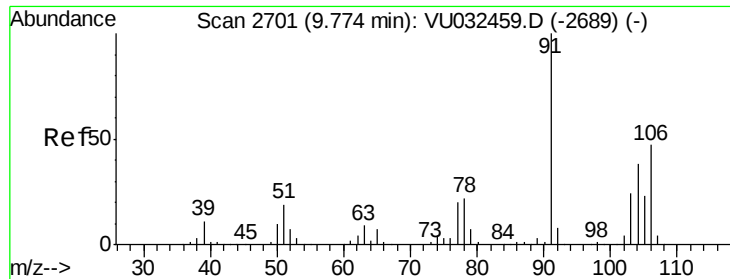
Tgt Ion: 106 Resp: 12395

Ion Ratio Lower Upper

106 100

91 194.9 141.7 263.1





#54

o-xylene

Concen: 4.955 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

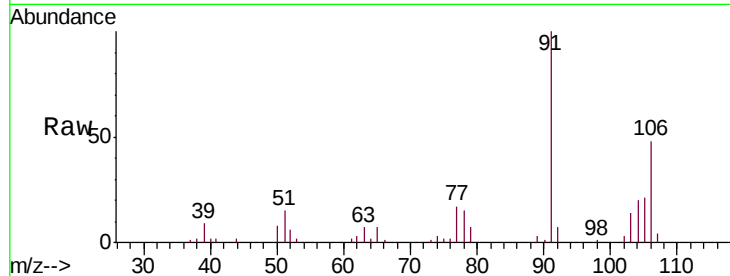
VSTD00554

Tgt Ion:106 Resp: 12508

Ion Ratio Lower Upper

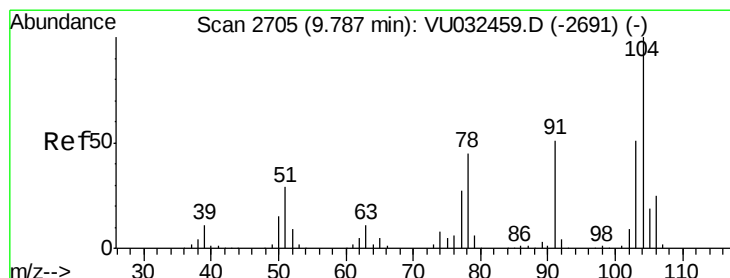
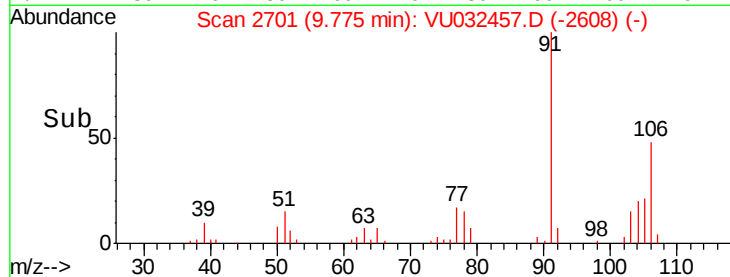
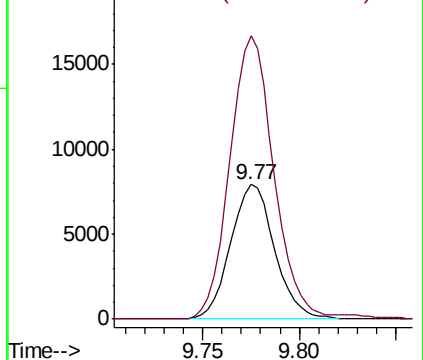
106 100

91 210.5 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.729 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU032457.D

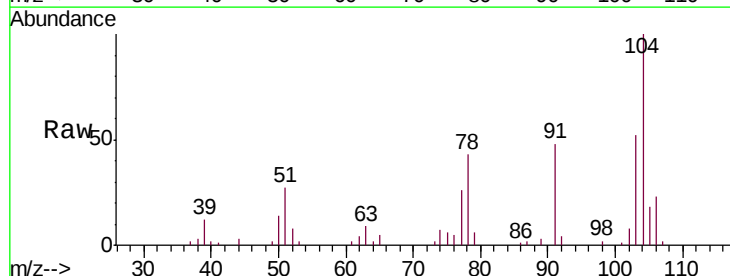
Acq: 05 Jun 2019 13:09

Tgt Ion:104 Resp: 19976

Ion Ratio Lower Upper

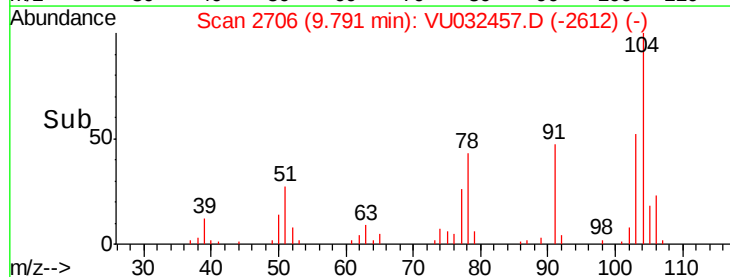
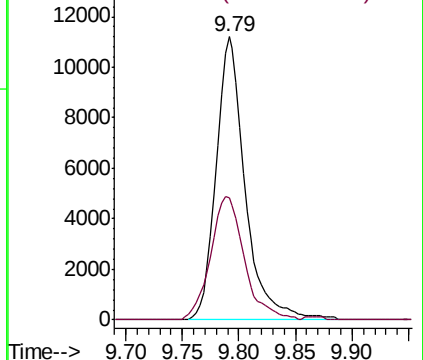
104 100

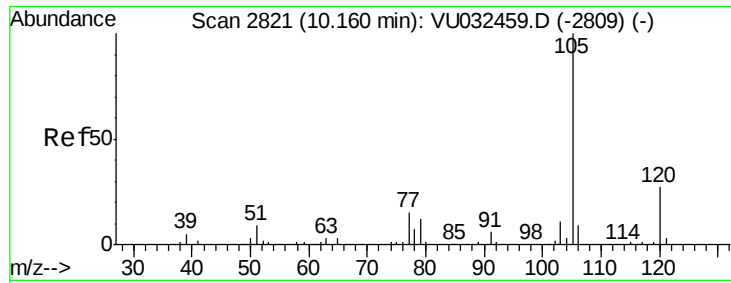
78 43.2 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 5.013 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

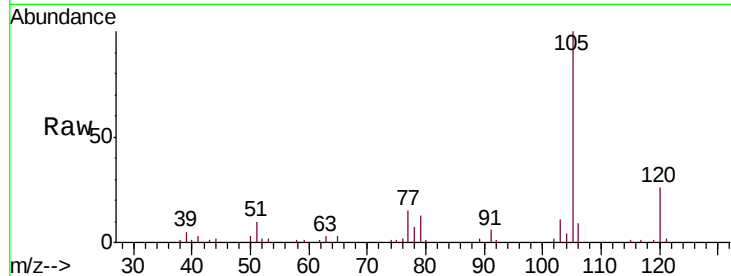
Tgt Ion: 105 Resp: 32354

Ion Ratio Lower Upper

105 100

120 26.0 21.6 32.4

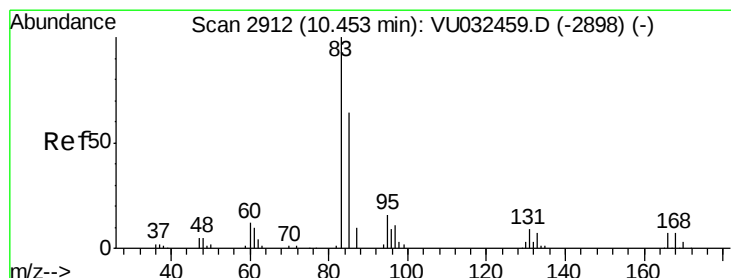
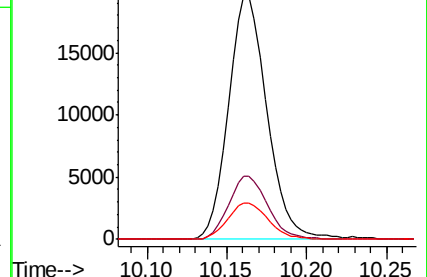
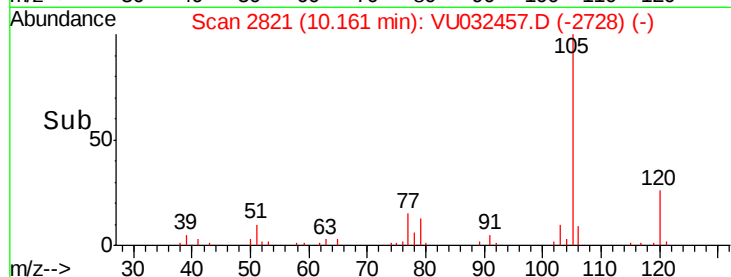
77 15.4 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.451 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

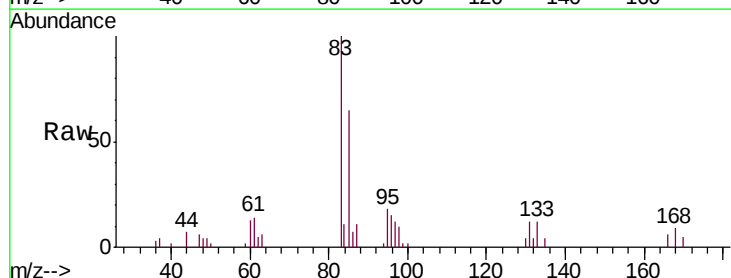
Tgt Ion: 83 Resp: 11066

Ion Ratio Lower Upper

83 100

85 65.1 45.1 83.7

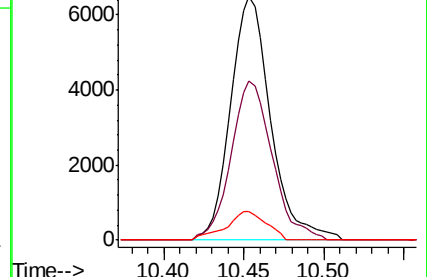
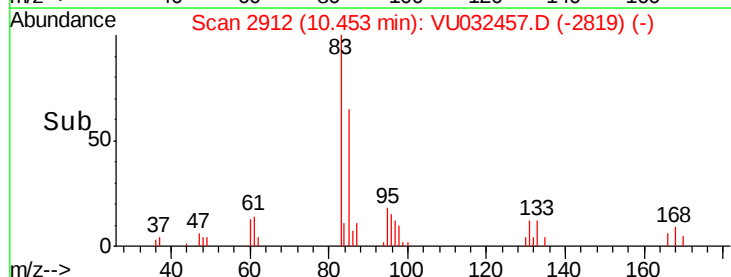
131 11.8 7.9 11.9

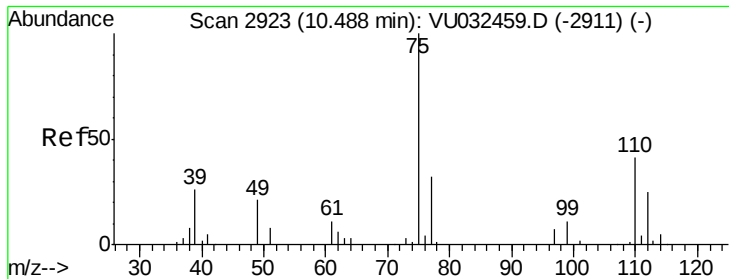


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

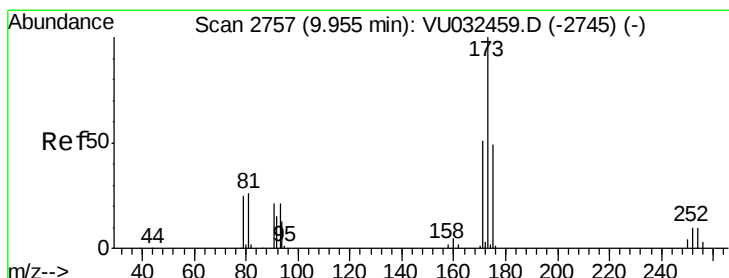
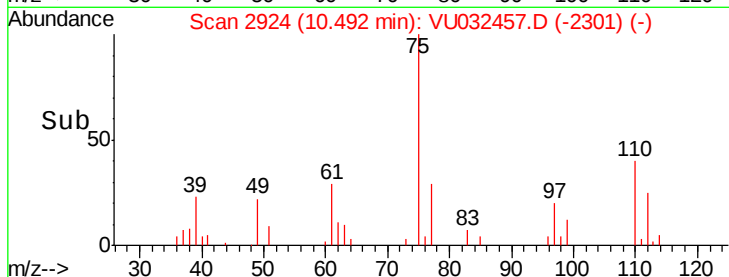
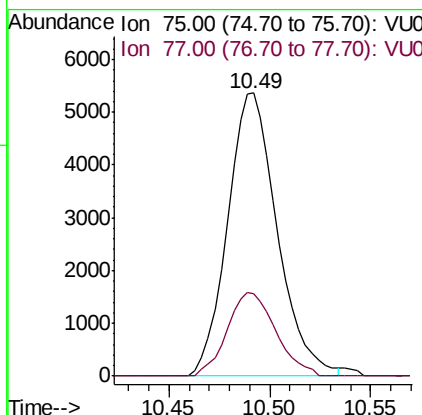
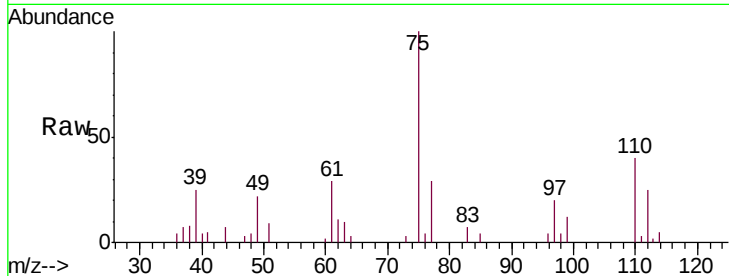




#59
 1,2,3-Trichloropropane
 Concen: 4.694 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

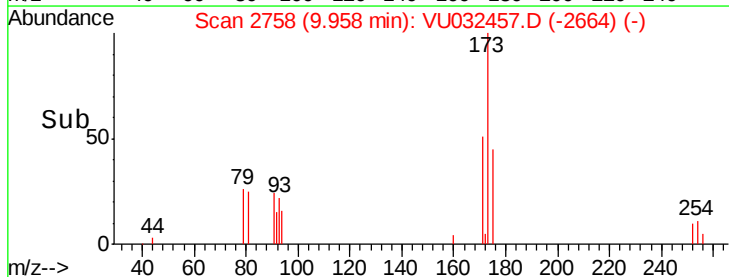
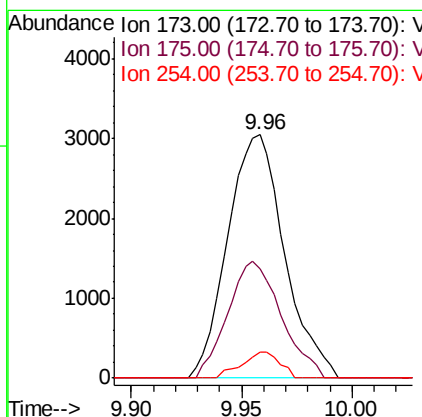
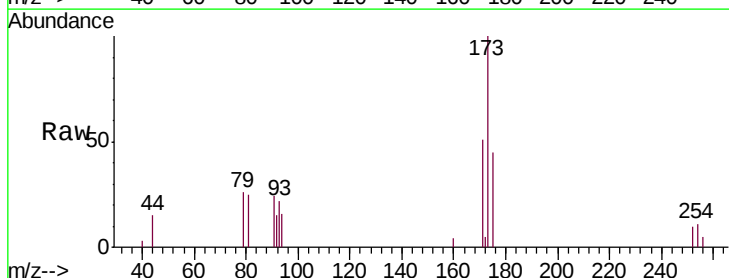
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

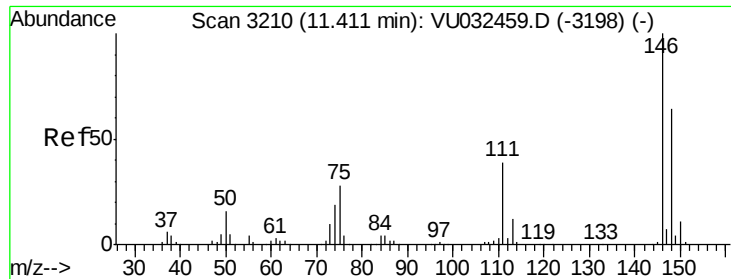
Tgt Ion: 75 Resp: 9214
 Ion Ratio Lower Upper
 75 100
 77 29.0 25.6 38.4



#61
 Bromoform
 Concen: 4.242 ug/L
 RT: 9.96 min Scan# 2758
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion: 173 Resp: 5462
 Ion Ratio Lower Upper
 173 100
 175 45.2 39.7 59.5
 254 7.1 7.8 11.8#





#62

1,3-Dichlorobenzene

Concen: 4.927 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

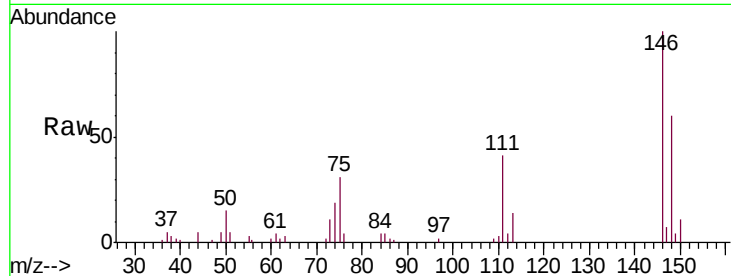
Tgt Ion:146 Resp: 15278

Ion Ratio Lower Upper

146 100

111 41.4 27.3 50.7

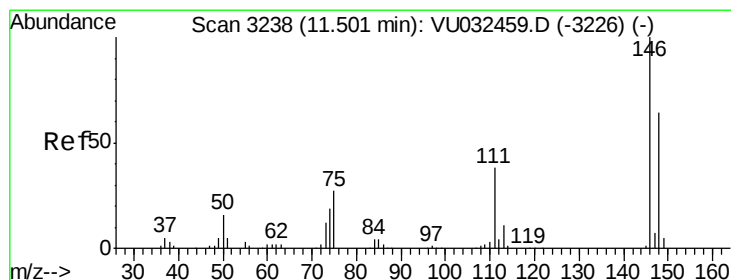
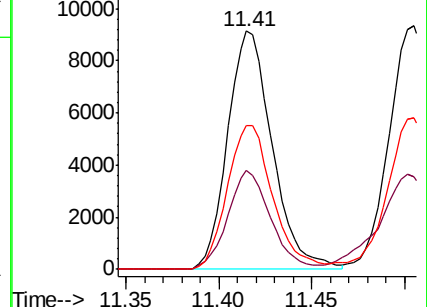
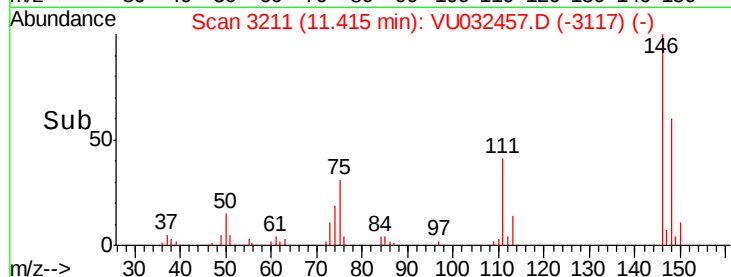
148 60.2 44.4 82.5



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: 5.219 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

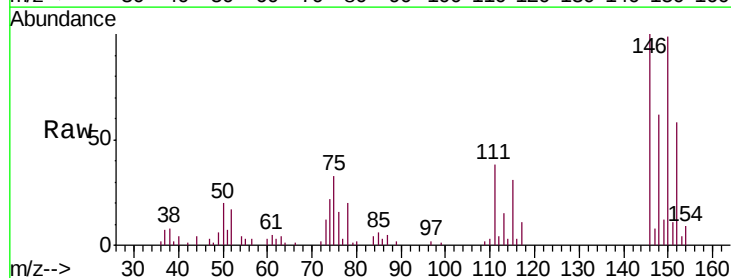
Tgt Ion:146 Resp: 16511

Ion Ratio Lower Upper

146 100

111 38.2 26.6 49.4

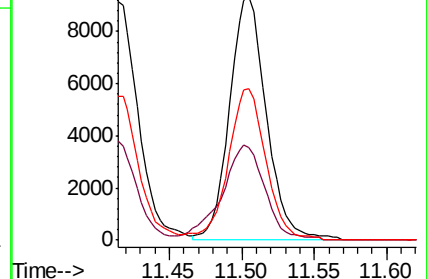
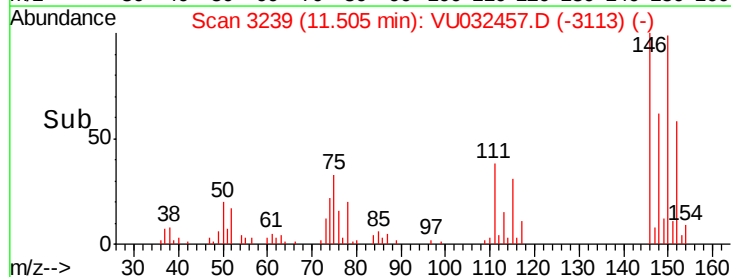
148 62.2 44.9 83.5

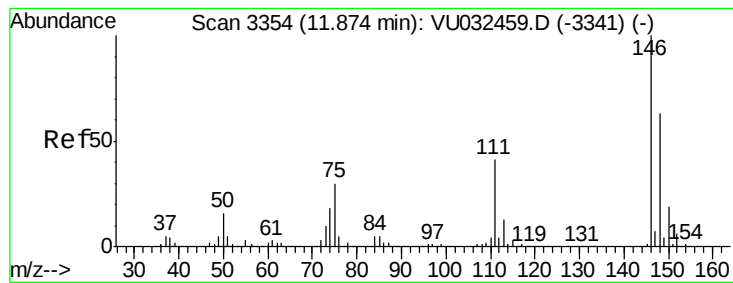


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.782 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

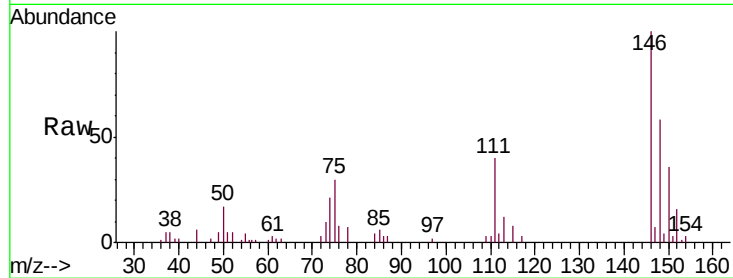
Tgt Ion:146 Resp: 15467

Ion Ratio Lower Upper

146 100

111 39.9 32.6 48.8

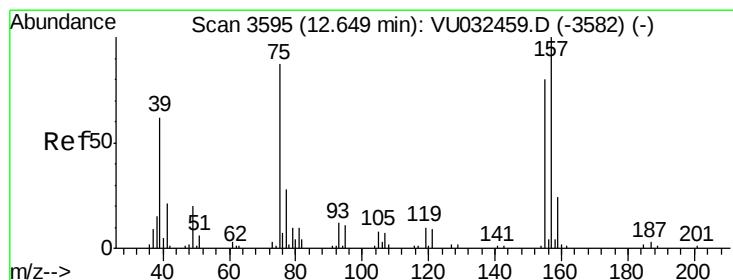
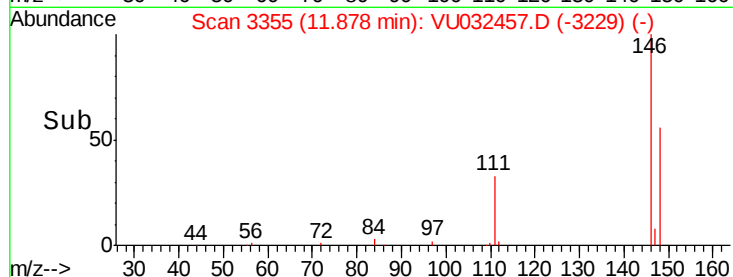
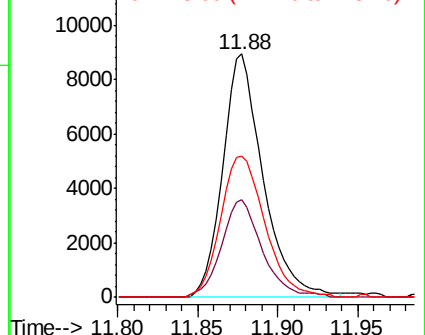
148 58.2 50.5 75.7



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: 3.890 ug/L

RT: 12.66 min Scan# 3598

Delta R.T. 0.01 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

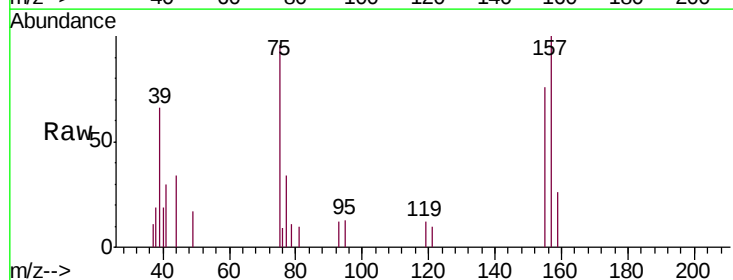
Tgt Ion: 75 Resp: 2097

Ion Ratio Lower Upper

75 100

155 79.5 73.1 109.7

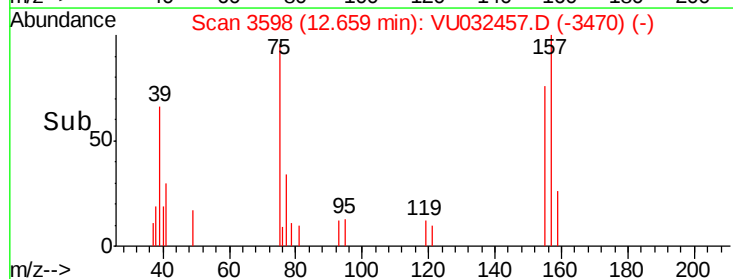
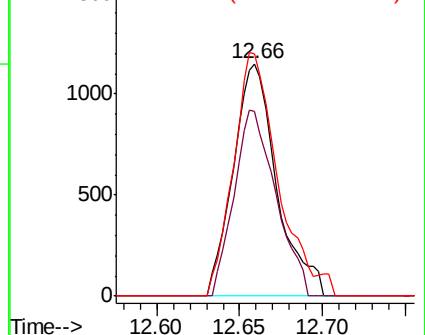
157 104.3 91.4 137.2

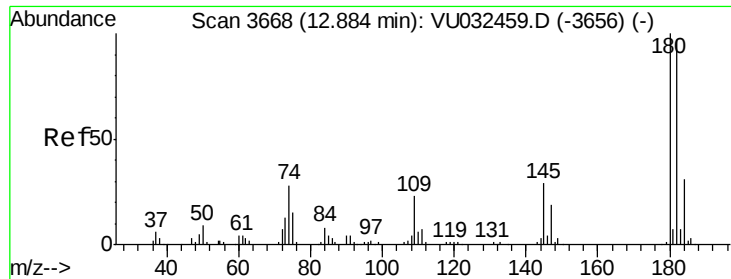


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

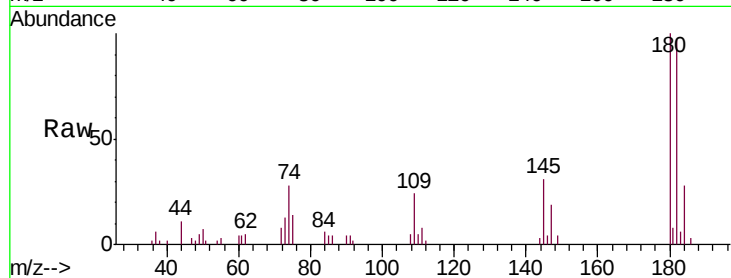




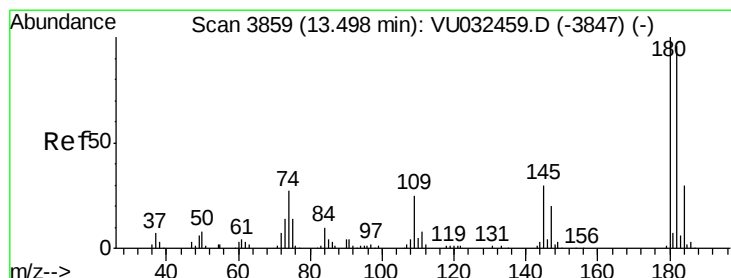
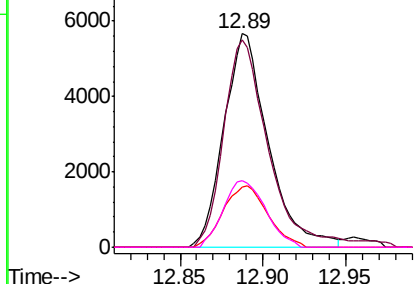
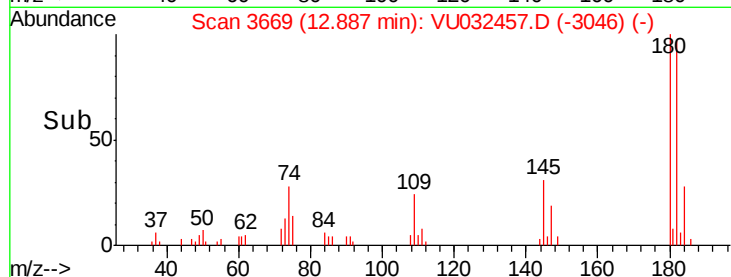
#67
 1,3,5-Trichlorobenzene
 Concen: 4.573 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00554

Tgt Ion:180 Resp: 10566
 Ion Ratio Lower Upper
 180 100
 182 95.0 78.2 117.4
 184 28.8 24.2 36.2
 145 29.7 23.9 35.9

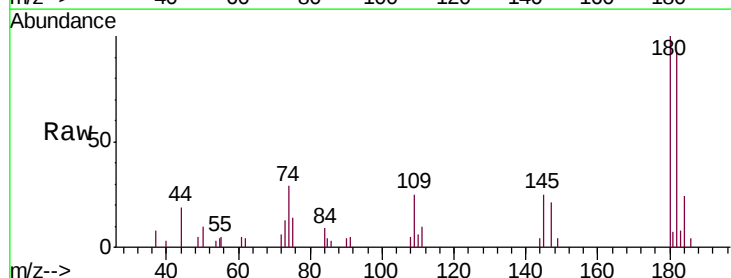


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

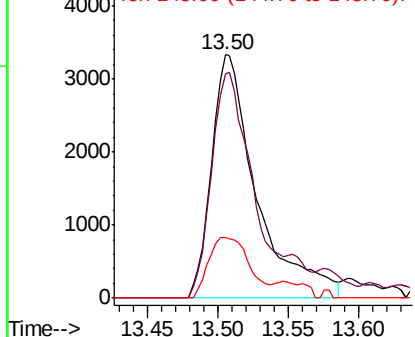
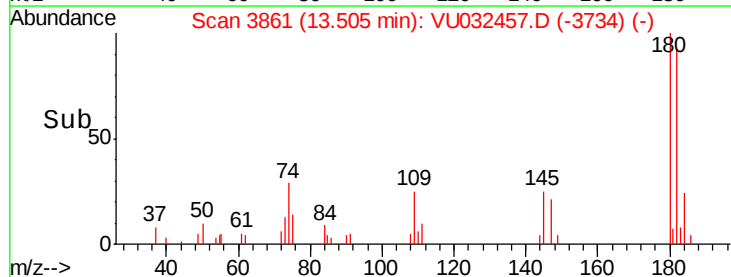


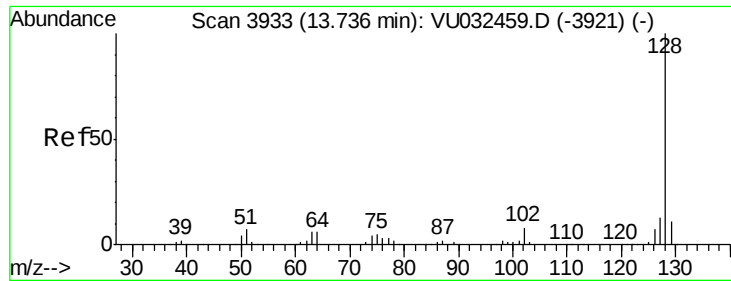
#68
 1,2,4-trichlorobenzene
 Concen: 4.052 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU032457.D
 Acq: 05 Jun 2019 13:09

Tgt Ion:180 Resp: 7407
 Ion Ratio Lower Upper
 180 100
 182 82.8 76.5 114.7
 145 22.4 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: 3.016 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.01 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD00554

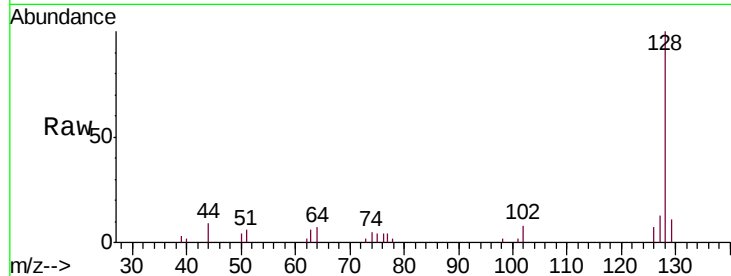
Tgt Ion:128 Resp: 16594

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

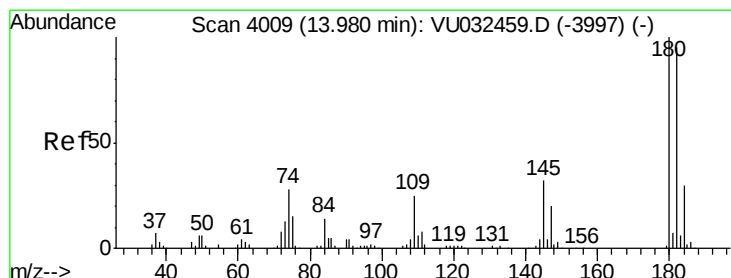
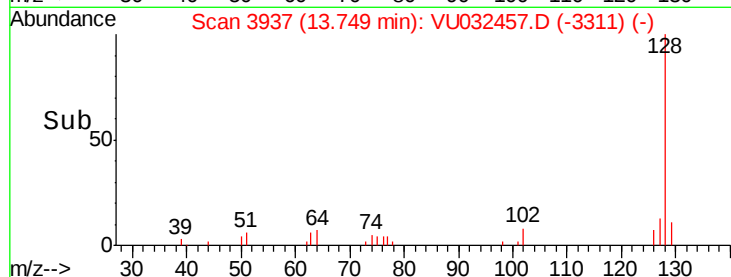
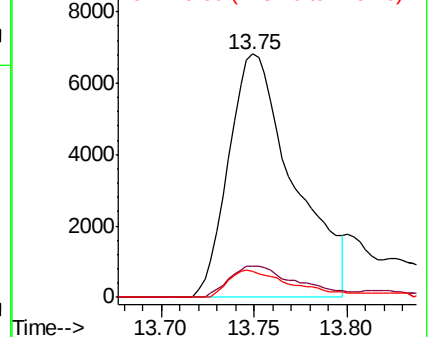
129 9.2 8.5 12.7



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: 4.251 ug/L

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU032457.D

Acq: 05 Jun 2019 13:09

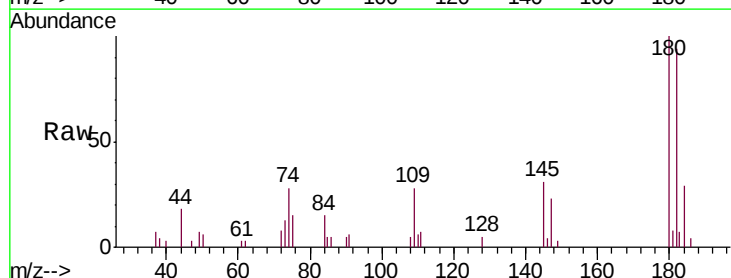
Tgt Ion:180 Resp: 8261

Ion Ratio Lower Upper

180 100

182 85.8 76.7 115.1

145 29.8 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

