

Data File : VU032186.D
Acq On : 21 May 2019 09:44
Operator : JC/SP
Sample : VSTD01052
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

Quant Time: May 22 01:38:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	812439	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	819480	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	382577	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	52039	7.66	ug/L	0.00
7) Chloroethane-d5	1.67	69	47503	8.59	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	101695	8.29	ug/L	0.00
21) 2-Butanone-d5	4.18	46	61270	13.21	ug/L	0.00
24) Chloroform-d	4.64	84	104328	8.97	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	61983	8.51	ug/L	0.00
32) Benzene-d6	5.34	84	212300	9.15	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	60507	8.04	ug/L	0.00
41) Toluene-d8	7.56	98	195541	9.31	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	28282	8.40	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	49132	15.80	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	99471	8.84	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	81393	10.19	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	69259	9.455 ug/L	99
3) Chloromethane	1.32	50	58707	7.447 ug/L	99
5) Vinyl chloride	1.40	62	65634	7.864 ug/L	99
6) Bromomethane	1.61	94	47933	10.485 ug/L	97
8) Chloroethane	1.69	64	41131	8.303 ug/L	96
9) Trichlorofluoromethane	1.88	101	96516	9.867 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	55556	9.313 ug/L	97
12) 1,1-Dichloroethene	2.28	96	56765	9.600 ug/L	94
13) Acetone	2.32	43	71181	14.823 ug/L	99
14) Carbon disulfide	2.47	76	160566	8.551 ug/L	99
15) Methyl Acetate	2.61	43	47714	6.600 ug/L	98
16) Methylene chloride	2.70	84	66162	9.281 ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	56398	9.169 ug/L	89
18) Methyl tert-butyl Ether	3.00	73	157971	8.475 ug/L	99
19) 1,1-Dichloroethane	3.44	63	97347	8.274 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	62899	9.282 ug/L	92
22) 2-Butanone	4.26	43	68697	12.564 ug/L	99
23) Bromochloromethane	4.54	128	33894	9.988 ug/L	97
25) Chloroform	4.67	83	107314	9.050 ug/L	100
27) 1,2-Dichloroethane	5.40	62	79352	8.750 ug/L	100
29) Cyclohexane	4.99	56	74274	7.765 ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	90297	9.602 ug/L	95
31) Carbon tetrachloride	5.13	117	77965	9.821 ug/L	98
33) Benzene	5.39	78	231388	8.859 ug/L	100
34) Trichloroethene	6.18	95	59950	9.124 ug/L	96
35) Methylcyclohexane	6.41	83	90152	9.010 ug/L	97
37) 1,2-Dichloropropane	6.43	63	56042	8.115 ug/L	# 93
38) Bromodichloromethane	6.76	83	75865	8.759 ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	82174	8.267 ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	119057	13.065 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	241508	8.908	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	71042	8.115	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	58489	8.931	ug/L	93
46) Tetrachloroethene	8.22	164	49798	10.393	ug/L	90
48) 2-Hexanone	8.36	43	102026	13.767	ug/L	99
49) Dibromochloromethane	8.47	129	62774	9.425	ug/L	99
50) 1,2-Dibromoethane	8.58	107	60522	8.724	ug/L	96
51) Chlorobenzene	9.12	112	167060	9.577	ug/L	98
52) Ethylbenzene	9.25	91	258184	8.882	ug/L	98
53) m,p-Xylene	9.37	106	98186	9.164	ug/L	93
54) o-xylene	9.77	106	95365	8.971	ug/L	91
55) Styrene	9.79	104	161209	8.853	ug/L	98
56) Isopropylbenzene	10.16	105	248300	9.132	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	99877	8.575	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	77027	8.437	ug/L	99
61) Bromoform	9.95	173	48695	9.544	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	120695	9.650	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	130480	9.907	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	129200	9.758	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	19928	8.082	ug/L	90
67) 1,3,5-Trichlorobenzene	12.89	180	93875	10.346	ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	59415	8.513	ug/L	98
69) Naphthalene	13.74	128	163665	7.194	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	71232	9.360	ug/L	97

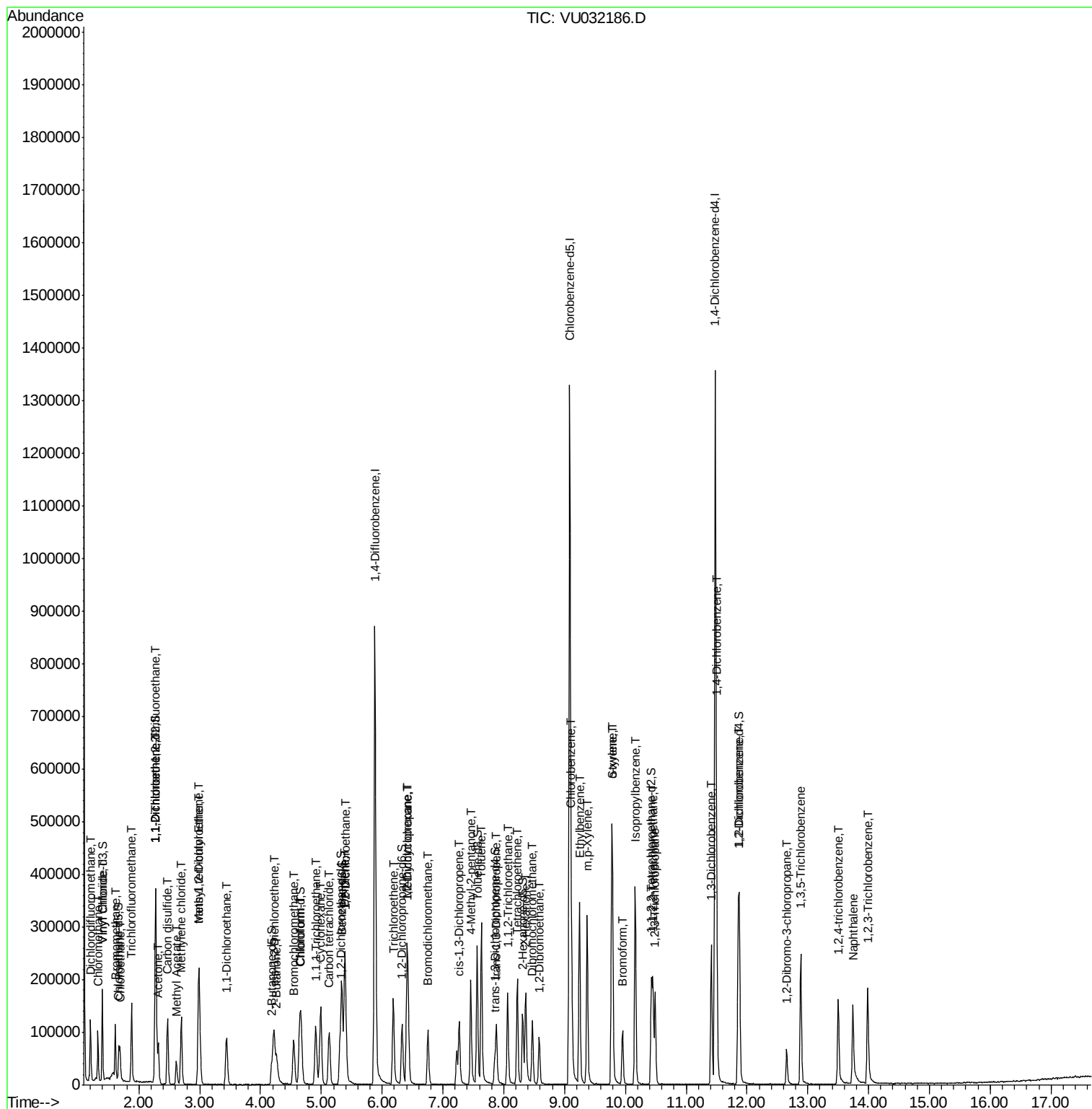
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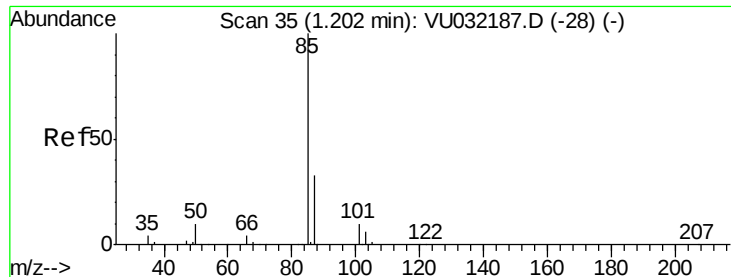
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#2

Dichlorodifluoromethane

Concen: 9.455 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

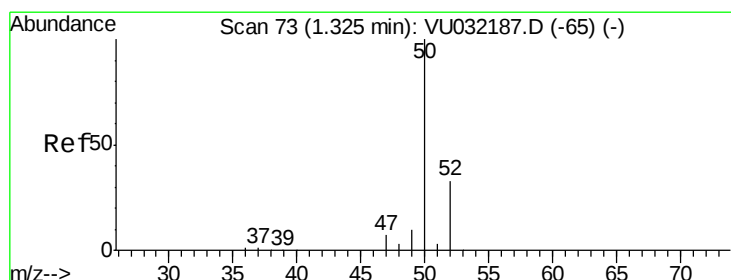
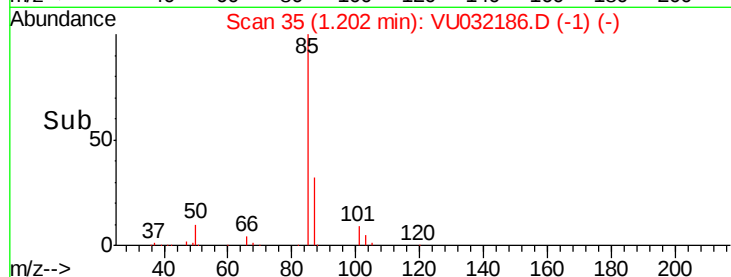
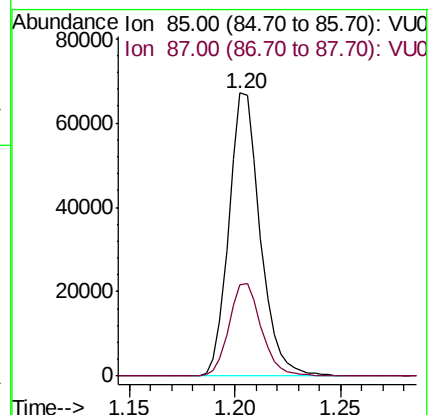
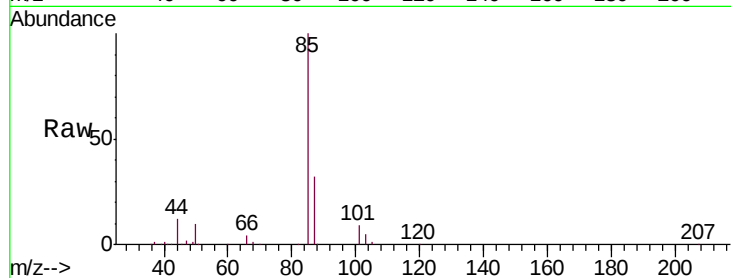
VSTD01052

Tgt Ion: 85 Resp: 69259

Ion Ratio Lower Upper

85 100

87 33.5 26.5 39.7



#3

Chloromethane

Concen: 7.447 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032186.D

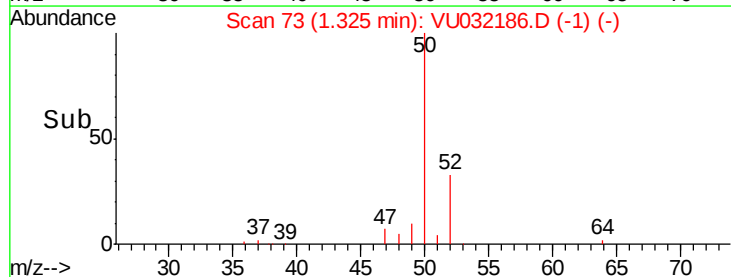
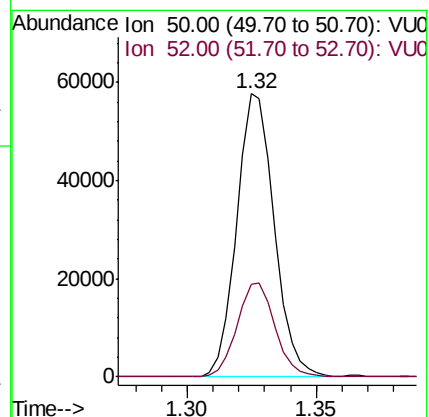
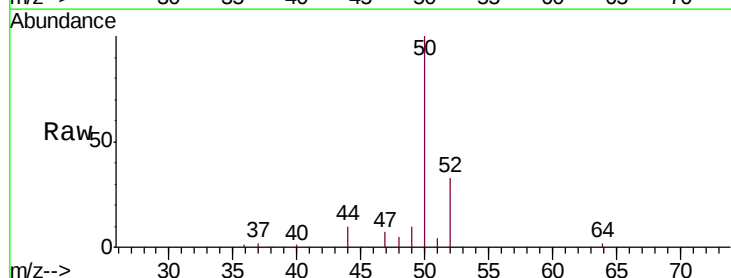
Acq: 21 May 2019 09:44

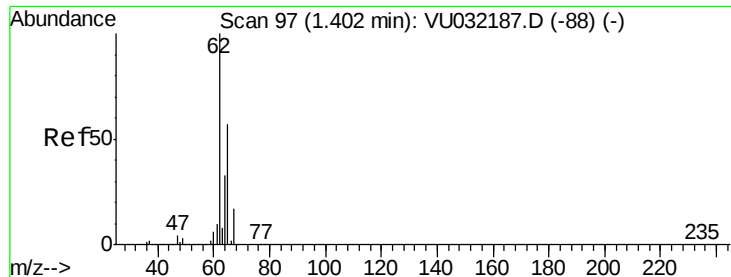
Tgt Ion: 50 Resp: 58707

Ion Ratio Lower Upper

50 100

52 32.5 23.1 42.9





#5

Vinyl chloride

Concen: 7.864 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

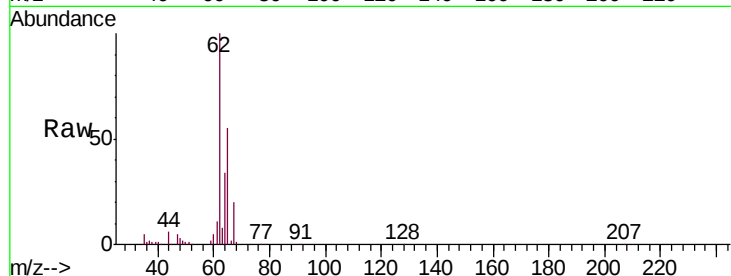
VSTD01052

Tgt Ion: 62 Resp: 65634

Ion Ratio Lower Upper

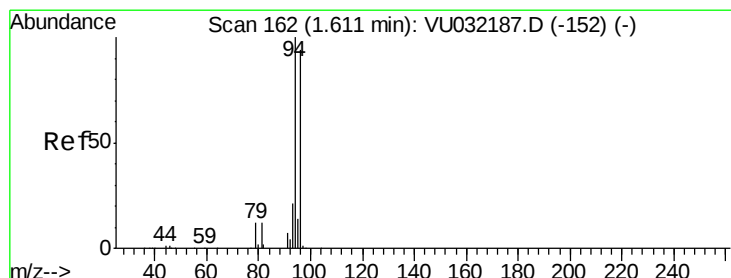
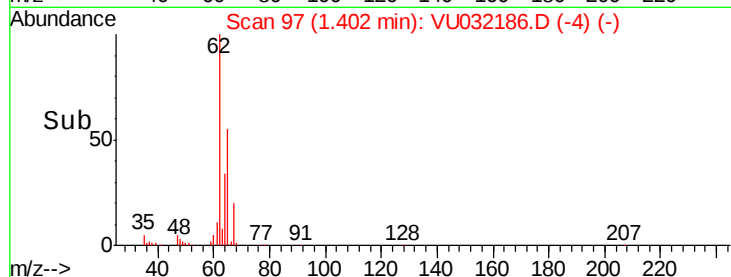
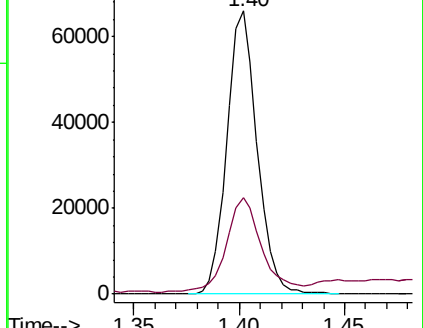
62 100

64 34.2 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU032186.D (-4) (-)

Ion 64.00 (63.70 to 64.70): VU032186.D (-4) (-)



#6

Bromomethane

Concen: 10.485 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032186.D

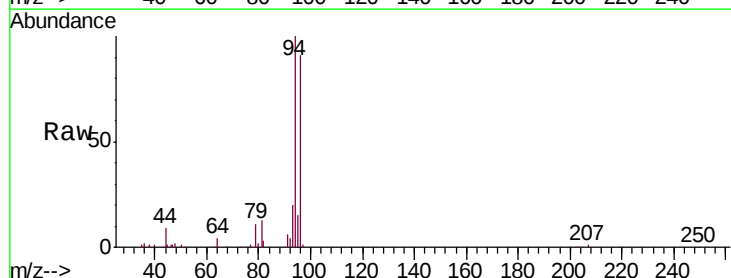
Acq: 21 May 2019 09:44

Tgt Ion: 94 Resp: 47933

Ion Ratio Lower Upper

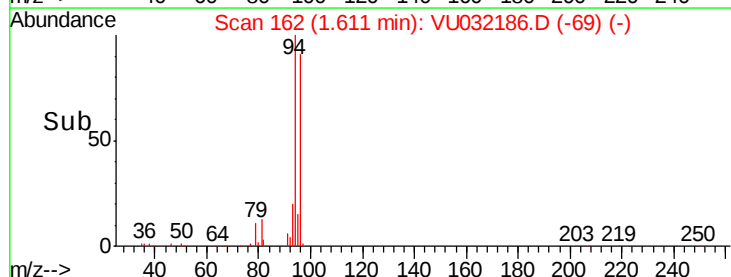
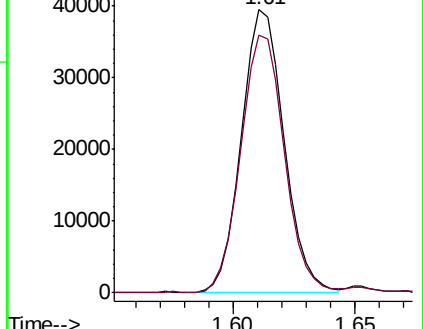
94 100

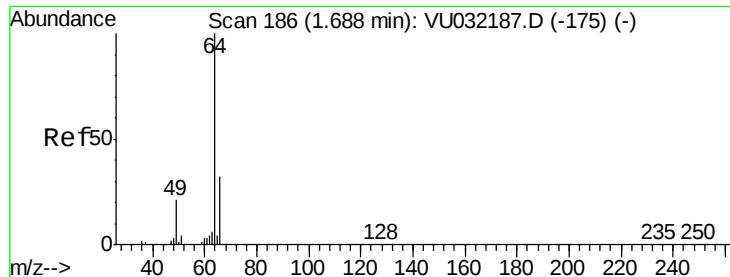
96 91.2 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU032186.D (-69) (-)

Ion 96.00 (95.70 to 96.70): VU032186.D (-69) (-)

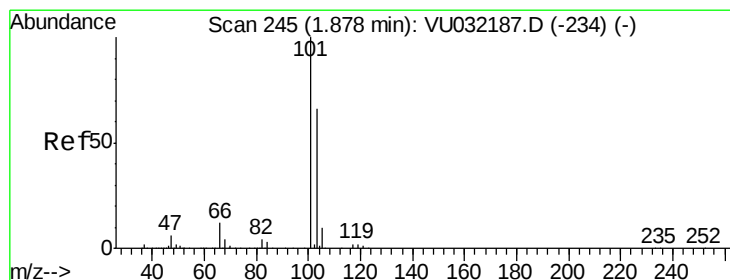
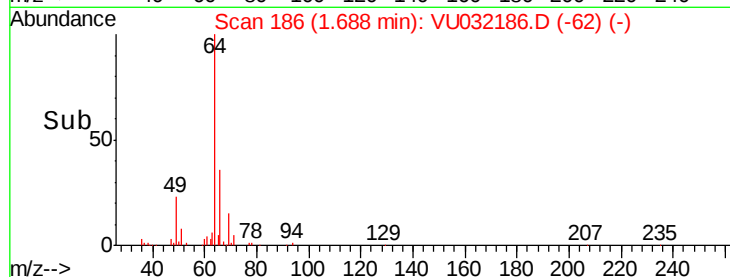
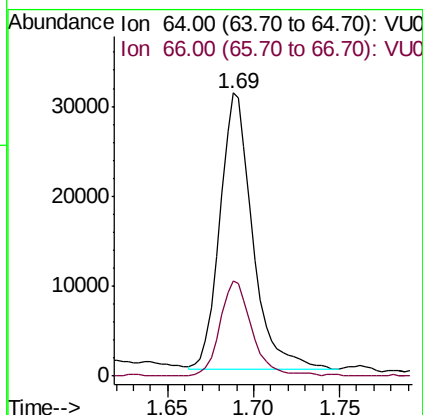
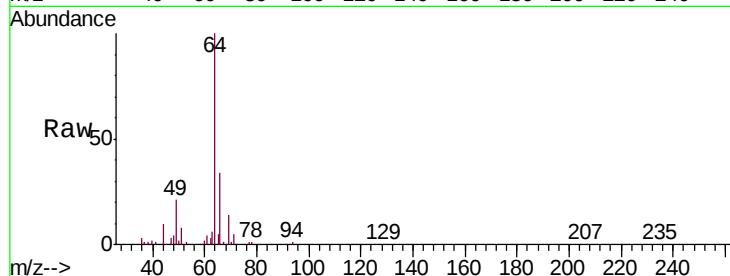




#8
Chloroethane
Concen: 8.303 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

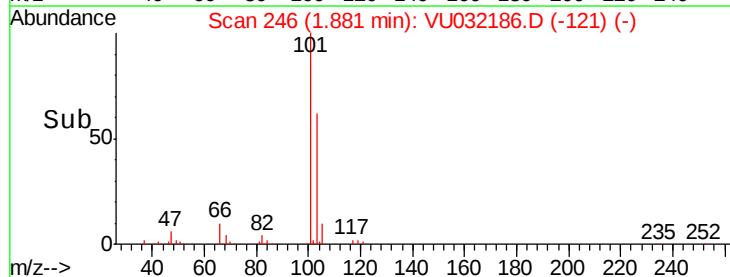
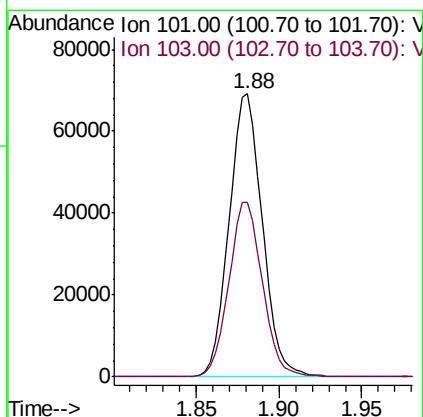
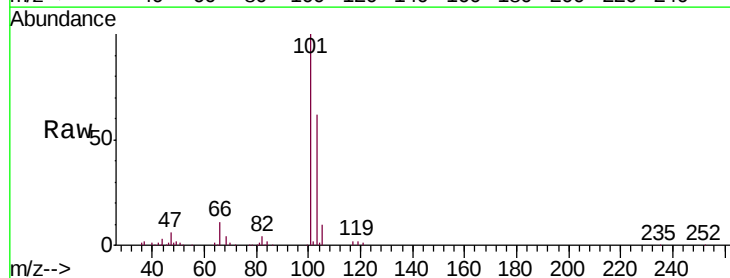
Instrument :
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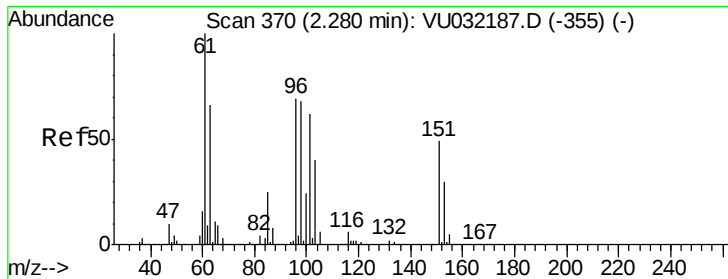
Tgt Ion: 64 Resp: 41131
Ion Ratio Lower Upper
64 100
66 33.7 22.1 41.1



#9
Trichlorofluoromethane
Concen: 9.867 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

Tgt Ion: 101 Resp: 96516
Ion Ratio Lower Upper
101 100
103 62.4 52.5 78.7





#10

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

Concen: 9.313 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

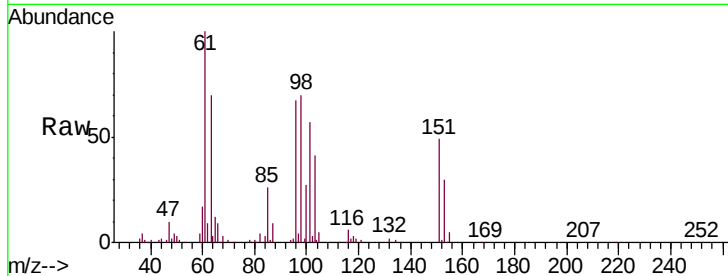
Tgt Ion:101 Resp: 55556

Ion Ratio Lower Upper

101 100

85 41.4 32.5 48.7

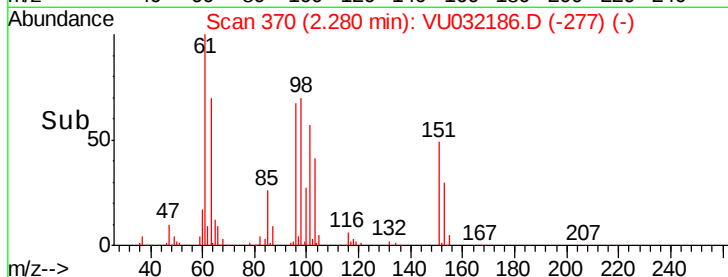
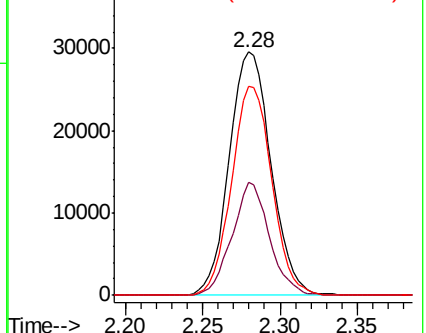
151 82.6 63.1 94.7



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: 9.600 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

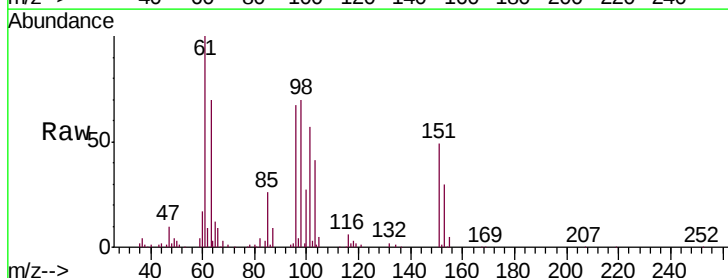
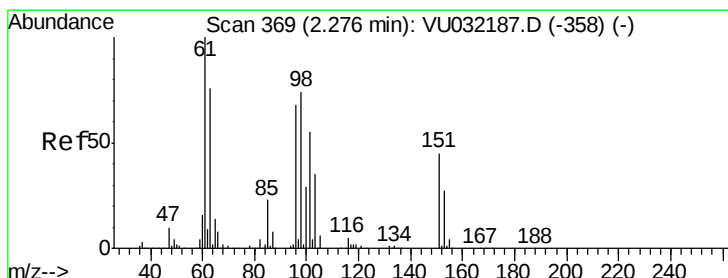
Tgt Ion: 96 Resp: 56765

Ion Ratio Lower Upper

96 100

61 148.6 103.7 192.7

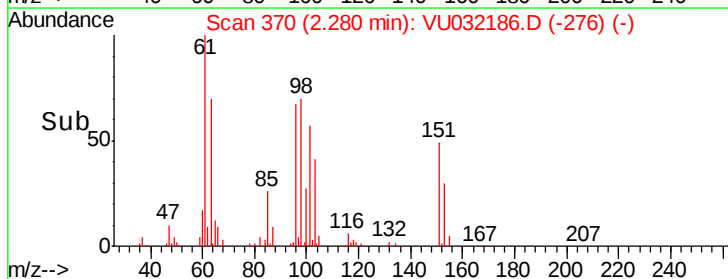
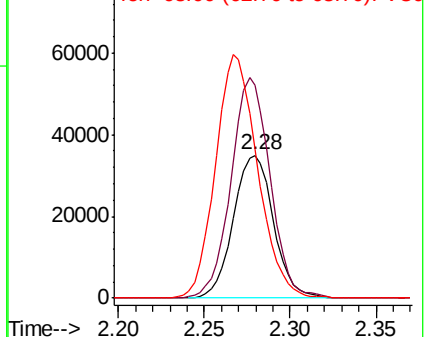
63 103.9 83.3 154.7

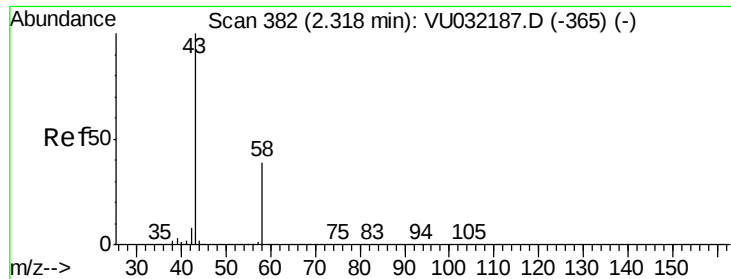


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 14.823 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

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ClientSampleId :

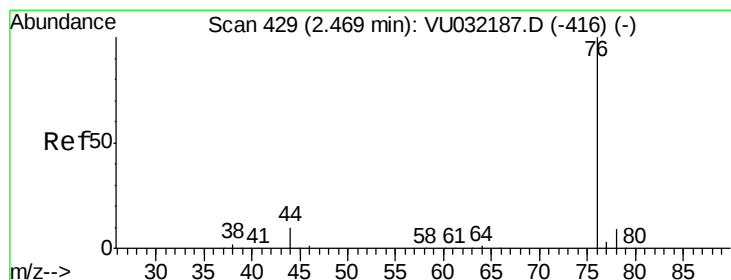
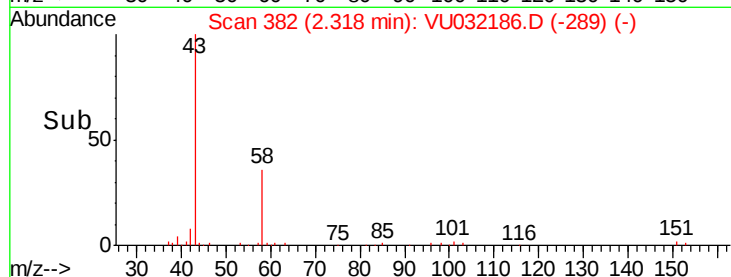
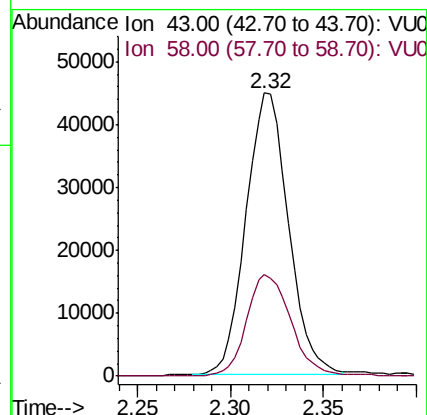
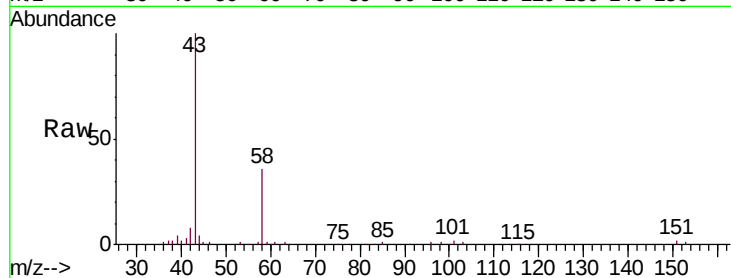
VSTD01052

Tgt Ion: 43 Resp: 71181

Ion Ratio Lower Upper

43 100

58 37.6 0.0 76.8



#14

Carbon disulfide

Concen: 8.551 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032186.D

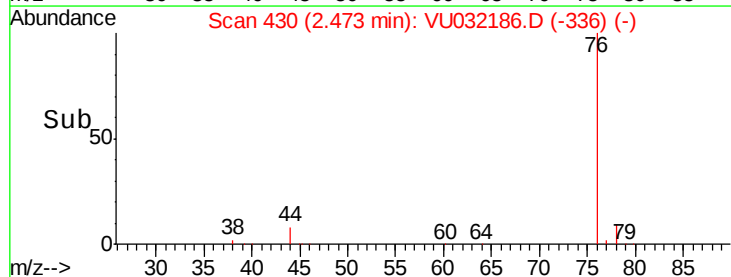
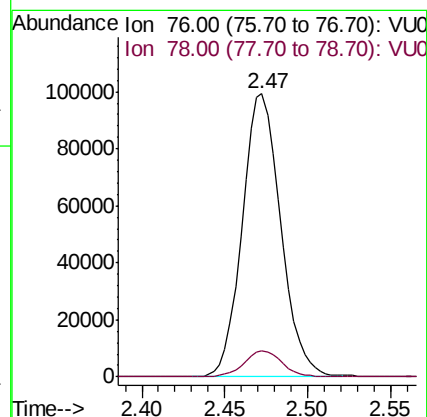
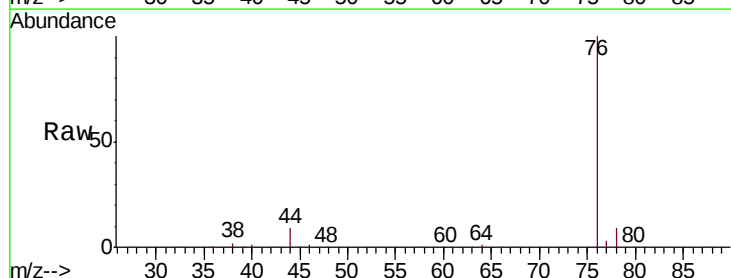
Acq: 21 May 2019 09:44

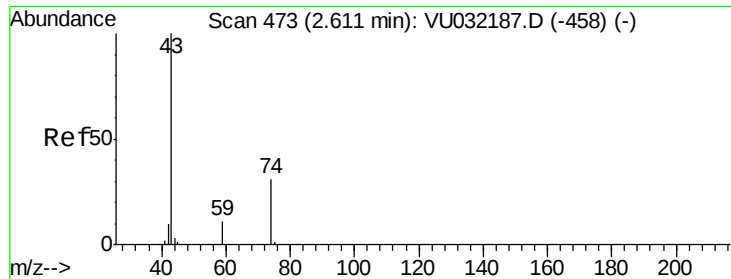
Tgt Ion: 76 Resp: 160566

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0





#15

Methyl Acetate

Concen: 6.600 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

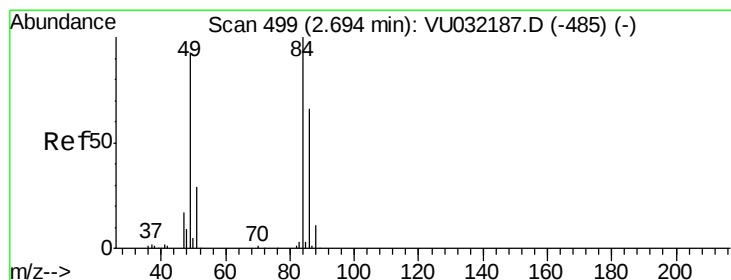
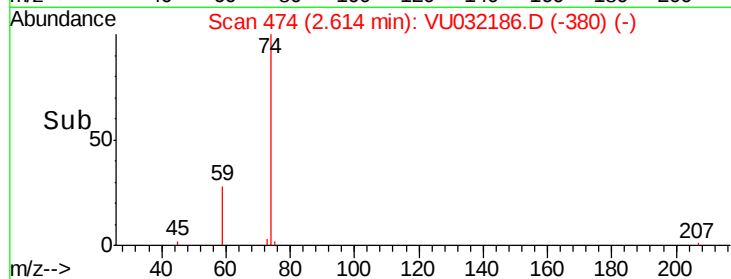
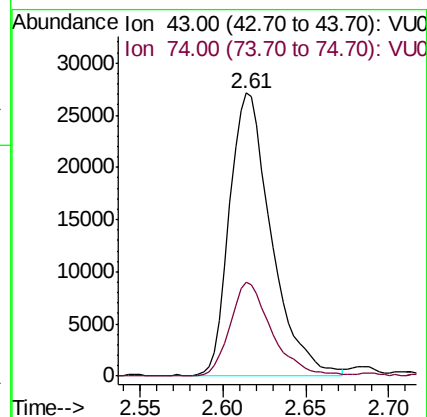
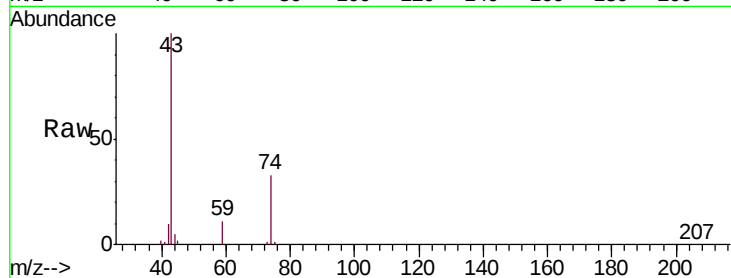
VSTD01052

Tgt Ion: 43 Resp: 47714

Ion Ratio Lower Upper

43 100

74 32.9 25.4 38.0



#16

Methylene chloride

Concen: 9.281 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

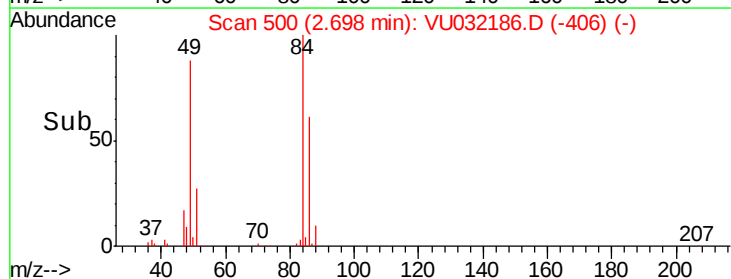
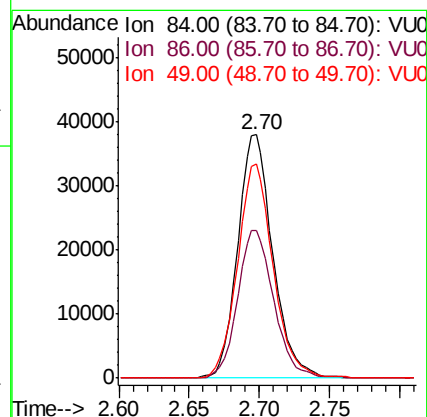
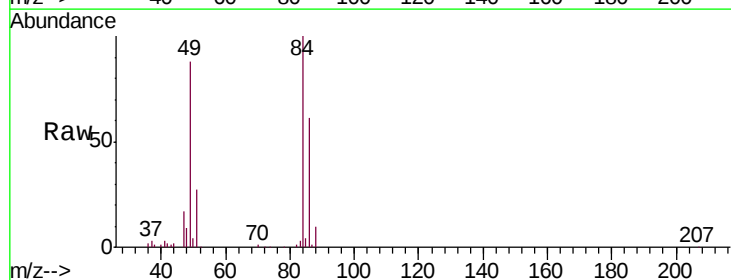
Tgt Ion: 84 Resp: 66162

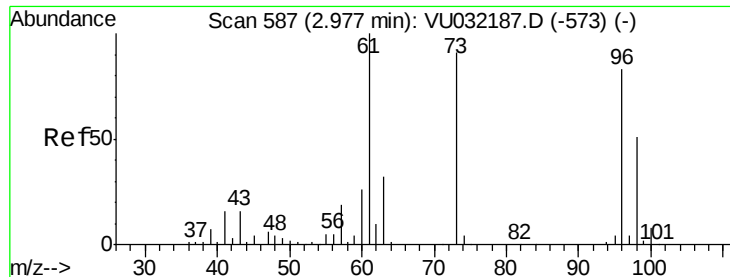
Ion Ratio Lower Upper

84 100

86 60.8 46.0 85.4

49 88.2 64.8 120.4





#17

trans-1,2-Dichloroethene

Concen: 9.169 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

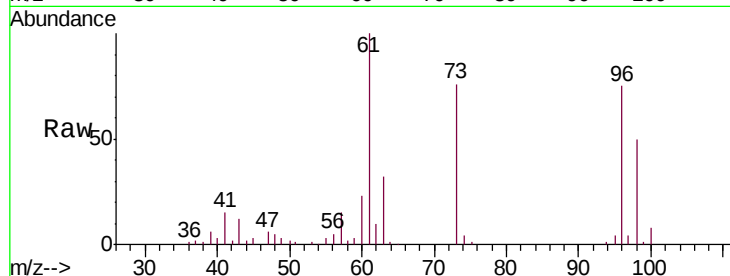
Tgt Ion: 96 Resp: 56398

Ion Ratio Lower Upper

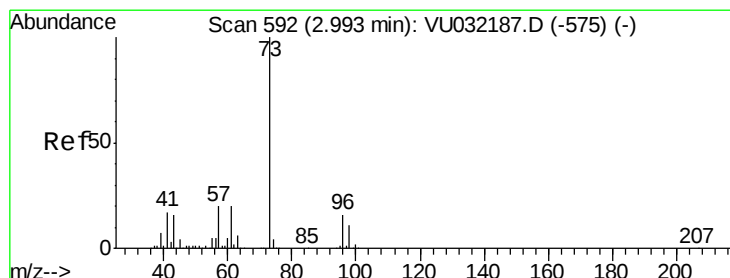
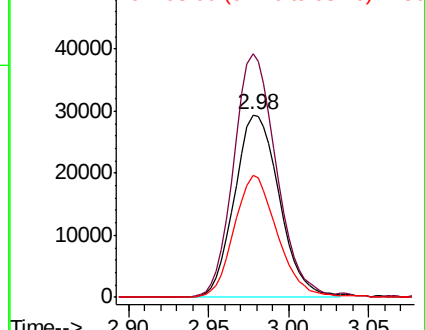
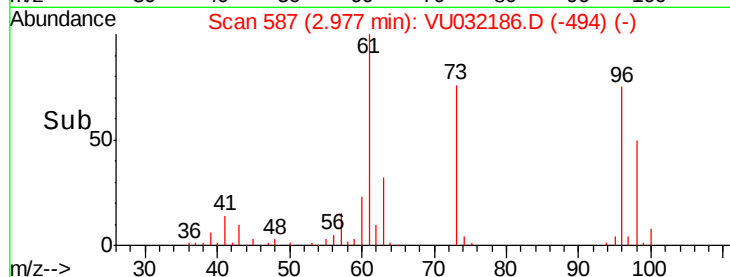
96 100

61 133.4 83.9 155.9

98 66.6 42.4 78.8



Abundance Ion 96.00 (95.70 to 96.70): VU032186.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 8.475 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

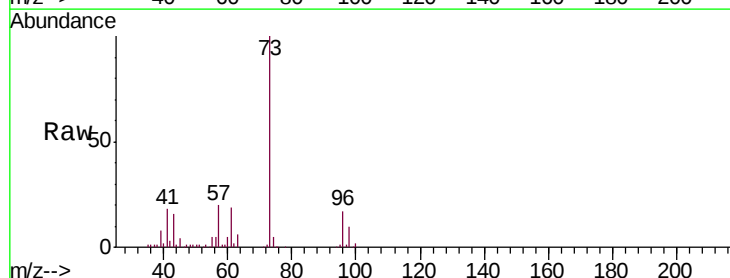
Tgt Ion: 73 Resp: 157971

Ion Ratio Lower Upper

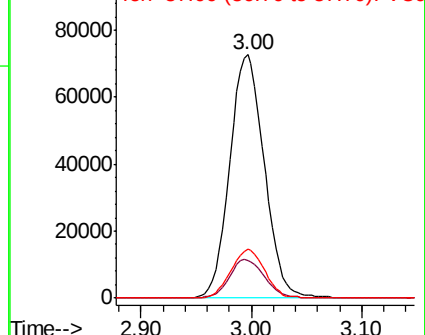
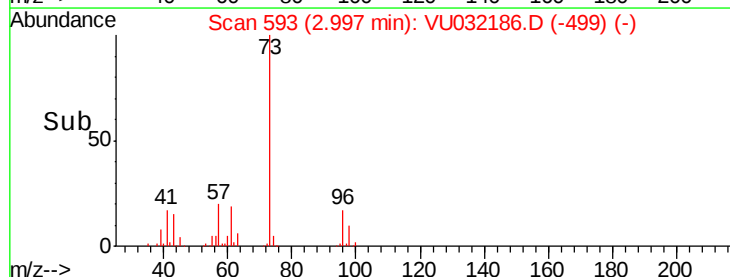
73 100

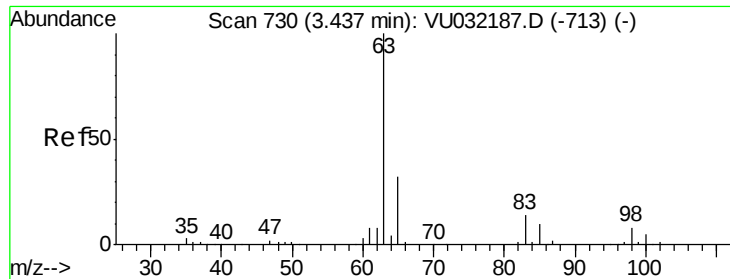
43 16.2 13.0 19.6

57 19.6 16.1 24.1



Abundance Ion 73.00 (72.70 to 73.70): VU032186.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 8.274 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

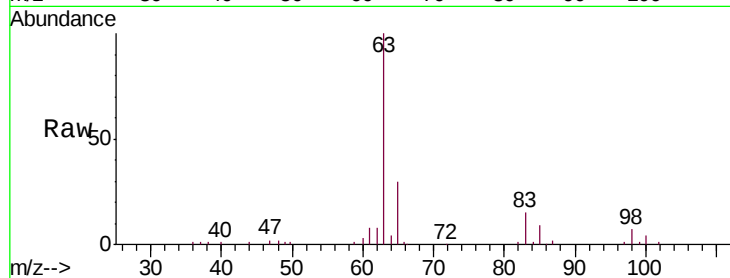
Tgt Ion: 63 Resp: 97347

Ion Ratio Lower Upper

63 100

65 30.2 22.4 41.6

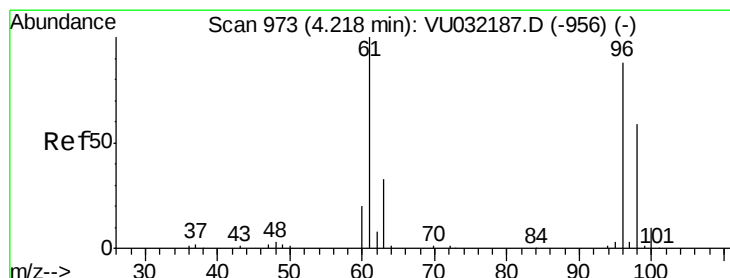
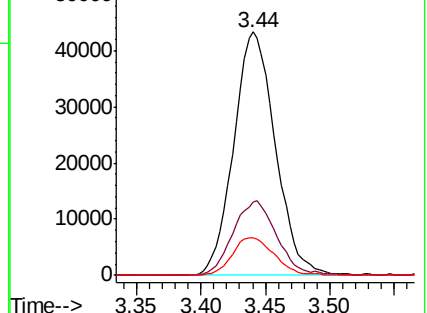
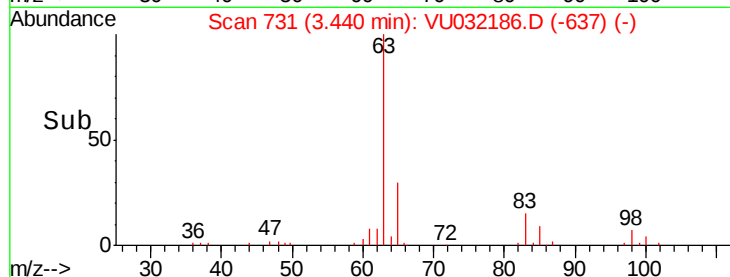
83 15.3 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU032186.D (-637) (-)

Ion 65.00 (64.70 to 65.70): VU032186.D (-637) (-)

Ion 83.00 (82.70 to 83.70): VU032186.D (-637) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.282 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

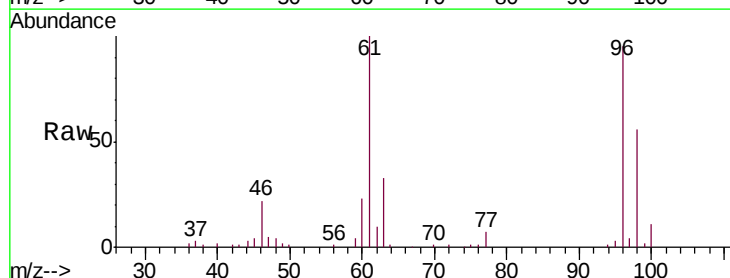
Tgt Ion: 96 Resp: 62899

Ion Ratio Lower Upper

96 100

61 105.0 79.9 148.3

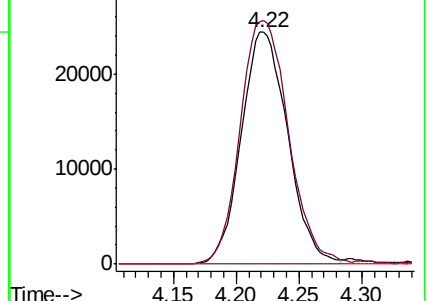
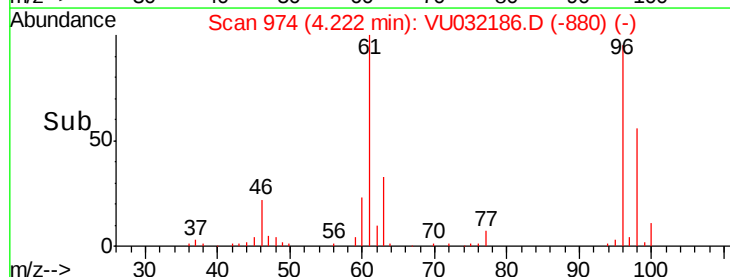
68 0.0 0.0 0.0

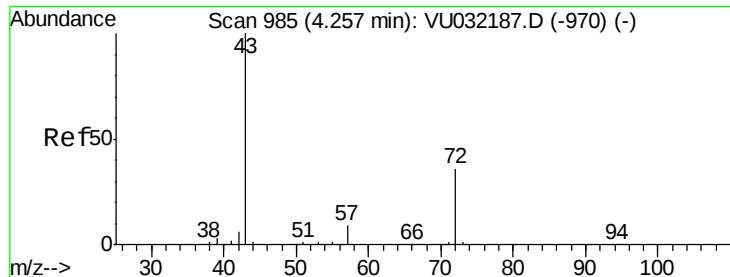


Abundance Ion 96.00 (95.70 to 96.70): VU032186.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU032186.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU032186.D (-880) (-)





#22

2-Butanone

Concen: 12.564 ug/L

RT: 4.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

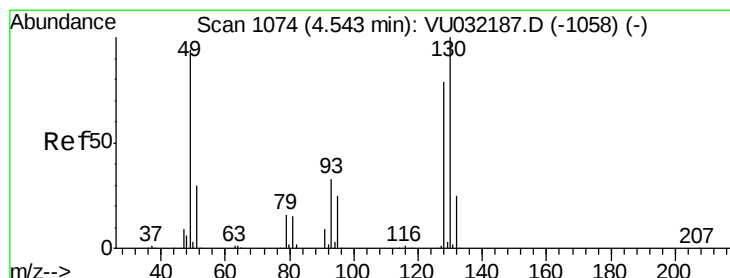
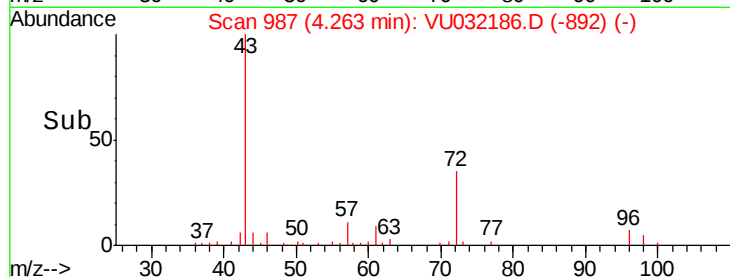
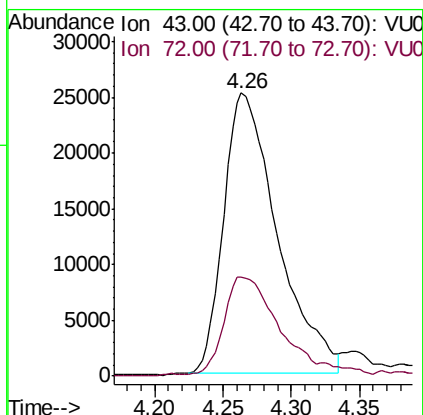
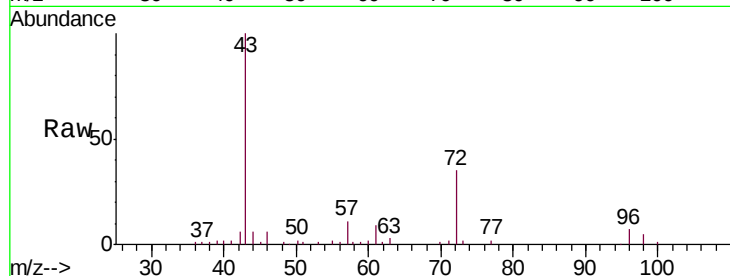
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

Tgt Ion: 43 Resp: 68697

Ion Ratio Lower Upper

43 100

72 35.0 17.8 53.3



#23

Bromochloromethane

Concen: 9.988 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Tgt Ion: 128 Resp: 33894

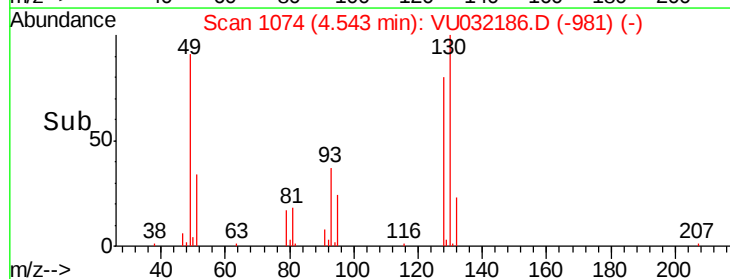
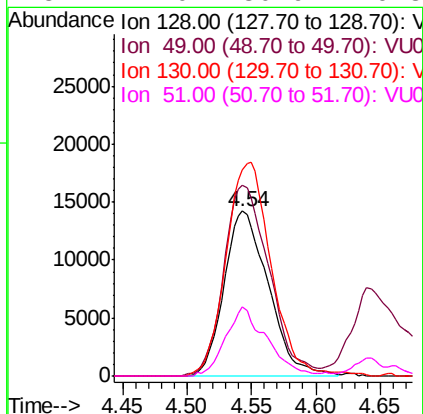
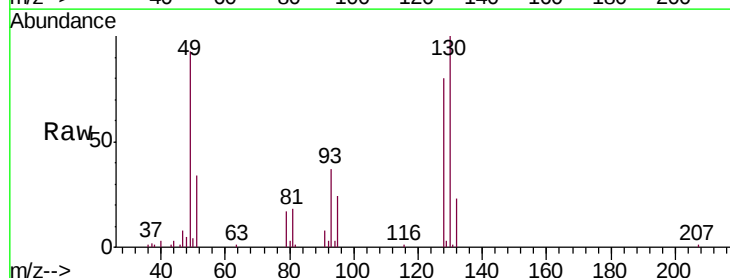
Ion Ratio Lower Upper

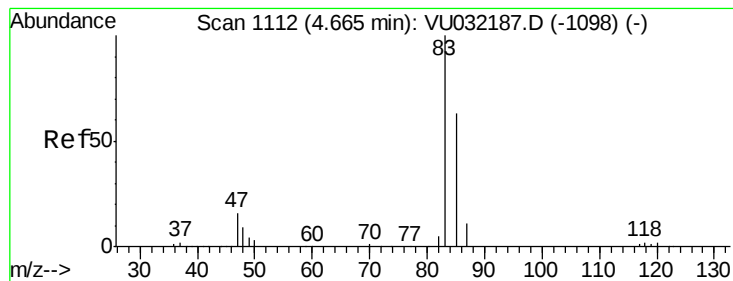
128 100

49 116.0 83.5 155.1

130 125.1 89.2 165.6

51 42.0 30.9 46.3





#25

Chloroform

Concen: 9.050 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

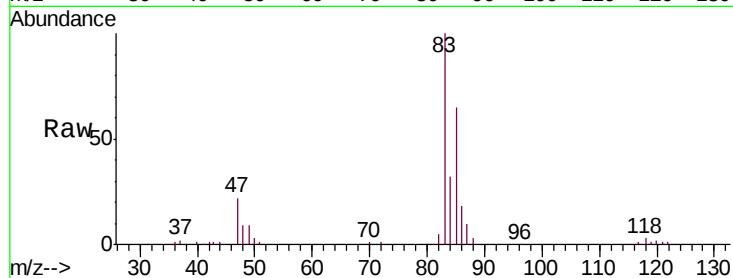
VSTD01052

Tgt Ion: 83 Resp: 107314

Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1



Abundance Ion 83.00 (82.70 to 83.70): VU032186.D (-1098) (-)

Ion 85.00 (84.70 to 85.70): VU032186.D (-1098) (-)

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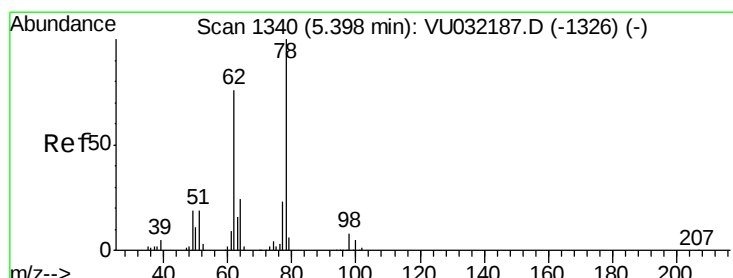
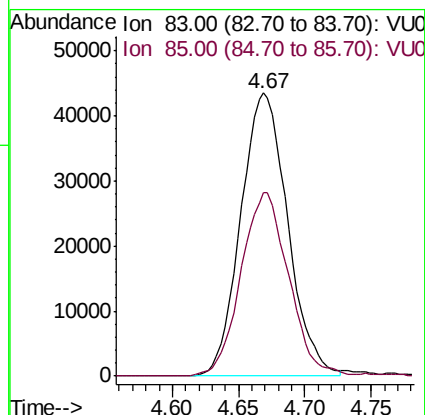
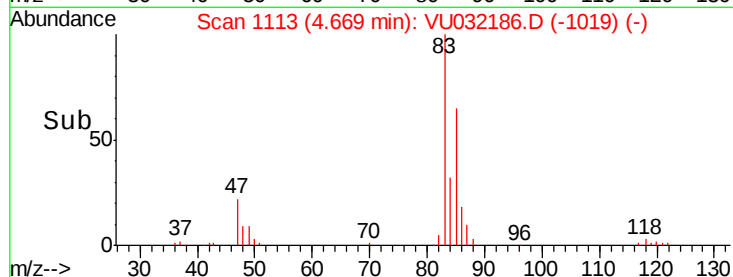
4.67

4.67

4.67

4.67

4.67



#27

1,2-Dichloroethane

Concen: 8.750 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU032186.D

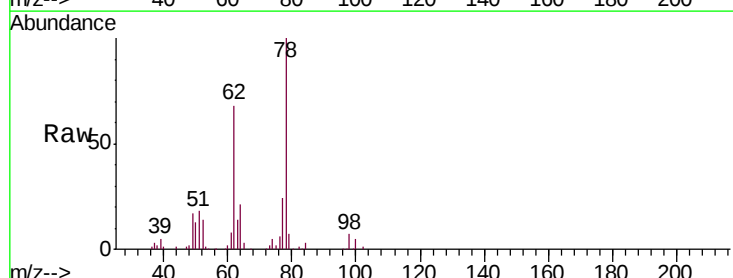
Acq: 21 May 2019 09:44

Tgt Ion: 62 Resp: 79352

Ion Ratio Lower Upper

62 100

98 10.2 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VU032186.D (-1247) (-)

Ion 98.00 (97.70 to 98.70): VU032186.D (-1247) (-)

5.40

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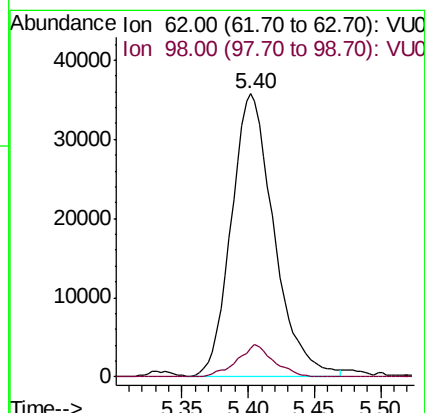
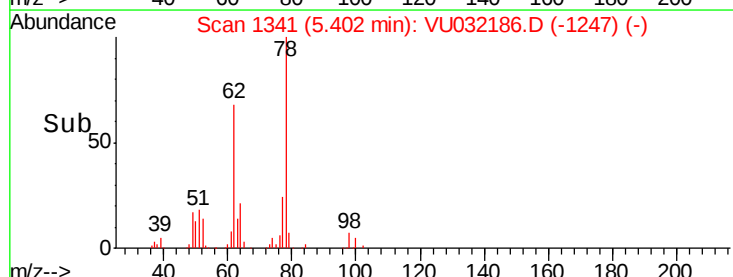
5.40

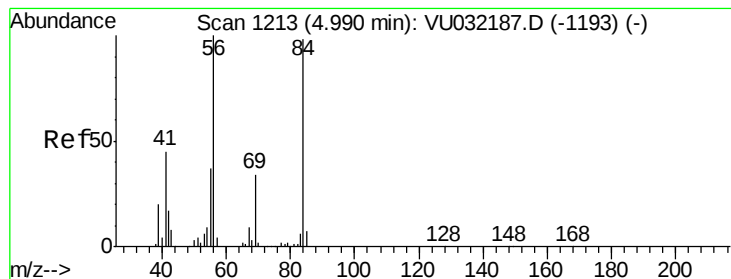
5.40

5.40

5.40

5.40





#29

Cyclohexane

Concen: 7.765 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

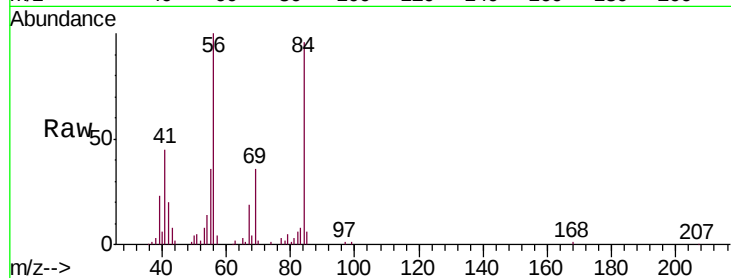
Tgt Ion: 56 Resp: 74274

Ion Ratio Lower Upper

56 100

69 33.3 27.6 41.4

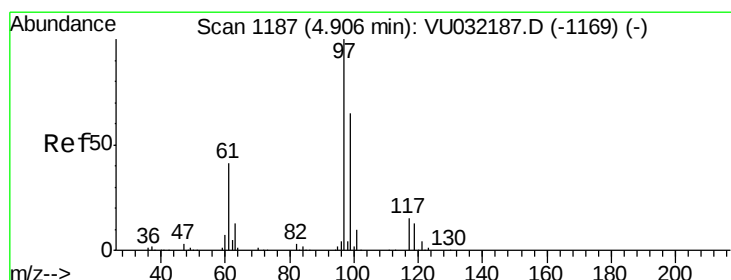
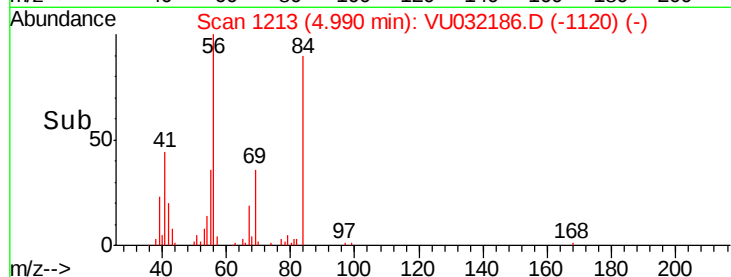
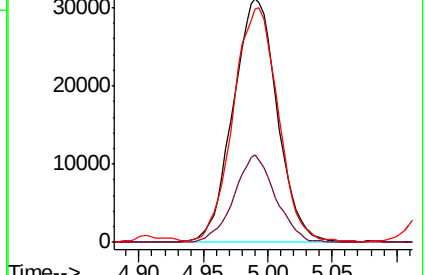
84 96.2 79.3 118.9



Abundance Ion 56.00 (55.70 to 56.70): VU032187.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU032187.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU032187.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 9.602 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

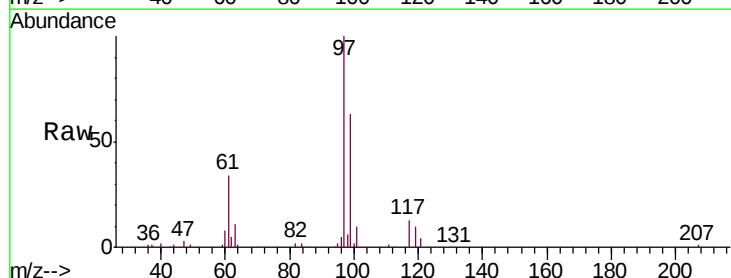
Tgt Ion: 97 Resp: 90297

Ion Ratio Lower Upper

97 100

99 60.9 51.4 77.2

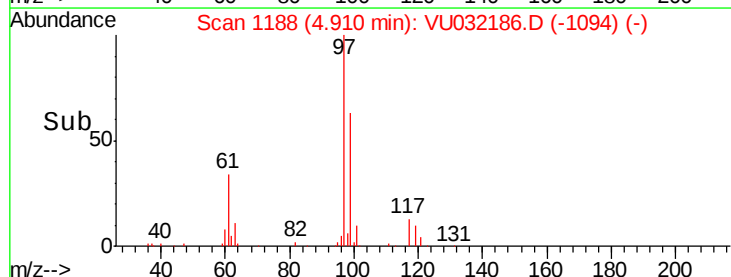
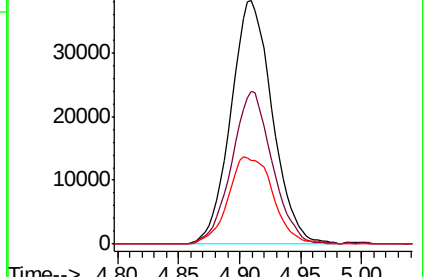
61 38.4 33.4 50.0

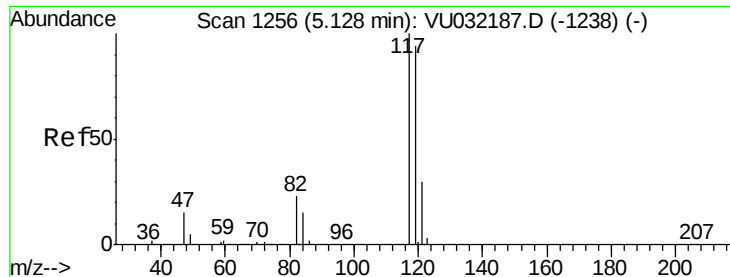


Abundance Ion 97.00 (96.70 to 97.70): VU032187.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032187.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032187.D (-1169) (-)





#31

Carbon tetrachloride

Concen: 9.821 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

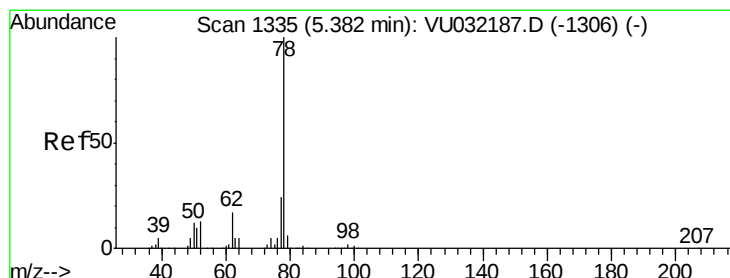
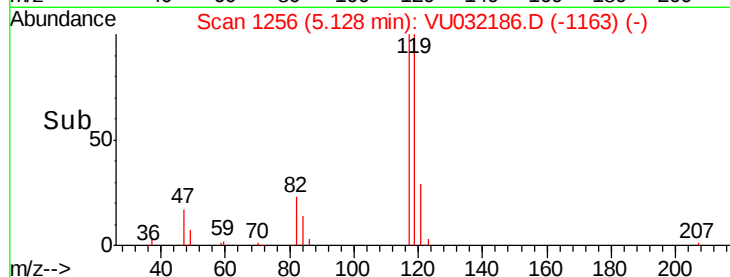
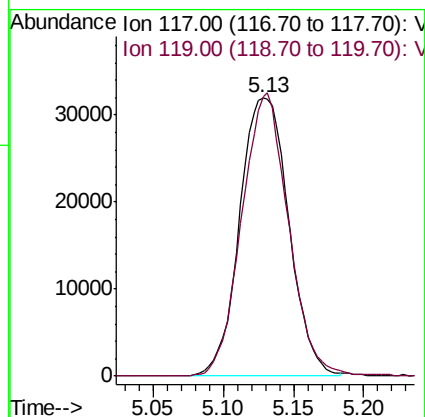
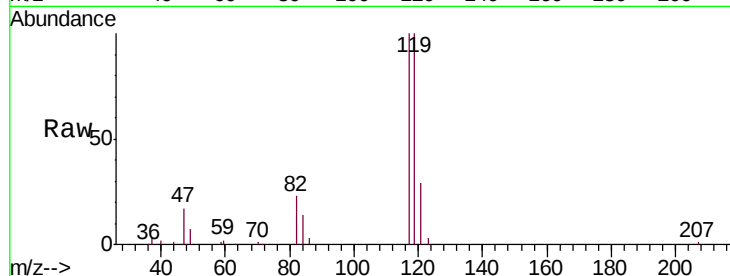
VSTD01052

Tgt Ion:117 Resp: 77965

Ion Ratio Lower Upper

117 100

119 96.4 75.4 113.2



#33

Benzene

Concen: 8.859 ug/L

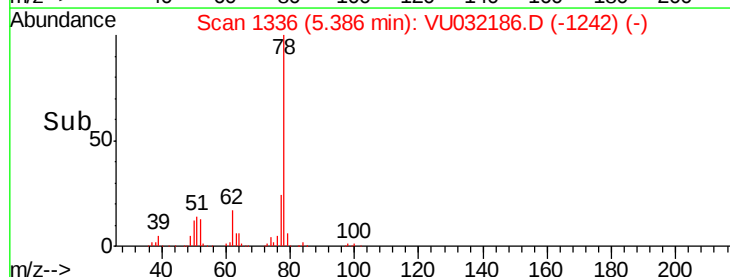
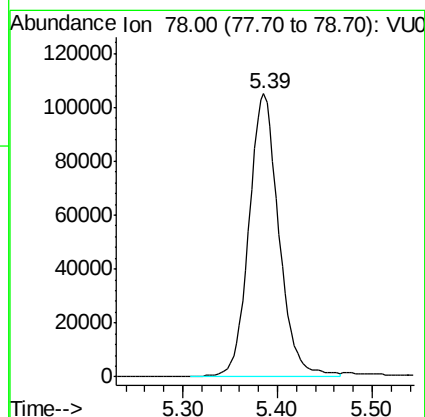
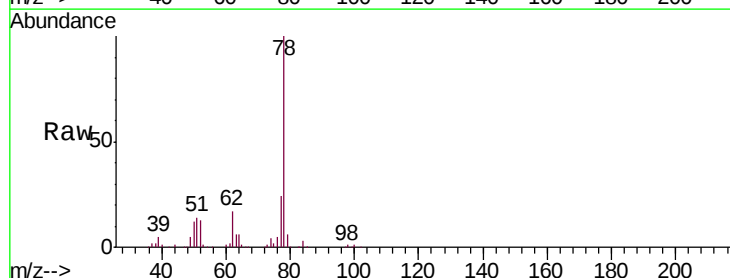
RT: 5.39 min Scan# 1336

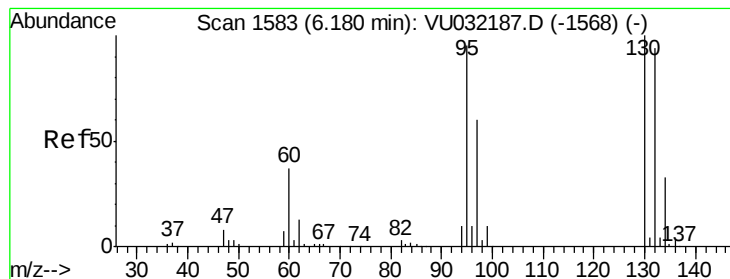
Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Tgt Ion: 78 Resp: 231388





#34

Trichloroethene

Concen: 9.124 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

Tgt Ion: 95 Resp: 59950

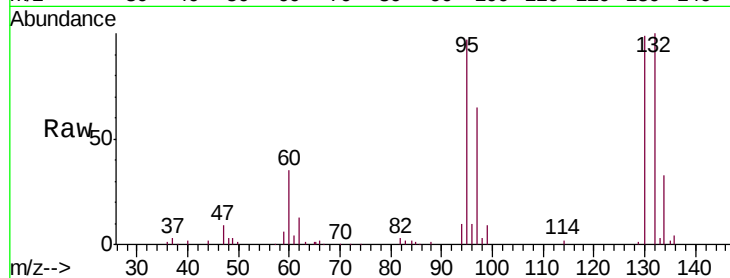
Ion Ratio Lower Upper

95 100

97 67.7 44.5 82.7

132 103.5 69.4 129.0

130 102.4 73.8 137.0

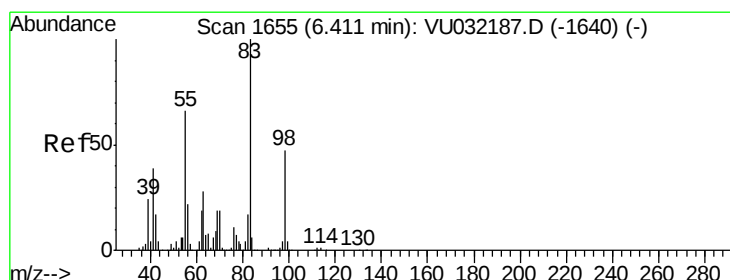
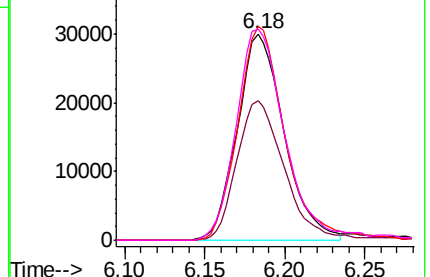
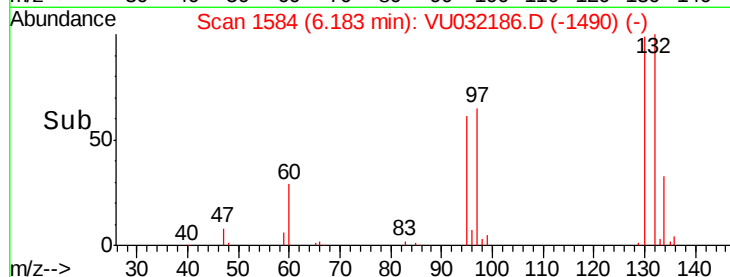


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.010 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

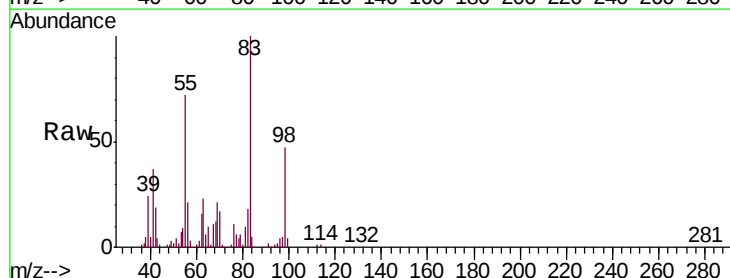
Tgt Ion: 83 Resp: 90152

Ion Ratio Lower Upper

83 100

55 69.3 53.8 80.8

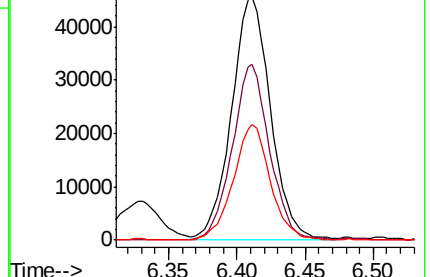
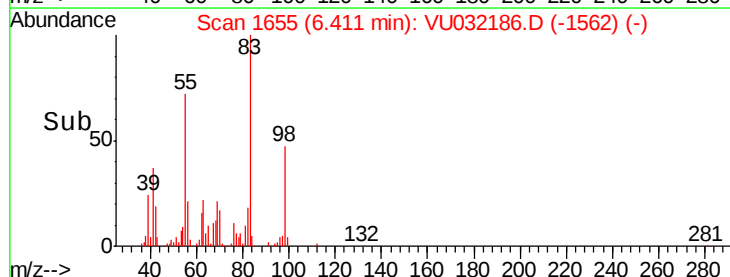
98 45.2 38.4 57.6

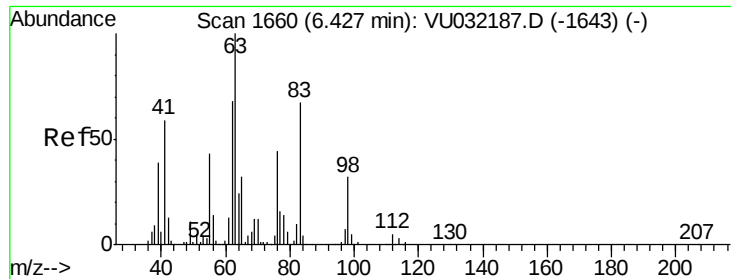


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

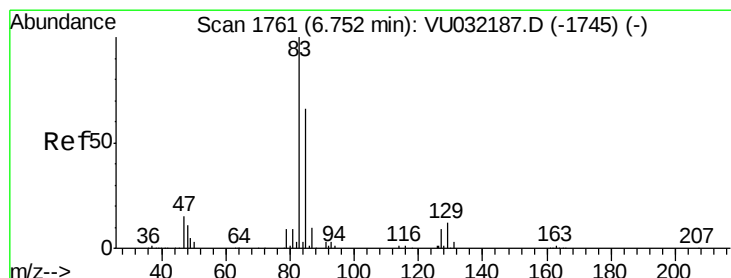
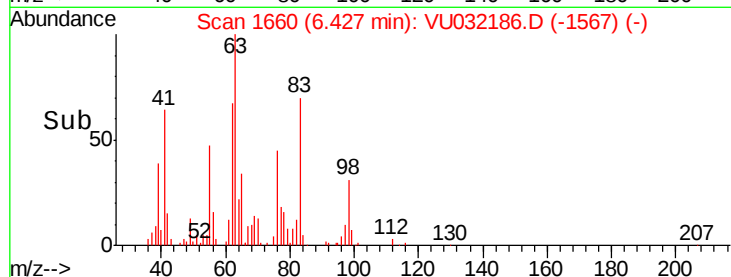
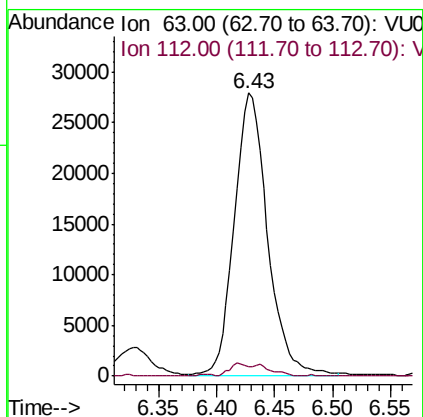
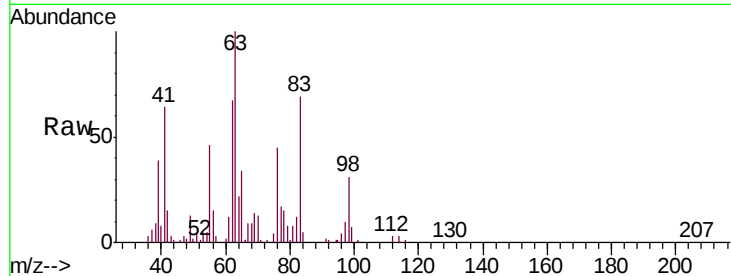




#37
 1,2-Dichloropropane
 Concen: 8.115 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

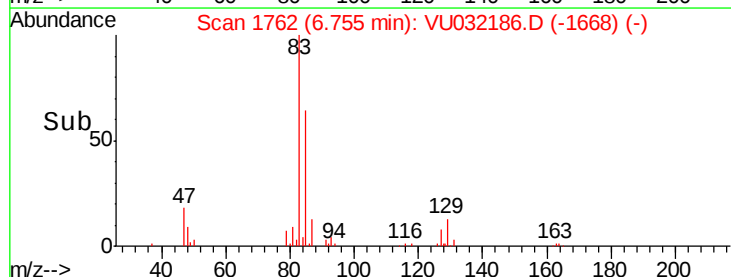
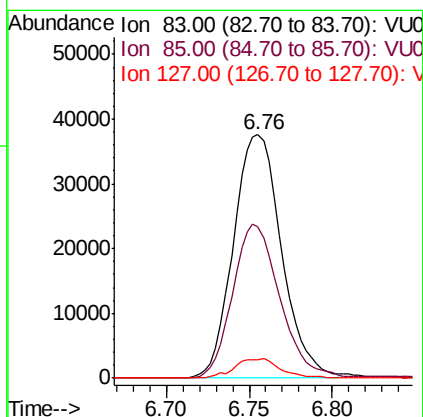
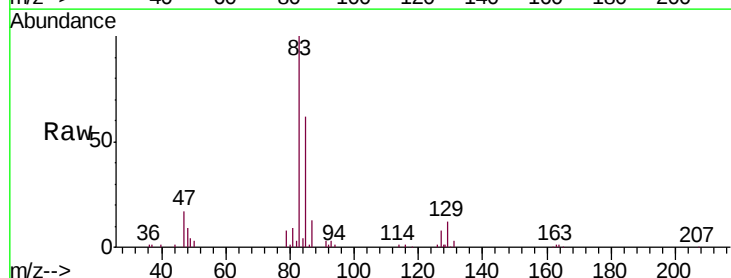
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

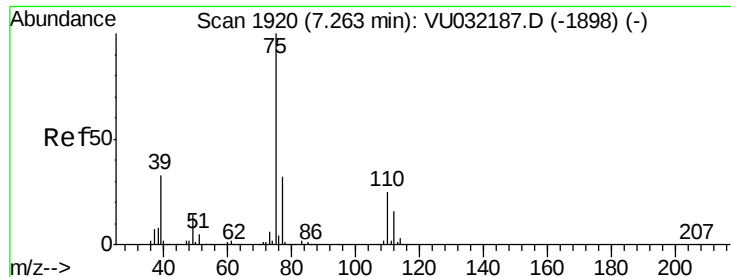
Tgt Ion: 63 Resp: 56042
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.8 5.6#



#38
 Bromodichloromethane
 Concen: 8.759 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

Tgt Ion: 83 Resp: 75865
 Ion Ratio Lower Upper
 83 100
 85 62.2 46.0 85.4
 127 7.8 7.5 11.3

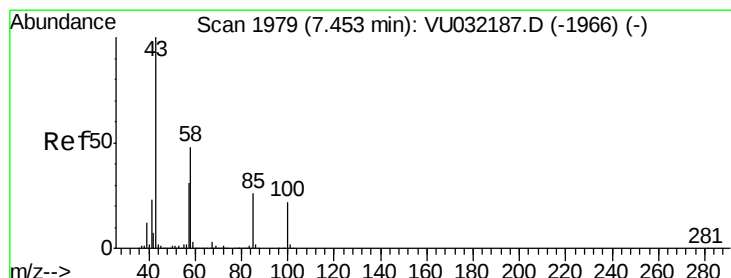
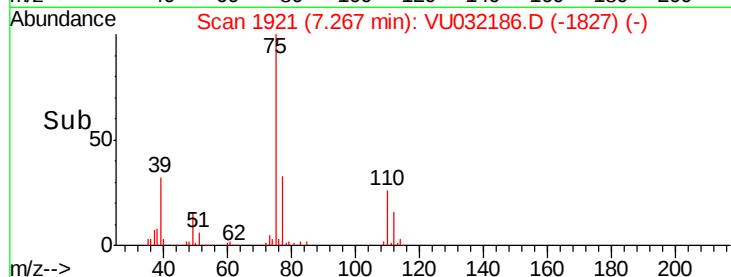
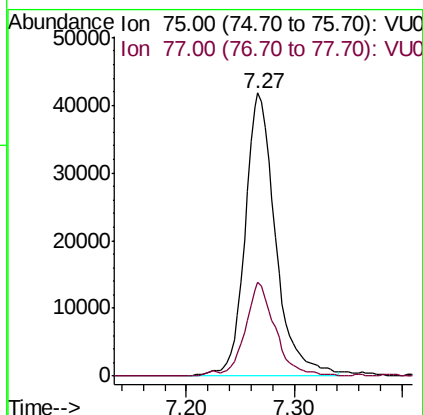
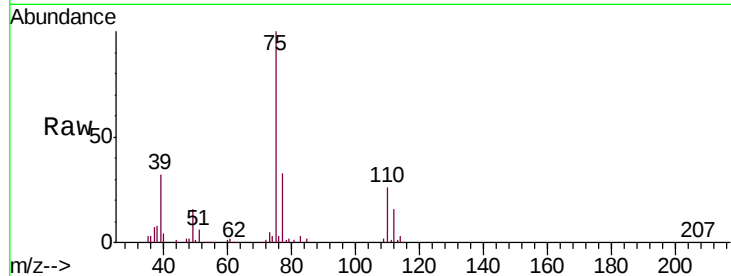




#39
 cis-1,3-Dichloropropene
 Concen: 8.267 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

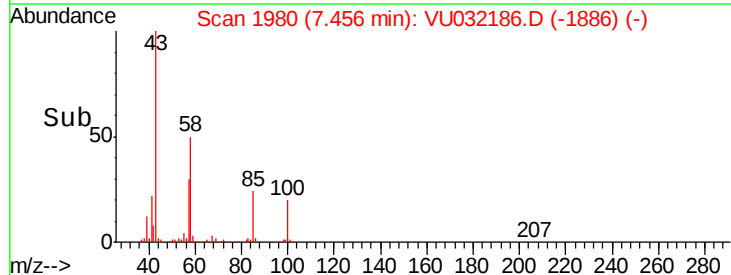
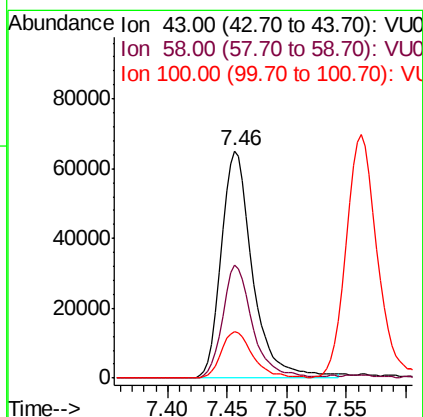
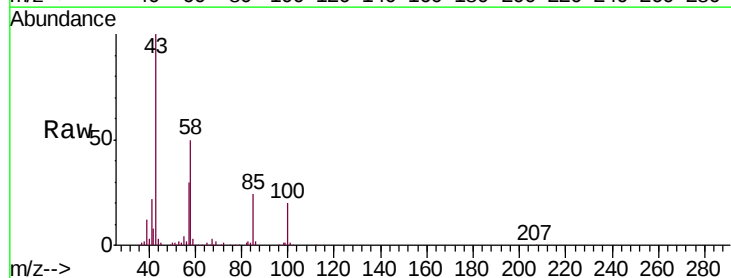
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

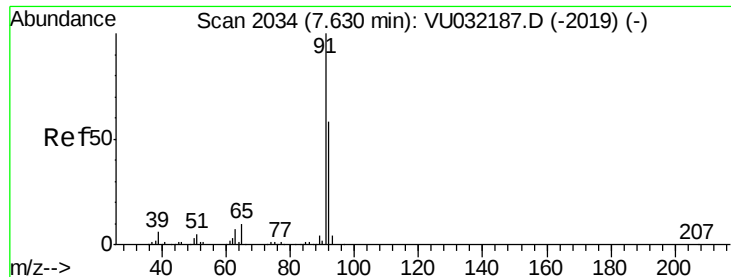
Tgt Ion: 75 Resp: 82174
 Ion Ratio Lower Upper
 75 100
 77 33.2 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 13.065 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

Tgt Ion: 43 Resp: 119057
 Ion Ratio Lower Upper
 43 100
 58 47.0 38.6 58.0
 100 20.3 17.9 26.9





#42

Toluene

Concen: 8.908 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

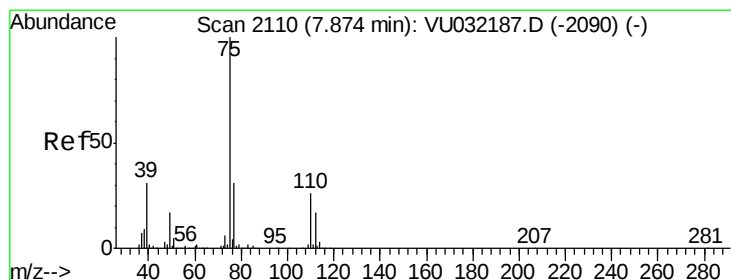
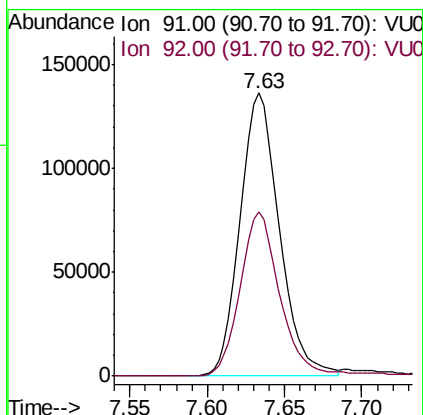
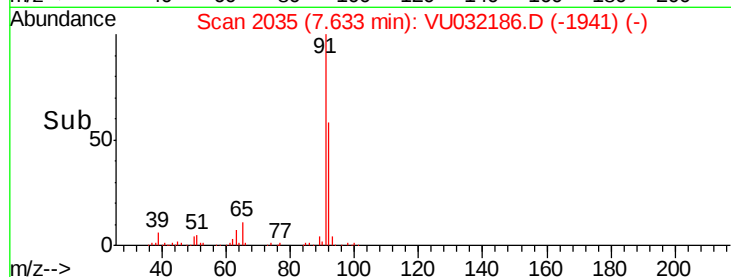
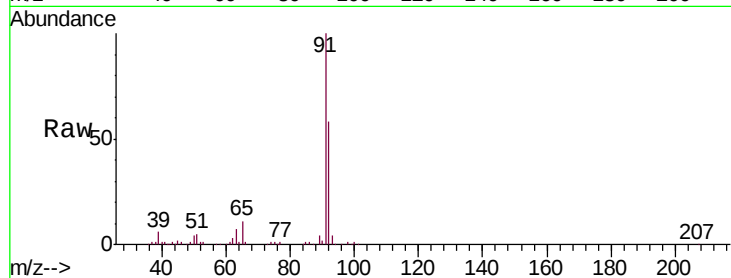
VSTD01052

Tgt Ion: 91 Resp: 241508

Ion Ratio Lower Upper

91 100

92 58.0 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 8.115 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU032186.D

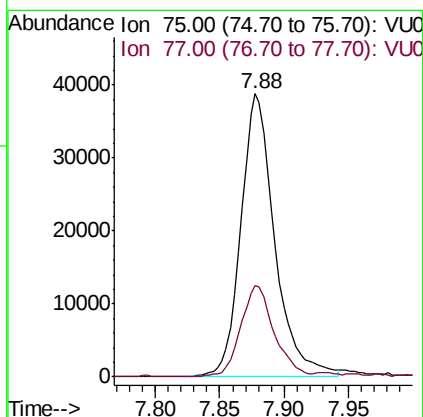
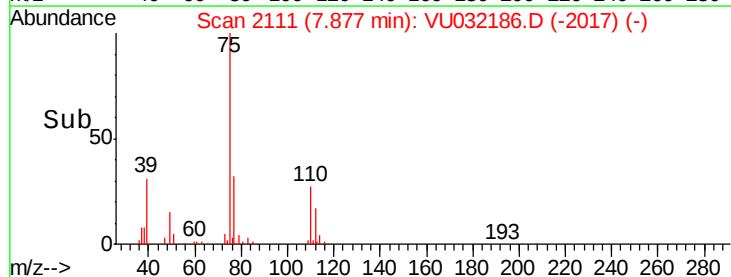
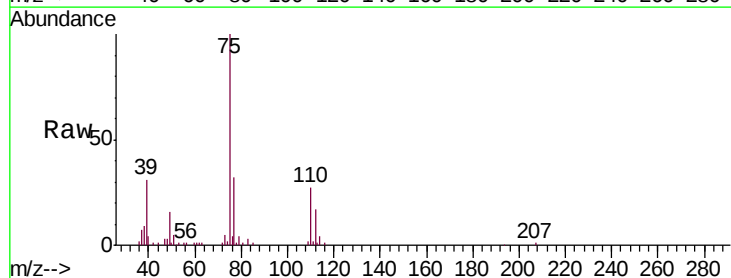
Acq: 21 May 2019 09:44

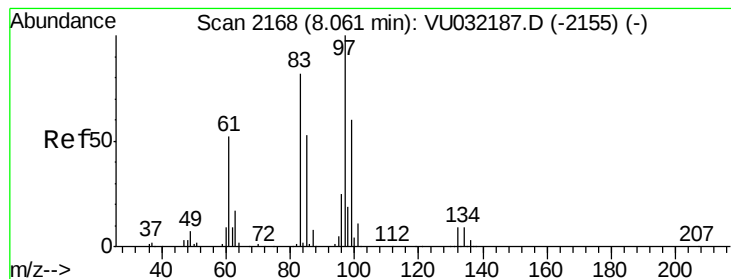
Tgt Ion: 75 Resp: 71042

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.4





#45

1,1,2-Trichloroethane

Concen: 8.931 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

Tgt Ion: 97 Resp: 58489

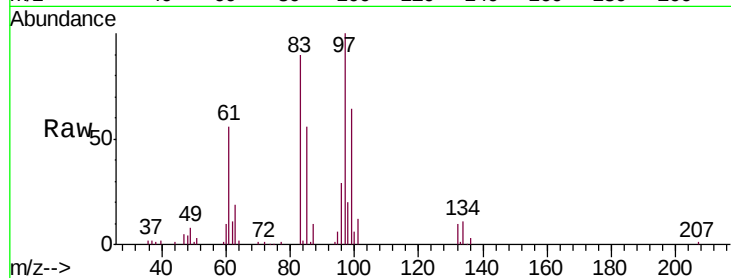
Ion Ratio Lower Upper

97 100

99 64.5 41.8 77.6

83 89.6 57.3 106.3

85 56.0 37.2 69.2



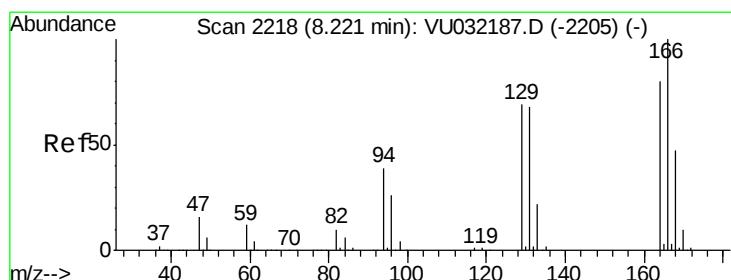
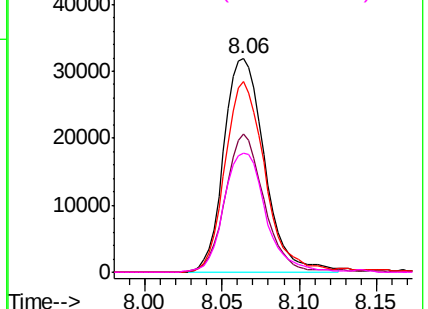
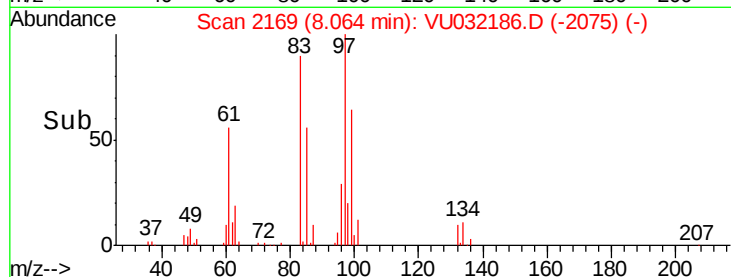
Abundance

Ion 97.00 (96.70 to 97.70): VU032187.D (-2155) (-)

Ion 99.00 (98.70 to 99.70): VU032187.D (-2155) (-)

Ion 83.00 (82.70 to 83.70): VU032187.D (-2155) (-)

Ion 85.00 (84.70 to 85.70): VU032187.D (-2155) (-)



#46

Tetrachloroethene

Concen: 10.393 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Tgt Ion: 164 Resp: 49798

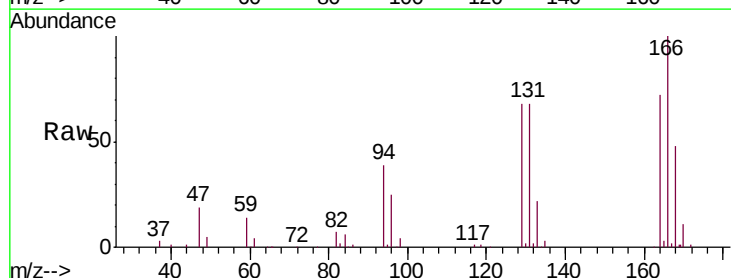
Ion Ratio Lower Upper

164 100

129 93.8 60.8 113.0

131 94.0 59.7 110.9

166 138.6 87.6 162.6



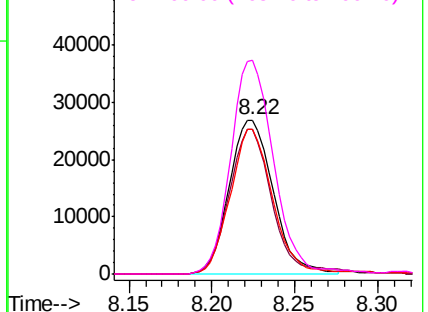
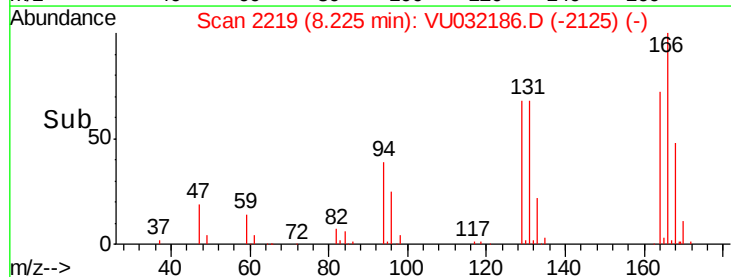
Abundance

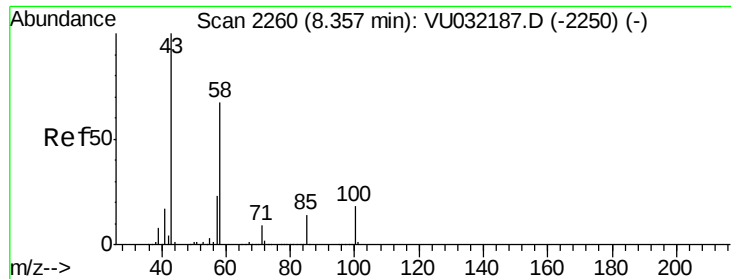
Ion 164.00 (163.70 to 164.70): VU032187.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU032187.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU032187.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU032187.D (-2205) (-)

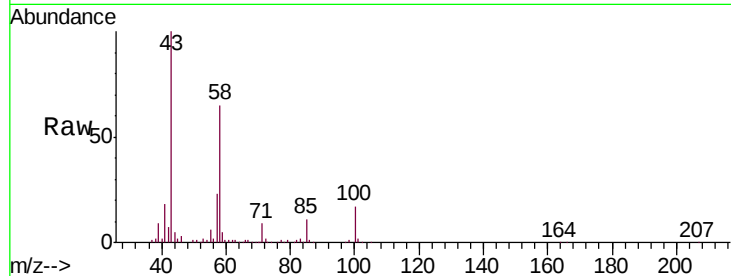




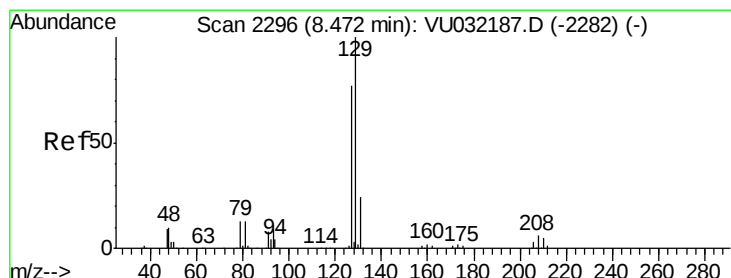
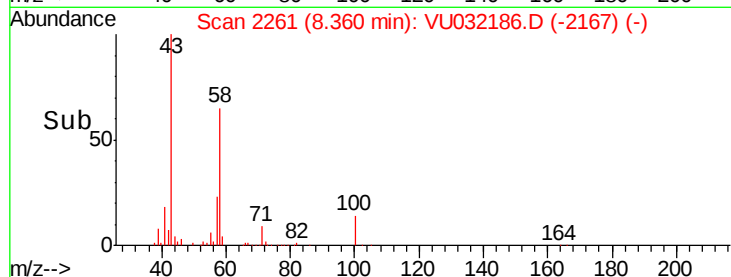
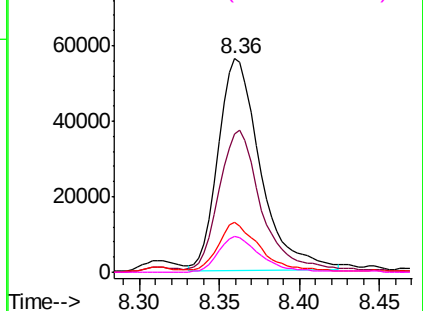
#48
2-Hexanone
Concen: 13.767 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

Tgt Ion:	43	Resp:	102026
Ion	Ratio	Lower	Upper
43	100		
58	66.2	54.1	81.1
57	23.8	19.4	29.0
100	16.5	13.6	20.4

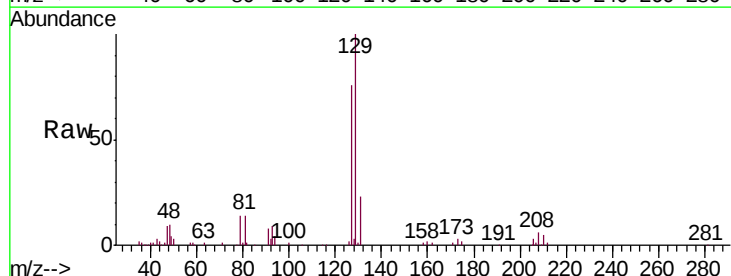


Abundance Ion 43.00 (42.70 to 43.70): VU032186.D (-2167) (-)
Ion 58.00 (57.70 to 58.70): VU032186.D (-2167) (-)
Ion 57.00 (56.70 to 57.70): VU032186.D (-2167) (-)
Ion 100.00 (99.70 to 100.70): VU032186.D (-2167) (-)

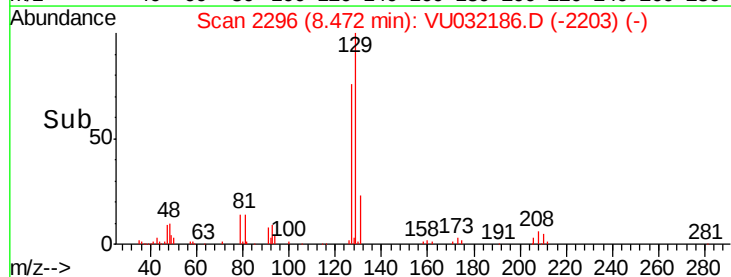
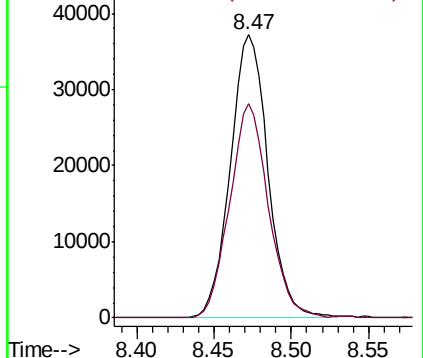


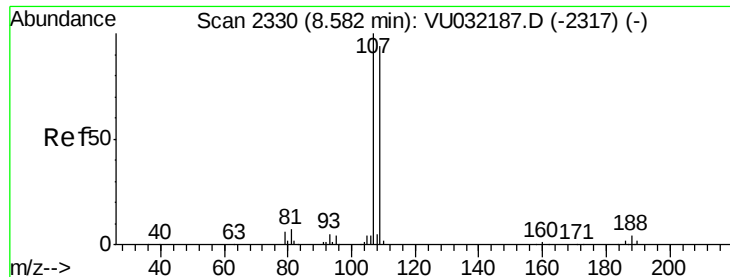
#49
Dibromochloromethane
Concen: 9.425 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

Tgt Ion:	129	Resp:	62774
Ion	Ratio	Lower	Upper
129	100		
127	75.6	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU032186.D (-2203) (-)
Ion 127.00 (126.70 to 127.70): VU032186.D (-2203) (-)





#50

1,2-Dibromoethane

Concen: 8.724 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

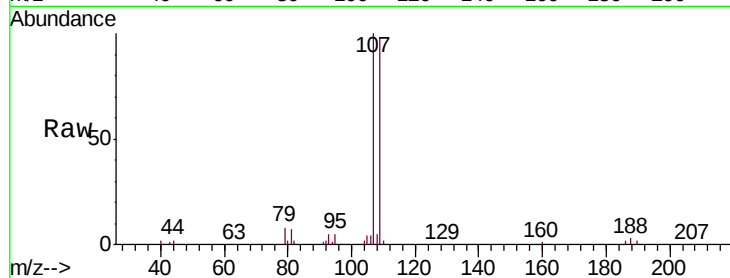
Tgt Ion:107 Resp: 60522

Ion Ratio Lower Upper

107 100

109 97.8 65.7 122.1

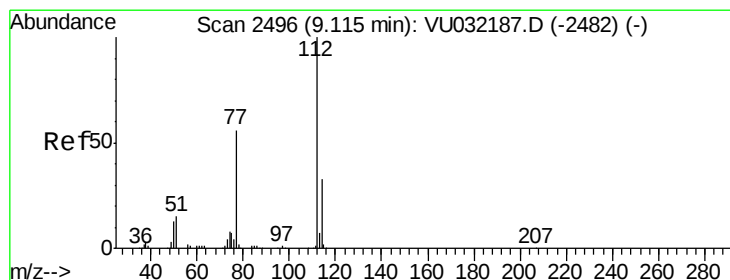
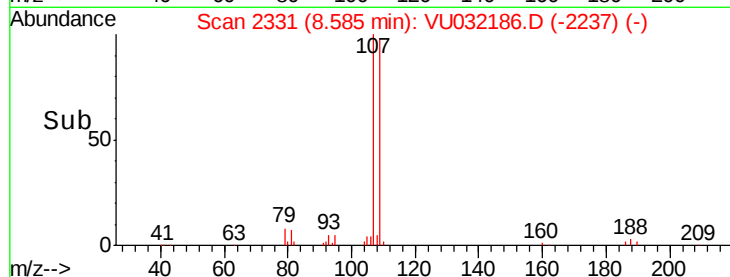
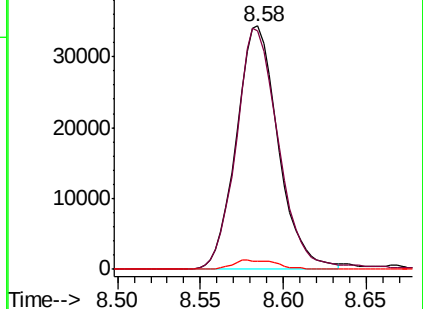
188 3.4 3.1 4.7



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: 9.577 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

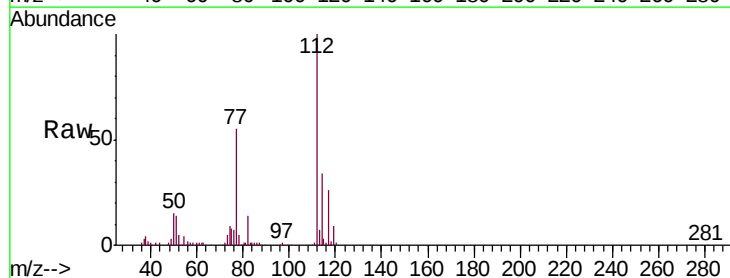
Tgt Ion:112 Resp: 167060

Ion Ratio Lower Upper

112 100

114 34.2 23.1 42.9

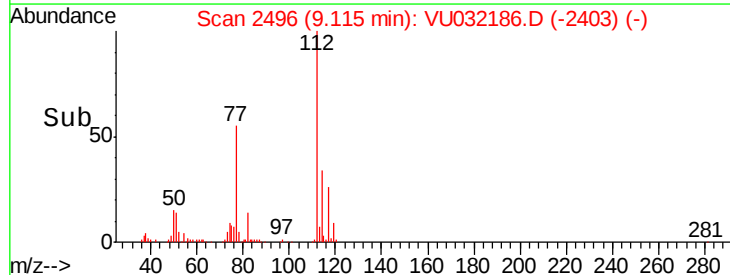
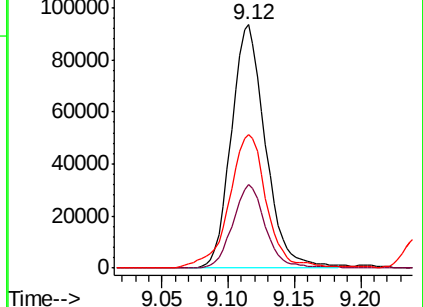
77 54.7 44.9 67.3

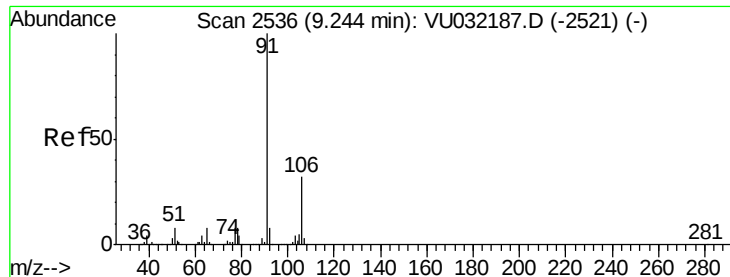


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 8.882 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

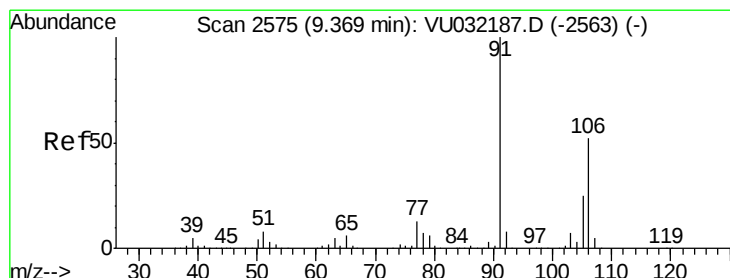
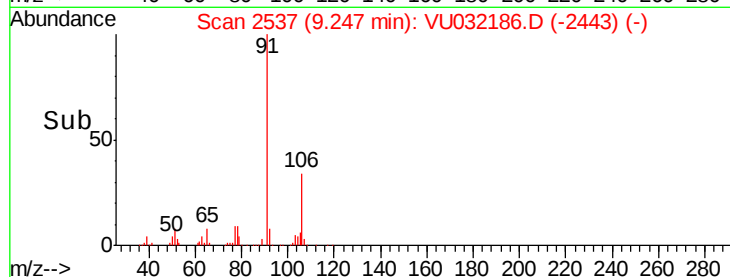
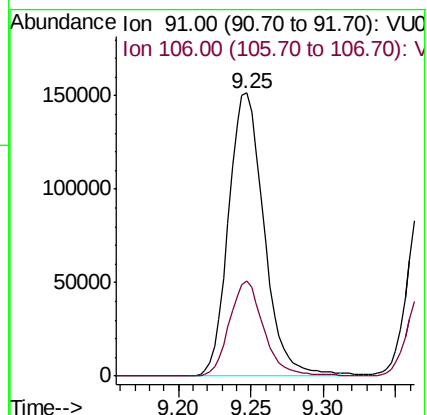
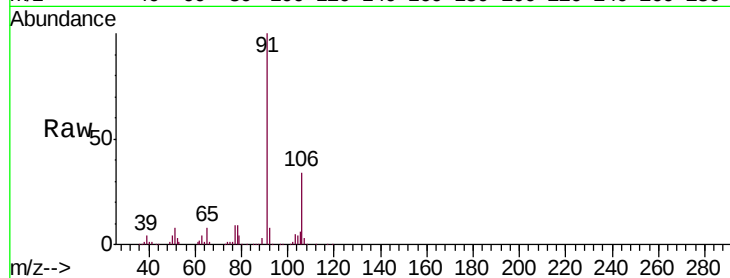
VSTD01052

Tgt Ion: 91 Resp: 258184

Ion Ratio Lower Upper

91 100

106 33.6 22.5 41.9



#53

m,p-Xylene

Concen: 9.164 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032186.D

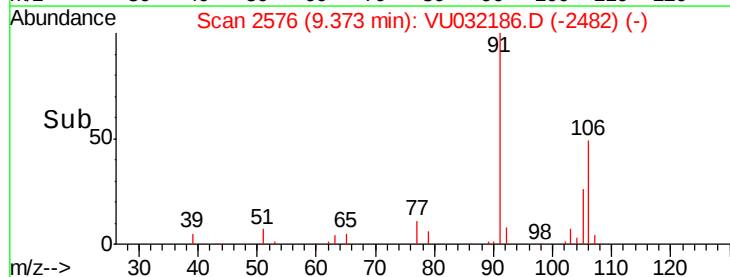
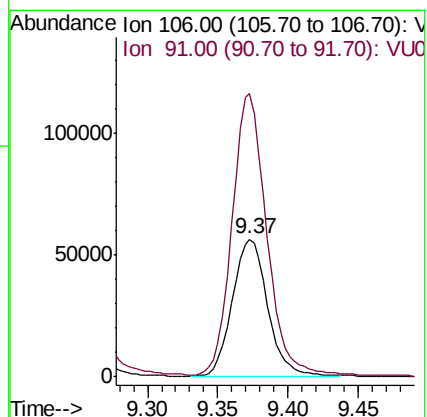
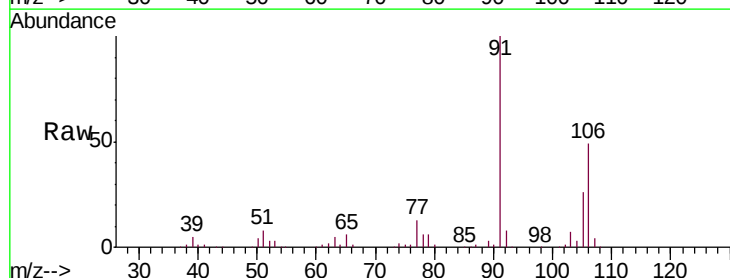
Acq: 21 May 2019 09:44

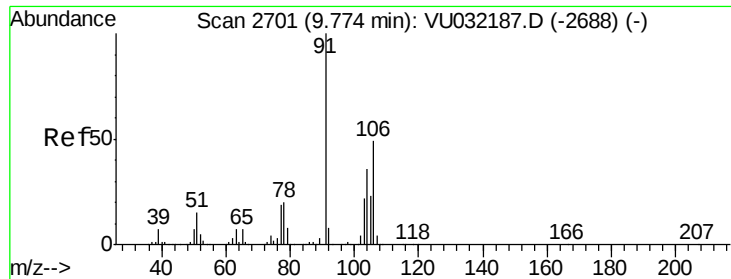
Tgt Ion: 106 Resp: 98186

Ion Ratio Lower Upper

106 100

91 205.3 136.2 252.9

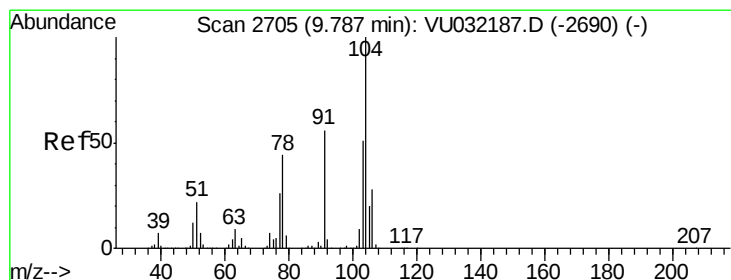
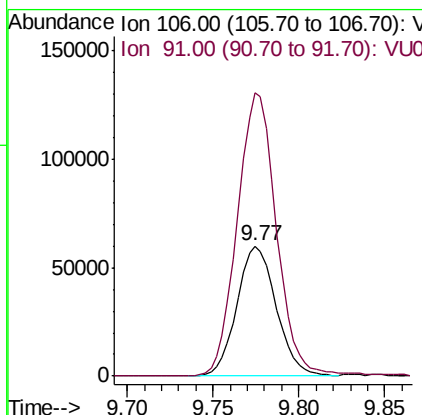
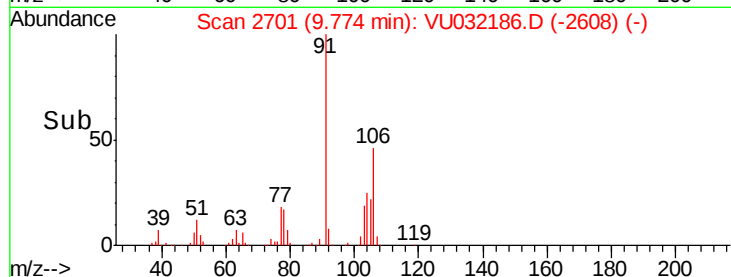
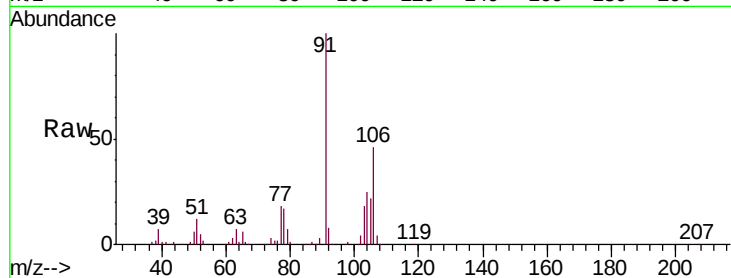




#54
o-xylene
Concen: 8.971 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

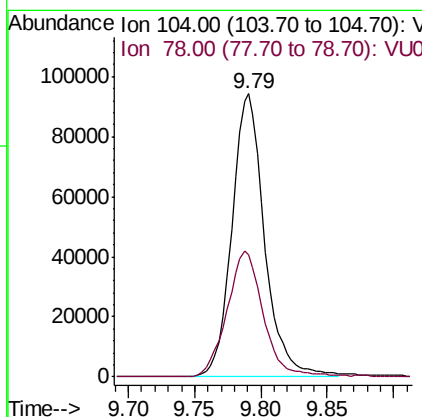
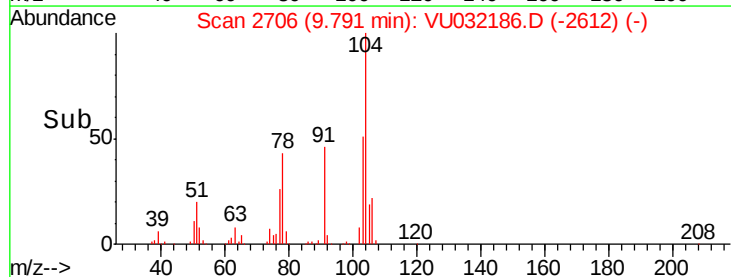
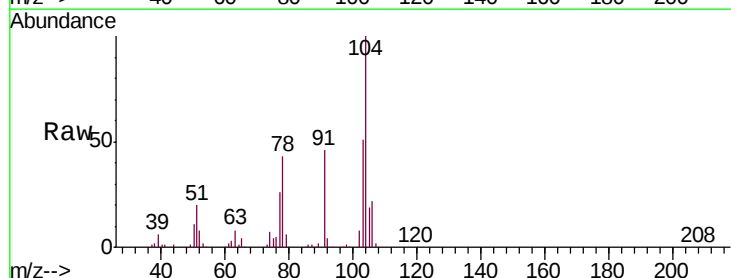
Instrument :
MSVOA_U
ClientSampleId :
VSTD01052

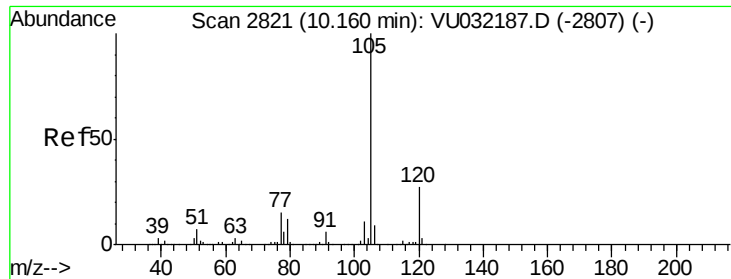
Tgt Ion:106 Resp: 95365
Ion Ratio Lower Upper
106 100
91 218.0 143.1 265.9



#55
Styrene
Concen: 8.853 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU032186.D
Acq: 21 May 2019 09:44

Tgt Ion:104 Resp: 161209
Ion Ratio Lower Upper
104 100
78 43.0 31.0 57.6





#56

Isopropylbenzene

Concen: 9.132 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

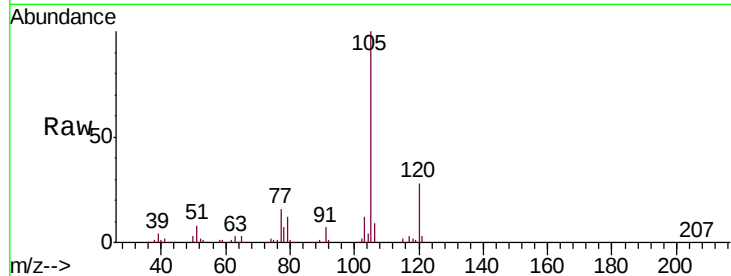
Tgt Ion: 105 Resp: 248300

Ion Ratio Lower Upper

105 100

120 26.4 21.3 31.9

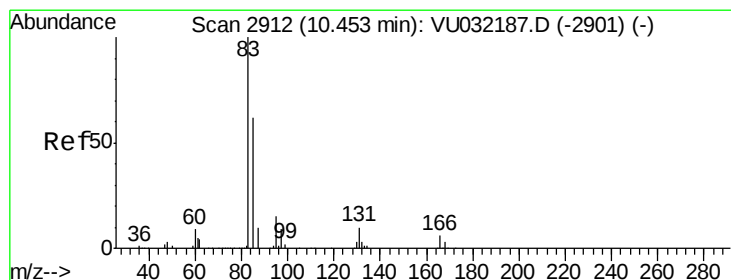
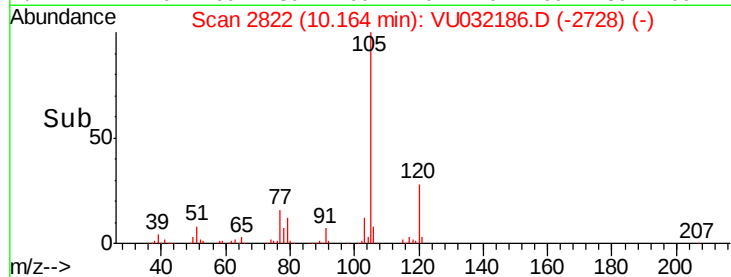
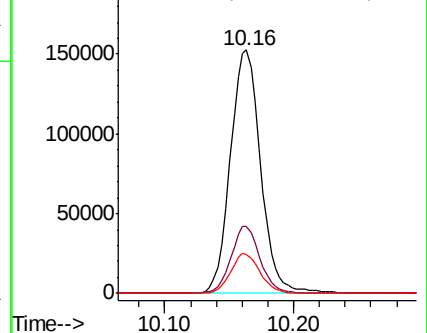
77 15.8 11.7 17.5



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: 8.575 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

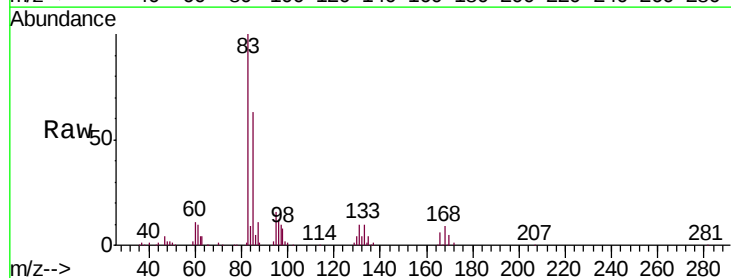
Tgt Ion: 83 Resp: 99877

Ion Ratio Lower Upper

83 100

85 63.1 44.1 81.9

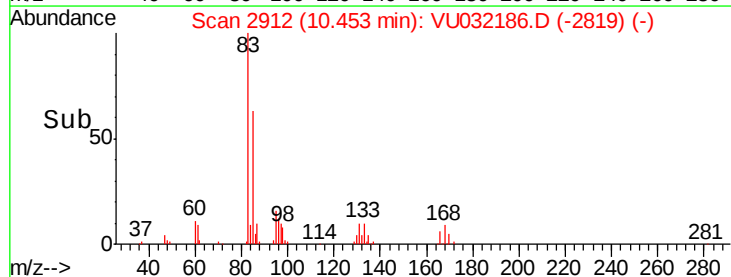
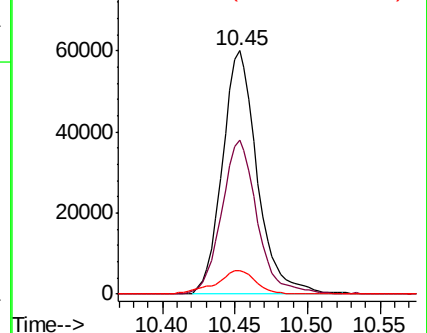
131 9.8 8.6 12.8

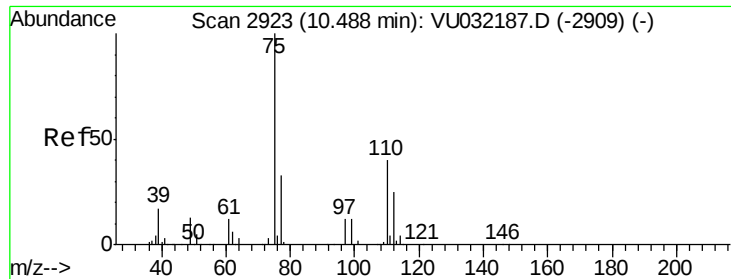


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 8.437 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

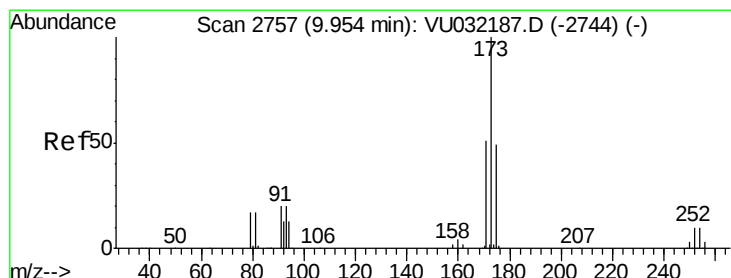
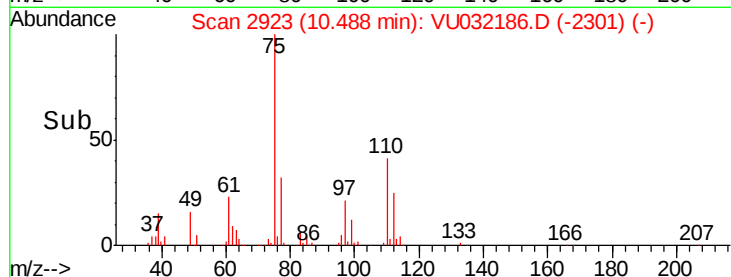
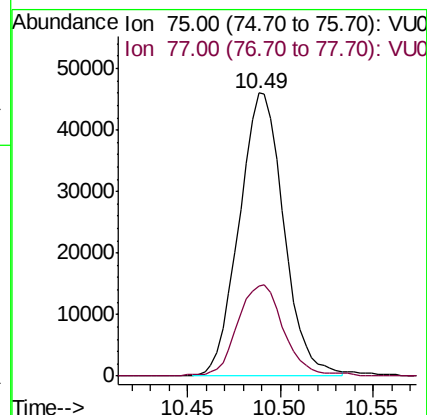
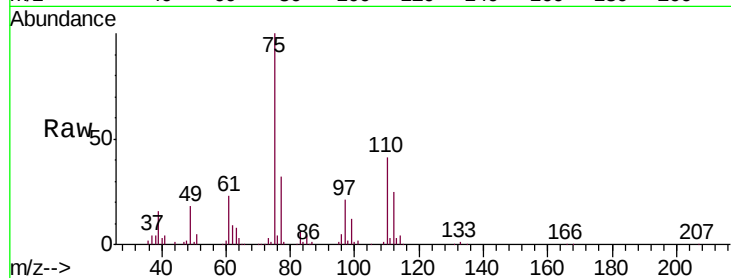
VSTD01052

Tgt Ion: 75 Resp: 77027

Ion Ratio Lower Upper

75 100

77 33.3 26.0 39.0



#61

Bromoform

Concen: 9.544 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

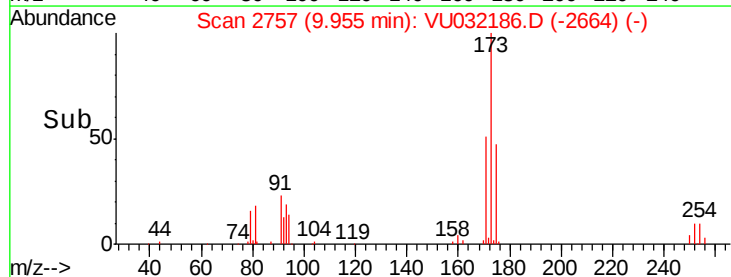
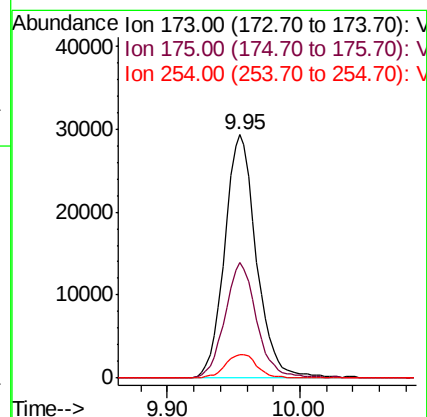
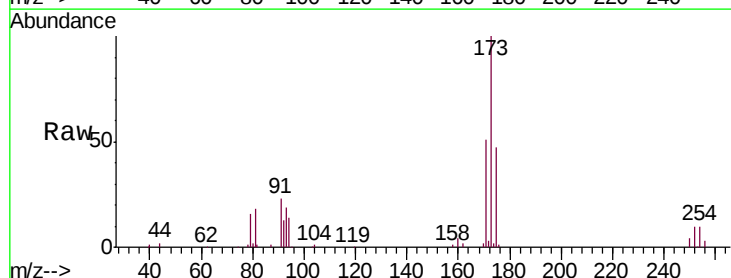
Tgt Ion: 173 Resp: 48695

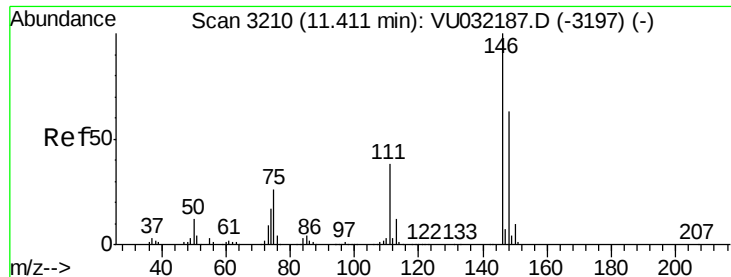
Ion Ratio Lower Upper

173 100

175 47.1 38.6 57.8

254 9.5 7.8 11.6

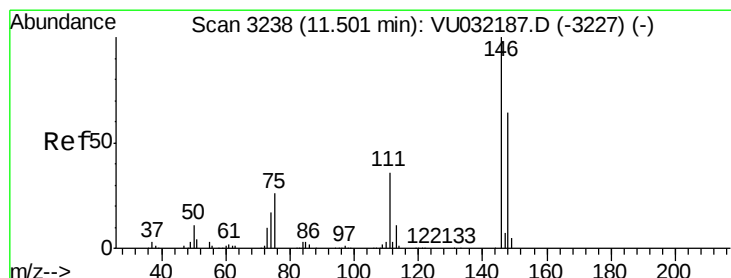
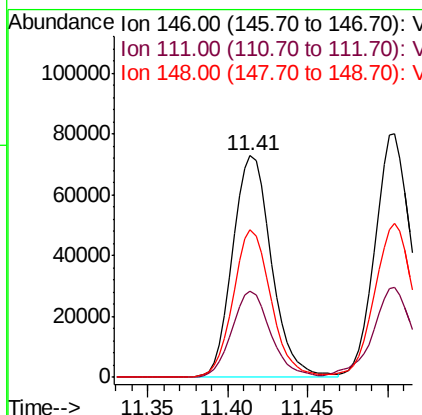
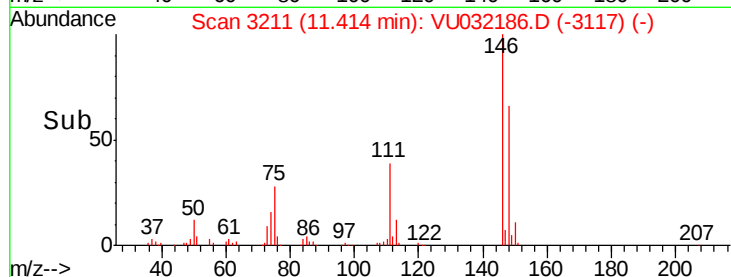
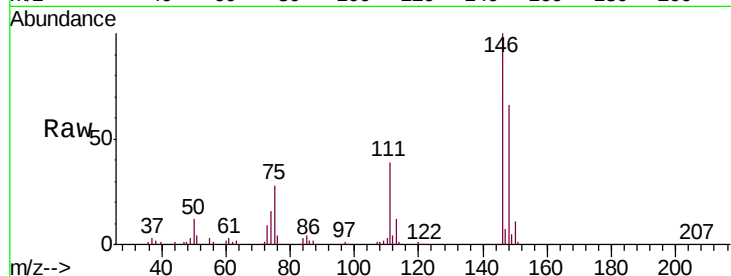




#62
 1,3-Dichlorobenzene
 Concen: 9.650 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

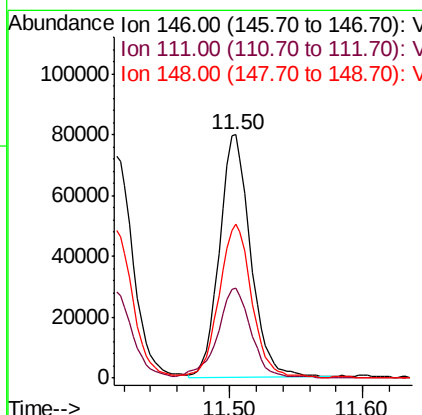
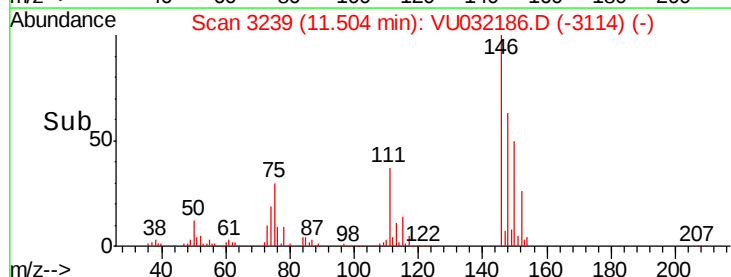
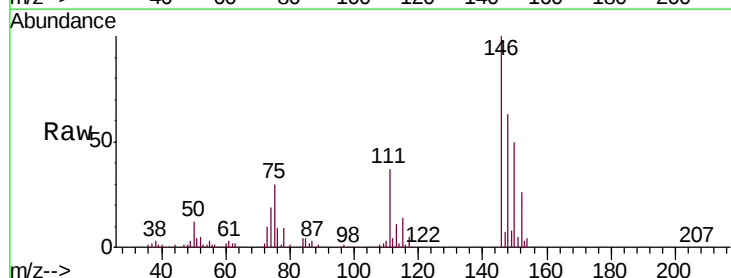
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

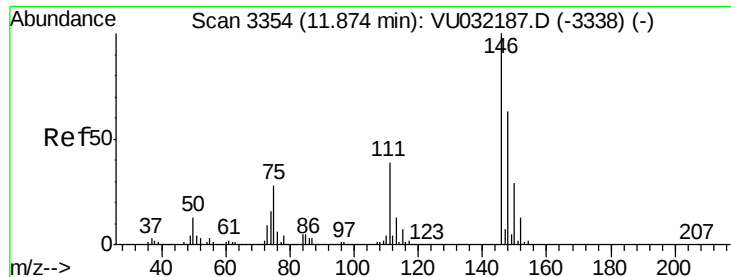
Tgt Ion:146 Resp: 120695
 Ion Ratio Lower Upper
 146 100
 111 39.0 26.5 49.3
 148 66.4 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 9.907 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

Tgt Ion:146 Resp: 130480
 Ion Ratio Lower Upper
 146 100
 111 36.8 25.8 47.8
 148 63.5 44.9 83.5





#65

1,2-Dichlorobenzene

Concen: 9.758 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

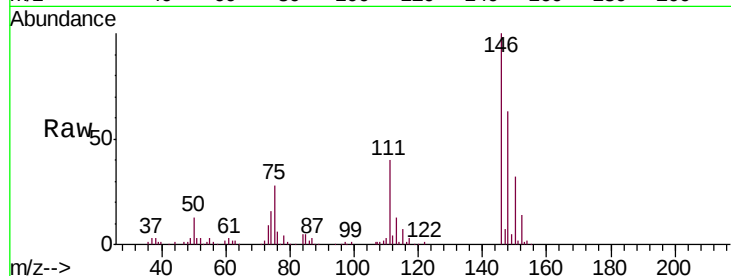
Tgt Ion:146 Resp: 129200

Ion Ratio Lower Upper

146 100

111 40.0 31.5 47.3

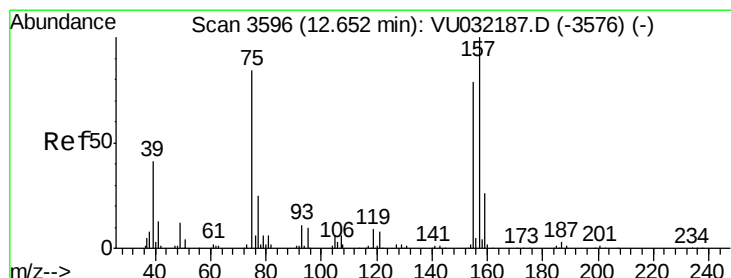
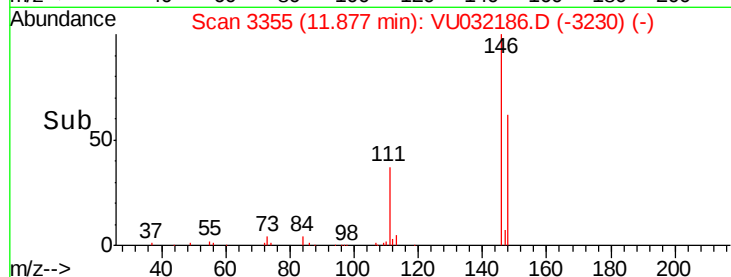
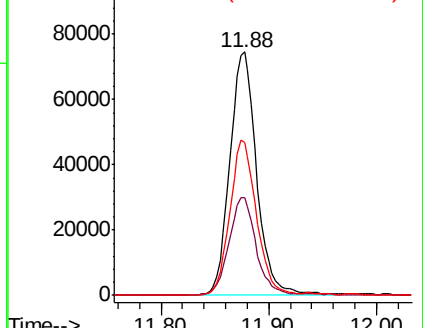
148 63.0 50.6 76.0



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: 8.082 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

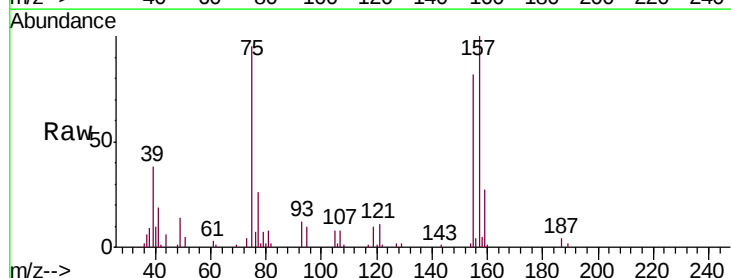
Tgt Ion: 75 Resp: 19928

Ion Ratio Lower Upper

75 100

155 86.1 74.6 112.0

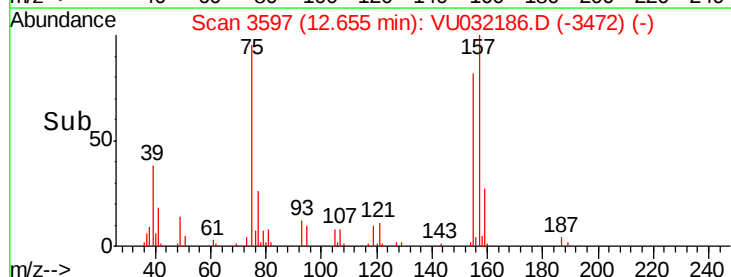
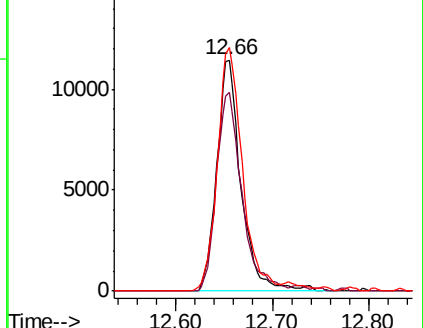
157 105.4 94.8 142.2

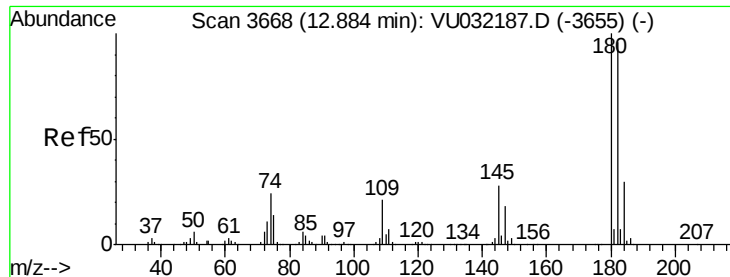


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

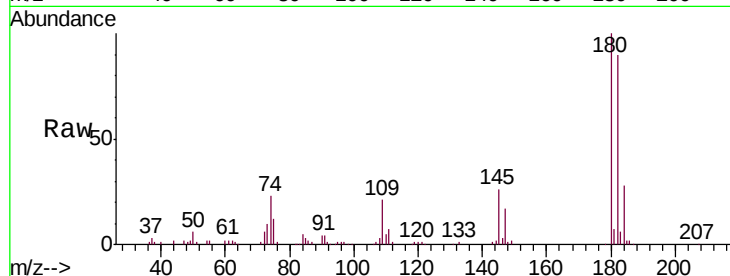




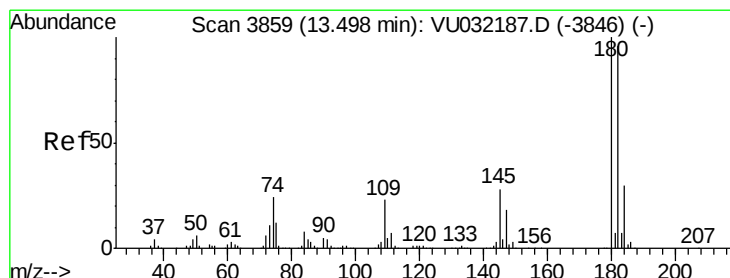
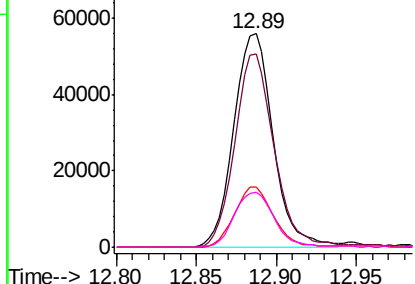
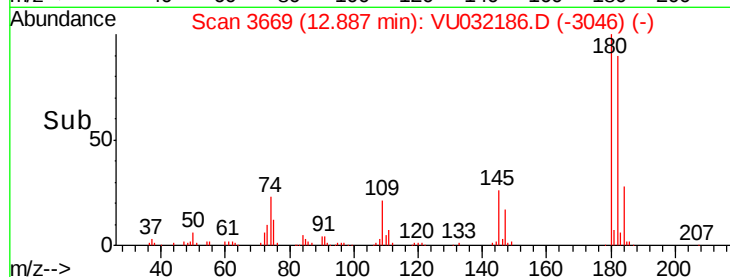
#67
 1,3,5-Trichlorobenzene
 Concen: 10.346 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01052

Tgt Ion:180 Resp: 93875
 Ion Ratio Lower Upper
 180 100
 182 89.9 76.5 114.7
 184 27.8 24.9 37.3
 145 26.4 22.5 33.7

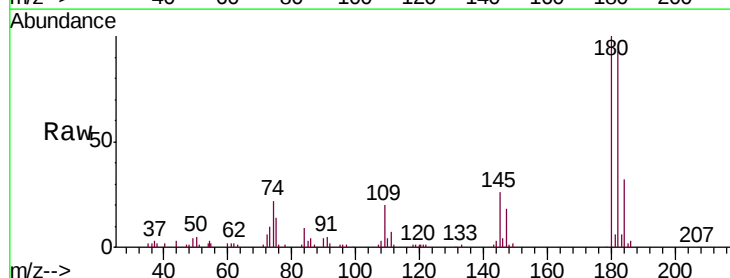


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

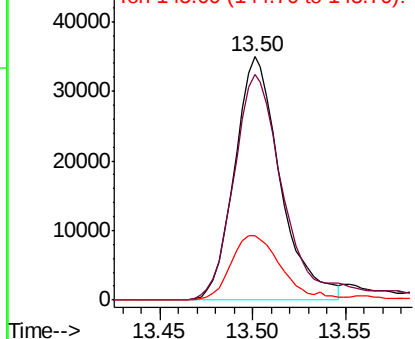
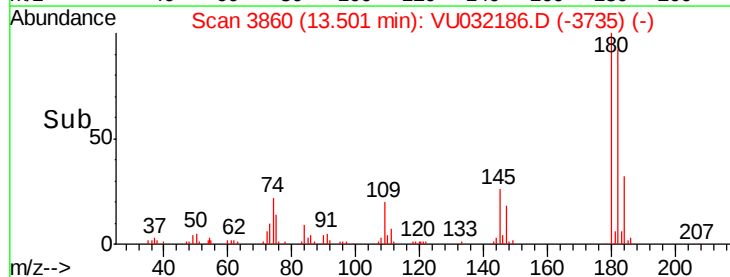


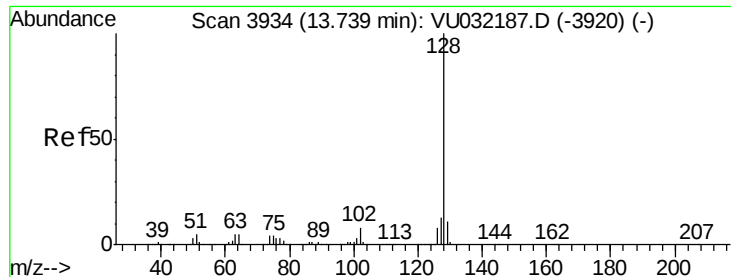
#68
 1,2,4-trichlorobenzene
 Concen: 8.513 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU032186.D
 Acq: 21 May 2019 09:44

Tgt Ion:180 Resp: 59415
 Ion Ratio Lower Upper
 180 100
 182 97.8 76.8 115.2
 145 28.4 23.0 34.6



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: 7.194 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD01052

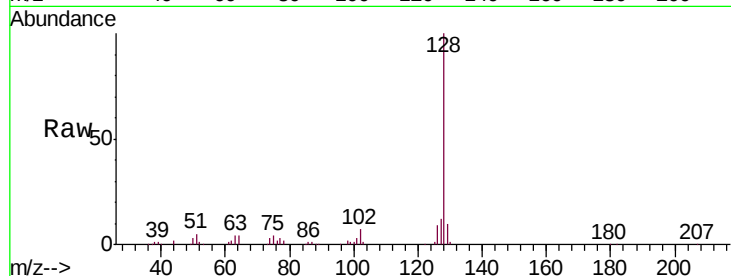
Tgt Ion:128 Resp: 163665

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

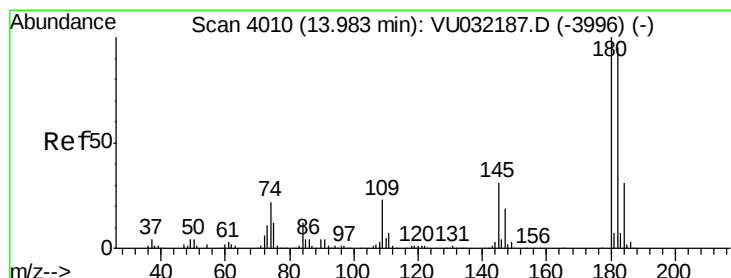
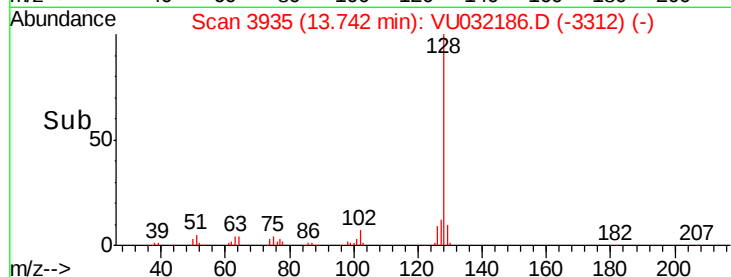
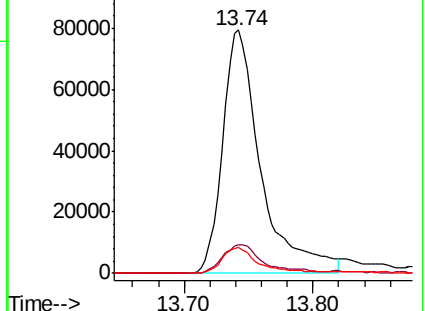
129 10.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 9.360 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU032186.D

Acq: 21 May 2019 09:44

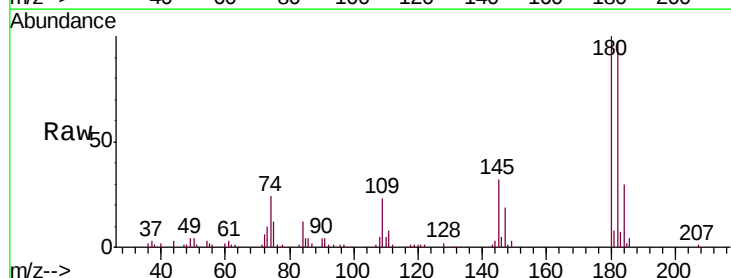
Tgt Ion:180 Resp: 71232

Ion Ratio Lower Upper

180 100

182 96.5 74.6 112.0

145 31.1 23.8 35.8



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

