

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033587.D
 Acq On : 03 Aug 2019 12:50
 Operator : JC/SP
 Sample : VSTD00534
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

Quant Time: Aug 05 05:31:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 05:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	314044	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	309986	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	156118	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	10586	4.69	ug/L	0.00
7) Chloroethane-d5	1.67	69	9691	4.94	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	21332	5.15	ug/L	0.00
21) 2-Butanone-d5	4.16	46	15465	9.99	ug/L	0.00
24) Chloroform-d	4.62	84	19640	5.07	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	12864	5.27	ug/L	0.00
32) Benzene-d6	5.32	84	38552	4.98	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	12762	5.27	ug/L	0.00
41) Toluene-d8	7.55	98	33517	4.63	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	5965	4.95	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	9704	8.38	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	19946	5.30	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	16340	5.67	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	17884	6.146 ug/L	100
3) Chloromethane	1.32	50	18507	6.291 ug/L	100
5) Vinyl chloride	1.39	62	18973	6.007 ug/L	98
6) Bromomethane	1.62	94	12373	4.413 ug/L	97
8) Chloroethane	1.69	64	11557	6.020 ug/L	97
9) Trichlorofluoromethane	1.87	101	26063	6.293 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	13235	6.280 ug/L	98
12) 1,1-Dichloroethene	2.27	96	12664	6.308 ug/L	95
13) Acetone	2.31	43	18850	12.171 ug/L	97
14) Carbon disulfide	2.46	76	39857	6.378 ug/L	100
15) Methyl Acetate	2.60	43	15279	6.159 ug/L	99
16) Methylene chloride	2.68	84	14531	6.294 ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	13074	6.207 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	38552	5.963 ug/L	99
19) 1,1-Dichloroethane	3.43	63	24783	6.227 ug/L	# 94
20) cis-1,2-Dichloroethene	4.20	96	14778	6.205 ug/L	95
22) 2-Butanone	4.25	43	20396	11.003 ug/L	91
23) Bromochloromethane	4.53	128	7301	5.924 ug/L	98
25) Chloroform	4.65	83	26461	6.331 ug/L	95
27) 1,2-Dichloroethane	5.39	62	19874	6.157 ug/L	100
29) Cyclohexane	4.97	56	19137	5.731 ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	21575	6.093 ug/L	98
31) Carbon tetrachloride	5.11	117	18341	5.933 ug/L	98
33) Benzene	5.37	78	51260	5.780 ug/L	100
34) Trichloroethene	6.17	95	14567	6.234 ug/L	96
35) Methylcyclohexane	6.40	83	20119	5.529 ug/L	98
37) 1,2-Dichloropropane	6.41	63	14053	5.867 ug/L	# 97
38) Bromodichloromethane	6.74	83	18943	6.143 ug/L	# 98
39) cis-1,3-Dichloropropene	7.25	75	20908	5.629 ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	39232	11.799 ug/L	97

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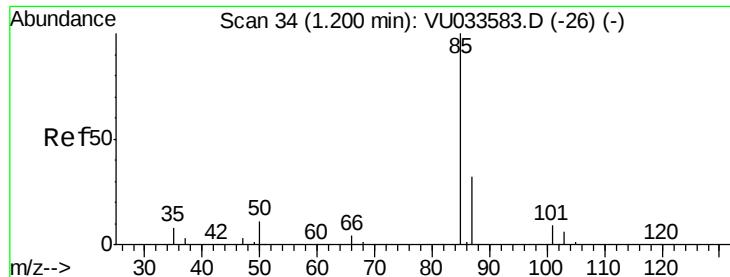
Instrument :
 MSVOA_U
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 VSTD00534

Quant Time: Aug 05 05:31:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.62	91	55242	5.804	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	19548	5.845	ug/L	91
45) 1,1,2-Trichloroethane	8.05	97	14253	6.297	ug/L	97
46) Tetrachloroethene	8.21	164	11297	5.947	ug/L	93
48) 2-Hexanone	8.35	43	30431	11.366	ug/L	97
49) Dibromochloromethane	8.46	129	15571	6.058	ug/L	100
50) 1,2-Dibromoethane	8.57	107	15002	6.020	ug/L #	100
51) Chlorobenzene	9.10	112	38310	6.151	ug/L	97
52) Ethylbenzene	9.23	91	57672	5.627	ug/L	99
53) m,p-Xylene	9.36	106	21565	5.466	ug/L	98
54) o-xylene	9.76	106	21367	5.615	ug/L	93
55) Styrene	9.78	104	34972	5.406	ug/L	98
56) Isopropylbenzene	10.15	105	54729	5.491	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	24367	5.958	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	20575	6.508	ug/L	97
61) Bromoform	9.94	173	11434	6.109	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	30759	6.475	ug/L	95
63) 1,4-Dichlorobenzene	11.49	146	31480	6.369	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	30279	6.303	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	5310	5.894	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	23160	6.071	ug/L	96
68) 1,2,4-trichlorobenzene	13.49	180	17638	5.423	ug/L	97
69) Naphthalene	13.73	128	46652	4.989	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	20380	5.960	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 6.146 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033587.D

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Instrument :

MSVOA_U

ClientSampleId :

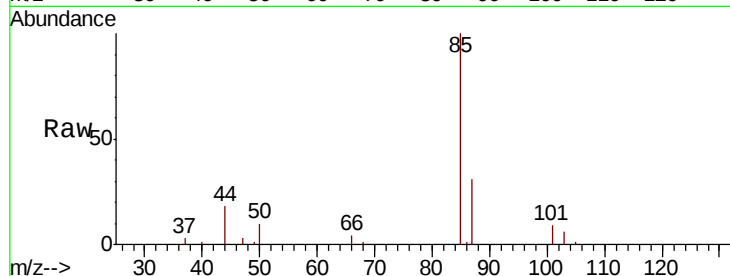
VSTD00534

Tgt Ion: 85 Resp: 17884

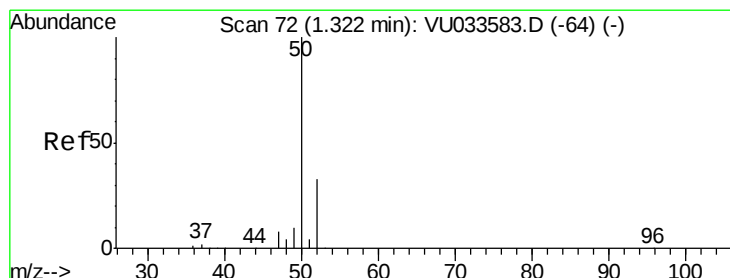
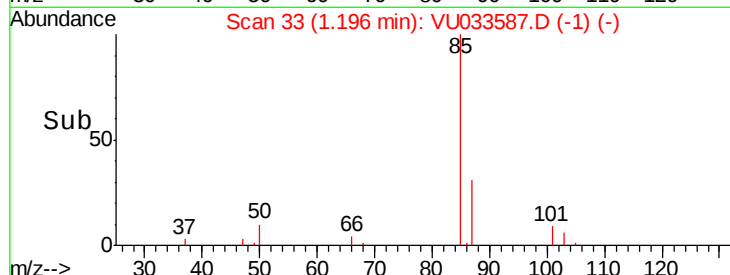
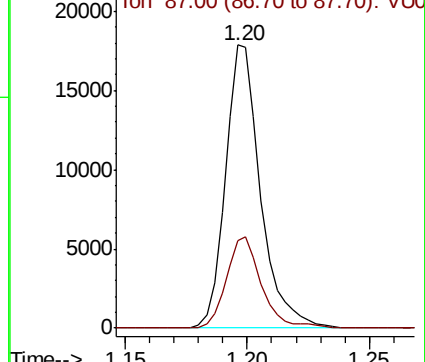
Ion Ratio Lower Upper

85 100

87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU033587.D (-1) (-)



#3

Chloromethane

Concen: 6.291 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033587.D

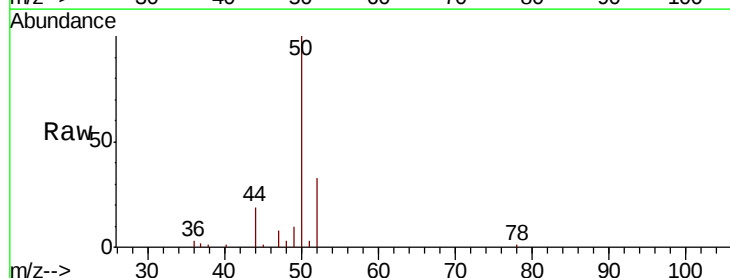
Acq: 03 Aug 2019 12:50

Tgt Ion: 50 Resp: 18507

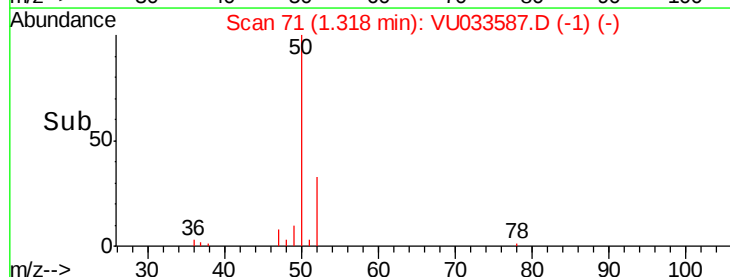
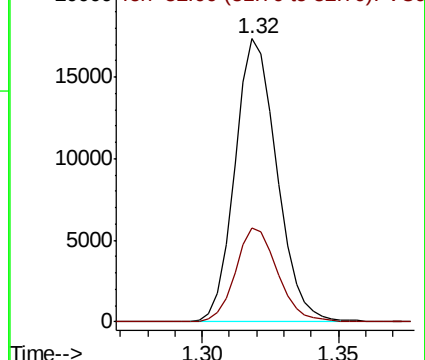
Ion Ratio Lower Upper

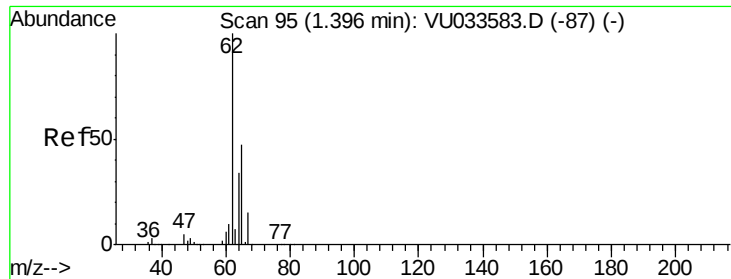
50 100

52 33.2 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033587.D (-1) (-)





#5

Vinyl chloride

Concen: 6.007 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

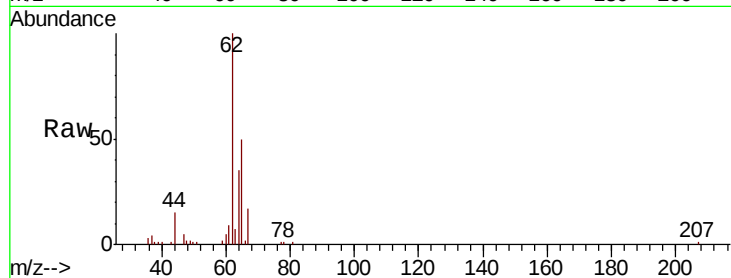
VSTD00534

Tgt Ion: 62 Resp: 18973

Ion Ratio Lower Upper

62 100

64 34.6 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.39

20000

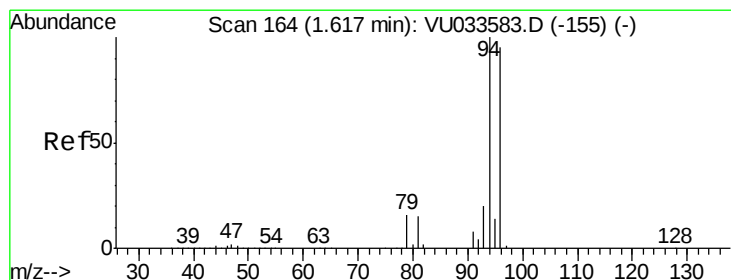
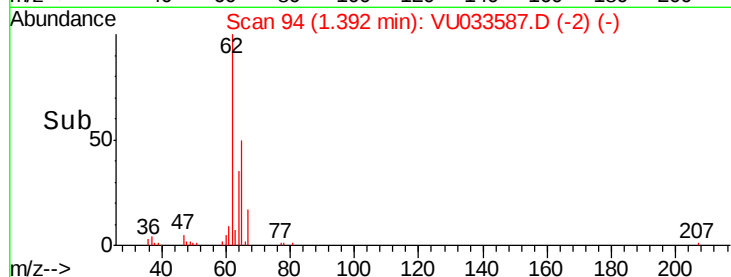
15000

10000

5000

0

Time--> 1.35 1.40



#6

Bromomethane

Concen: 4.413 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033587.D

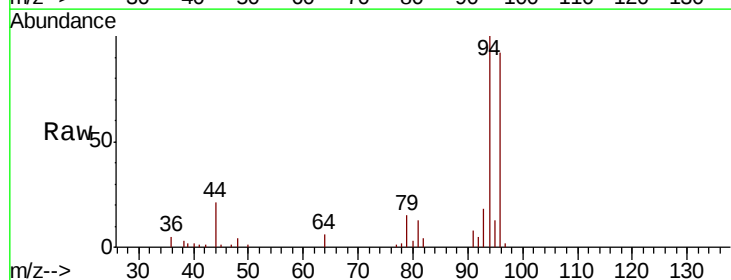
Acq: 03 Aug 2019 12:50

Tgt Ion: 94 Resp: 12373

Ion Ratio Lower Upper

94 100

96 91.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

12000

10000

8000

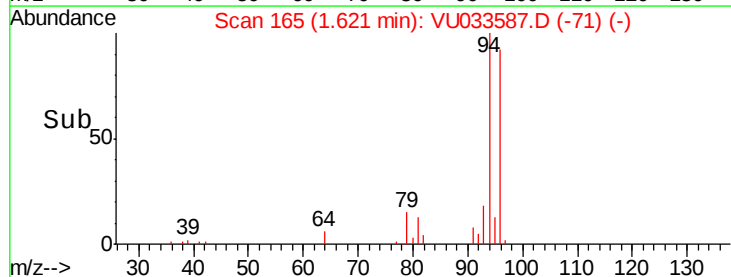
6000

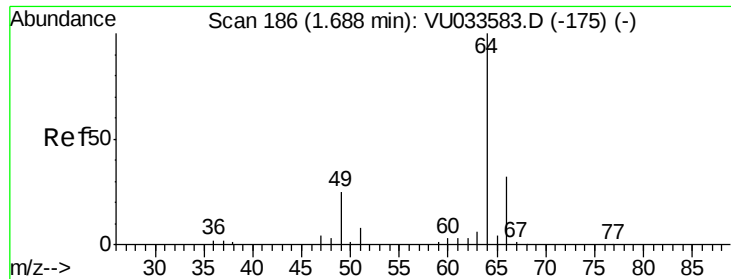
4000

2000

0

Time--> 1.60 1.65





#8

Chloroethane

Concen: 6.020 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

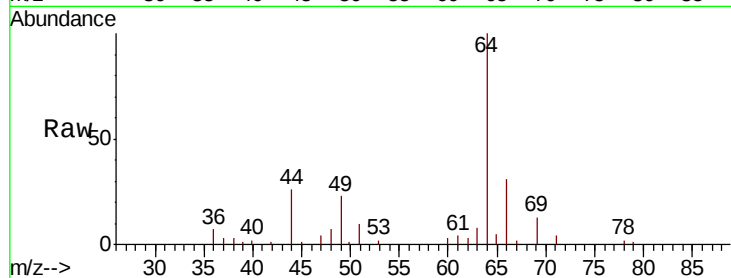
VSTD00534

Tgt Ion: 64 Resp: 11557

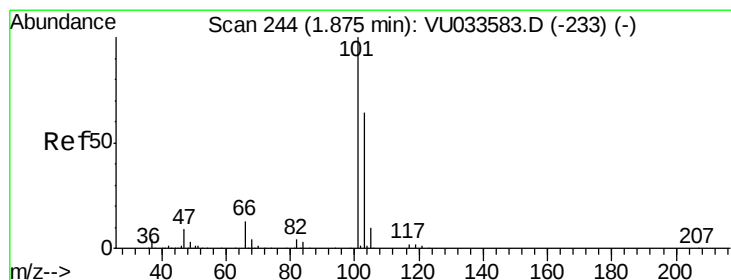
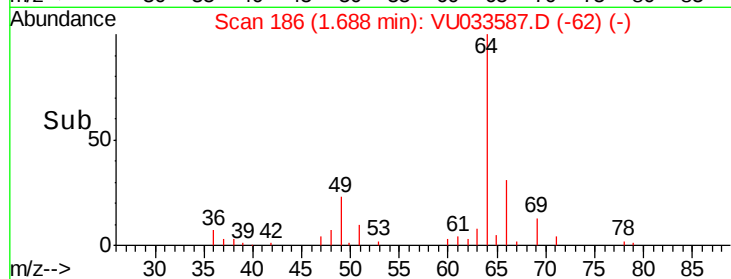
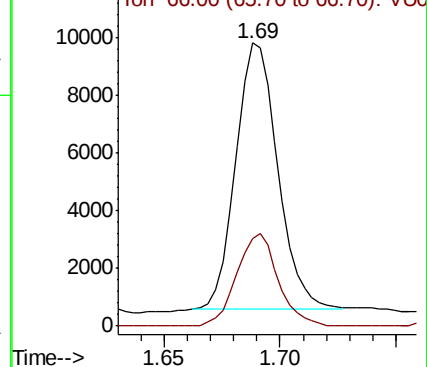
Ion Ratio Lower Upper

64 100

66 30.8 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VU033587.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 6.293 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033587.D

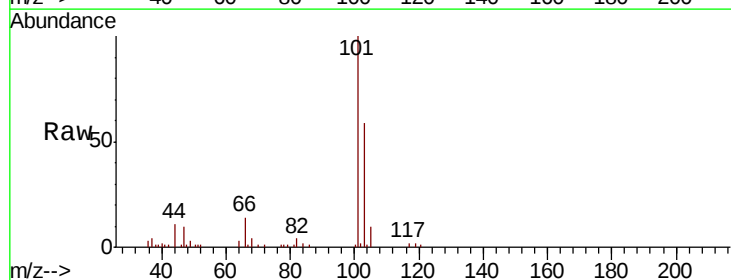
Acq: 03 Aug 2019 12:50

Tgt Ion: 101 Resp: 26063

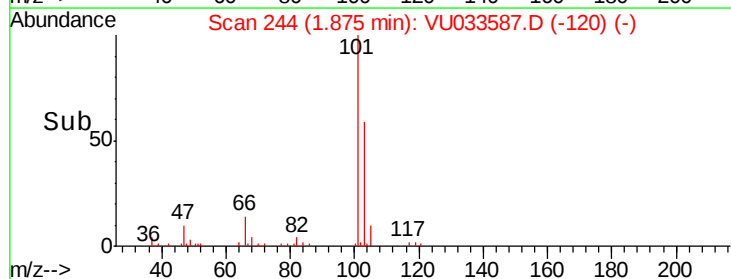
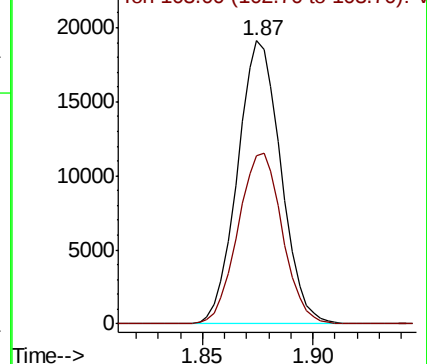
Ion Ratio Lower Upper

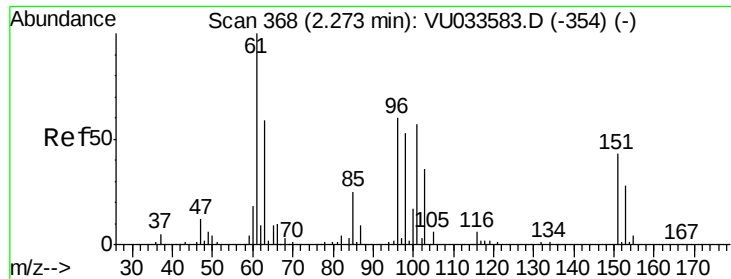
101 100

103 61.7 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU033587.D (-233) (-)





#10

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

Concen: 6.280 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

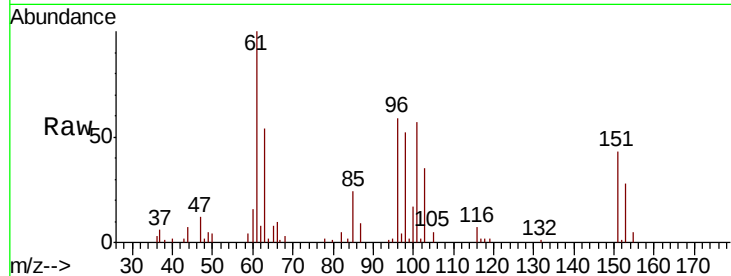
Tgt Ion: 101 Resp: 13235

Ion Ratio Lower Upper

101 100

85 44.2 35.5 53.3

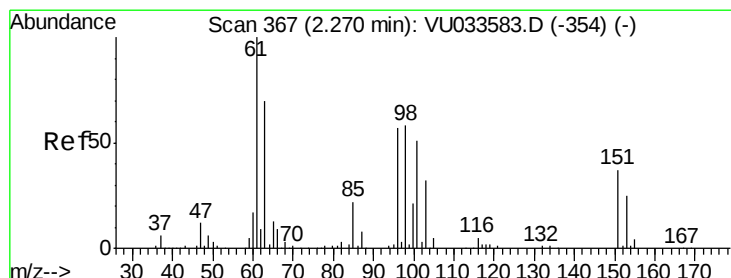
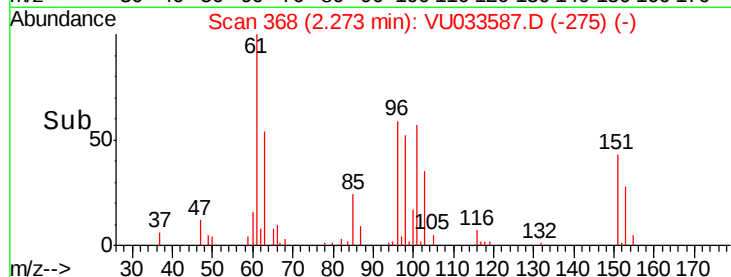
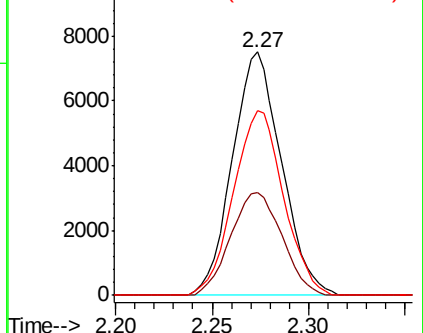
151 77.4 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 6.308 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

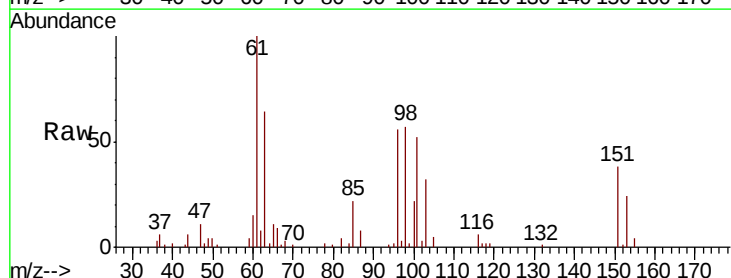
Tgt Ion: 96 Resp: 12664

Ion Ratio Lower Upper

96 100

61 177.3 122.8 228.0

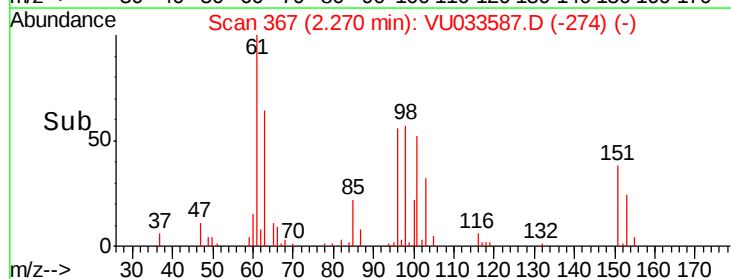
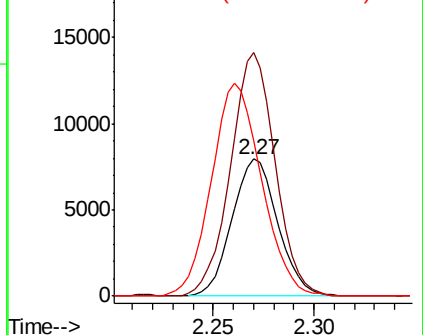
63 113.0 87.1 161.7

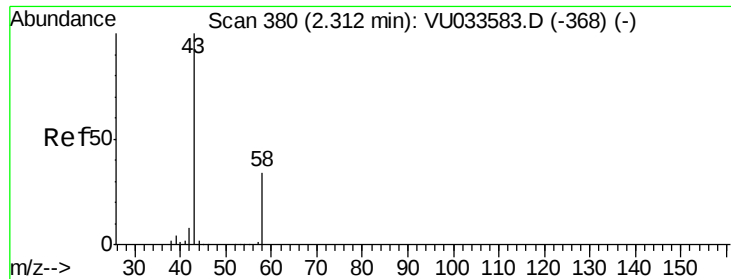


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 12.171 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

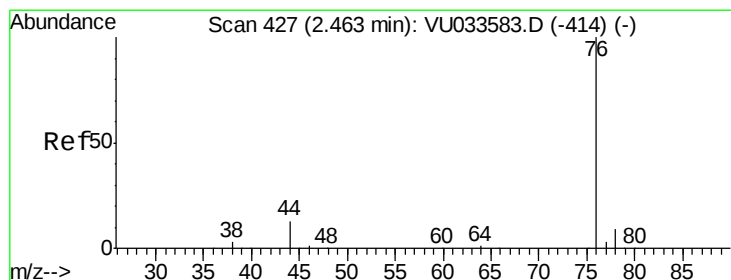
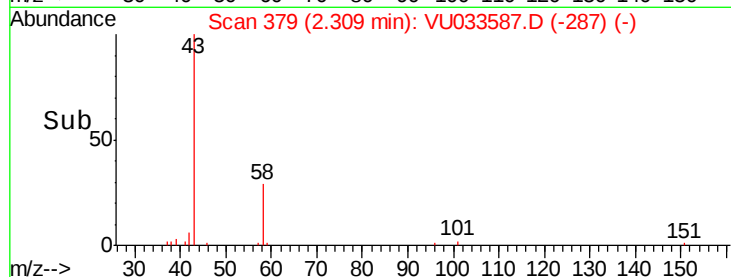
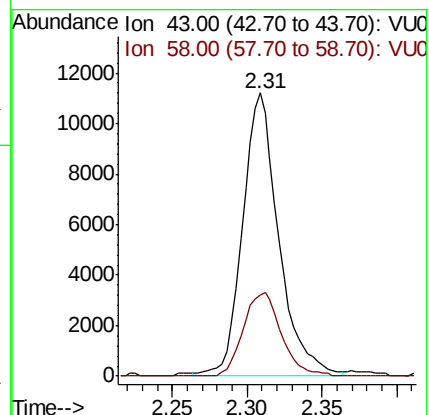
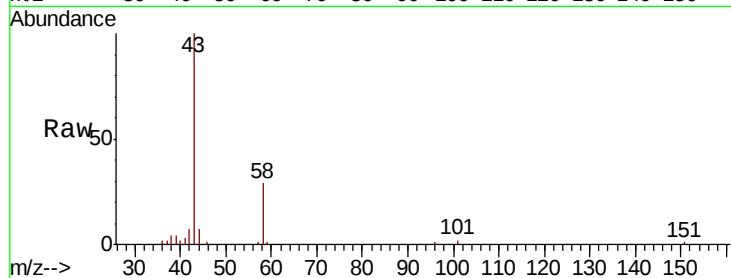
VSTD00534

Tgt Ion: 43 Resp: 18850

Ion Ratio Lower Upper

43 100

58 31.1 0.0 66.0



#14

Carbon disulfide

Concen: 6.378 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033587.D

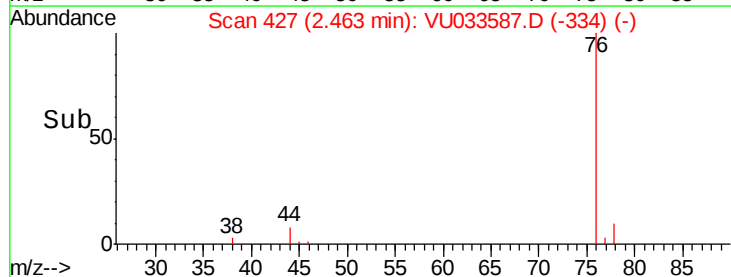
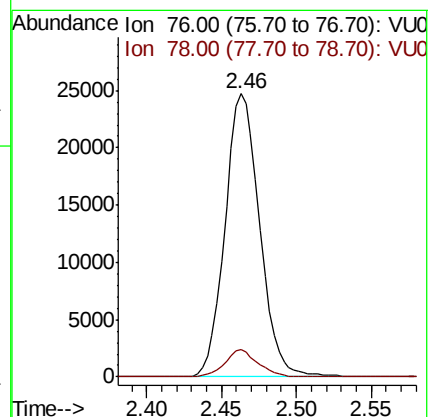
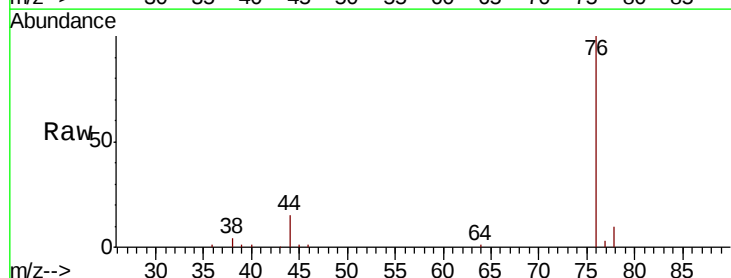
Acq: 03 Aug 2019 12:50

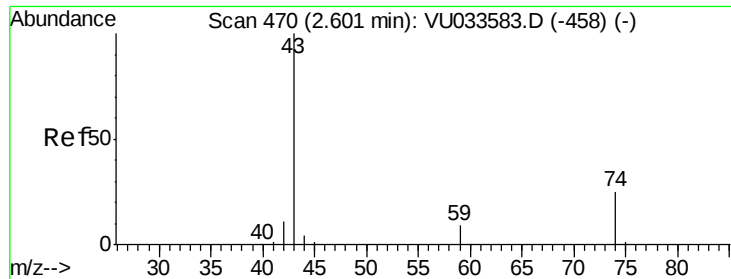
Tgt Ion: 76 Resp: 39857

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3

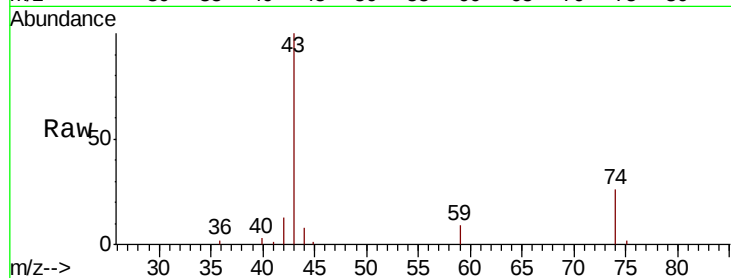




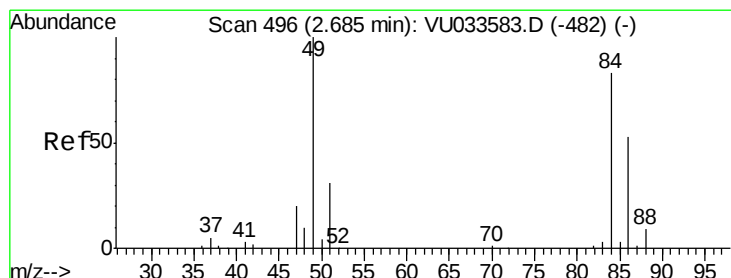
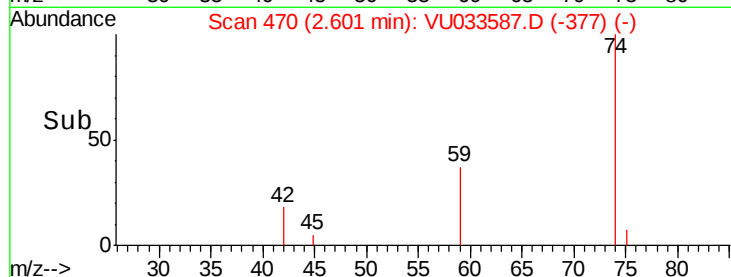
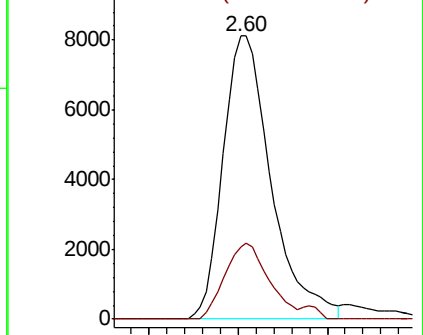
#15
Methyl Acetate
Concen: 6.159 ug/L
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Tgt Ion: 43 Resp: 15279
Ion Ratio Lower Upper
43 100
74 24.2 19.9 29.9

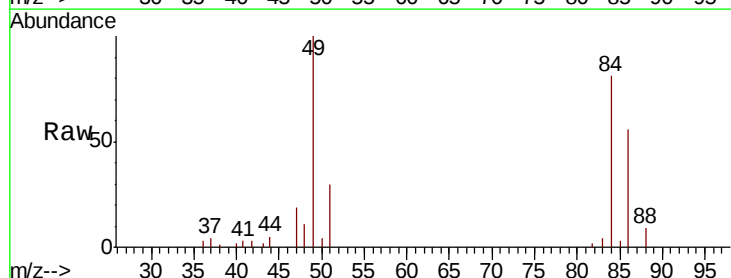


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

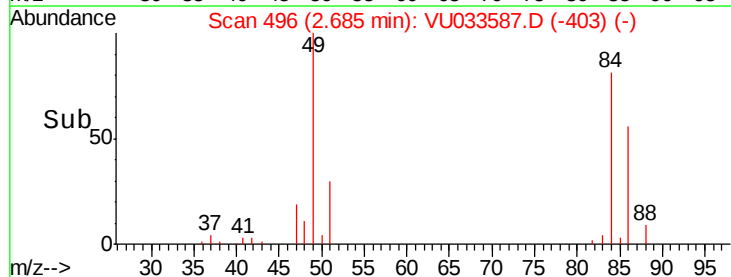
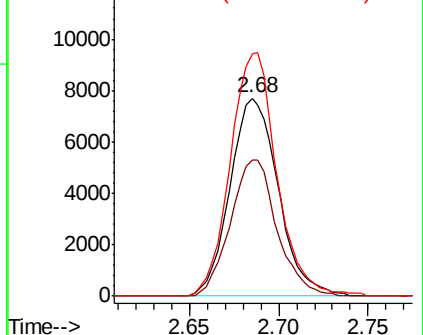


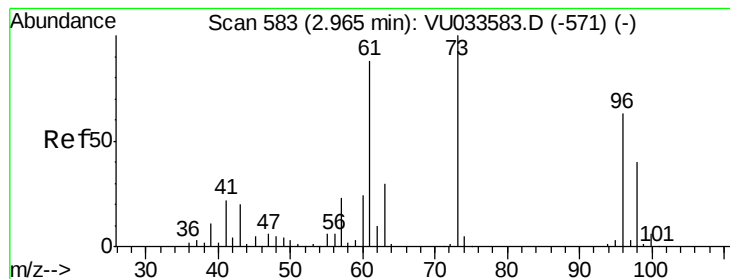
#16
Methylene chloride
Concen: 6.294 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion: 84 Resp: 14531
Ion Ratio Lower Upper
84 100
86 69.1 44.5 82.7
49 122.9 84.2 156.4



Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 6.207 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

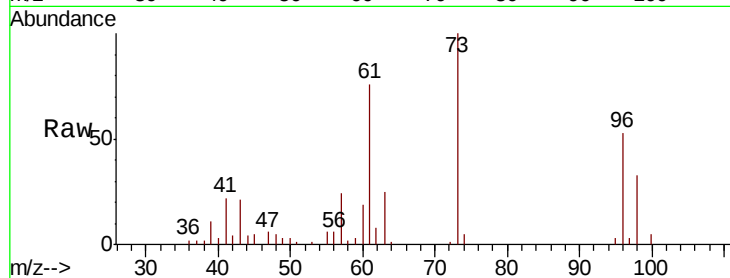
Tgt Ion: 96 Resp: 13074

Ion Ratio Lower Upper

96 100

61 143.8 98.1 182.3

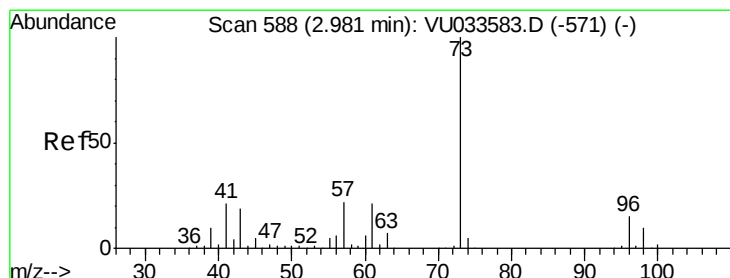
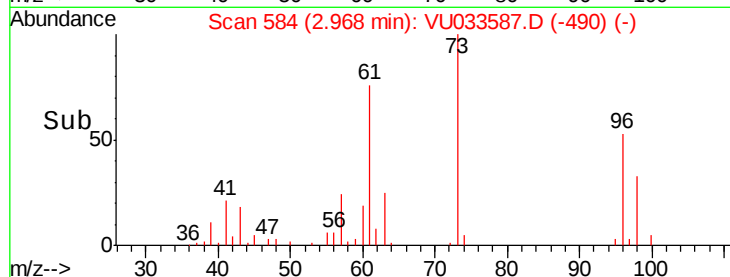
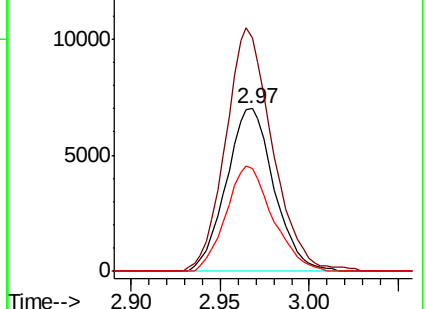
98 63.0 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU033583.D (-571) (-)

Ion 61.00 (60.70 to 61.70): VU033583.D (-571) (-)

Ion 98.00 (97.70 to 98.70): VU033583.D (-571) (-)



#18

Methyl tert-butyl Ether

Concen: 5.963 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

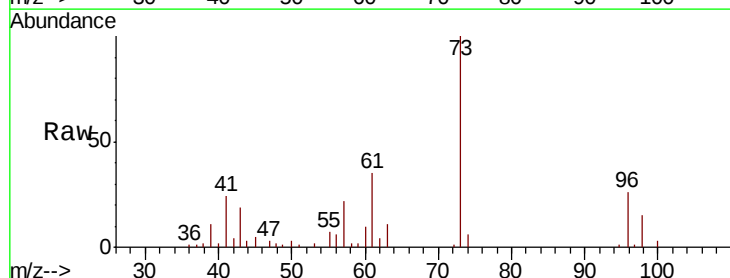
Tgt Ion: 73 Resp: 38552

Ion Ratio Lower Upper

73 100

43 20.2 15.5 23.3

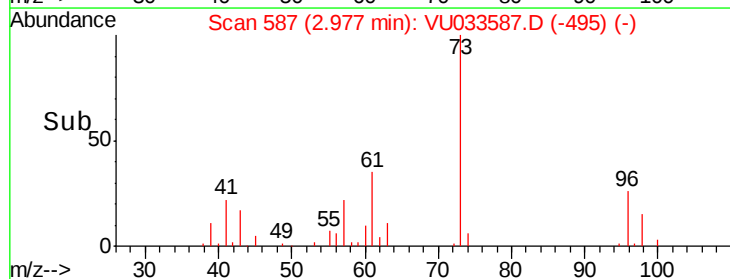
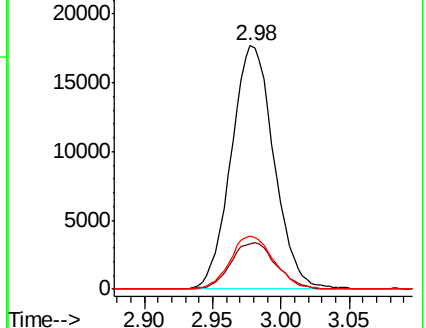
57 22.2 17.8 26.6

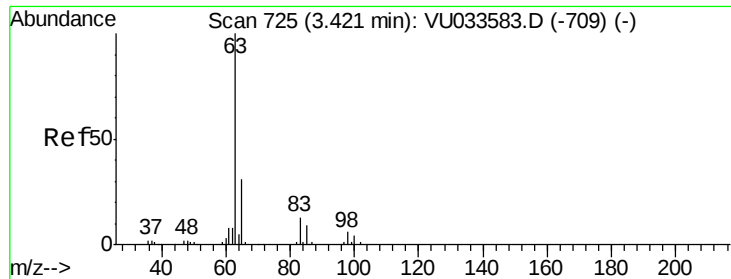


Abundance Ion 73.00 (72.70 to 73.70): VU033583.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033583.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033583.D (-571) (-)

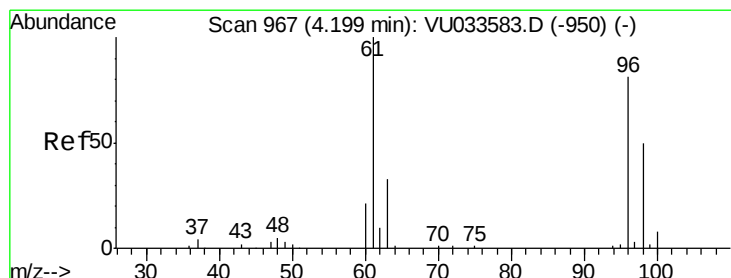
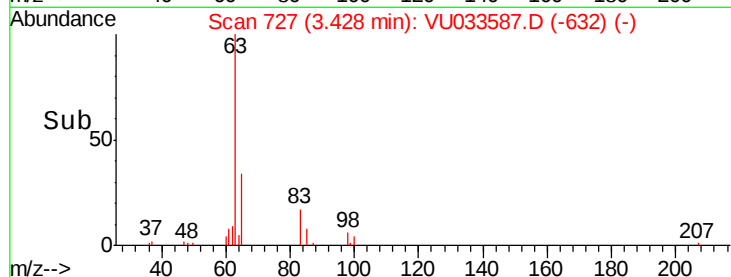
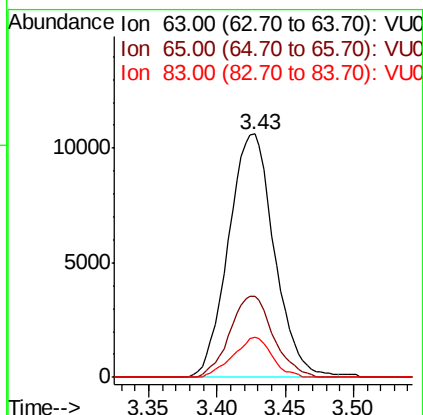
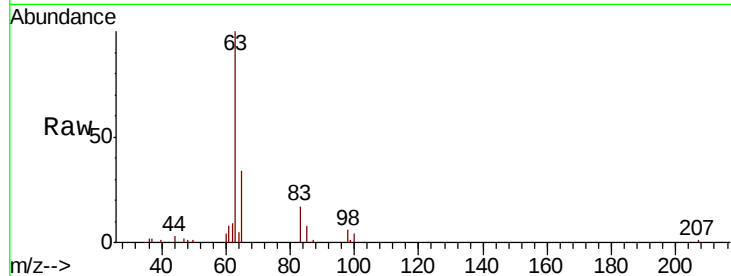




#19
 1,1-Dichloroethane
 Concen: 6.227 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.01 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

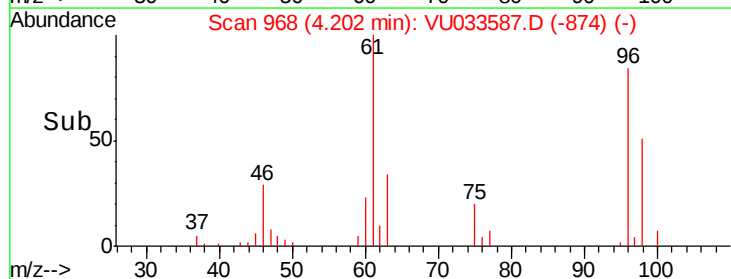
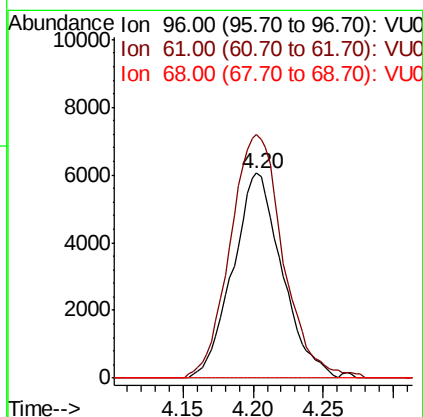
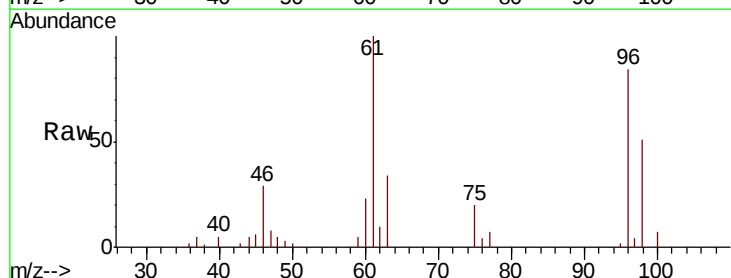
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

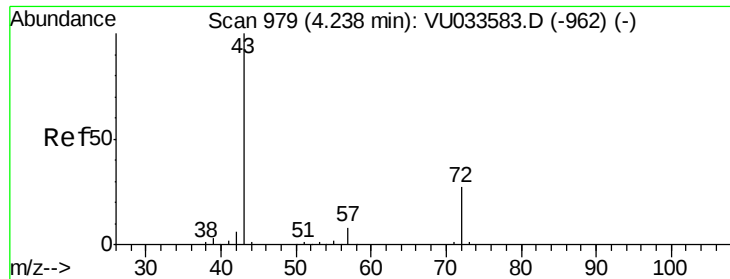
Tgt Ion: 63 Resp: 24783
 Ion Ratio Lower Upper
 63 100
 65 33.5 22.0 40.8
 83 16.5 8.9 16.5#



#20
 cis-1,2-Dichloroethene
 Concen: 6.205 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Tgt Ion: 96 Resp: 14778
 Ion Ratio Lower Upper
 96 100
 61 118.8 87.4 162.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 11.003 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

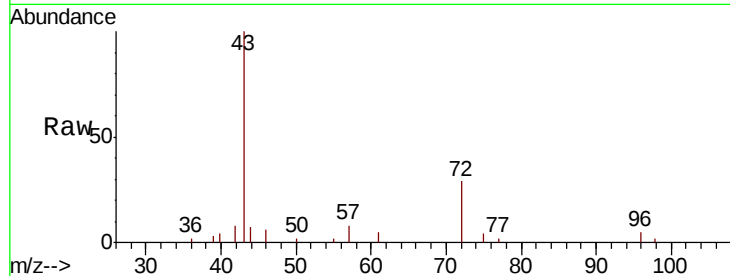
VSTD00534

Tgt Ion: 43 Resp: 20396

Ion Ratio Lower Upper

43 100

72 24.2 14.4 43.4



Abundance Ion 43.00 (42.70 to 43.70): VU033587.D (-983) (-)

Ion 72.00 (71.70 to 72.70): VU033587.D (-983) (-)

4.25

8000

6000

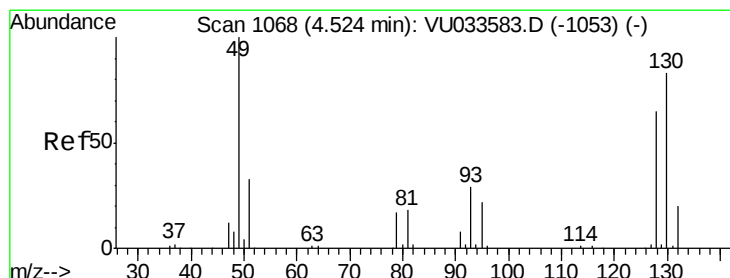
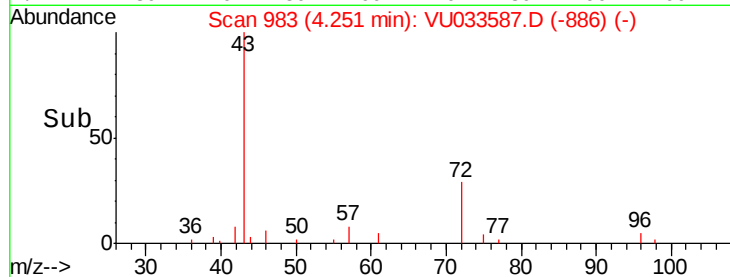
4000

2000

0

4.15 4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 5.924 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Tgt Ion: 128 Resp: 7301

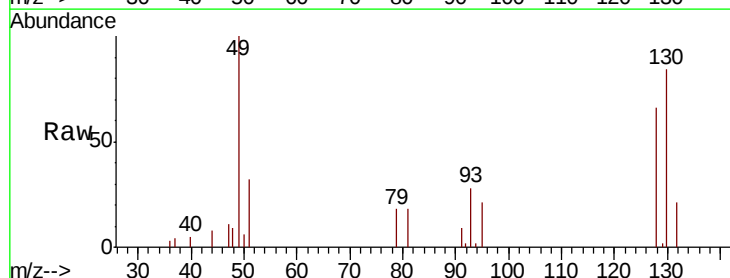
Ion Ratio Lower Upper

128 100

49 150.4 107.9 200.3

130 125.9 89.5 166.1

51 47.8 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033587.D (-1069) (-)

Ion 49.00 (48.70 to 49.70): VU033587.D (-1069) (-)

Ion 130.00 (129.70 to 130.70): VU033587.D (-1069) (-)

Ion 51.00 (50.70 to 51.70): VU033587.D (-1069) (-)

4.53

6000

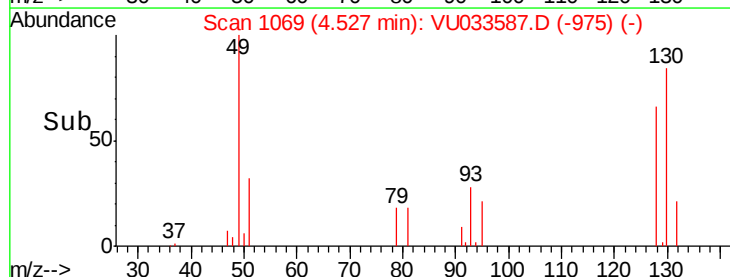
4000

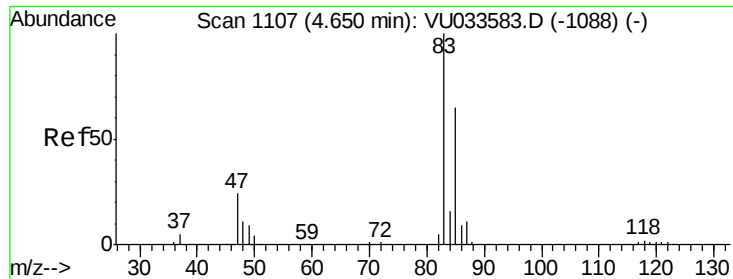
2000

0

4.45 4.50 4.55 4.60

Time-->

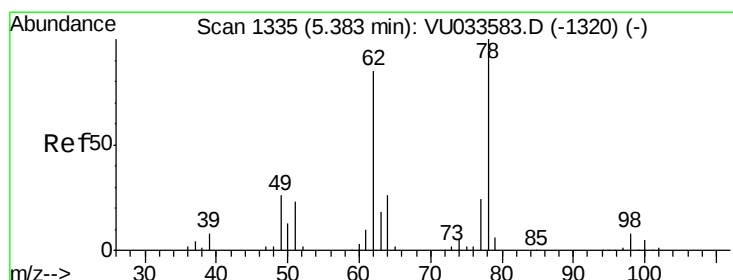
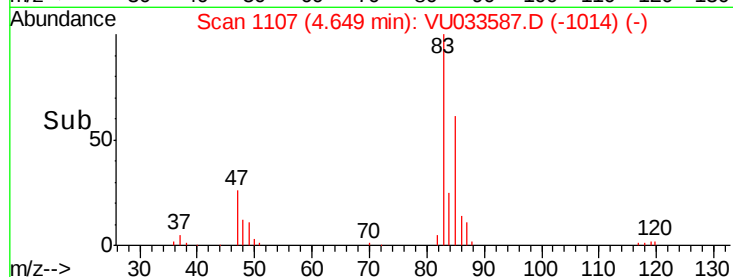
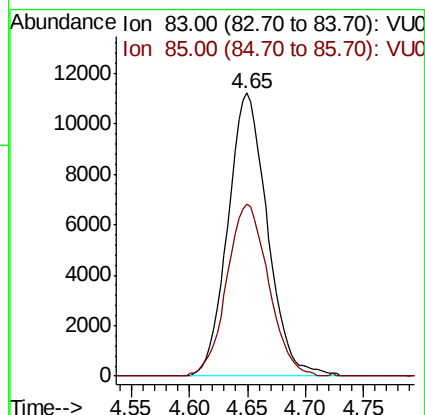
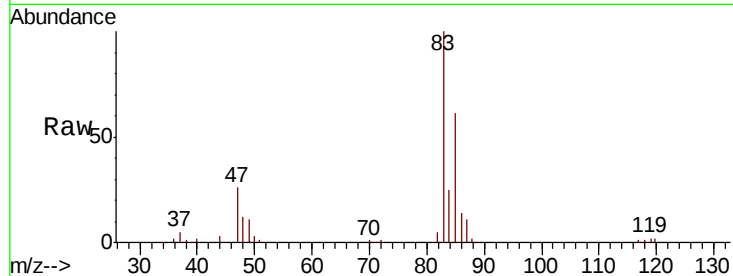




#25
Chloroform
Concen: 6.331 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

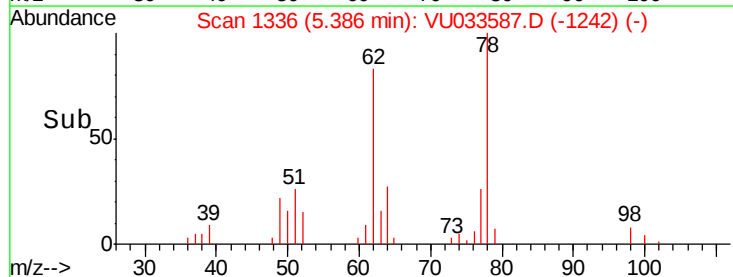
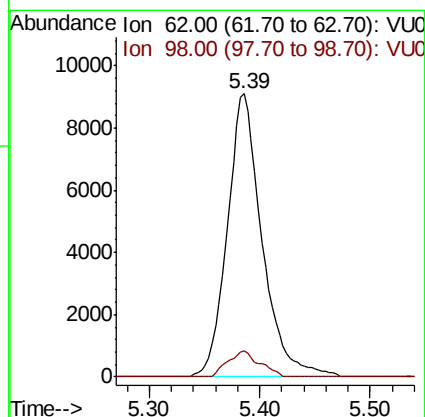
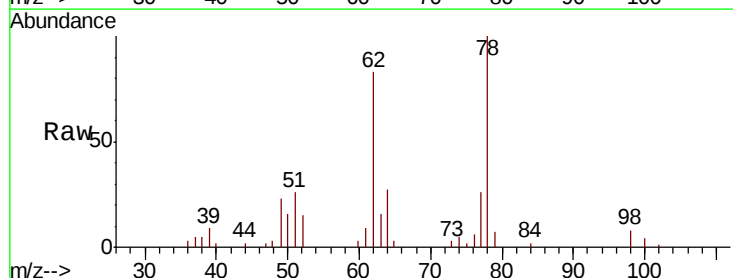
Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

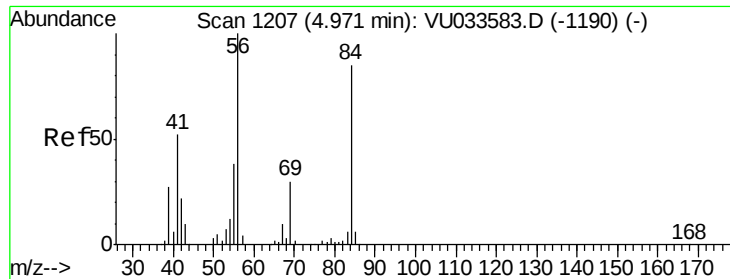
Tgt Ion: 83 Resp: 26461
Ion Ratio Lower Upper
83 100
85 60.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 6.157 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion: 62 Resp: 19874
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.0





#29

Cyclohexane

Concen: 5.731 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

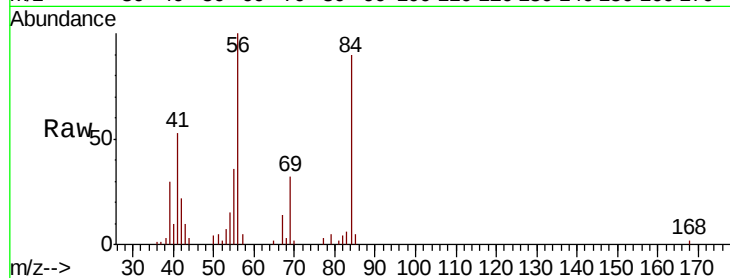
Tgt Ion: 56 Resp: 19137

Ion Ratio Lower Upper

56 100

69 31.5 24.6 36.8

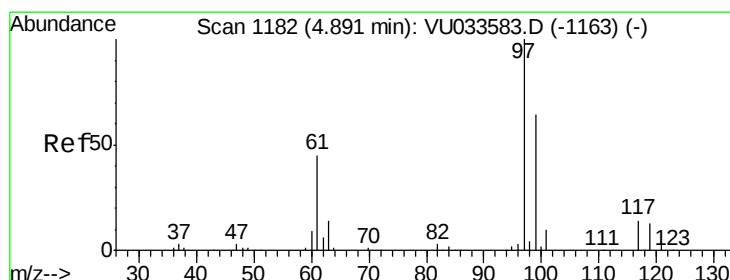
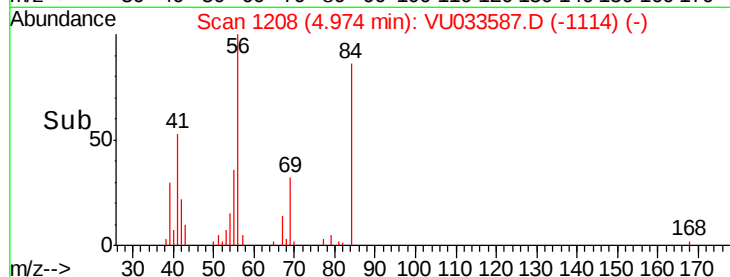
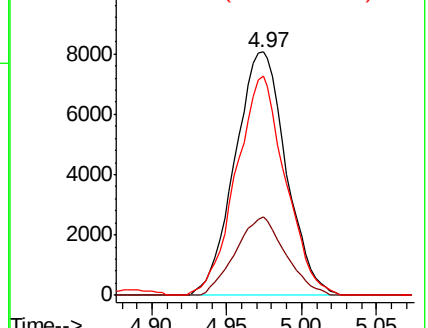
84 87.0 69.8 104.6



Abundance Ion 56.00 (55.70 to 56.70): VU033587.D (-1190) (-)

Ion 69.00 (68.70 to 69.70): VU033587.D (-1190) (-)

Ion 84.00 (83.70 to 84.70): VU033587.D (-1190) (-)



#30

1,1,1-Trichloroethane

Concen: 6.093 ug/L

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

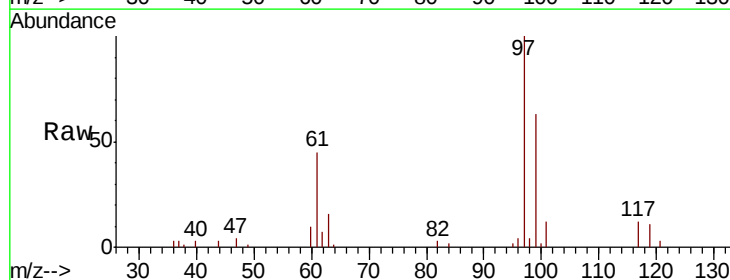
Tgt Ion: 97 Resp: 21575

Ion Ratio Lower Upper

97 100

99 63.3 51.5 77.3

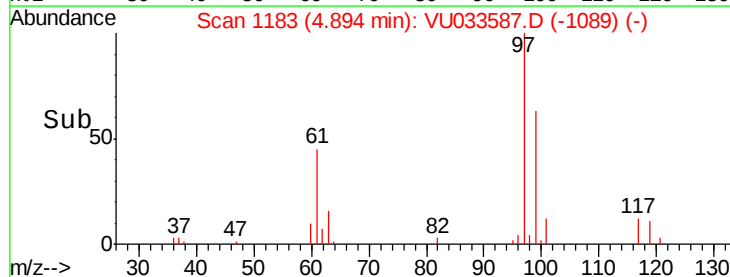
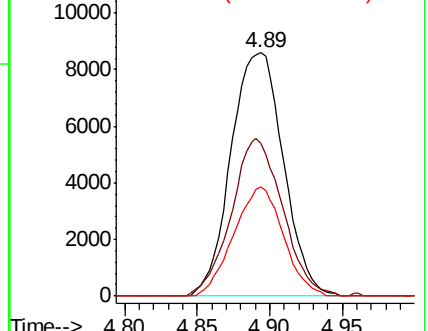
61 42.6 36.1 54.1

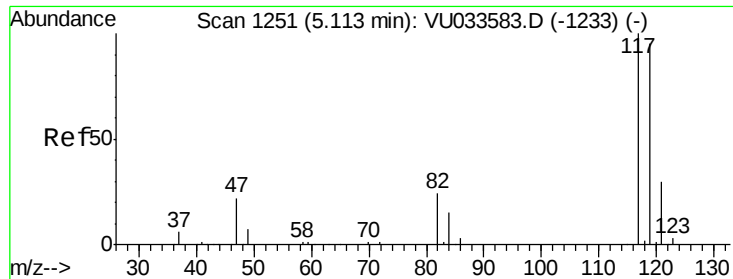


Abundance Ion 97.00 (96.70 to 97.70): VU033587.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033587.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033587.D (-1089) (-)

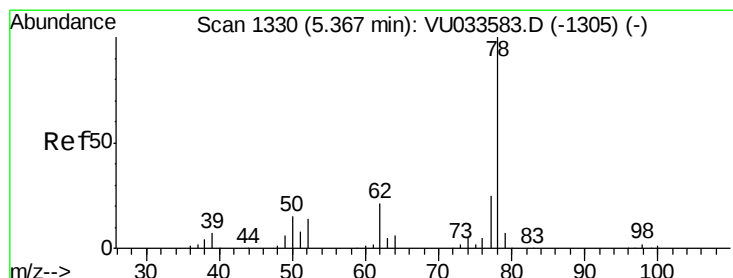
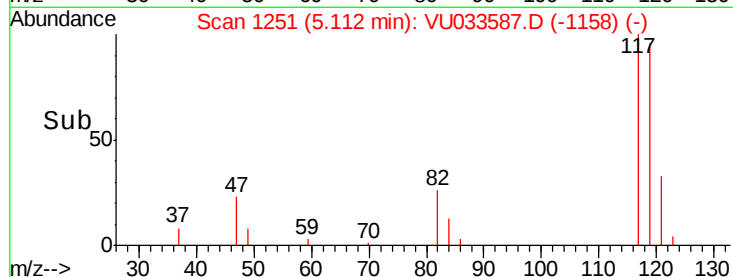
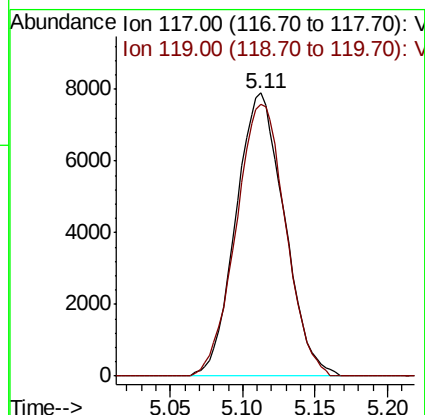
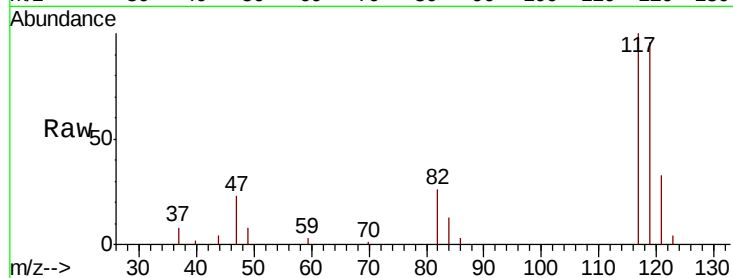




#31
Carbon tetrachloride
Concen: 5.933 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

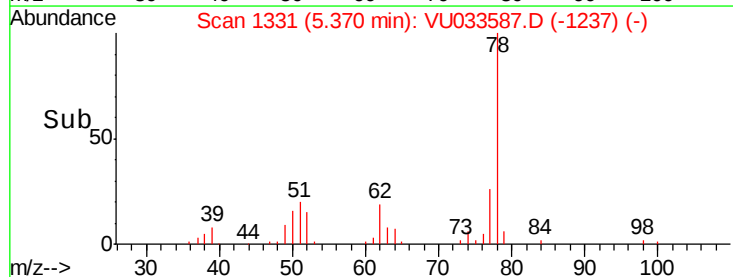
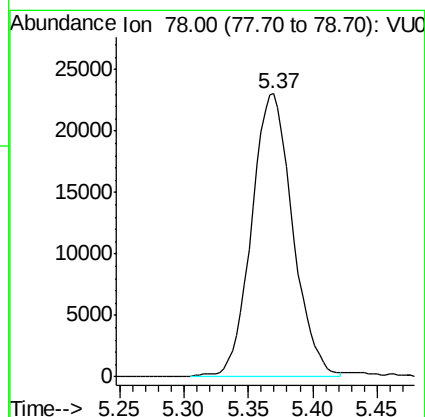
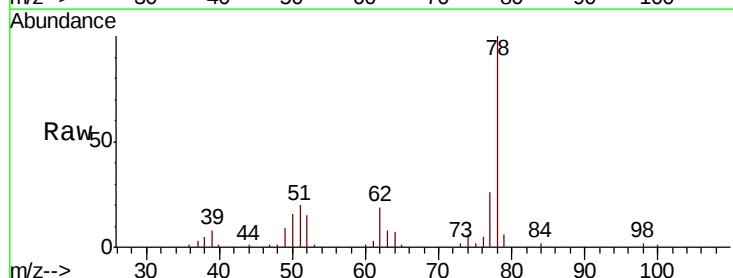
Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

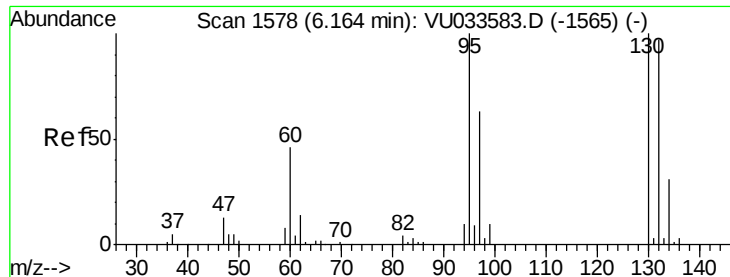
Tgt Ion:117 Resp: 18341
Ion Ratio Lower Upper
117 100
119 98.2 76.9 115.3



#33
Benzene
Concen: 5.780 ug/L
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion: 78 Resp: 51260





#34

Trichloroethene

Concen: 6.234 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

Tgt Ion: 95 Resp: 14567

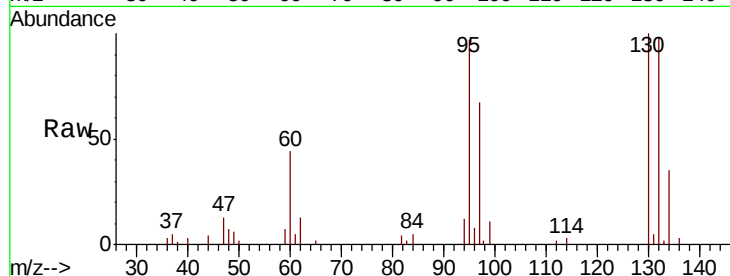
Ion Ratio Lower Upper

95 100

97 69.6 44.2 82.2

132 100.9 68.3 126.8

130 103.3 70.1 130.3

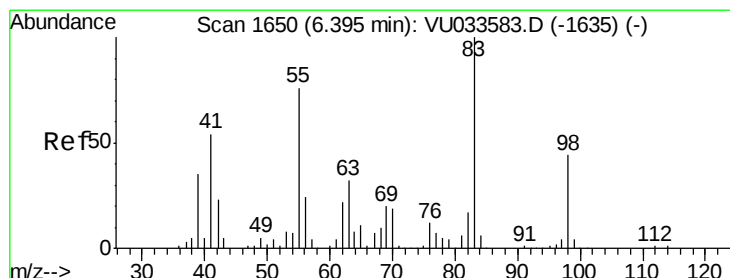
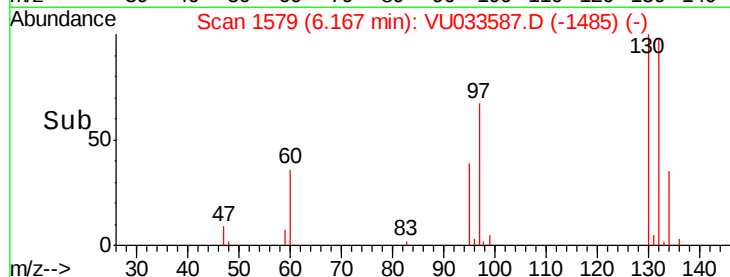
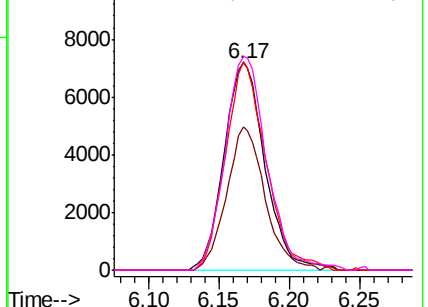


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.529 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

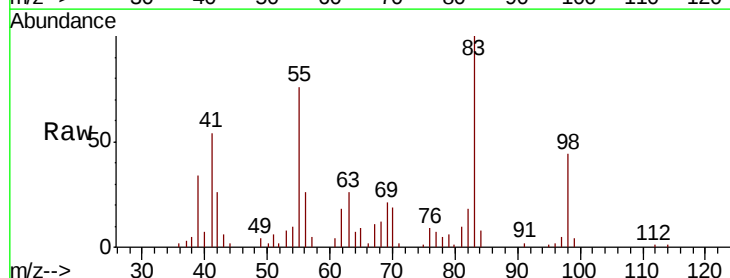
Tgt Ion: 83 Resp: 20119

Ion Ratio Lower Upper

83 100

55 77.7 60.7 91.1

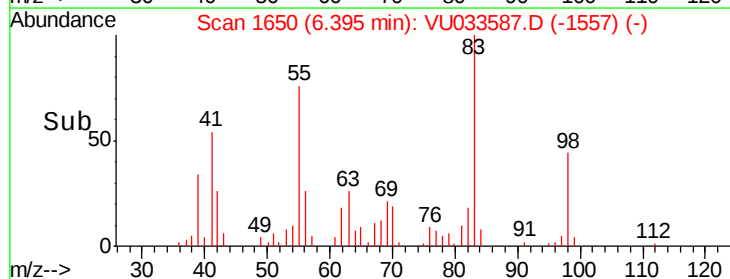
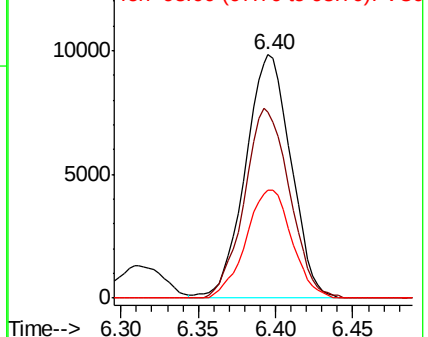
98 44.7 35.4 53.2

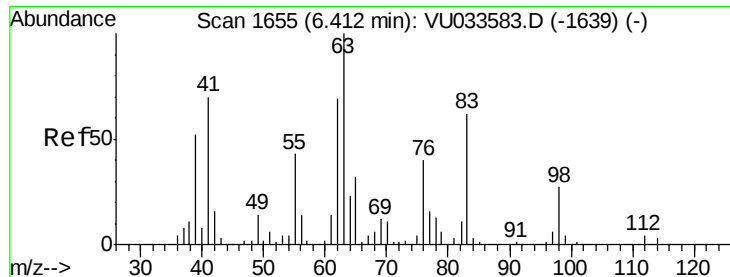


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

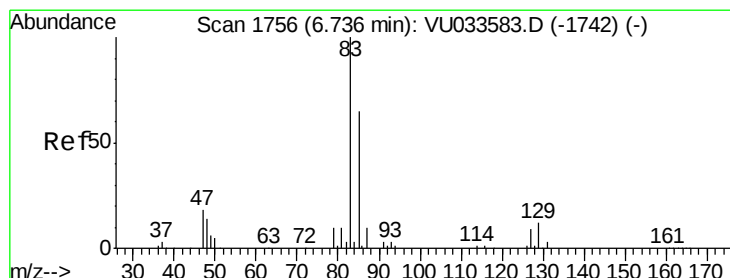
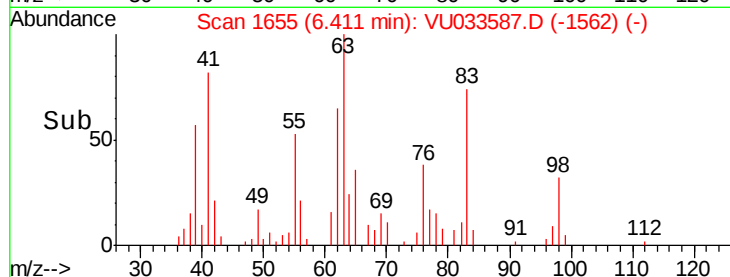
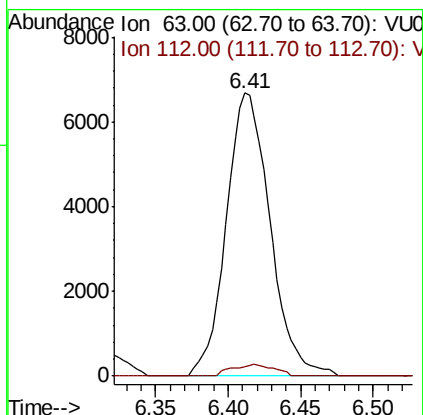
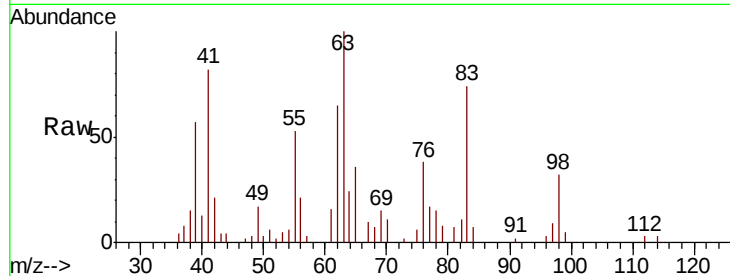




#37
 1,2-Dichloropropane
 Concen: 5.867 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

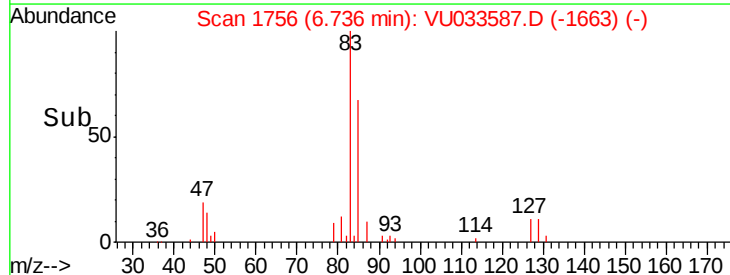
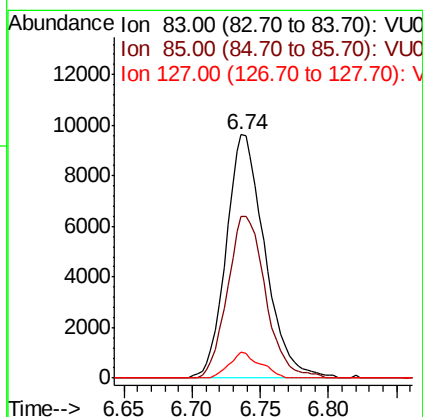
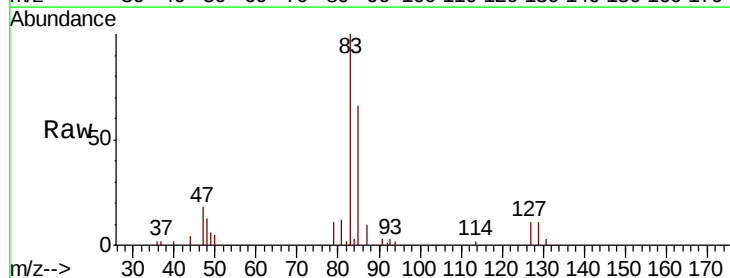
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

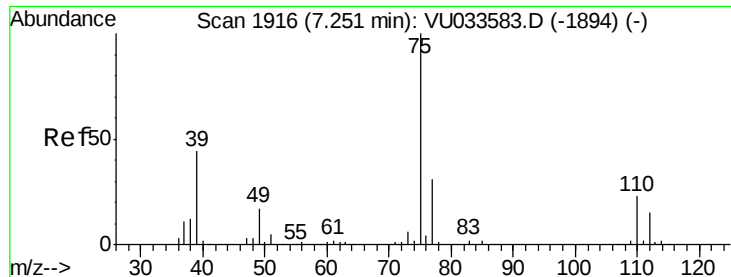
Tgt Ion: 63 Resp: 14053
 Ion Ratio Lower Upper
 63 100
 112 2.8 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 6.143 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Tgt Ion: 83 Resp: 18943
 Ion Ratio Lower Upper
 83 100
 85 66.2 45.5 84.5
 127 10.9 6.9 10.3#

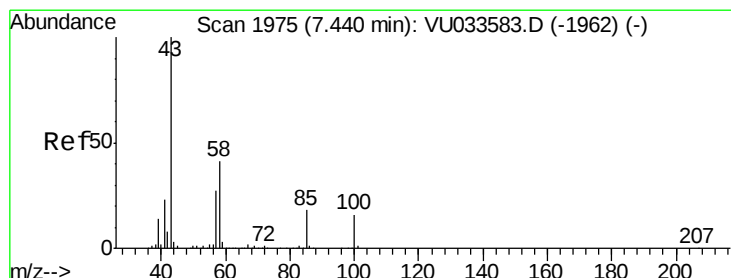
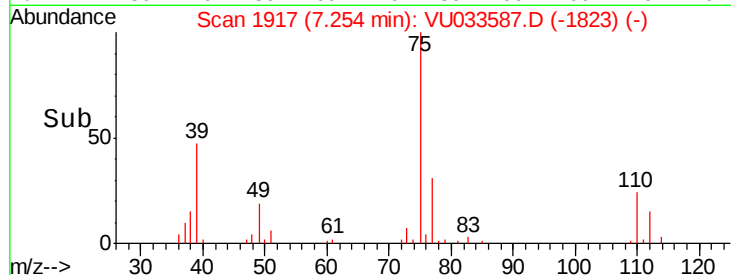
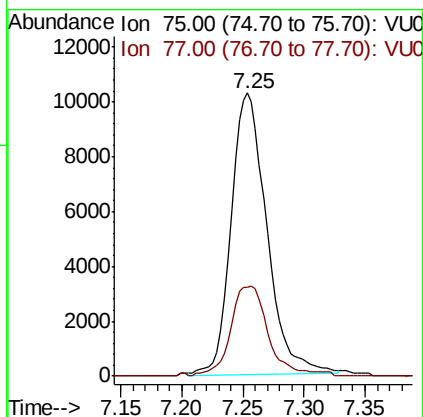
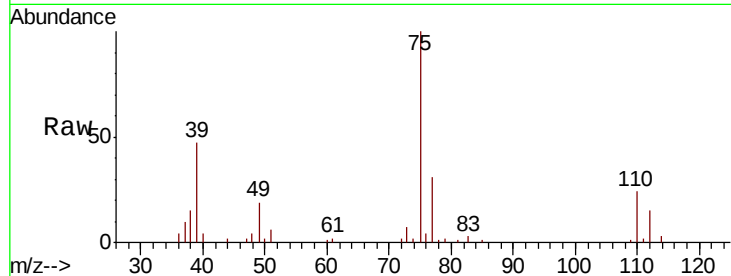




#39
 cis-1,3-Dichloropropene
 Concen: 5.629 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

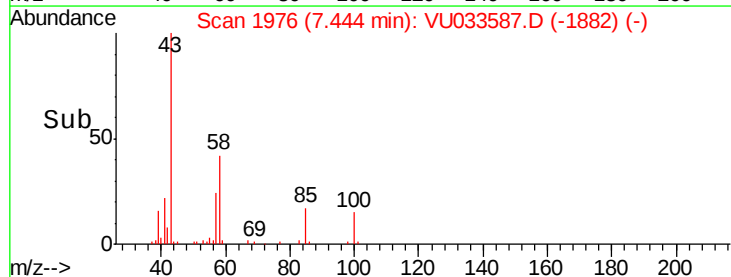
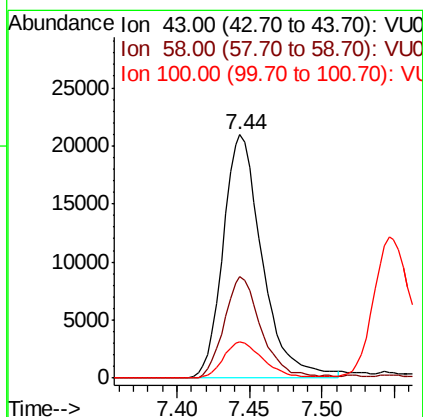
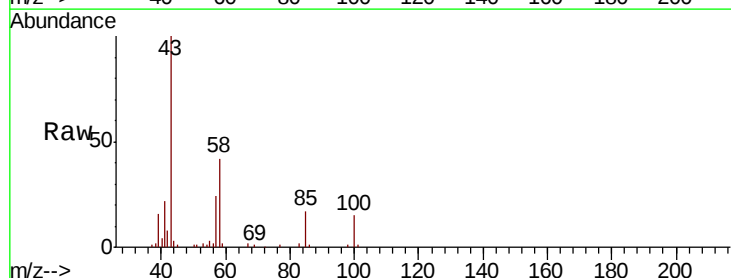
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

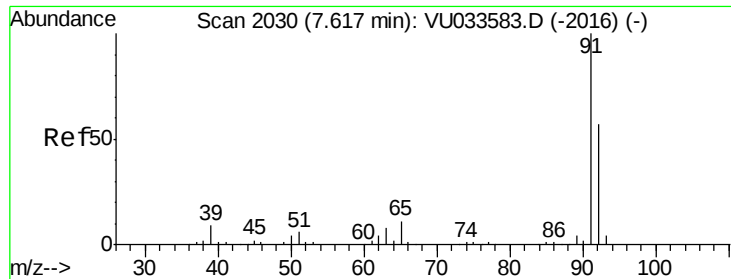
Tgt Ion: 75 Resp: 20908
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 11.799 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Tgt Ion: 43 Resp: 39232
 Ion Ratio Lower Upper
 43 100
 58 39.1 33.0 49.4
 100 15.1 12.4 18.6





#42

Toluene

Concen: 5.804 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

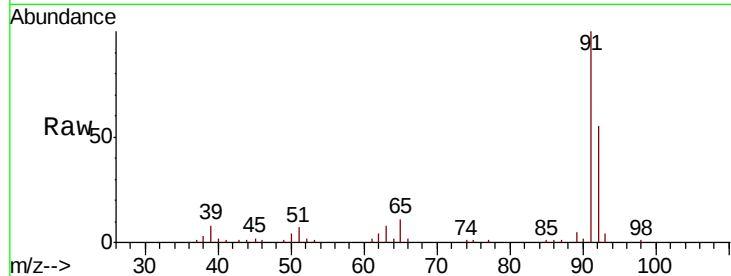
VSTD00534

Tgt Ion: 91 Resp: 55242

Ion Ratio Lower Upper

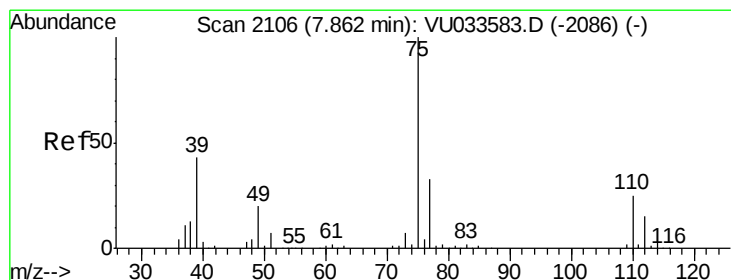
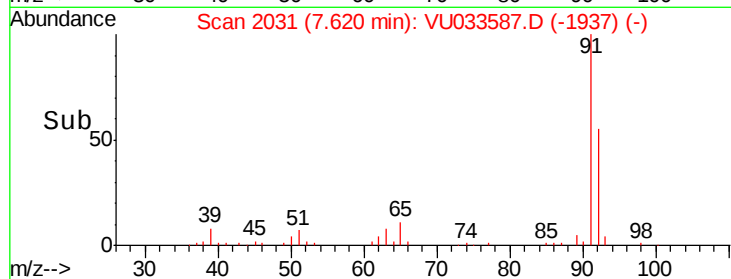
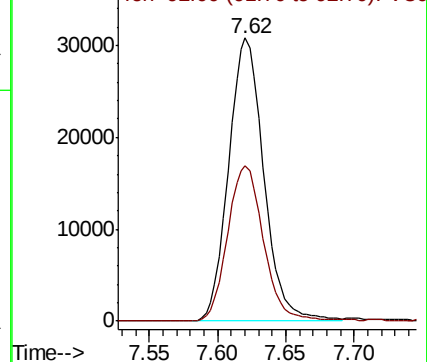
91 100

92 55.1 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.845 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033587.D

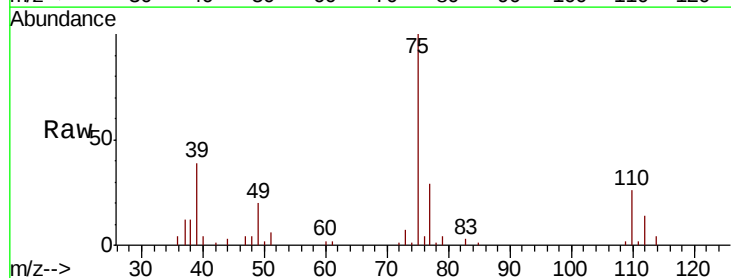
Acq: 03 Aug 2019 12:50

Tgt Ion: 75 Resp: 19548

Ion Ratio Lower Upper

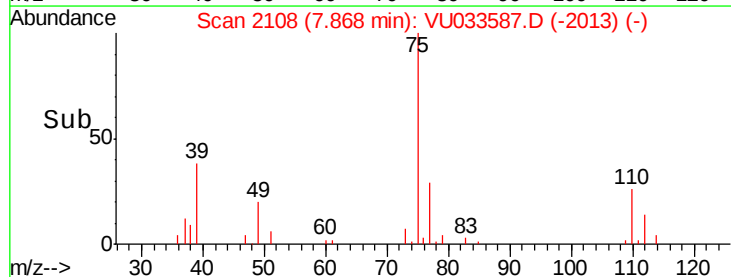
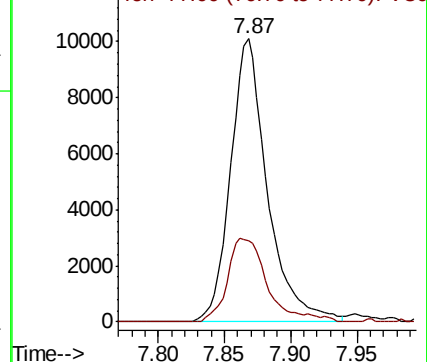
75 100

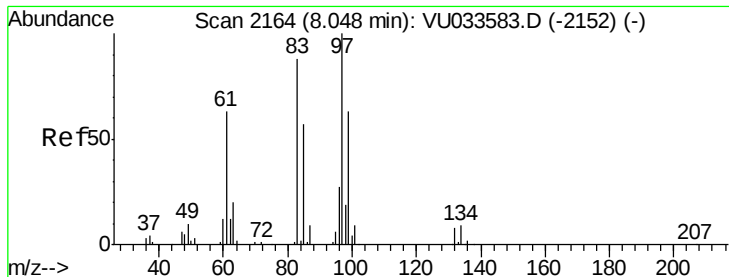
77 28.5 23.4 43.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 6.297 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

Tgt Ion: 97 Resp: 14253

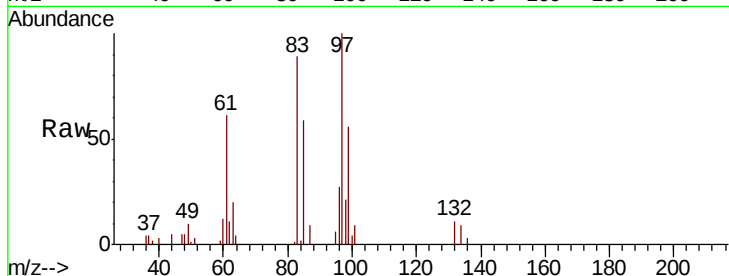
Ion Ratio Lower Upper

97 100

99 56.4 43.9 81.5

83 88.6 61.9 114.9

85 58.8 39.8 73.8

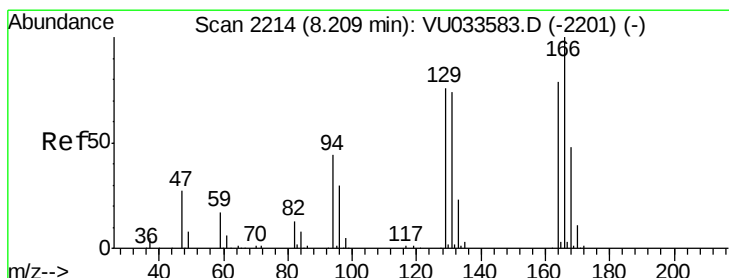
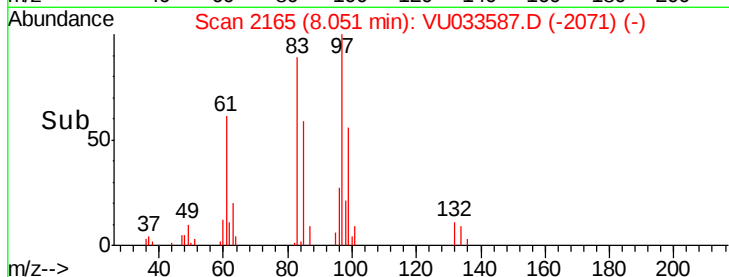
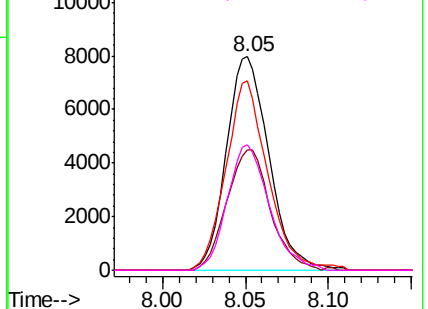


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 5.947 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Tgt Ion: 164 Resp: 11297

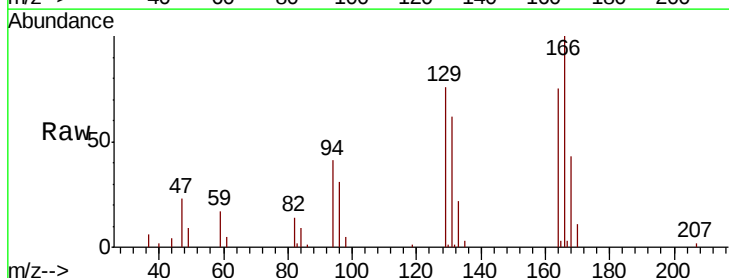
Ion Ratio Lower Upper

164 100

129 100.8 67.0 124.4

131 83.4 65.0 120.6

166 133.5 88.1 163.7

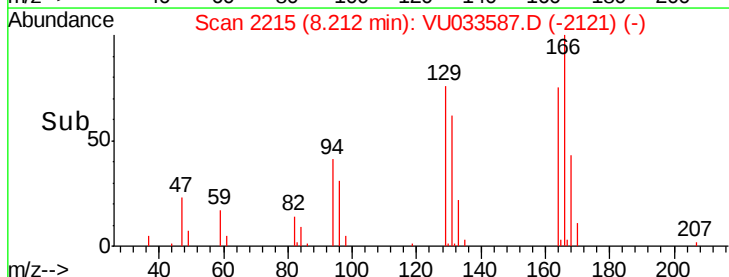
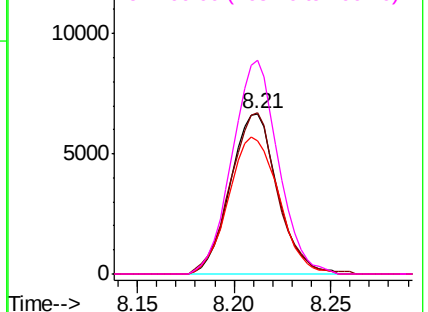


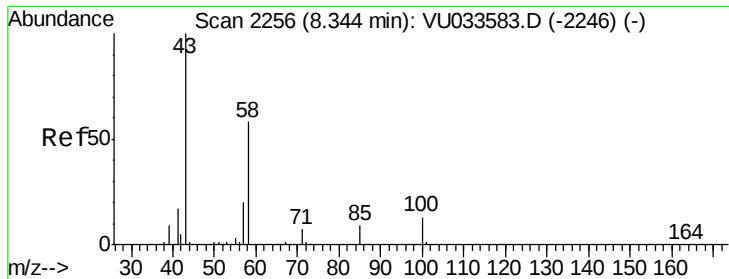
Abundance Ion 164.00 (163.70 to 164.70): V

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

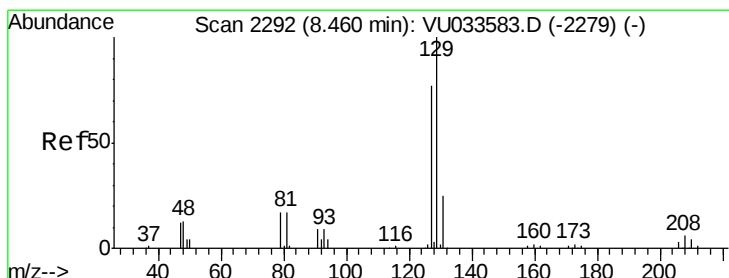
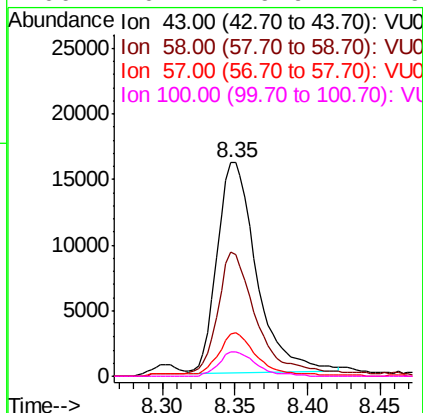
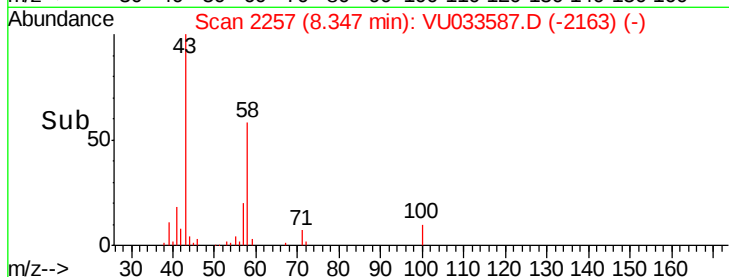
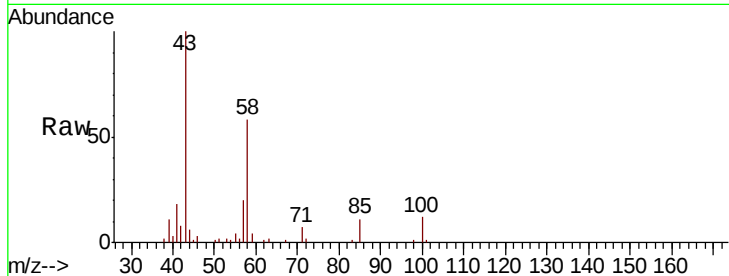




#48
2-Hexanone
Concen: 11.366 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

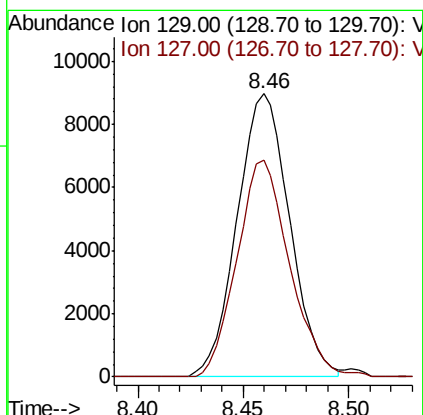
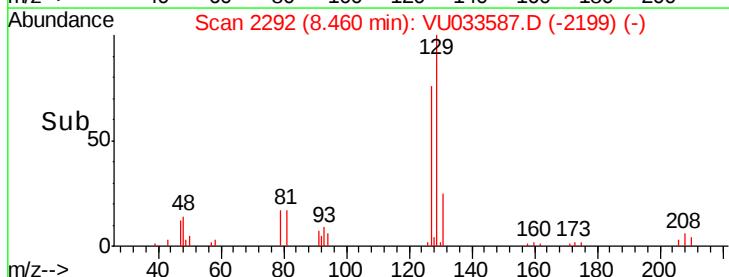
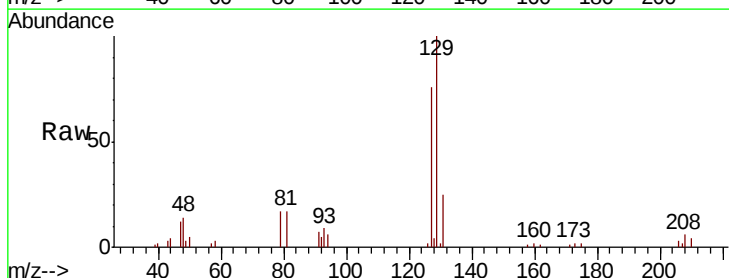
Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

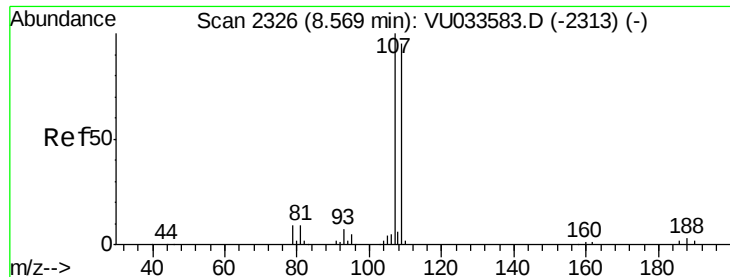
Tgt Ion:	43	Resp:	30431
Ion	Ratio	Lower	Upper
43	100		
58	55.9	45.9	68.9
57	17.8	16.2	24.2
100	10.7	9.9	14.9



#49
Dibromochloromethane
Concen: 6.058 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion:	129	Resp:	15571
Ion	Ratio	Lower	Upper
129	100		
127	76.4	53.7	99.7

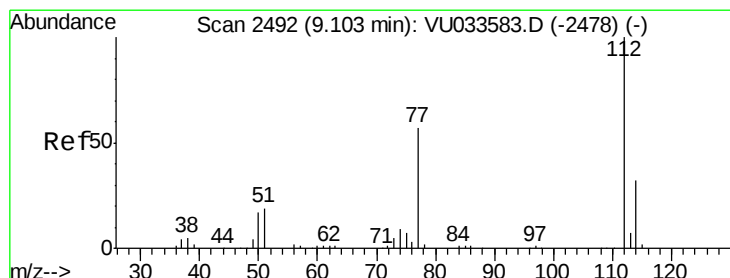
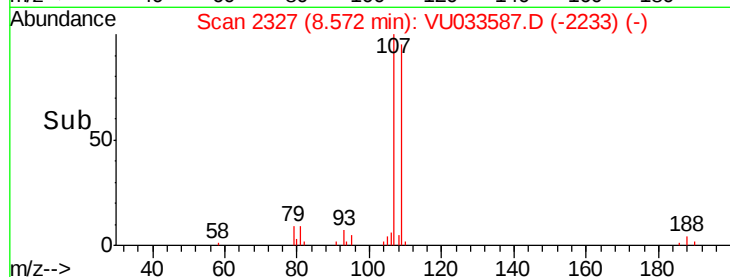
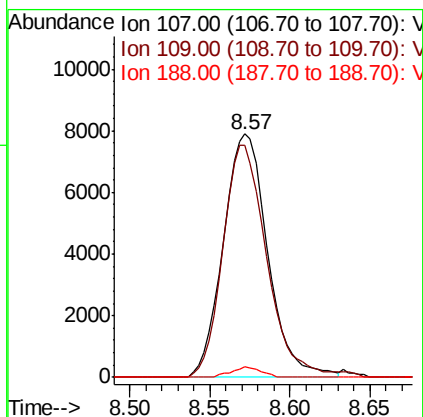
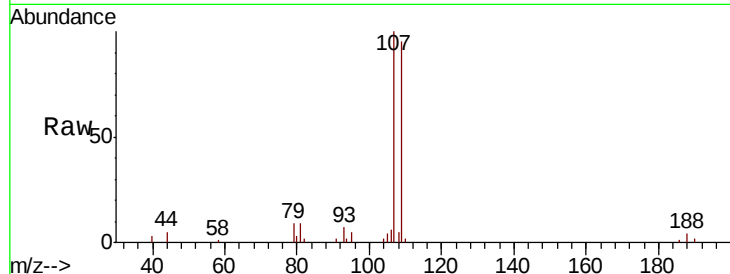




#50
1,2-Dibromoethane
Concen: 6.020 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

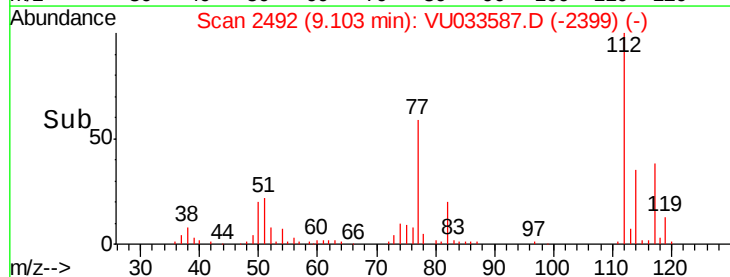
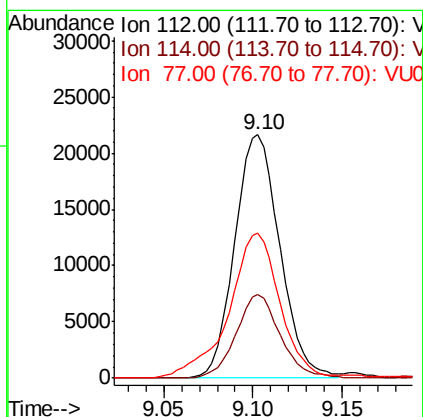
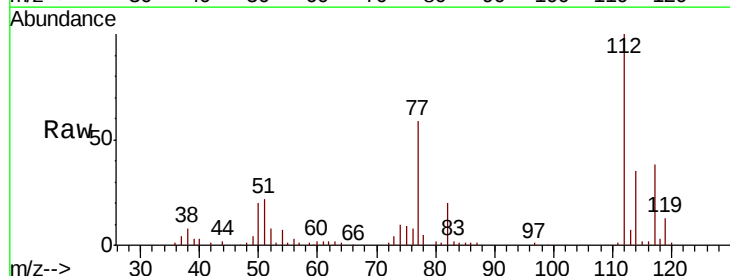
Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

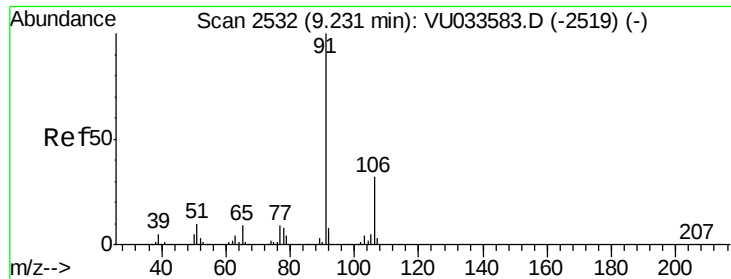
Tgt Ion:107 Resp: 15002
Ion Ratio Lower Upper
107 100
109 95.1 66.6 123.6
188 4.2 2.6 4.0#



#51
Chlorobenzene
Concen: 6.151 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion:112 Resp: 38310
Ion Ratio Lower Upper
112 100
114 34.6 22.3 41.3
77 59.4 46.3 69.5





#52

Ethylbenzene

Concen: 5.627 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

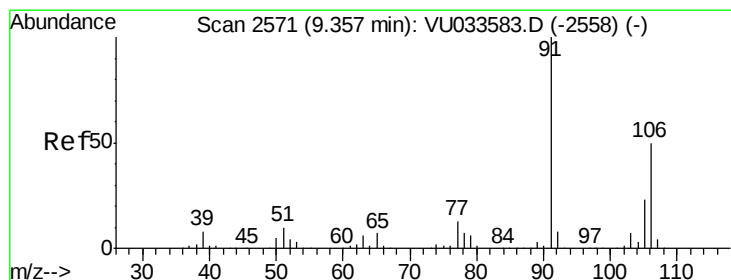
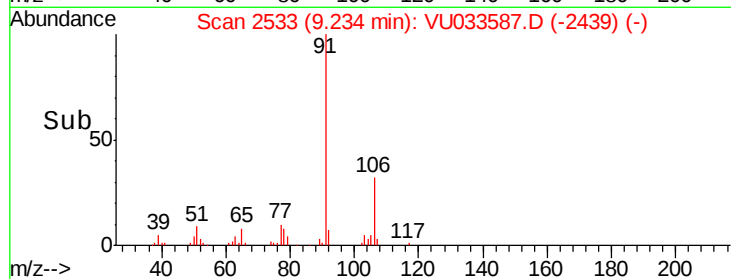
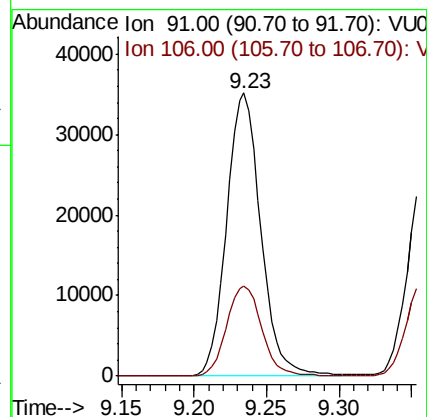
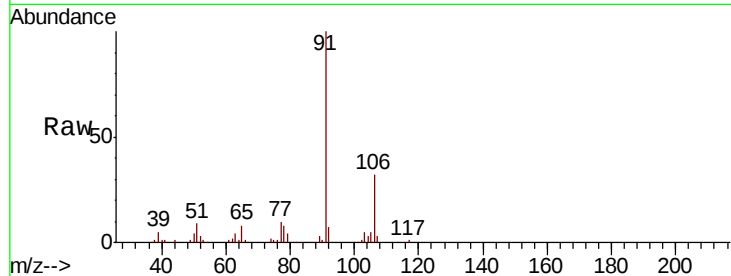
VSTD00534

Tgt Ion: 91 Resp: 57672

Ion Ratio Lower Upper

91 100

106 31.9 22.1 41.1



#53

m,p-Xylene

Concen: 5.466 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033587.D

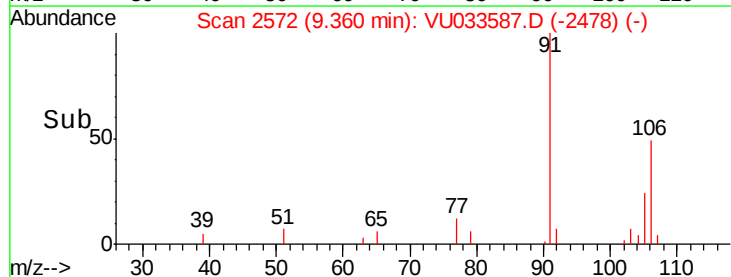
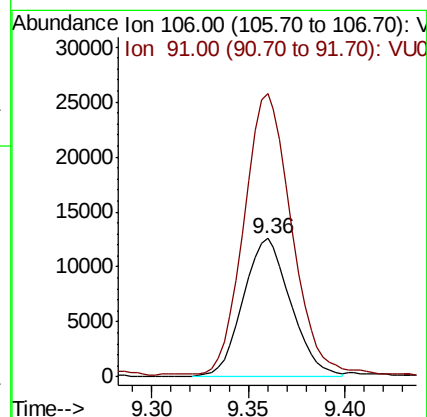
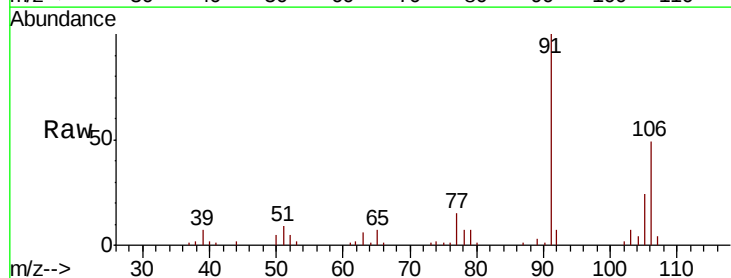
Acq: 03 Aug 2019 12:50

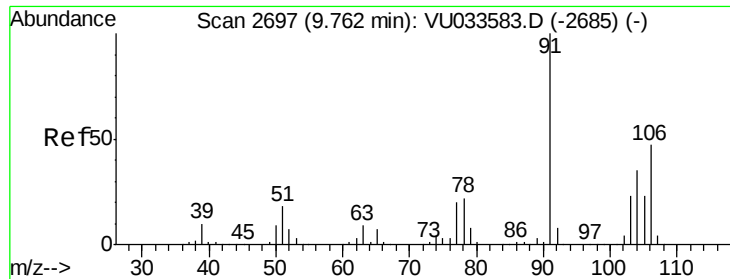
Tgt Ion: 106 Resp: 21565

Ion Ratio Lower Upper

106 100

91 204.8 141.2 262.2

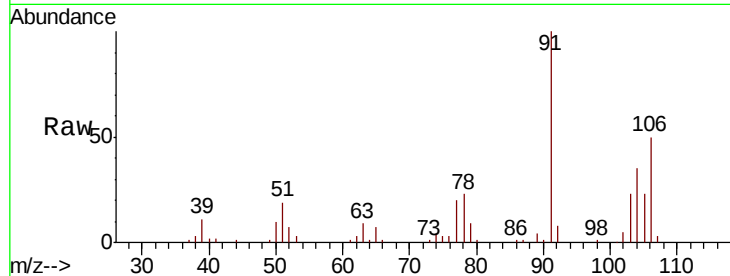




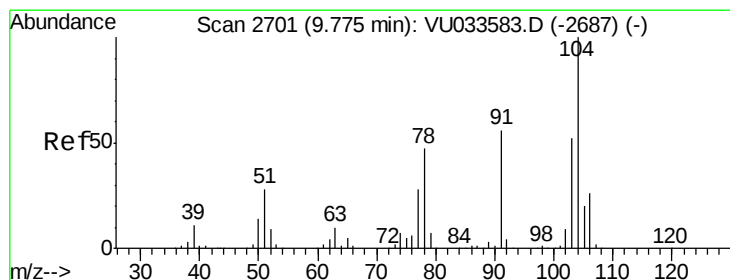
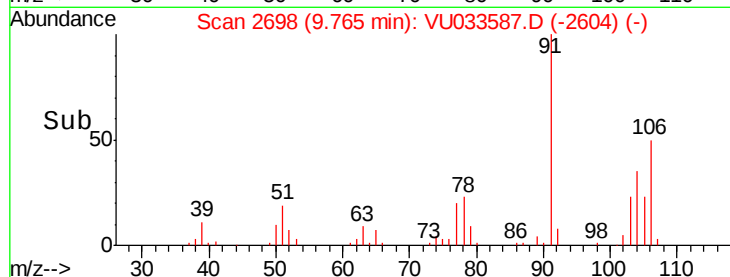
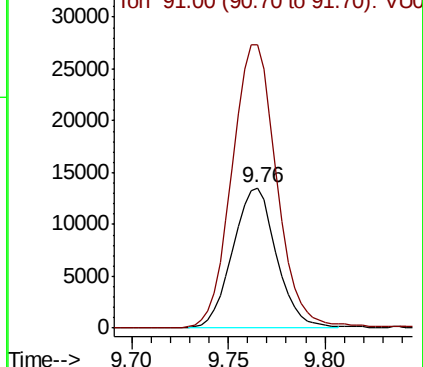
#54
o-xylene
Concen: 5.615 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Tgt Ion:106 Resp: 21367
Ion Ratio Lower Upper
106 100
91 201.6 148.9 276.5

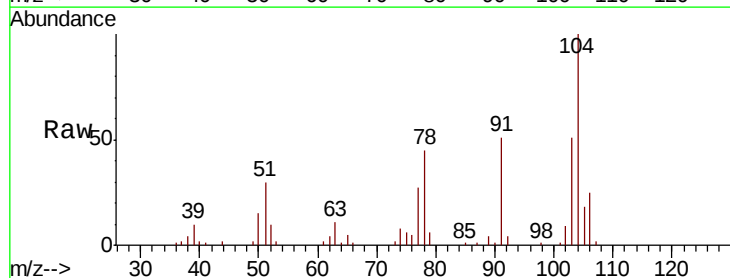


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

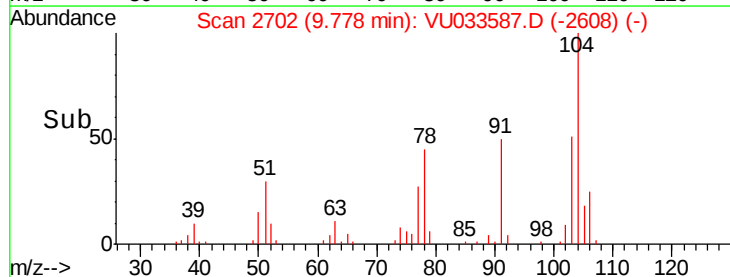
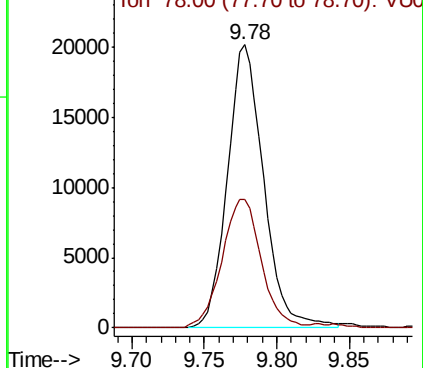


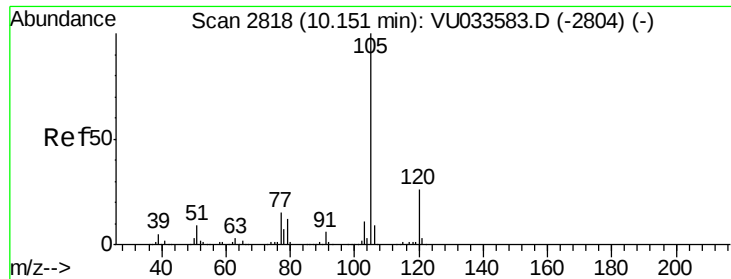
#55
Styrene
Concen: 5.406 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033587.D
Acq: 03 Aug 2019 12:50

Tgt Ion:104 Resp: 34972
Ion Ratio Lower Upper
104 100
78 45.3 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 5.491 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

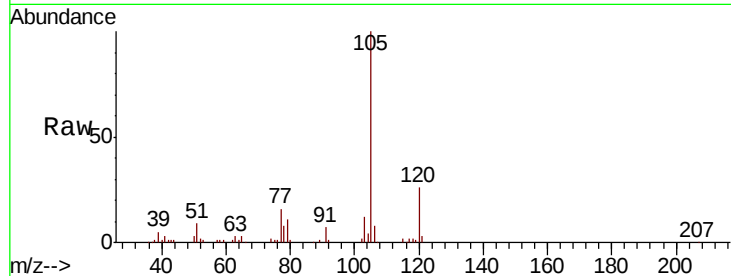
Tgt Ion: 105 Resp: 54729

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

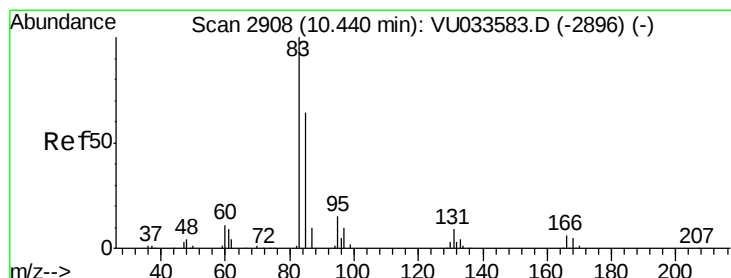
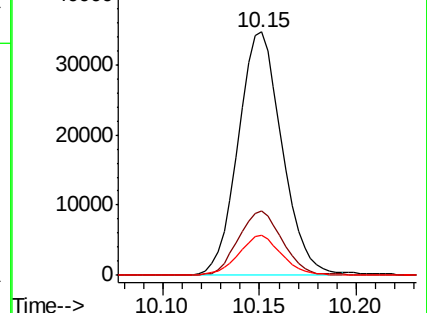
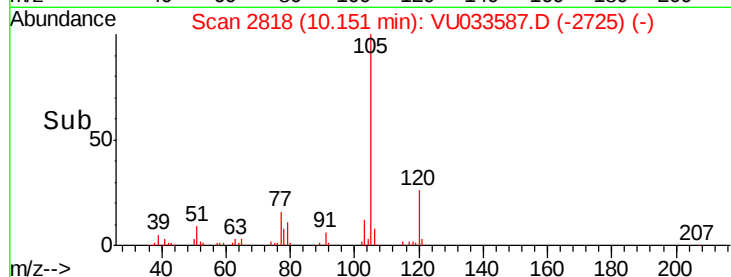
77 16.1 12.6 18.8



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: 5.958 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

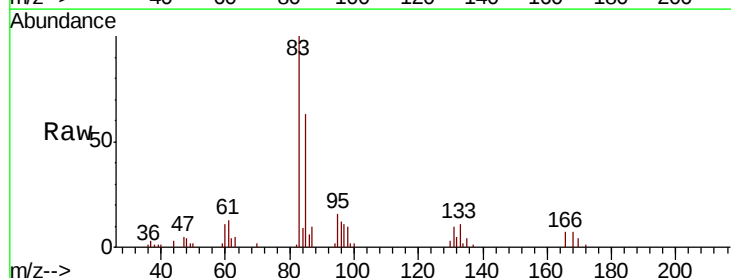
Tgt Ion: 83 Resp: 24367

Ion Ratio Lower Upper

83 100

85 63.1 45.1 83.9

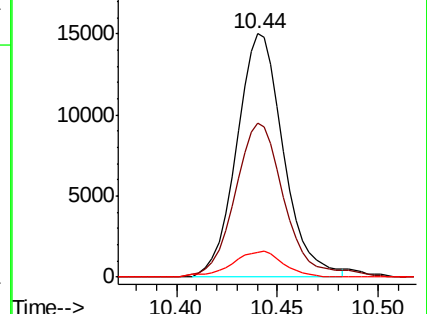
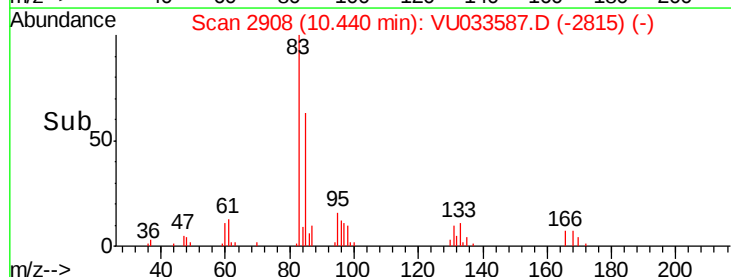
131 10.2 7.4 11.2

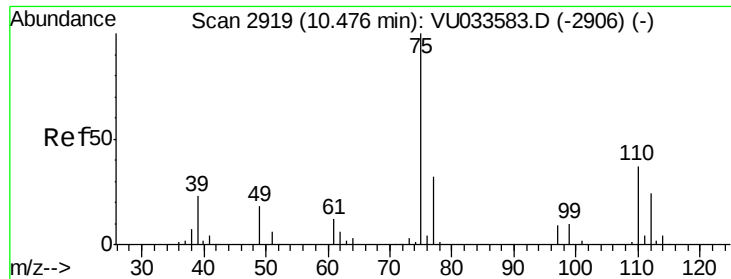


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

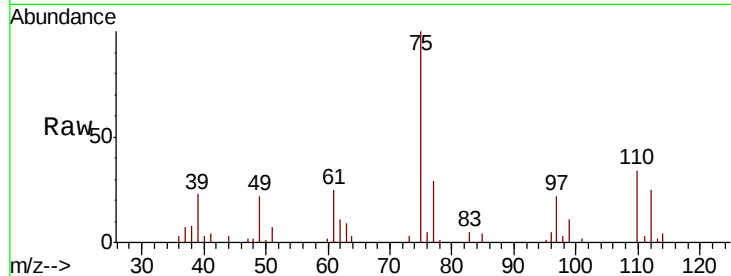




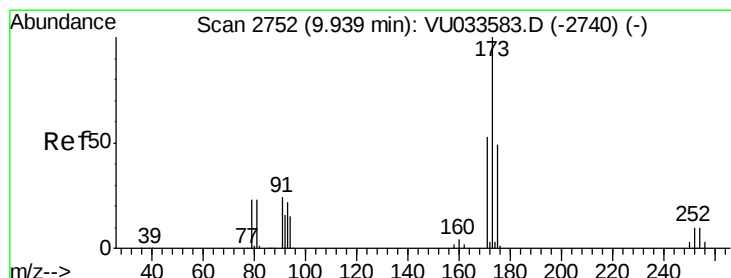
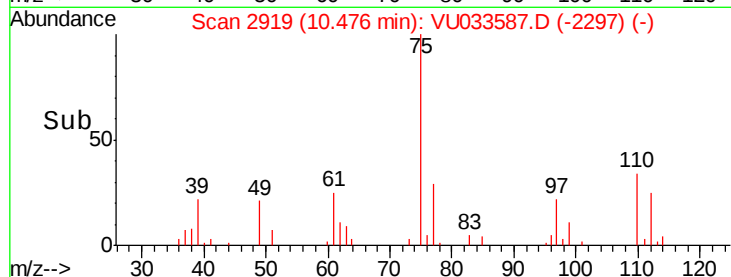
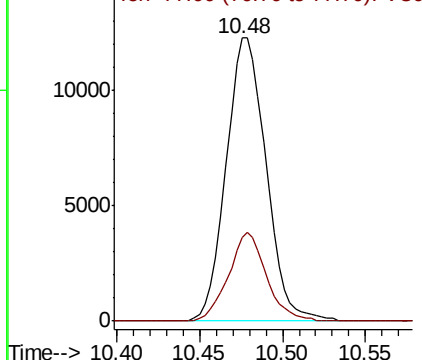
#59
 1,2,3-Trichloropropane
 Concen: 6.508 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

Tgt Ion: 75 Resp: 20575
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.1 37.7

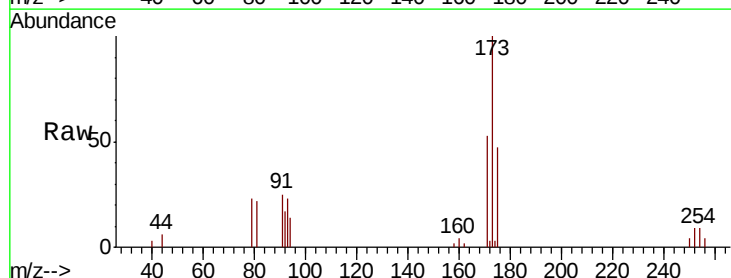


Abundance Ion 75.00 (74.70 to 75.70): VU033587.D (-2906) (-)
 Ion 77.00 (76.70 to 77.70): VU033587.D (-2906) (-)

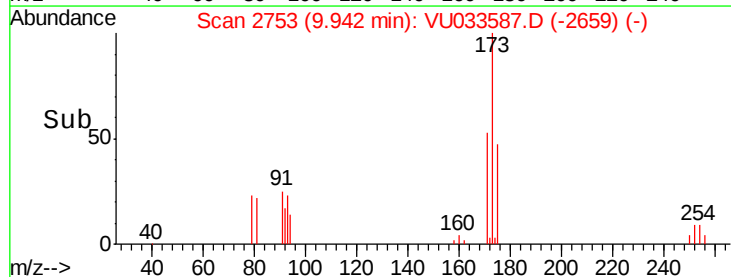
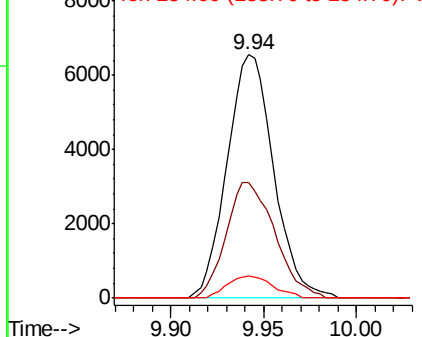


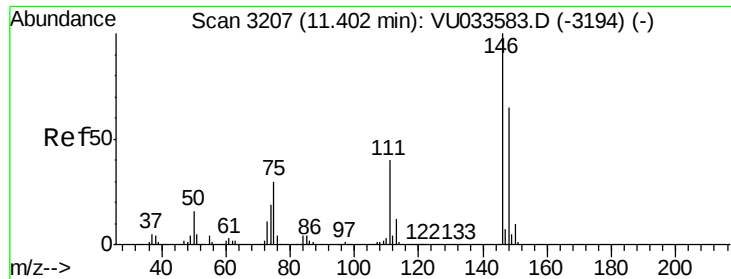
#61
 Bromoform
 Concen: 6.109 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Tgt Ion: 173 Resp: 11434
 Ion Ratio Lower Upper
 173 100
 175 49.6 39.5 59.3
 254 8.9 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033587.D (-2740) (-)
 Ion 175.00 (174.70 to 175.70): VU033587.D (-2740) (-)
 Ion 254.00 (253.70 to 254.70): VU033587.D (-2740) (-)





#62

1,3-Dichlorobenzene

Concen: 6.475 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

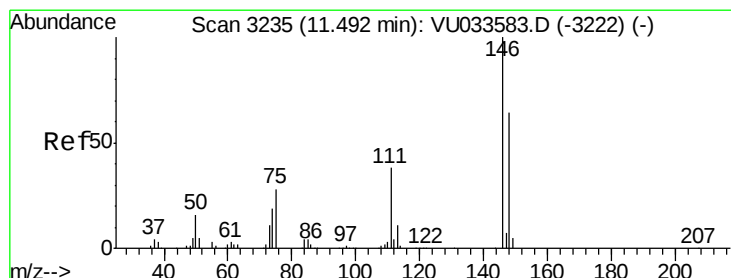
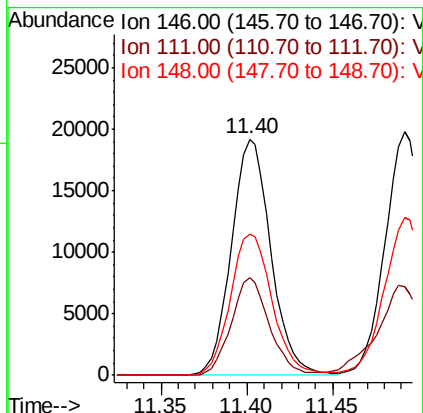
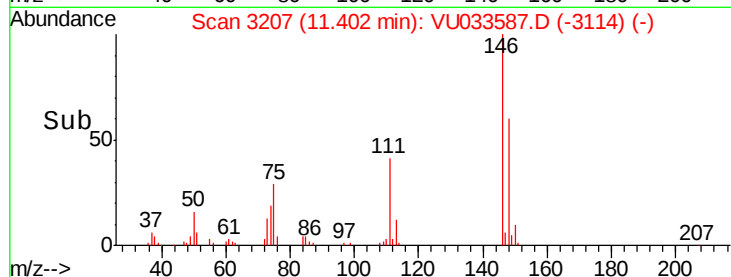
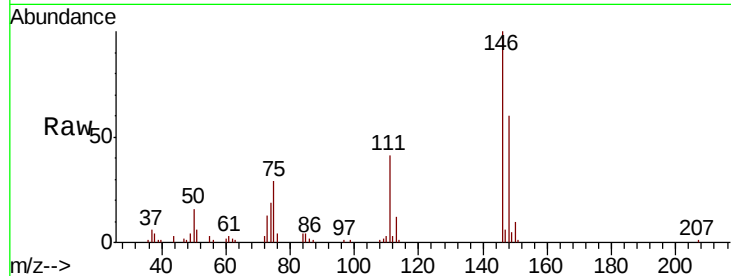
Tgt Ion:146 Resp: 30759

Ion Ratio Lower Upper

146 100

111 41.5 27.7 51.5

148 59.7 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 6.369 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

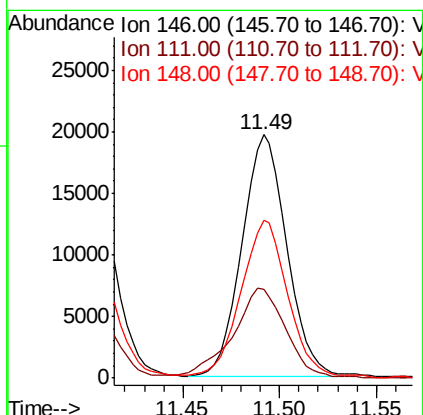
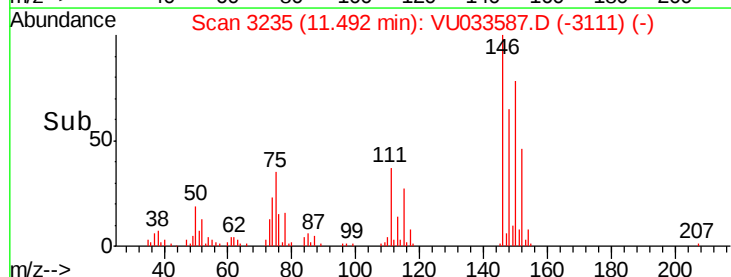
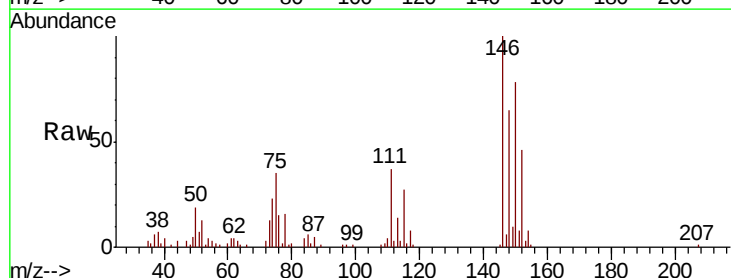
Tgt Ion:146 Resp: 31480

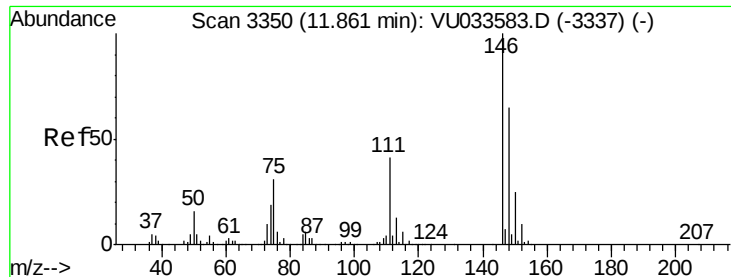
Ion Ratio Lower Upper

146 100

111 36.6 26.8 49.8

148 64.9 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 6.303 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

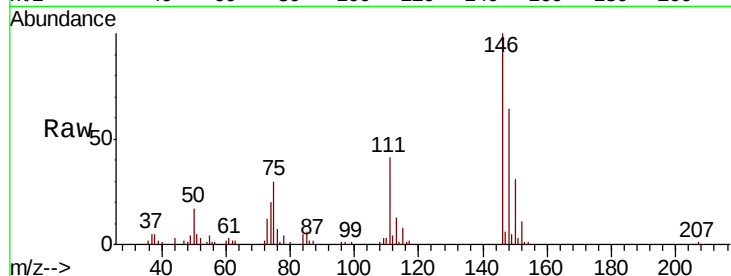
Tgt Ion:146 Resp: 30279

Ion Ratio Lower Upper

146 100

111 41.2 33.1 49.7

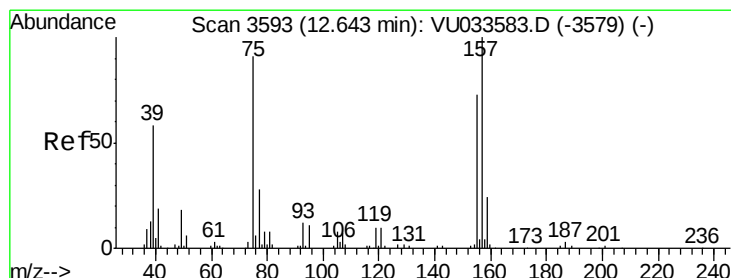
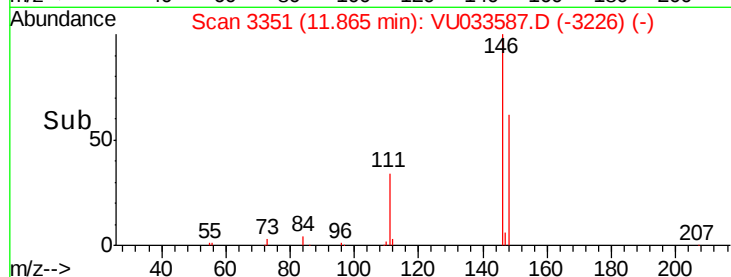
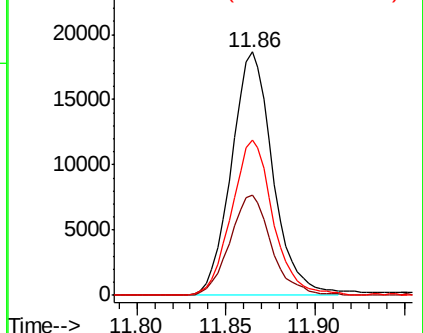
148 63.8 52.1 78.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.894 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

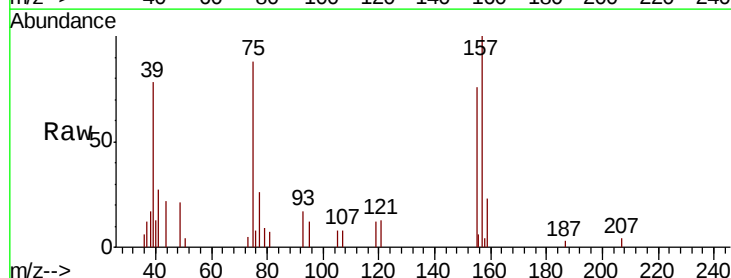
Tgt Ion: 75 Resp: 5310

Ion Ratio Lower Upper

75 100

155 86.4 64.3 96.5

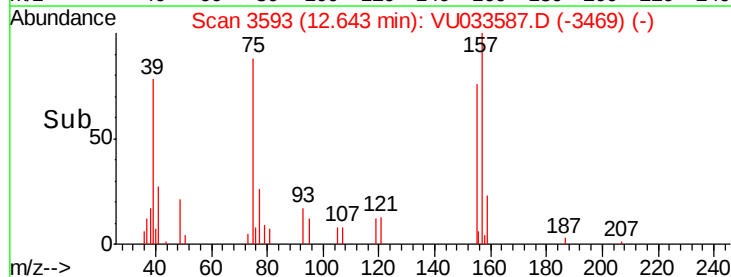
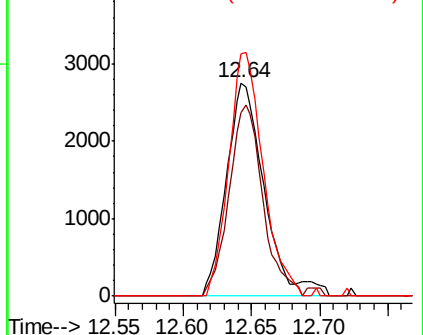
157 114.0 88.0 132.0

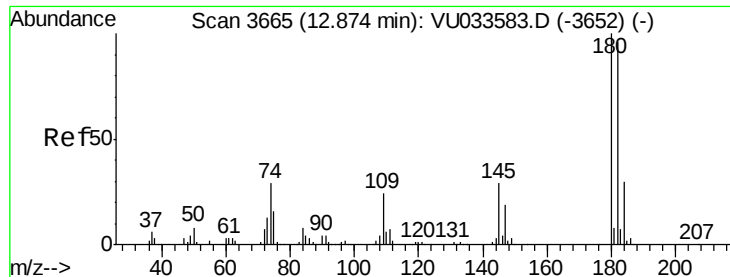


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

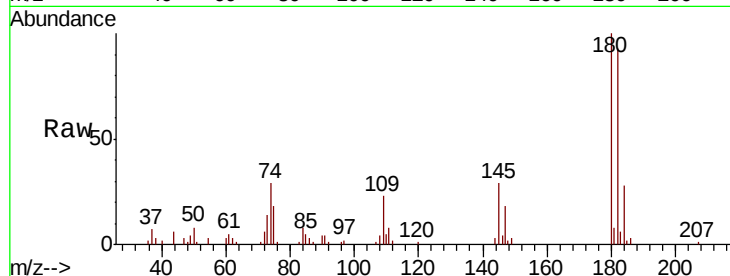




#67
 1,3,5-Trichlorobenzene
 Concen: 6.071 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00534

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	76.8	115.2
184	28.3	23.9	35.9
145	27.6	23.3	34.9



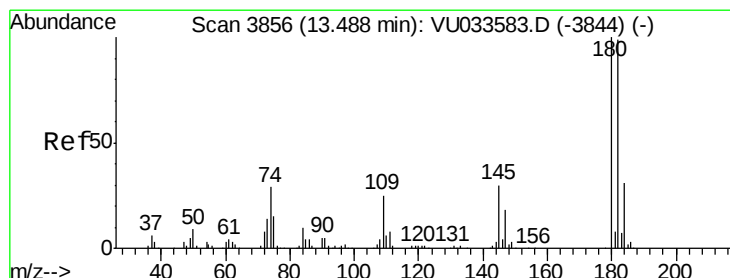
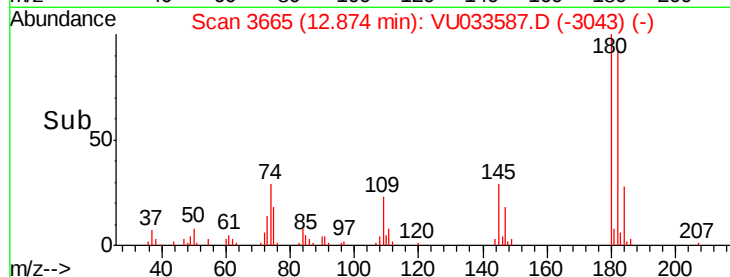
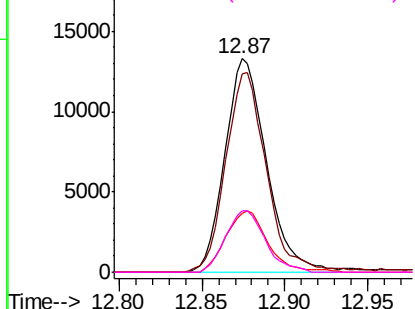
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

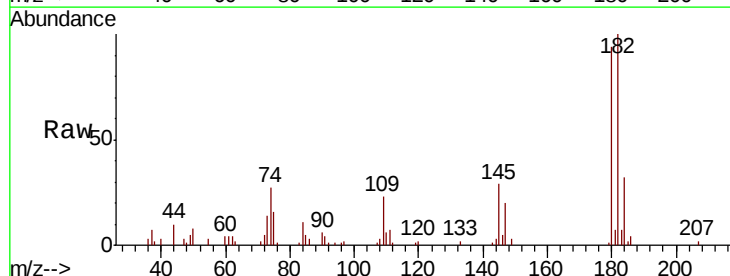
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.423 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033587.D
 Acq: 03 Aug 2019 12:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	77.2	115.8
145	29.6	23.6	35.4

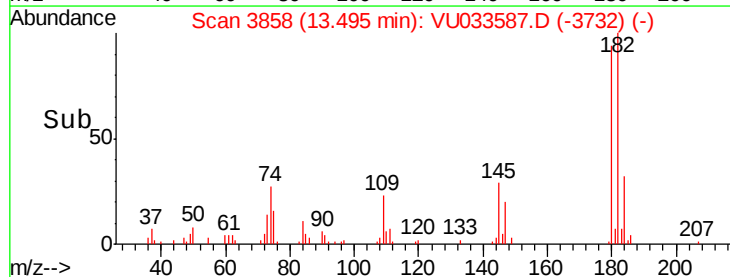
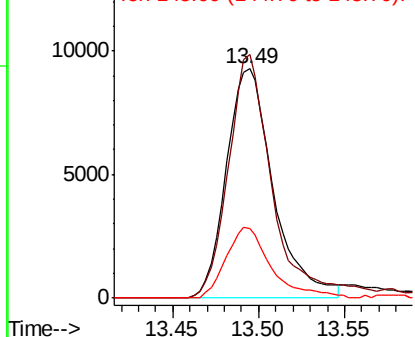


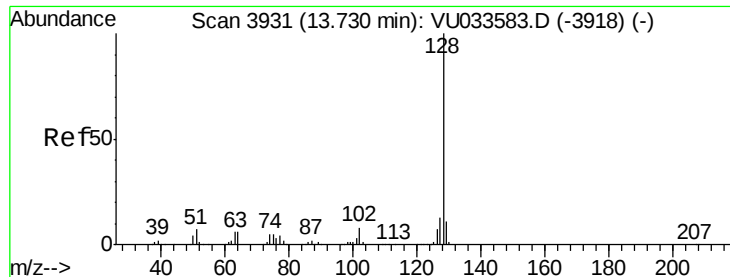
Abundance

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: 4.989 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00534

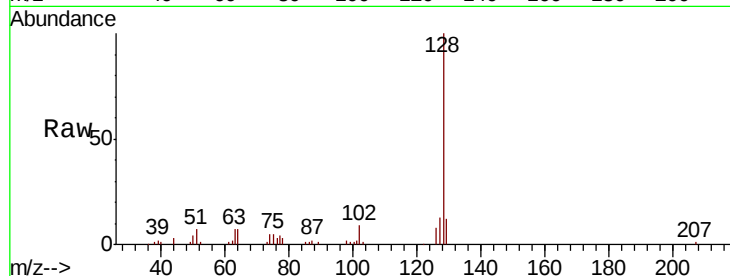
Tgt Ion:128 Resp: 46652

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

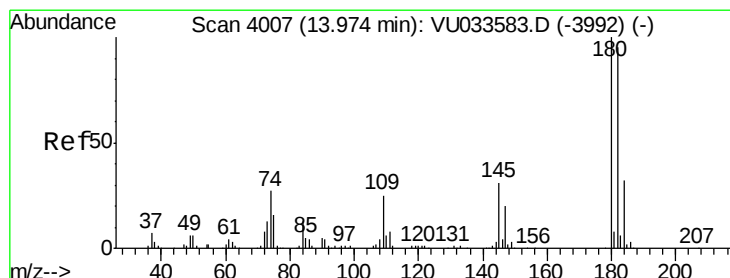
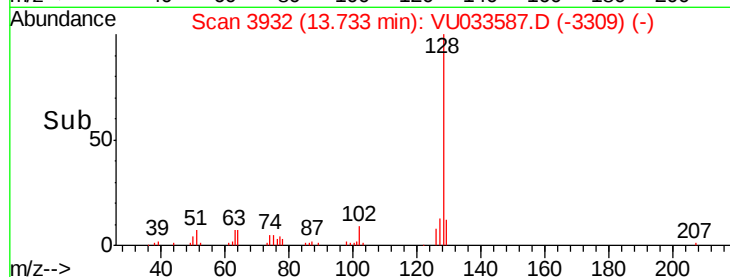
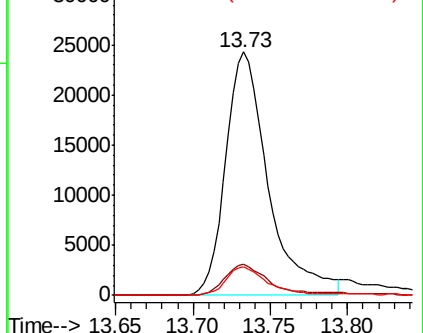
129 11.2 8.9 13.3



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: 5.960 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033587.D

Acq: 03 Aug 2019 12:50

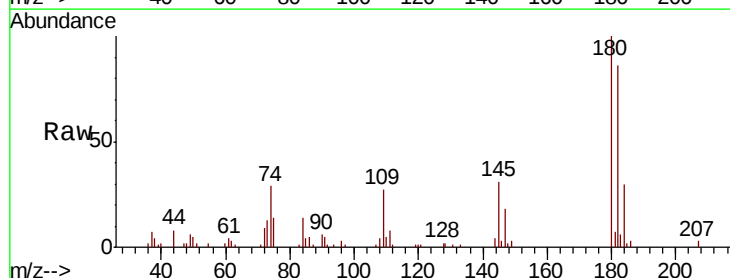
Tgt Ion:180 Resp: 20380

Ion Ratio Lower Upper

180 100

182 90.9 76.5 114.7

145 30.6 24.7 37.1



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

