

Data File : VU031764.D
Acq On : 06 May 2019 08:52
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Quant Time: May 07 08:38:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 04 02:35:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	704104	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	679693	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	312869	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	281885	47.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.68%
7) Chloroethane-d5	1.68	69	229543	50.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.82%
11) 1,1-Dichloroethene-d2	2.27	63	576154	49.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.20%
21) 2-Butanone-d5	4.19	46	660184	123.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.65%
24) Chloroform-d	4.64	84	545135	50.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.02%
26) 1,2-Dichloroethane-d4	5.31	65	361366	51.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.50%
32) Benzene-d6	5.33	84	1019183	48.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.66%
36) 1,2-Dichloropropane-d6	6.32	67	368327	50.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.32%
41) Toluene-d8	7.56	98	852799	46.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.82%
43) trans-1,3-Dichloropropene-	7.85	79	163332	51.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.64%
47) 2-Hexanone-d5	8.31	63	394899	124.25	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	124.25%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	522130	52.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.96%
64) 1,2-Dichlorobenzene-d4	11.85	152	309623	47.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.12%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	360925	46.615	ug/L	98
3) Chloromethane	1.32	50	436995	46.649	ug/L	100
5) Vinyl chloride	1.40	62	407991	46.584	ug/L	98
6) Bromomethane	1.63	94	204498	44.276	ug/L	99
8) Chloroethane	1.70	64	231605	48.377	ug/L	96
9) Trichlorofluoromethane	1.88	101	477893	47.865	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	280290	49.662	ug/L	98
12) 1,1-Dichloroethene	2.28	96	263203	47.912	ug/L	94
13) Acetone	2.34	43	796038	132.360	ug/L	96
14) Carbon disulfide	2.47	76	810267	44.448	ug/L	99
15) Methyl Acetate	2.62	43	497780	54.700	ug/L	99
16) Methylene chloride	2.70	84	324218	50.010	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	274589	47.970	ug/L	94
18) Methyl tert-butyl Ether	2.99	73	1017392	55.787	ug/L	99
19) 1,1-Dichloroethane	3.44	63	629315	52.203	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	318636	51.893	ug/L	95
22) 2-Butanone	4.27	43	875687	131.423	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Sat May 04 02:35:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	145840	48.880	ug/L	95
25) Chloroform	4.67	83	590256	51.203	ug/L	100
27) 1,2-Dichloroethane	5.40	62	483262	51.611	ug/L	97
29) Cyclohexane	4.99	56	571108	53.091	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	481510	50.562	ug/L	97
31) Carbon tetrachloride	5.13	117	405996	49.878	ug/L	98
33) Benzene	5.38	78	1291978	51.701	ug/L	100
34) Trichloroethene	6.18	95	313194	51.703	ug/L	98
35) Methylcyclohexane	6.41	83	492482	54.248	ug/L	99
37) 1,2-Dichloropropane	6.43	63	373099	52.591	ug/L	100
38) Bromodichloromethane	6.75	83	444265	51.648	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	538180	57.410	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1304693	119.533	ug/L	98
42) Toluene	7.63	91	1330333	53.442	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	476247	56.013	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	315826	54.001	ug/L	98
46) Tetrachloroethene	8.22	164	208453	50.477	ug/L	96
48) 2-Hexanone	8.36	43	1121390	127.028	ug/L	98
49) Dibromochloromethane	8.47	129	317457	52.168	ug/L	99
50) 1,2-Dibromoethane	8.58	107	325860	52.755	ug/L	100
51) Chlorobenzene	9.12	112	773713	52.597	ug/L	97
52) Ethylbenzene	9.24	91	1410337	54.618	ug/L	99
53) m,p-Xylene	9.37	106	516000	57.355	ug/L	98
54) o-xylene	9.77	106	495576	55.563	ug/L	98
55) Styrene	9.79	104	872404	57.251	ug/L	100
56) Isopropylbenzene	10.16	105	1317916	56.192	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	560586	54.016	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	465904	55.391	ug/L	100
61) Bromoform	9.95	173	224831	48.478	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	528304	51.012	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	547860	51.079	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	549715	49.943	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	130919	51.249	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	389591	50.225	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	333681	54.338	ug/L	98
69) Naphthalene	13.74	128	1163179	55.555	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	342303	48.961	ug/L	98

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

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Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

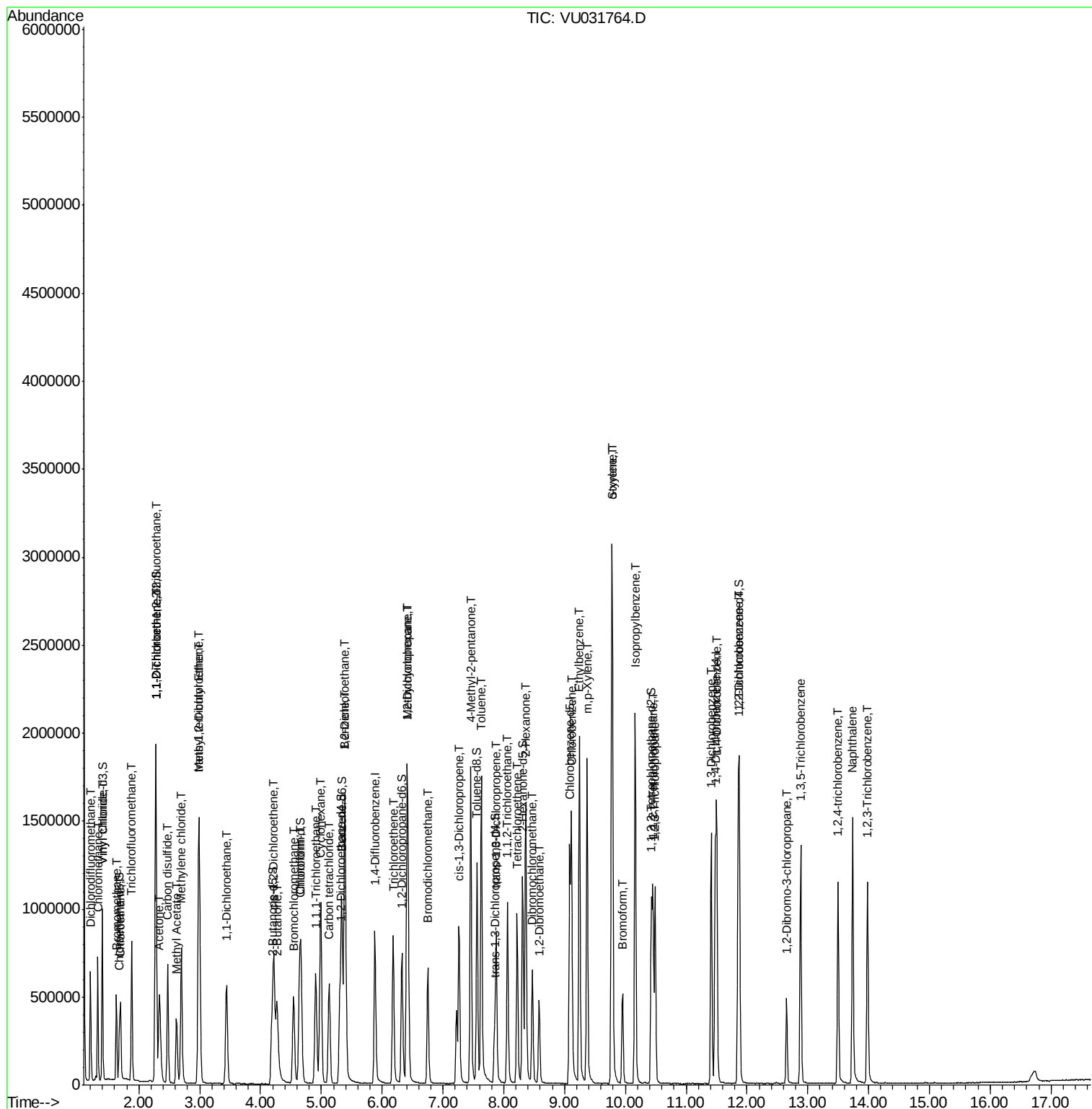
Quant Time: May 07 08:38:26 2019

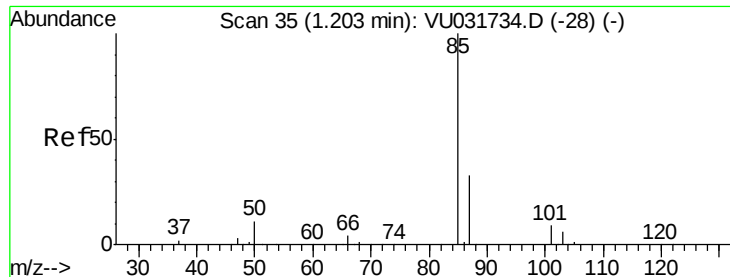
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM042719WMA.M

Quant Title : VOC Analysis

QLast Update : Sat May 04 02:35:16 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 46.615 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

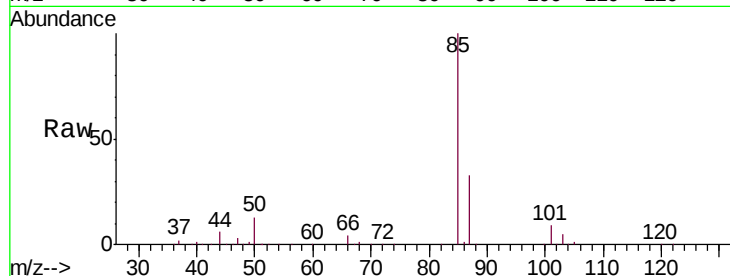
VSTD05035

Tgt Ion: 85 Resp: 360925

Ion Ratio Lower Upper

85 100

87 32.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031734.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031734.D (-28) (-)

1.20

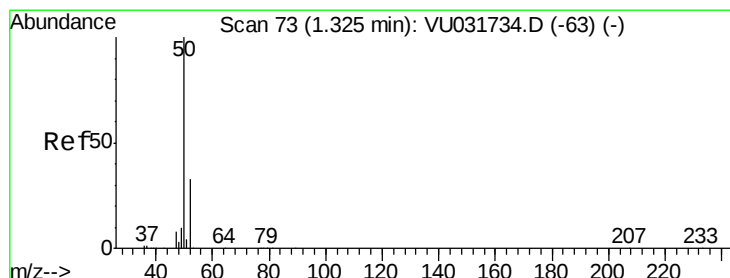
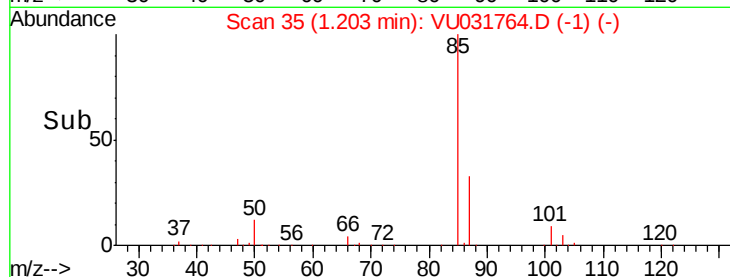
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 46.649 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031764.D

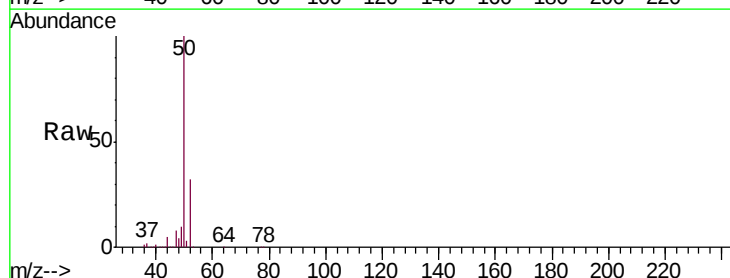
Acq: 06 May 2019 08:52

Tgt Ion: 50 Resp: 436995

Ion Ratio Lower Upper

50 100

52 32.3 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031734.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU031734.D (-63) (-)

1.32

500000

400000

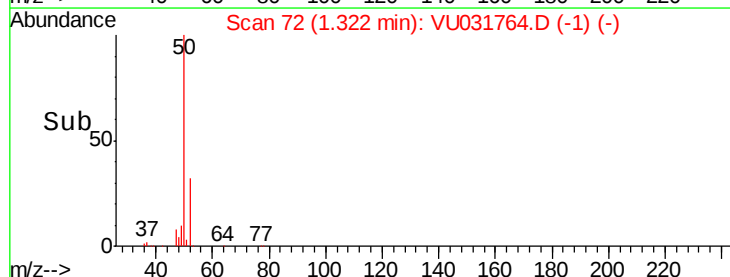
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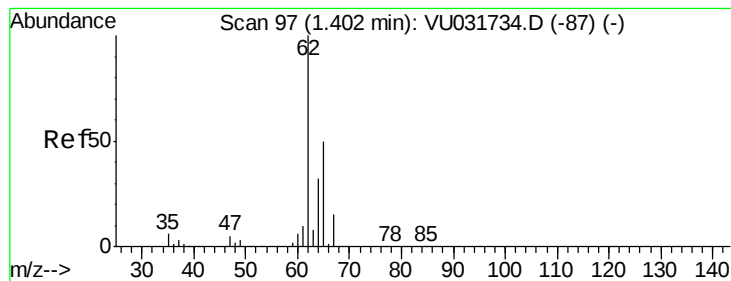
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 46.584 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

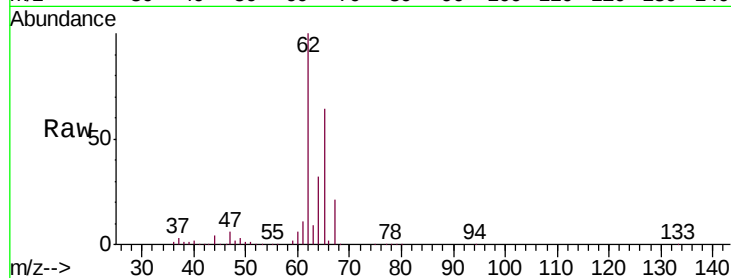
VSTD05035

Tgt Ion: 62 Resp: 407991

Ion Ratio Lower Upper

62 100

64 32.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031734.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU031734.D (-87) (-)

1.40

400000

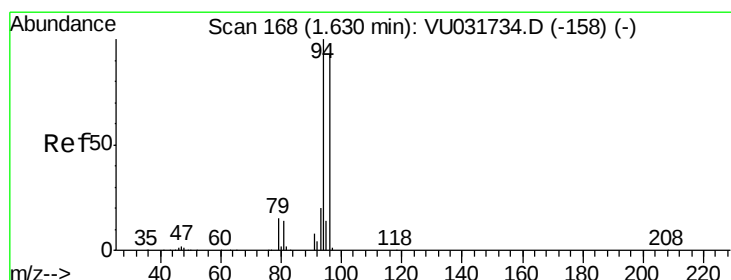
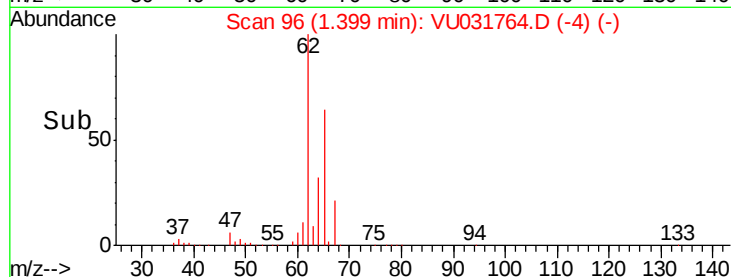
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 44.276 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031764.D

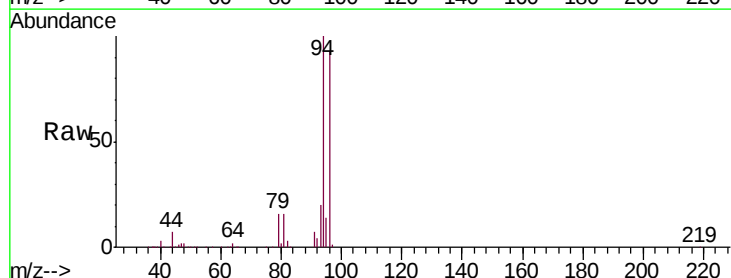
Acq: 06 May 2019 08:52

Tgt Ion: 94 Resp: 204498

Ion Ratio Lower Upper

94 100

96 93.0 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031734.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031734.D (-158) (-)

1.63

200000

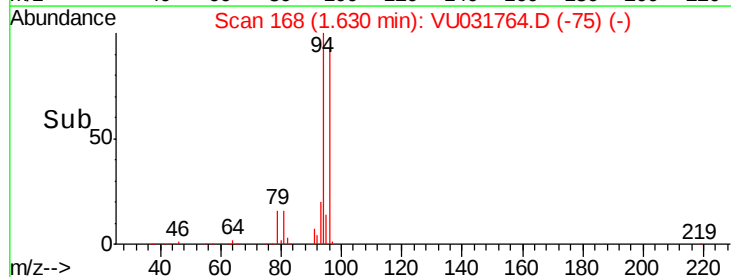
150000

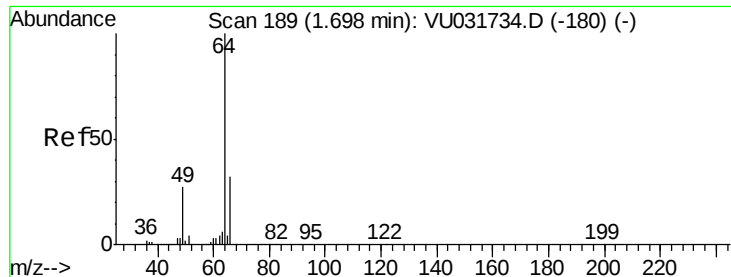
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50000

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Time-->

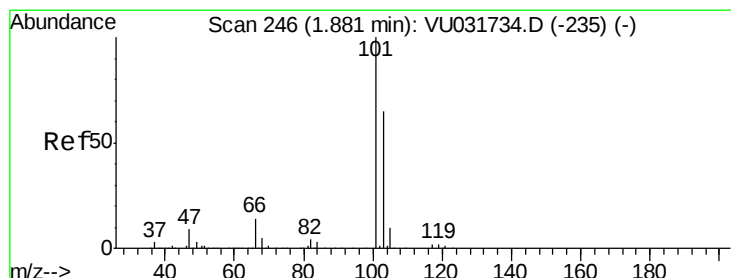
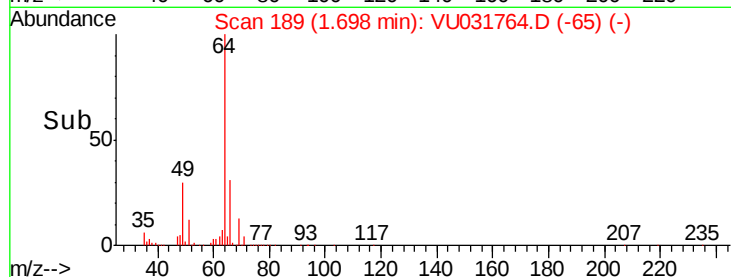
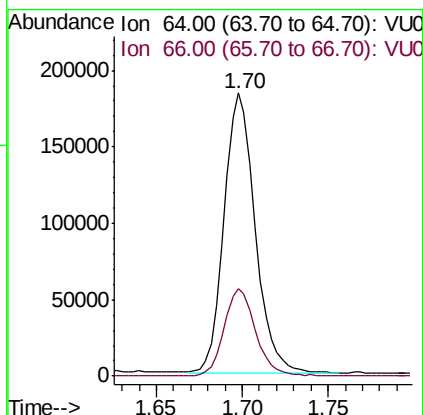
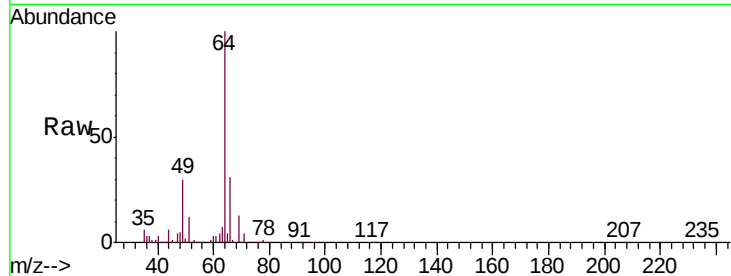




#8
Chloroethane
Concen: 48.377 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

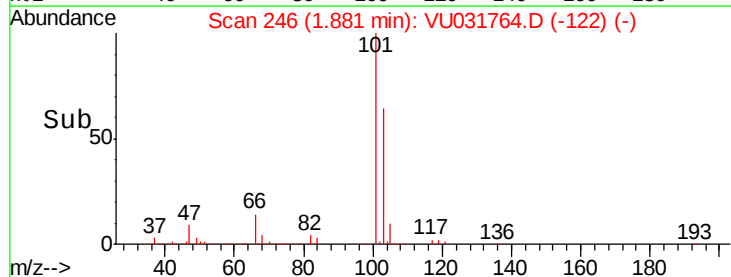
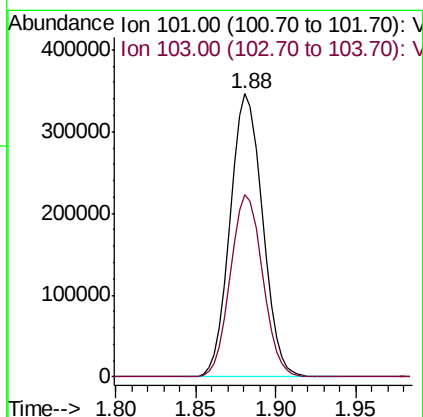
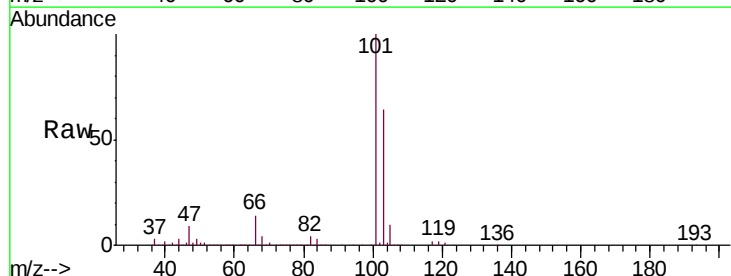
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

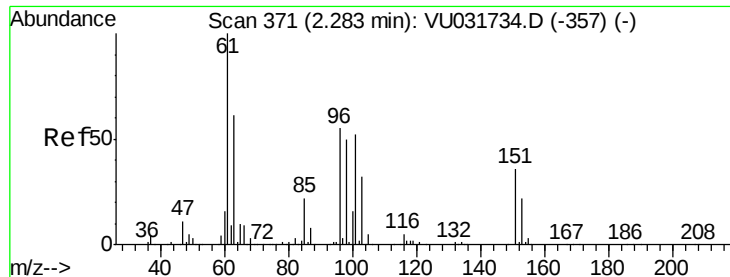
Tgt Ion: 64 Resp: 231605
Ion Ratio Lower Upper
64 100
66 31.1 23.2 43.0



#9
Trichlorofluoromethane
Concen: 47.865 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion: 101 Resp: 477893
Ion Ratio Lower Upper
101 100
103 64.0 50.8 76.2





#10

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

Concen: 49.662 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

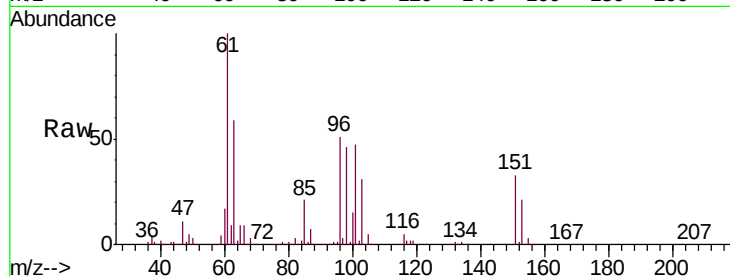
Tgt Ion:101 Resp: 280290

Ion Ratio Lower Upper

101 100

85 44.1 36.1 54.1

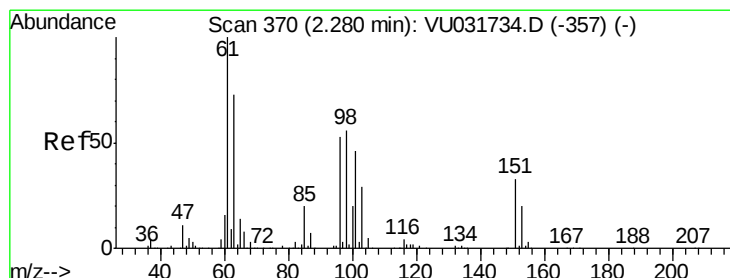
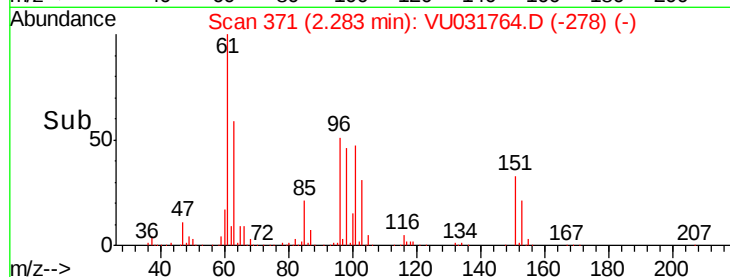
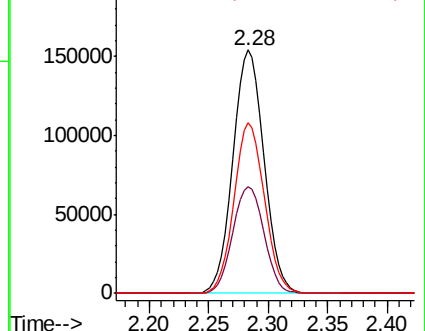
151 68.5 56.1 84.1



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: 47.912 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

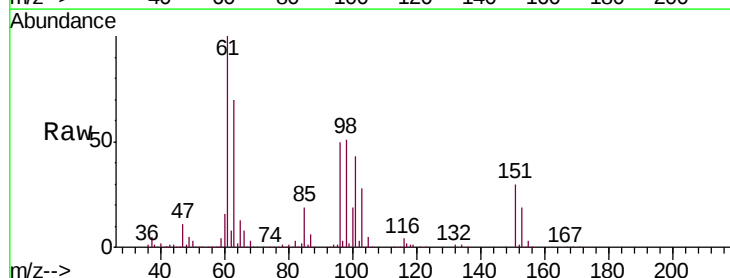
Tgt Ion: 96 Resp: 263203

Ion Ratio Lower Upper

96 100

61 201.1 135.0 250.6

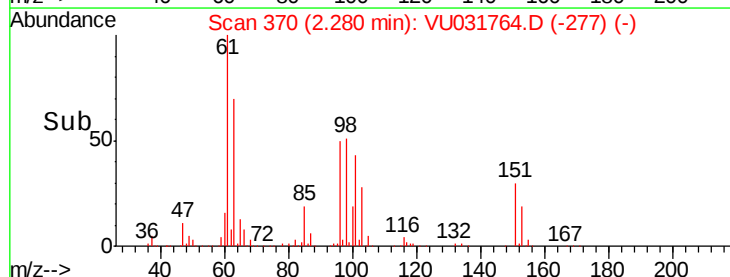
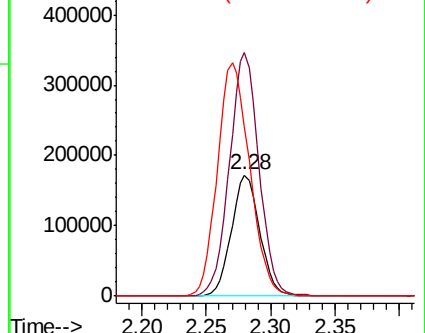
63 140.0 103.5 192.3

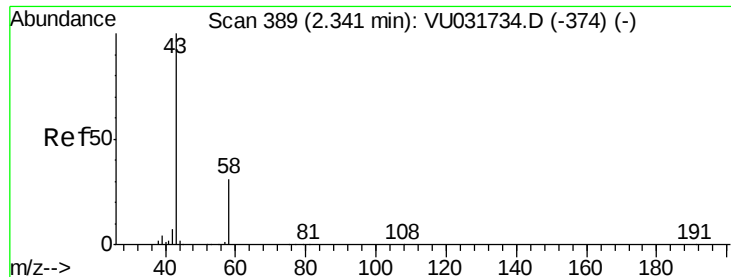


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 132.360 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

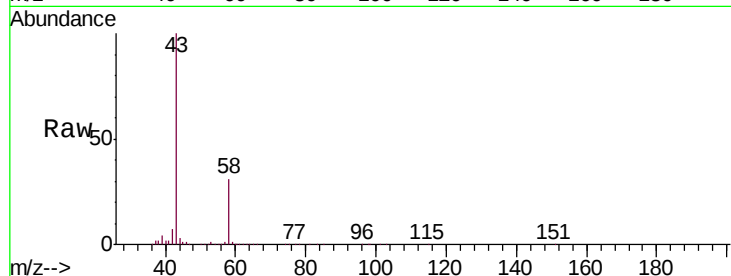
VSTD05035

Tgt Ion: 43 Resp: 796038

Ion Ratio Lower Upper

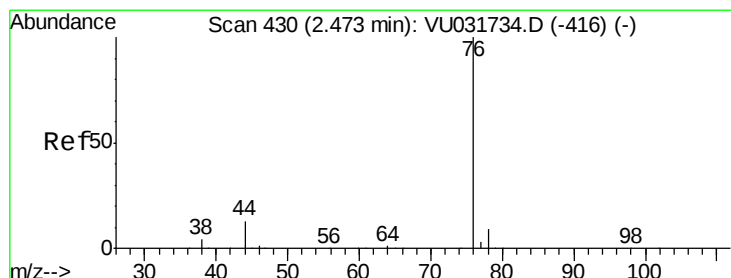
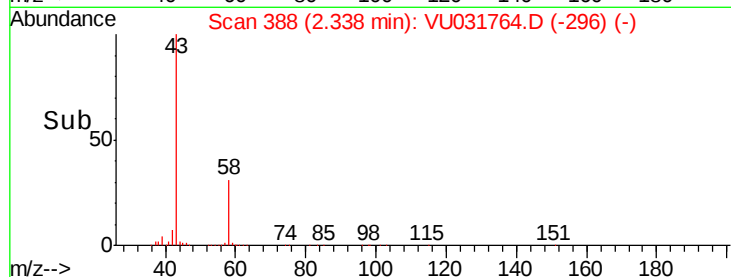
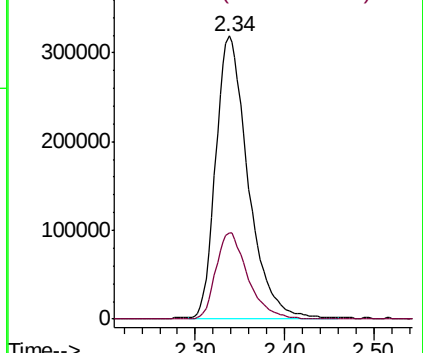
43 100

58 29.9 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031734.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031734.D (-374) (-)



#14

Carbon disulfide

Concen: 44.448 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031764.D

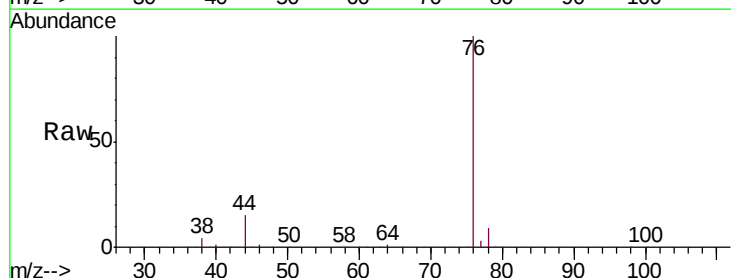
Acq: 06 May 2019 08:52

Tgt Ion: 76 Resp: 810267

Ion Ratio Lower Upper

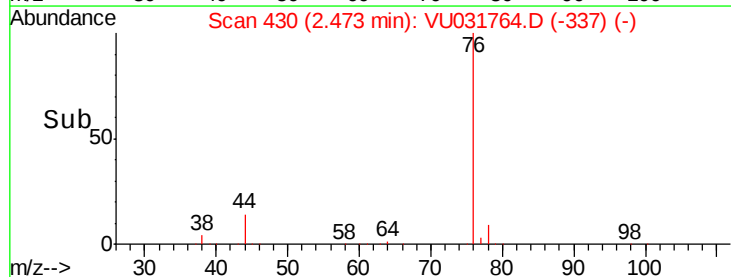
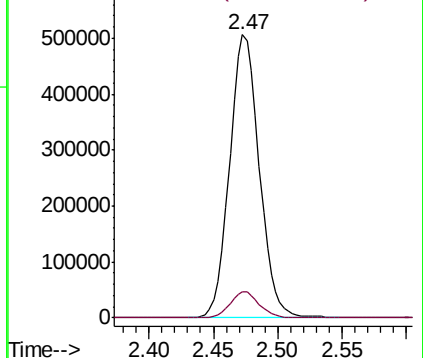
76 100

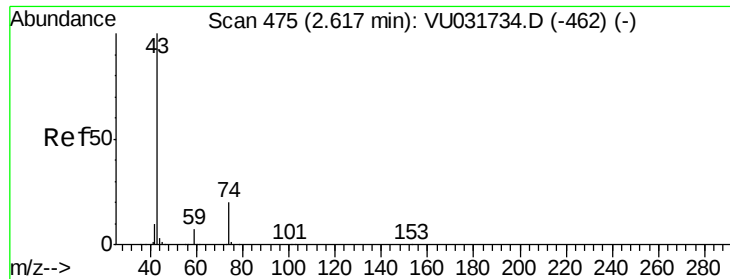
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031734.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031734.D (-416) (-)

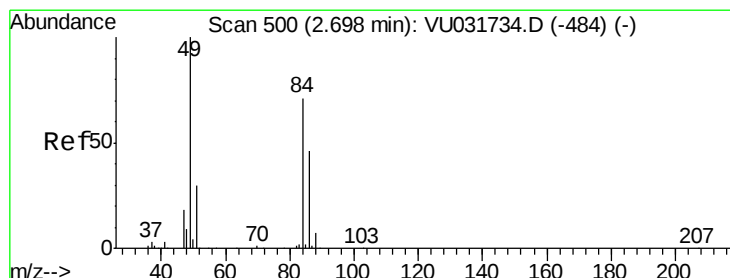
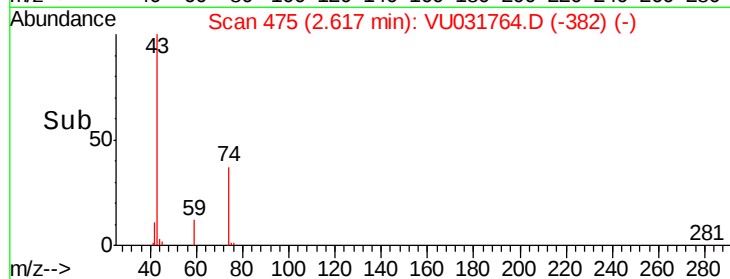
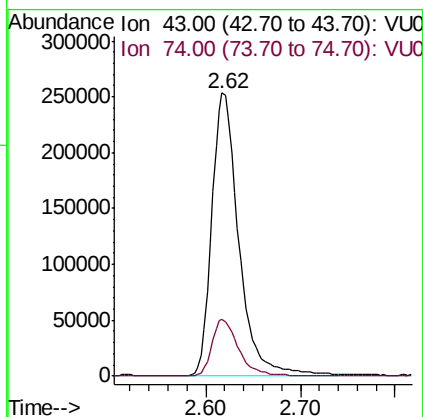
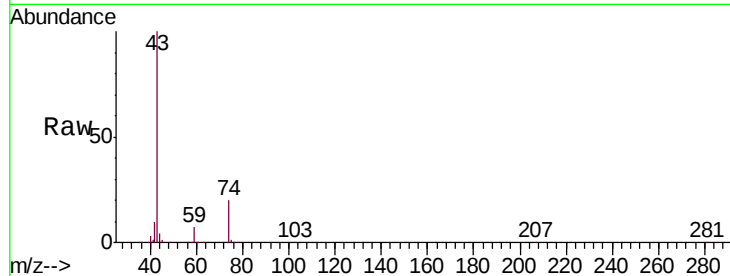




#15
Methyl Acetate
Concen: 54.700 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

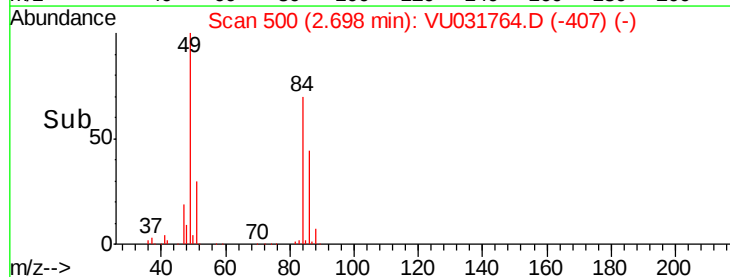
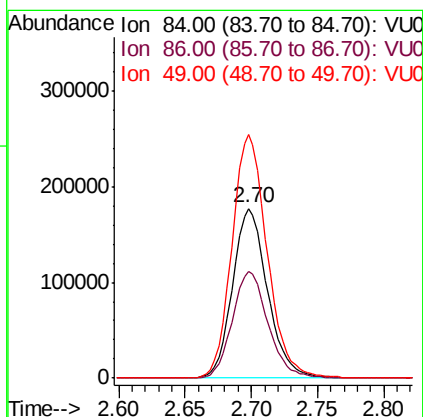
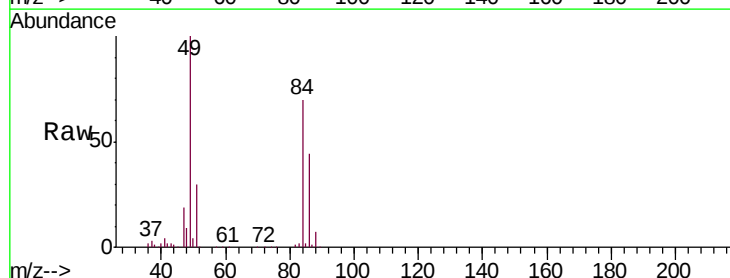
Instrument :
MSVOA_U
ClientSampled :
VSTD05035

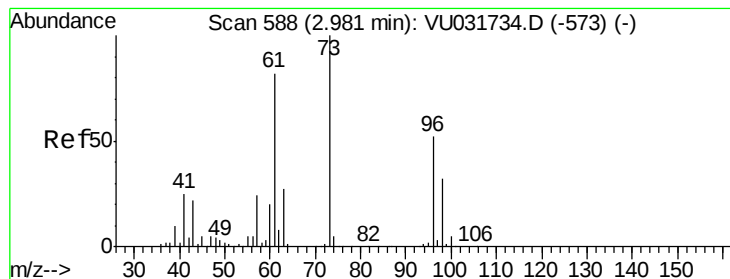
Tgt Ion: 43 Resp: 497780
Ion Ratio Lower Upper
43 100
74 19.9 15.7 23.5



#16
Methylene chloride
Concen: 50.010 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion: 84 Resp: 324218
Ion Ratio Lower Upper
84 100
86 63.0 44.7 83.1
49 143.4 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 47.970 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

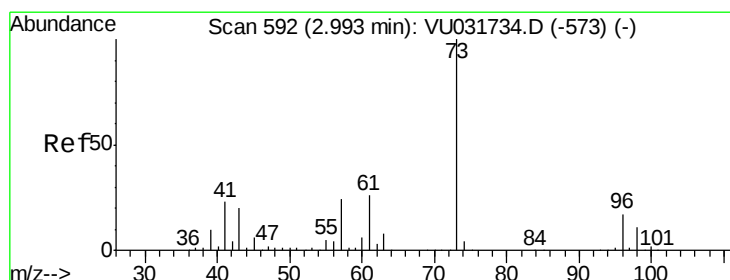
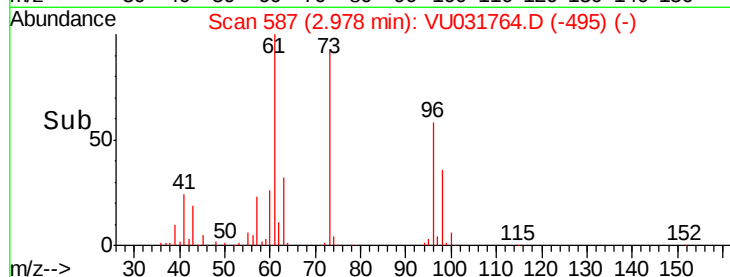
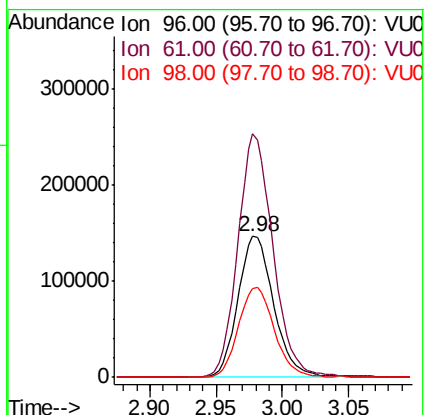
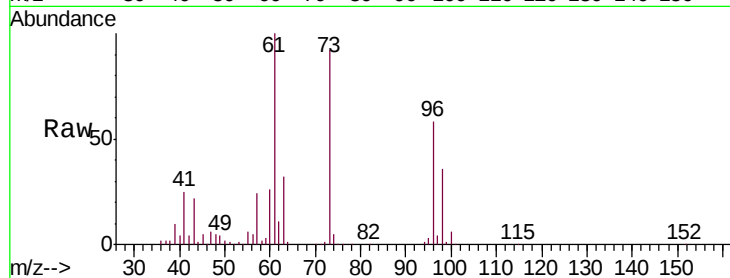
Tgt Ion: 96 Resp: 274589

Ion Ratio Lower Upper

96 100

61 172.5 114.5 212.7

98 62.6 45.4 84.2



#18

Methyl tert-butyl Ether

Concen: 55.787 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

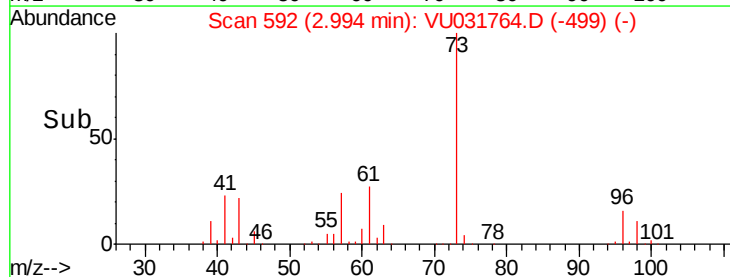
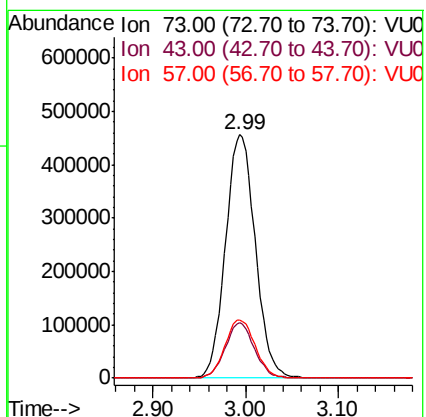
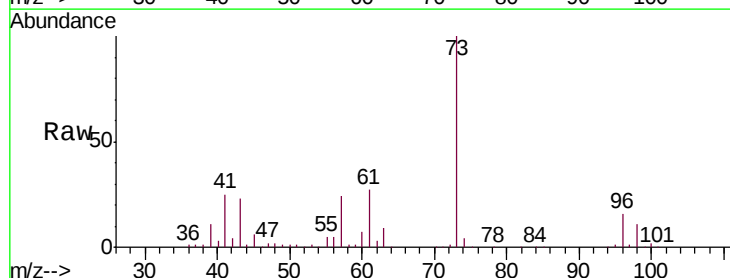
Tgt Ion: 73 Resp: 1017392

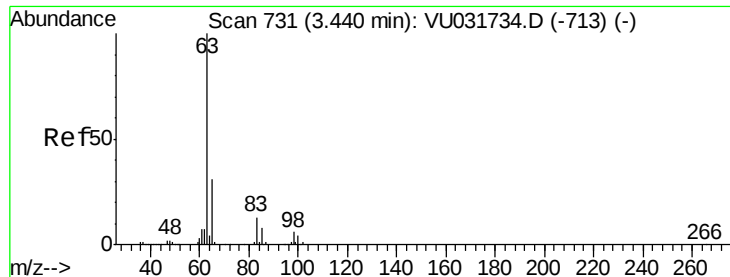
Ion Ratio Lower Upper

73 100

43 22.0 17.0 25.4

57 24.3 19.5 29.3

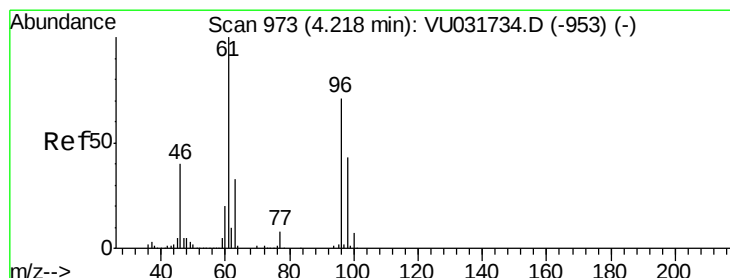
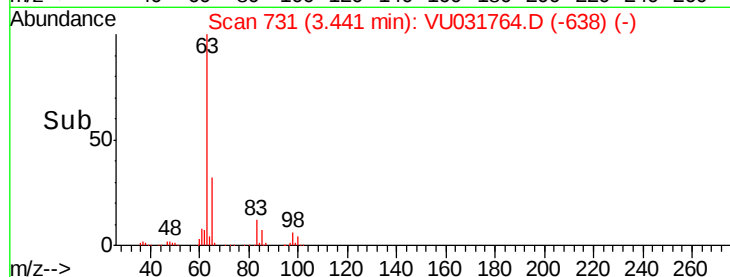
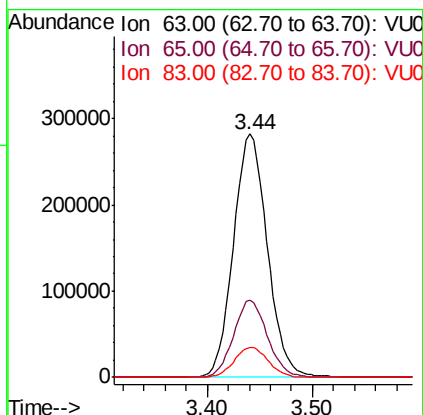
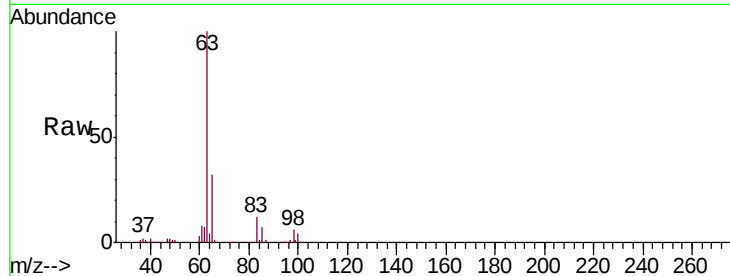




#19
 1,1-Dichloroethane
 Concen: 52.203 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

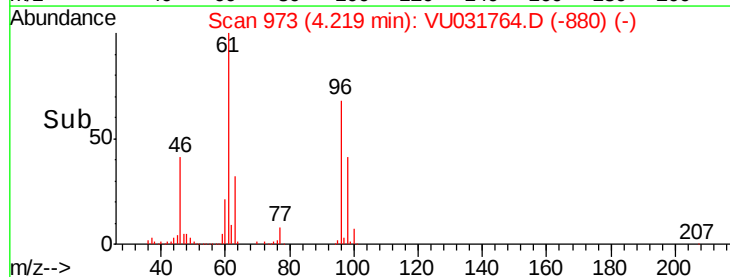
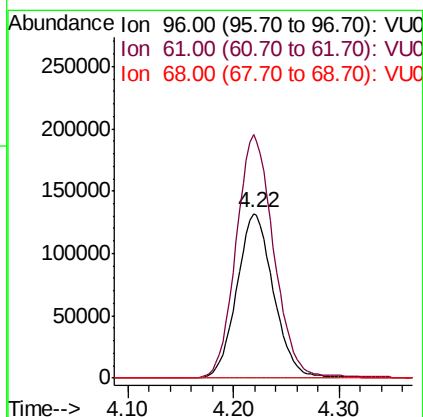
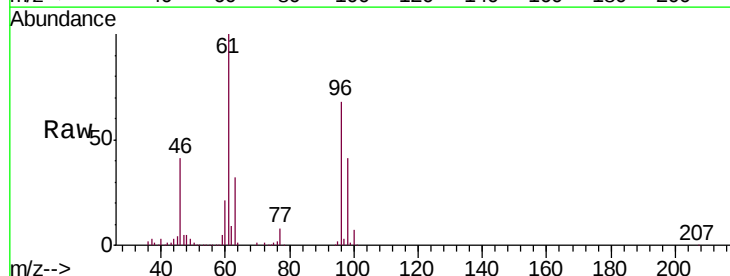
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

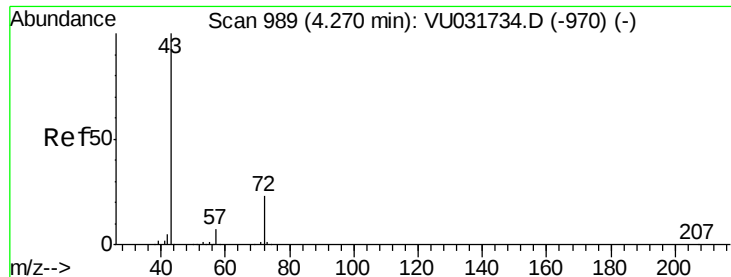
Tgt Ion: 63 Resp: 629315
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 40.8
 83 12.3 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 51.893 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

Tgt Ion: 96 Resp: 318636
 Ion Ratio Lower Upper
 96 100
 61 148.0 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 131.423 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

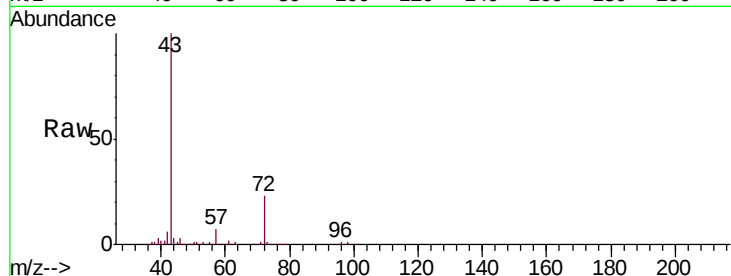
VSTD05035

Tgt Ion: 43 Resp: 875687

Ion Ratio Lower Upper

43 100

72 23.5 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031734.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU031734.D (-970) (-)

4.27

300000

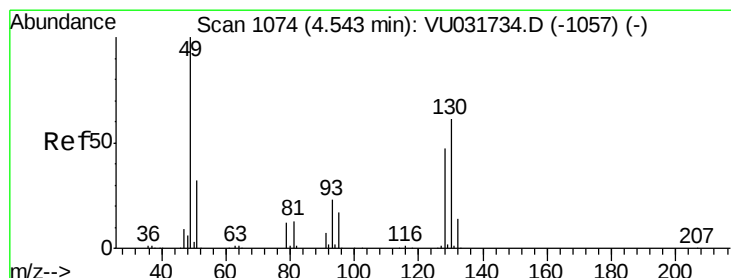
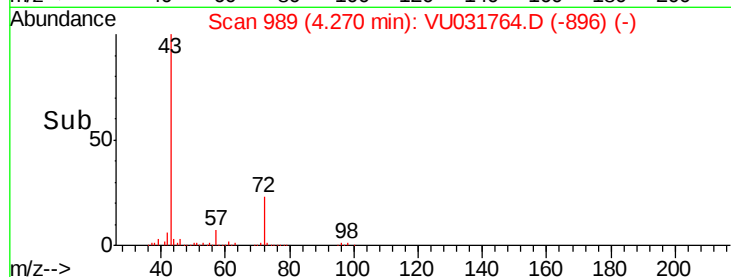
200000

100000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 48.880 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Tgt Ion: 128 Resp: 145840

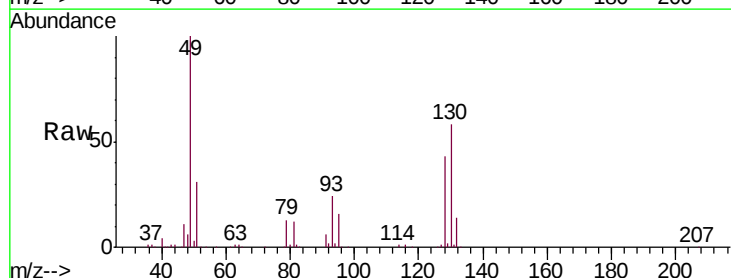
Ion Ratio Lower Upper

128 100

49 229.9 152.6 283.4

130 134.1 93.7 173.9

51 70.6 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031734.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU031734.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU031734.D (-1057) (-)

Ion 51.00 (50.70 to 51.70): VU031734.D (-1057) (-)

200000

150000

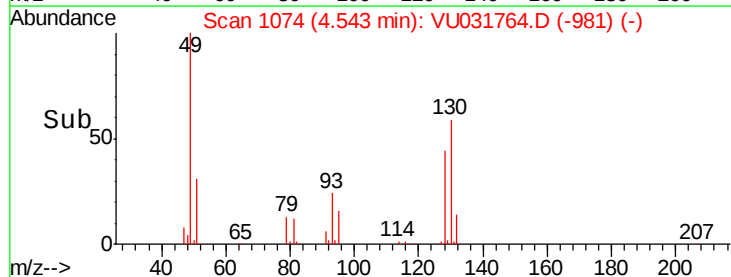
100000

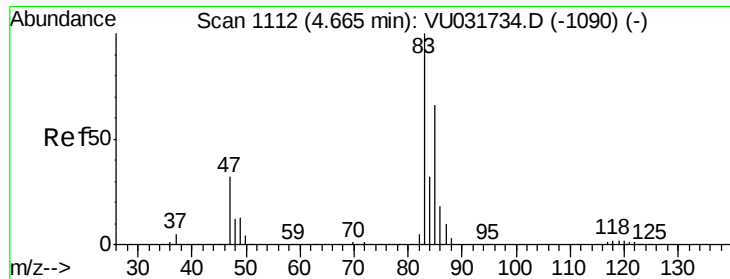
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->

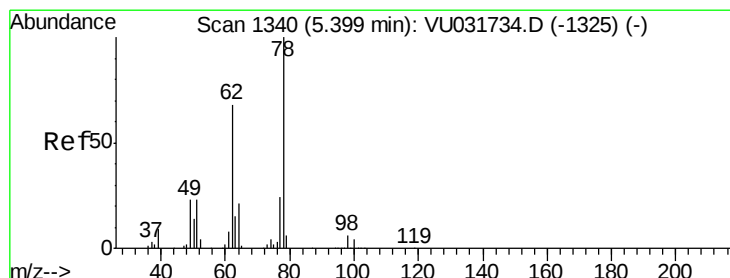
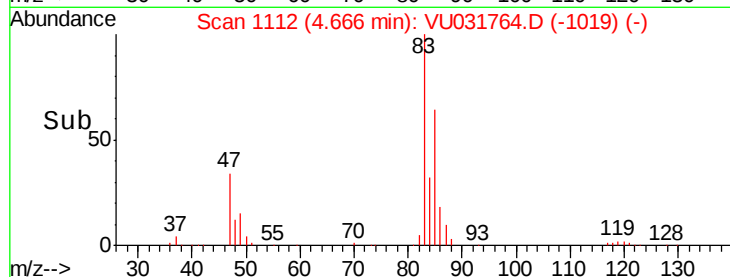
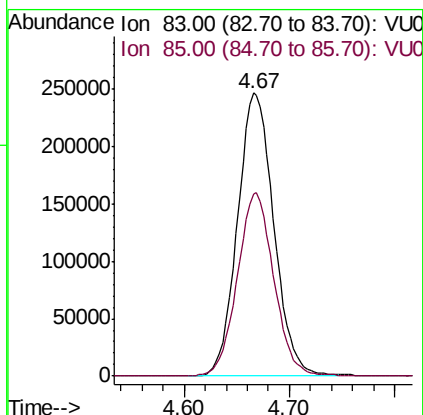
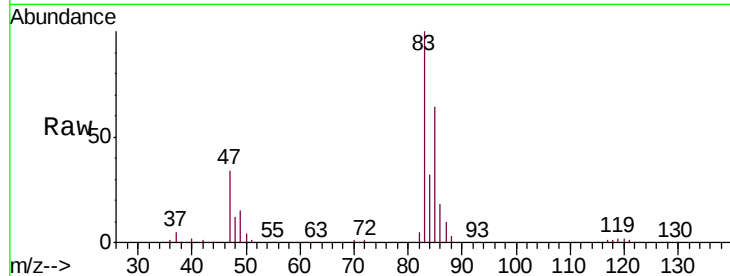




#25
Chloroform
Concen: 51.203 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

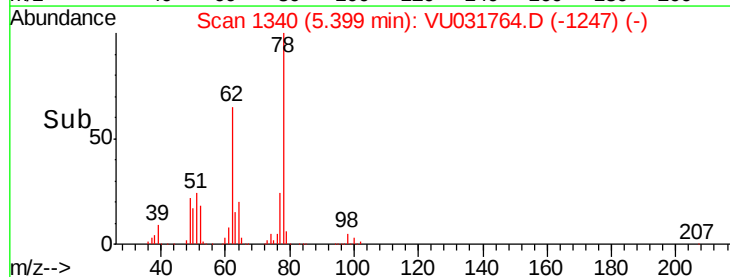
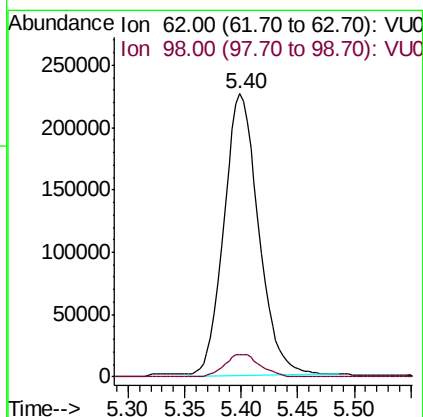
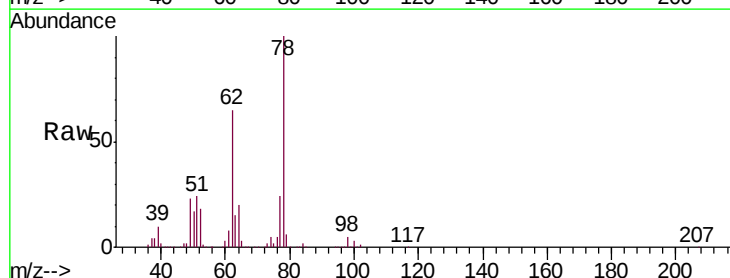
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

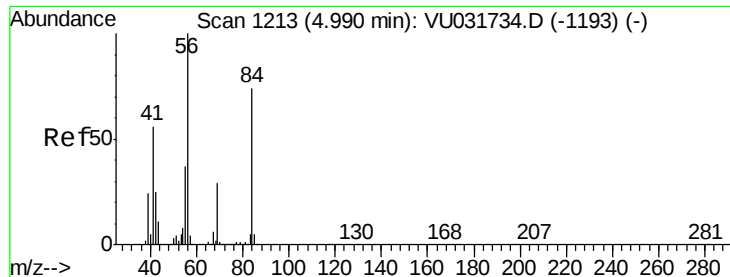
Tgt Ion: 83 Resp: 590256
Ion Ratio Lower Upper
83 100
85 64.5 44.9 83.3



#27
1,2-Dichloroethane
Concen: 51.611 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion: 62 Resp: 483262
Ion Ratio Lower Upper
62 100
98 8.0 7.1 10.7

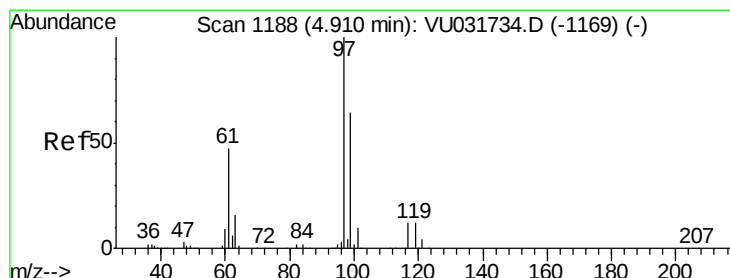
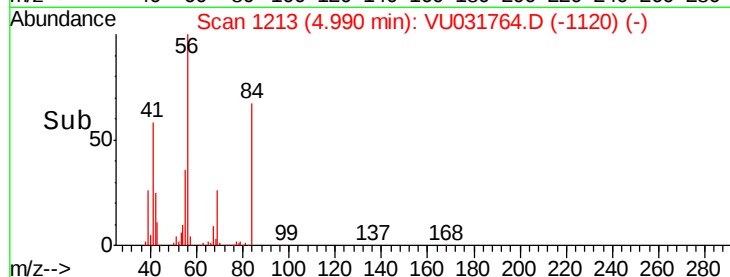
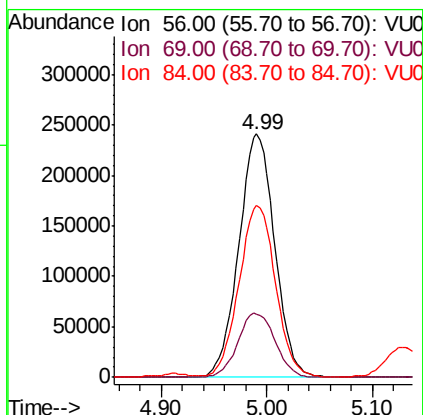
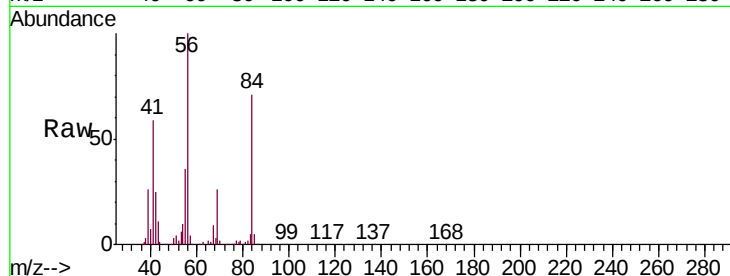




#29
Cyclohexane
Concen: 53.091 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

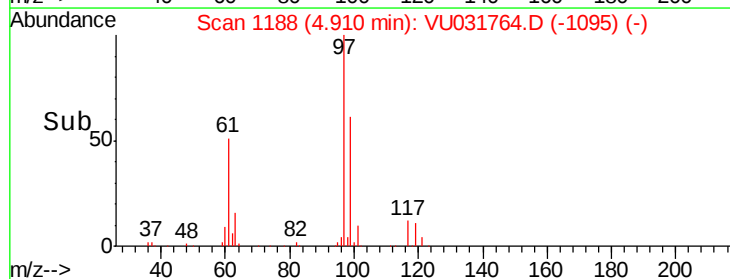
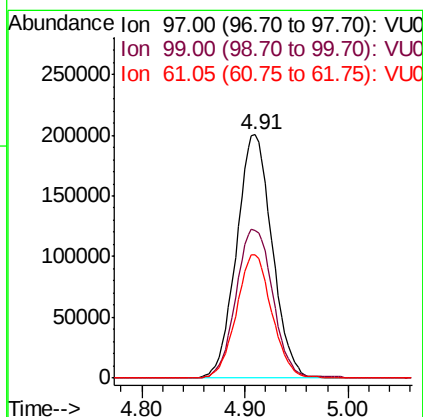
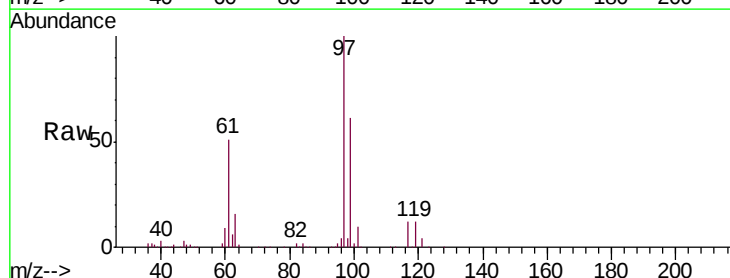
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

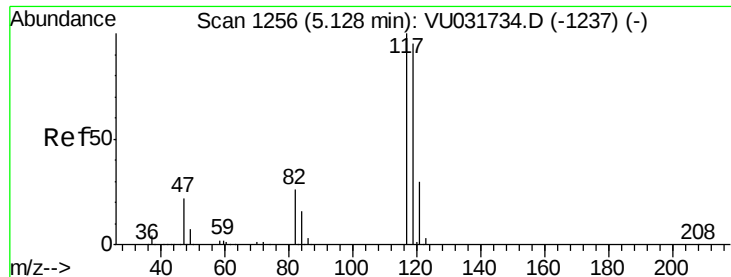
Tgt Ion: 56 Resp: 571108
Ion Ratio Lower Upper
56 100
69 27.5 22.3 33.5
84 71.7 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 50.562 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion: 97 Resp: 481510
Ion Ratio Lower Upper
97 100
99 63.0 52.0 78.0
61 50.3 38.7 58.1





#31

Carbon tetrachloride

Concen: 49.878 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

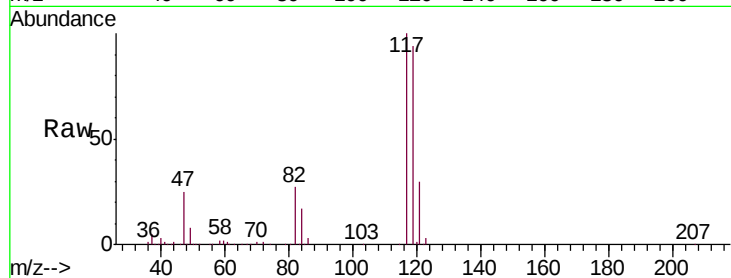
VSTD05035

Tgt Ion:117 Resp: 405996

Ion Ratio Lower Upper

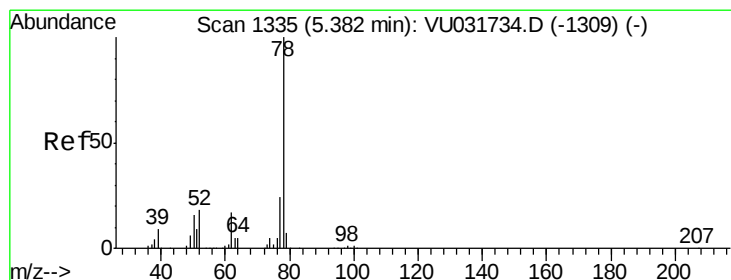
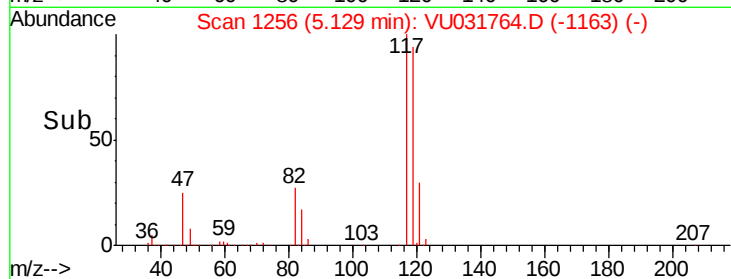
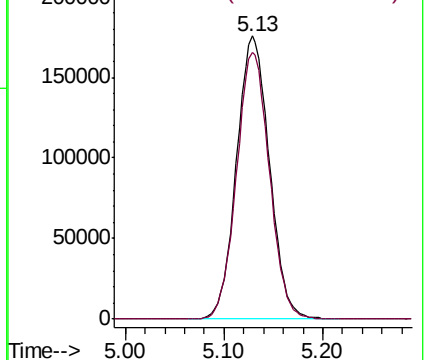
117 100

119 94.2 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.701 ug/L

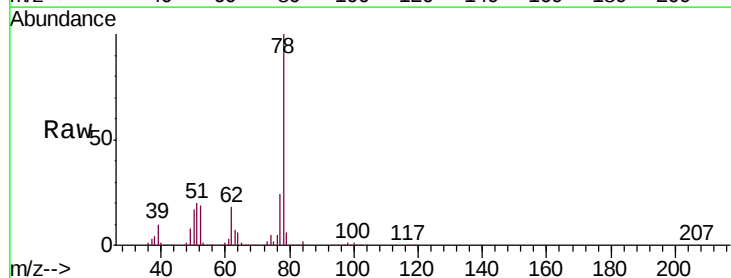
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

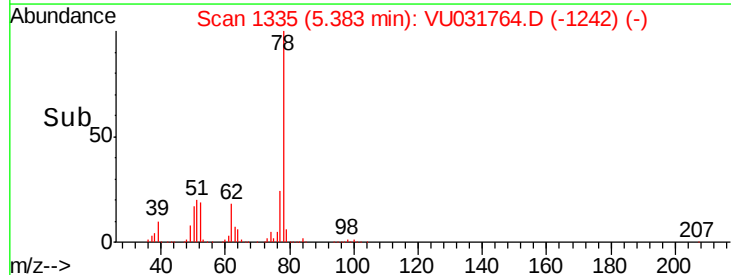
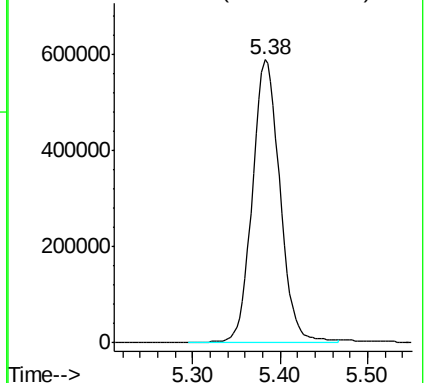
Lab File: VU031764.D

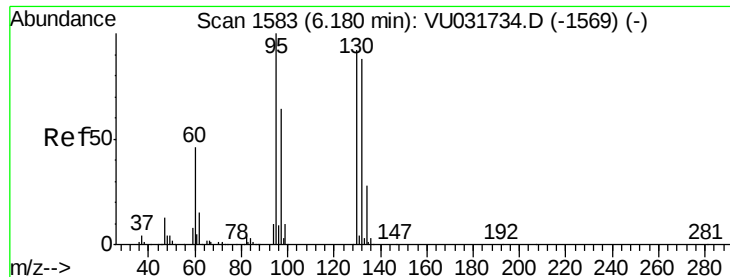
Acq: 06 May 2019 08:52

Tgt Ion: 78 Resp: 1291978



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.703 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion: 95 Resp: 313194

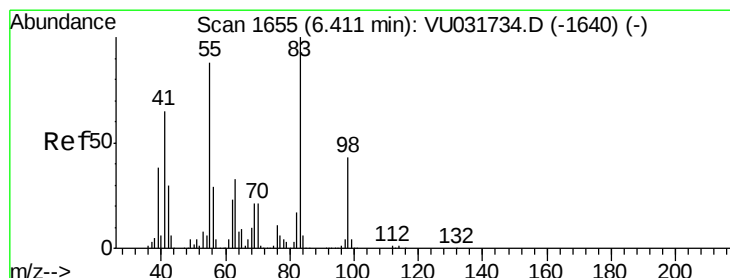
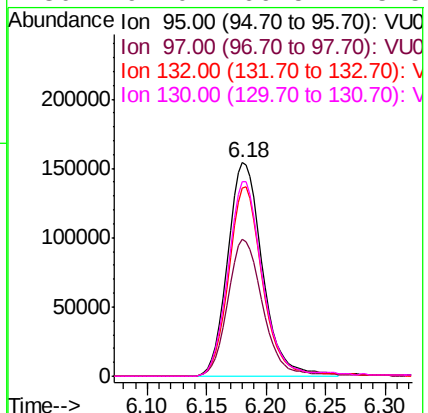
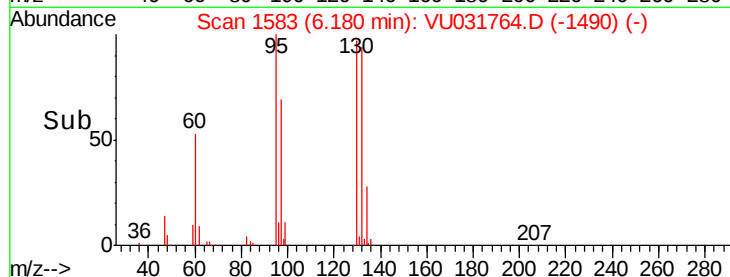
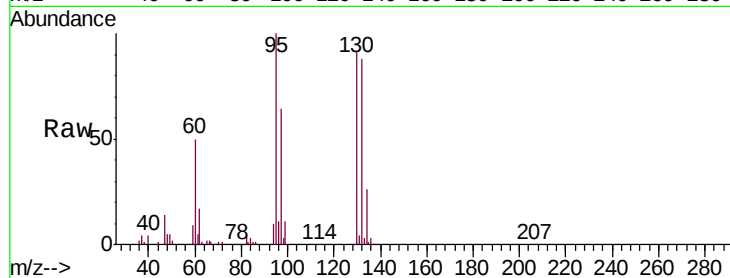
Ion Ratio Lower Upper

95 100

97 64.3 44.8 83.2

132 88.0 63.1 117.1

130 91.0 66.5 123.5



#35

Methylcyclohexane

Concen: 54.248 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

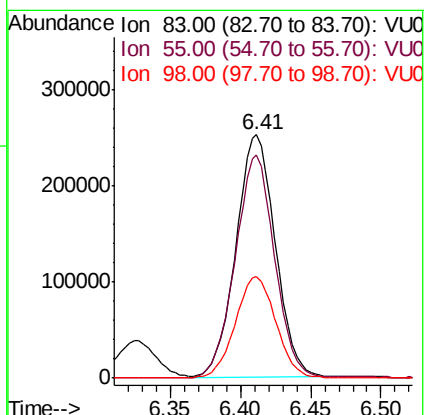
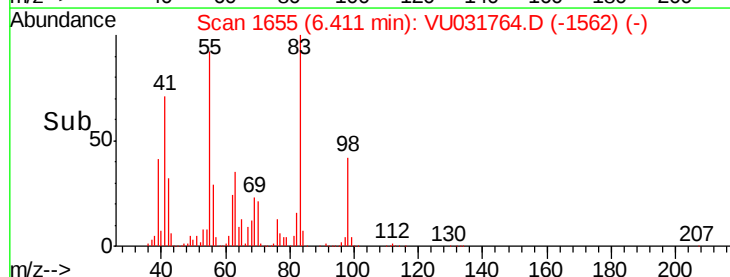
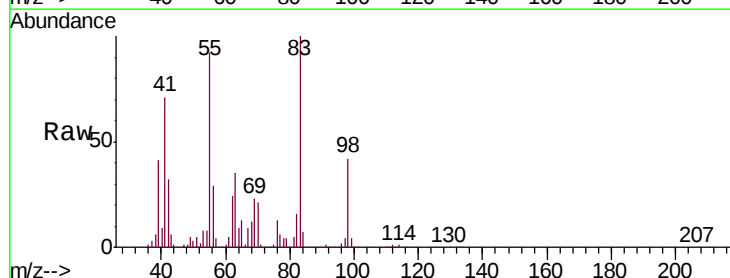
Tgt Ion: 83 Resp: 492482

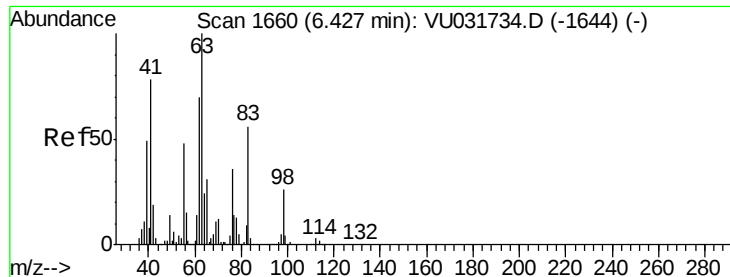
Ion Ratio Lower Upper

83 100

55 92.5 73.0 109.4

98 43.2 35.3 52.9





#37

1,2-Dichloropropane

Concen: 52.591 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

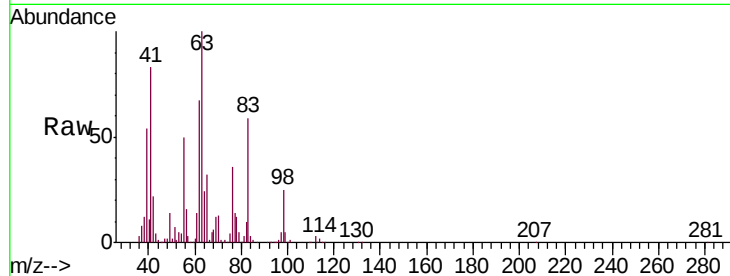
VSTD05035

Tgt Ion: 63 Resp: 373099

Ion Ratio Lower Upper

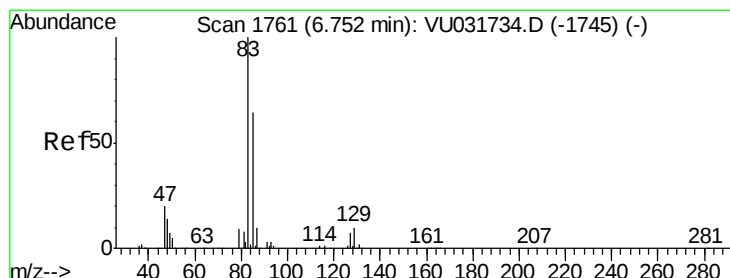
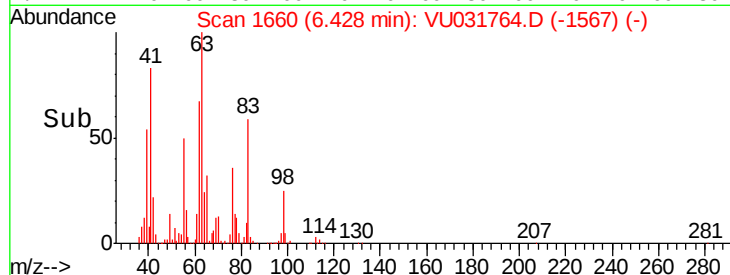
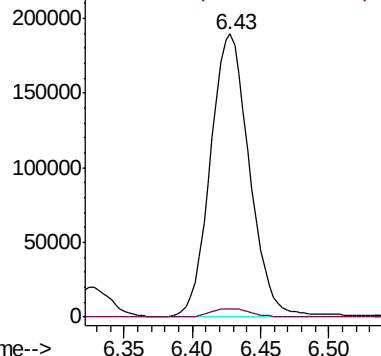
63 100

112 3.3 2.7 4.1



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 51.648 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

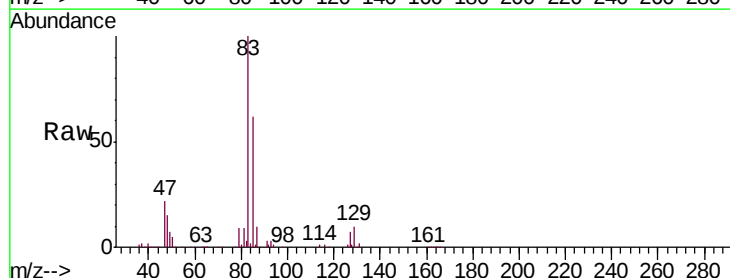
Tgt Ion: 83 Resp: 444265

Ion Ratio Lower Upper

83 100

85 61.8 43.7 81.1

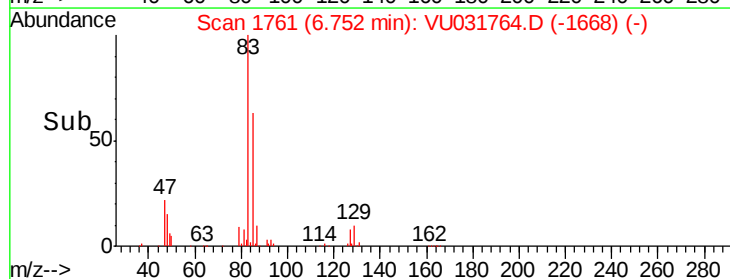
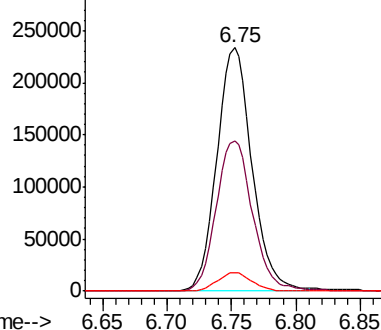
127 7.5 6.7 10.1

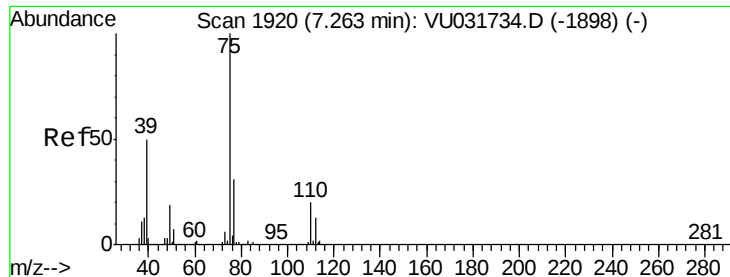


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

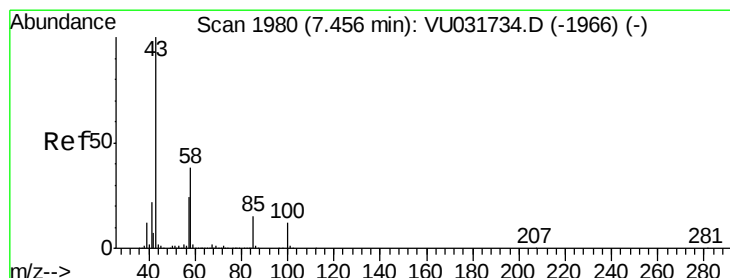
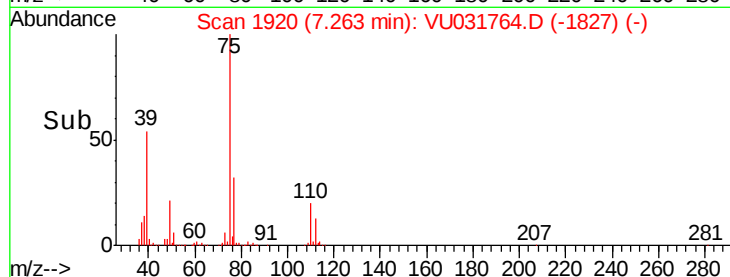
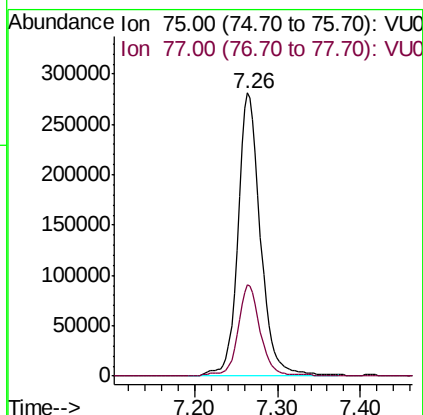
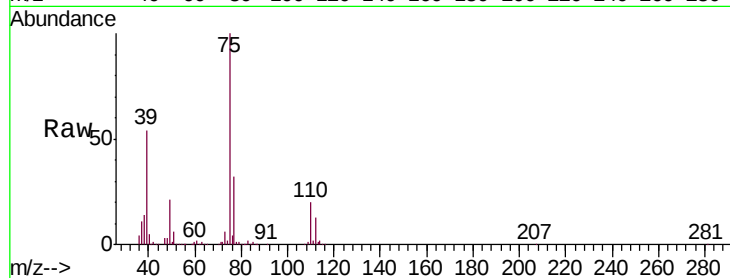




#39
 cis-1,3-Dichloropropene
 Concen: 57.410 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

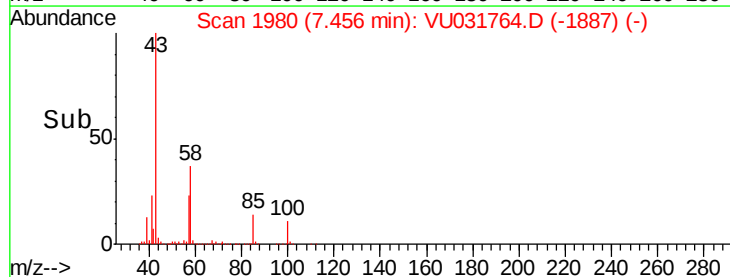
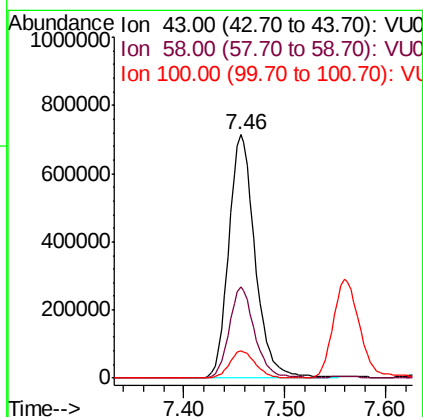
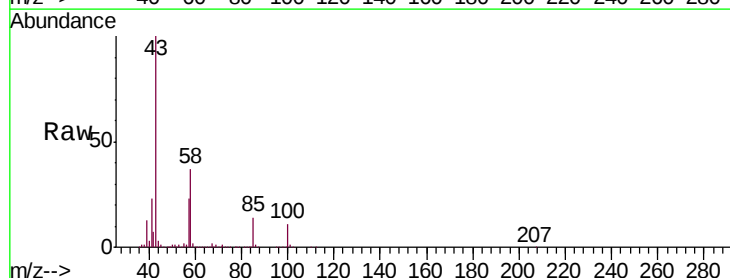
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

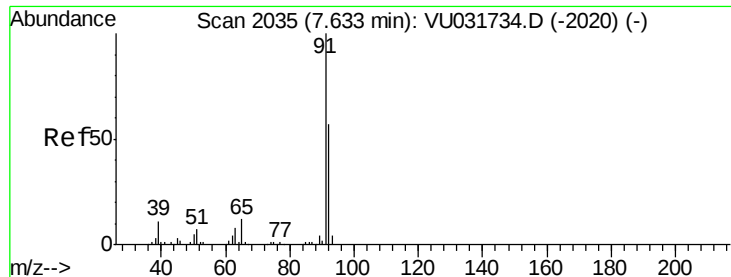
Tgt Ion: 75 Resp: 538180
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 119.533 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

Tgt Ion: 43 Resp: 1304693
 Ion Ratio Lower Upper
 43 100
 58 36.2 30.1 45.1
 100 10.9 9.6 14.4





#42

Toluene

Concen: 53.442 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

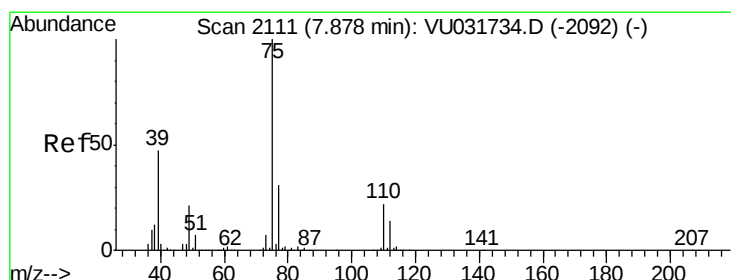
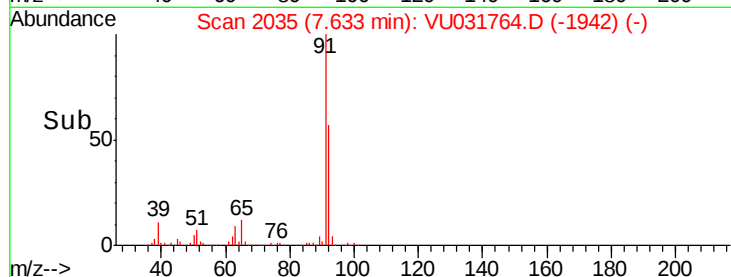
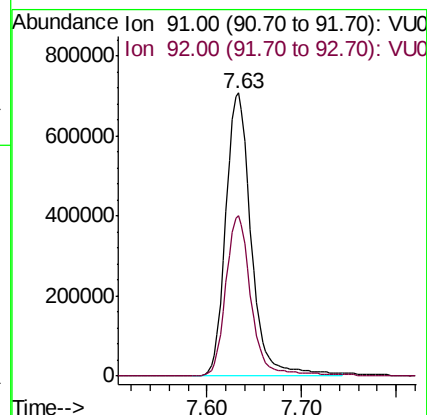
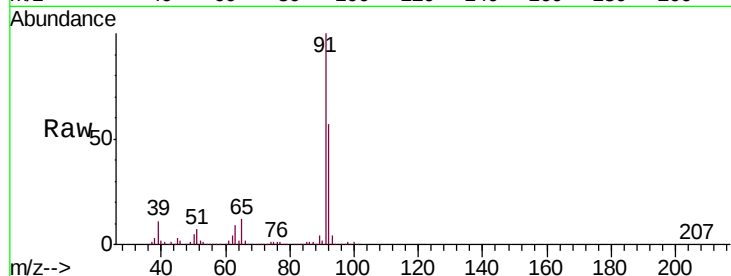
VSTD05035

Tgt Ion: 91 Resp: 1330333

Ion Ratio Lower Upper

91 100

92 56.7 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 56.013 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031764.D

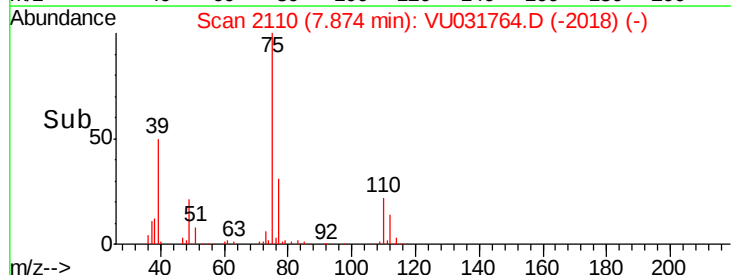
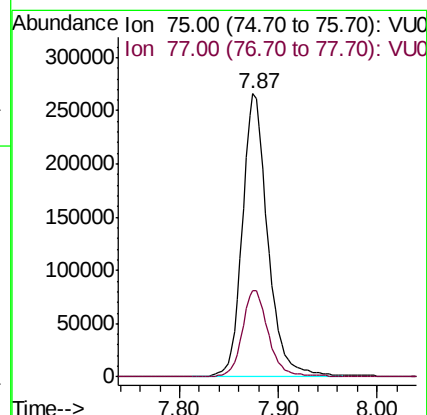
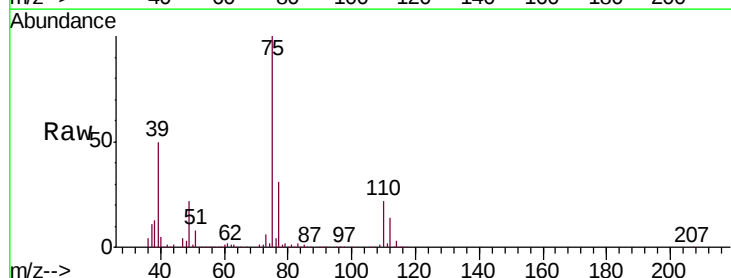
Acq: 06 May 2019 08:52

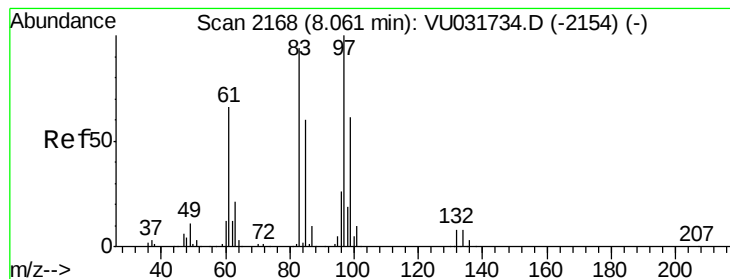
Tgt Ion: 75 Resp: 476247

Ion Ratio Lower Upper

75 100

77 30.6 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 54.001 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion: 97 Resp: 315826

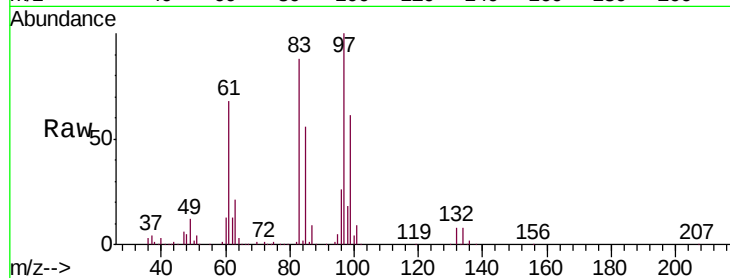
Ion Ratio Lower Upper

97 100

99 61.2 43.0 80.0

83 88.1 63.6 118.2

85 55.7 40.5 75.3

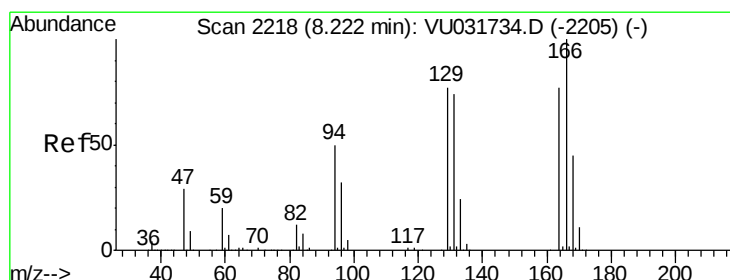
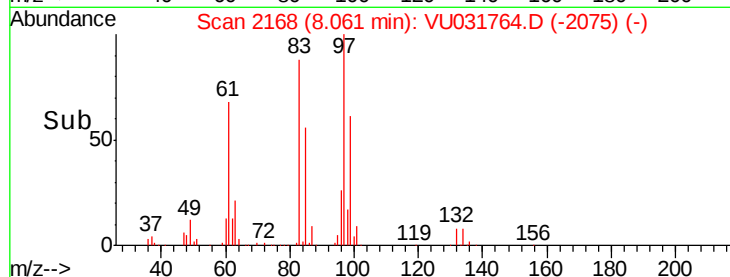
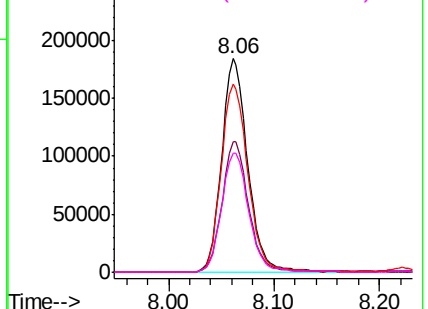


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 50.477 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Tgt Ion: 164 Resp: 208453

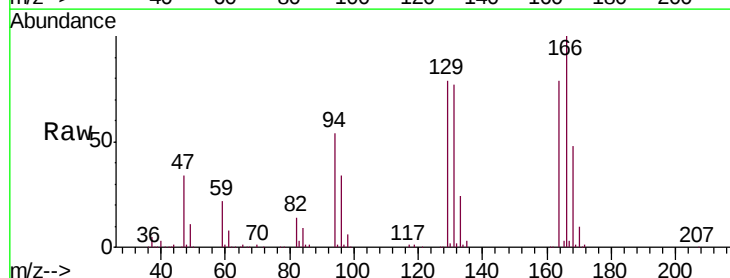
Ion Ratio Lower Upper

164 100

129 99.9 71.5 132.9

131 97.1 69.0 128.2

166 126.3 93.7 173.9

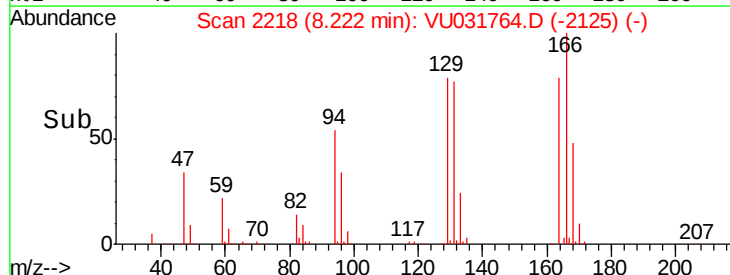
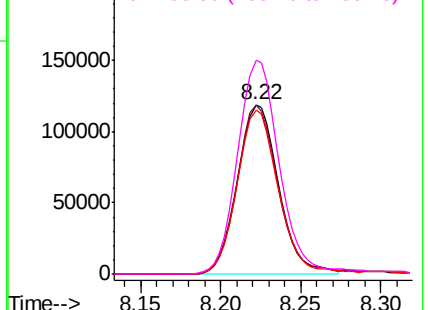


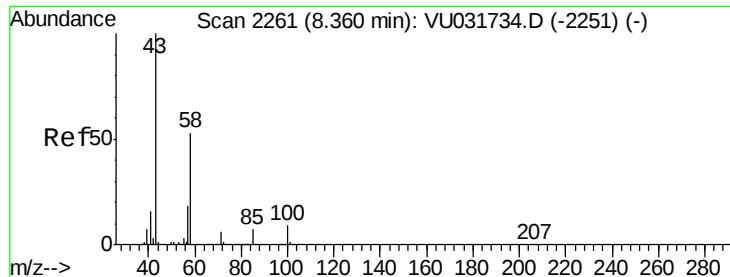
Abundance Ion 164.00 (163.70 to 164.70): V

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

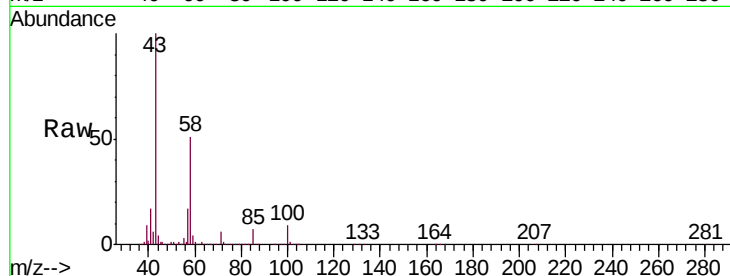




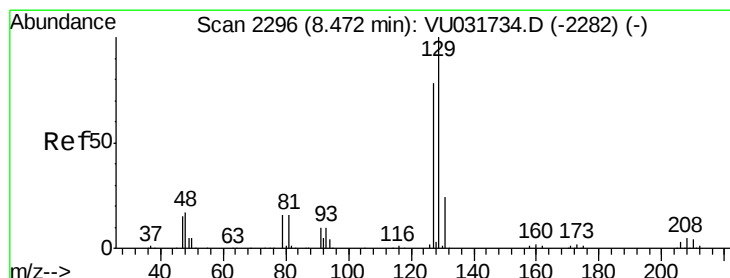
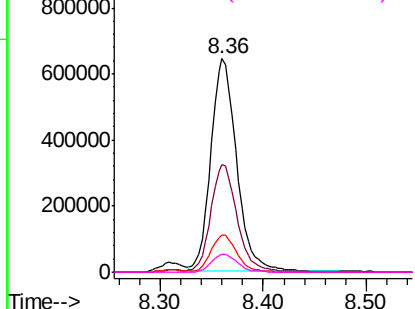
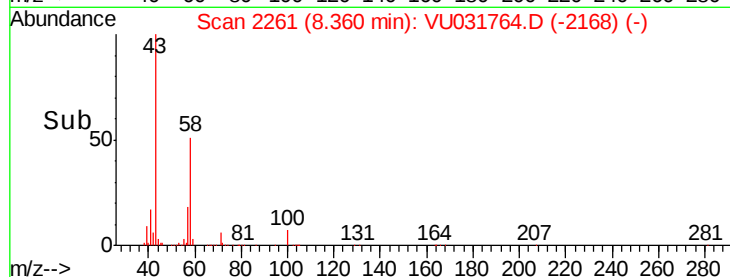
#48
2-Hexanone
Concen: 127.028 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion: 43 Resp: 1121390
Ion Ratio Lower Upper
43 100
58 50.8 42.1 63.1
57 17.3 14.6 22.0
100 8.7 7.2 10.8

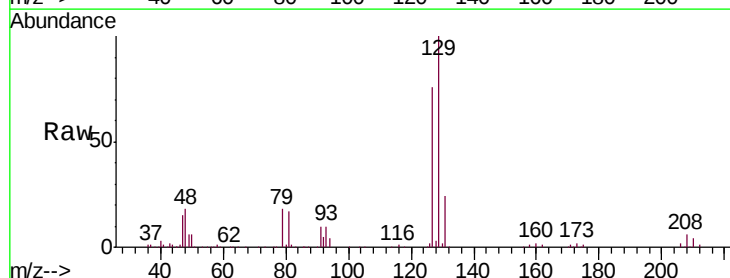


Abundance Ion 43.00 (42.70 to 43.70): VU031764.D (-2168) (-)
Ion 58.00 (57.70 to 58.70): VU031764.D (-2168) (-)
Ion 57.00 (56.70 to 57.70): VU031764.D (-2168) (-)
Ion 100.00 (99.70 to 100.70): VU031764.D (-2168) (-)

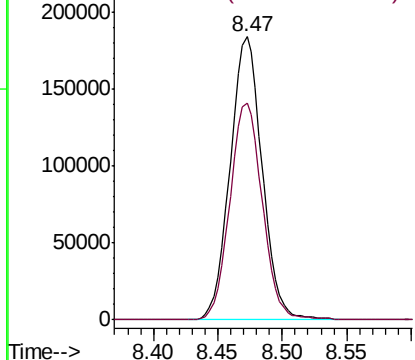
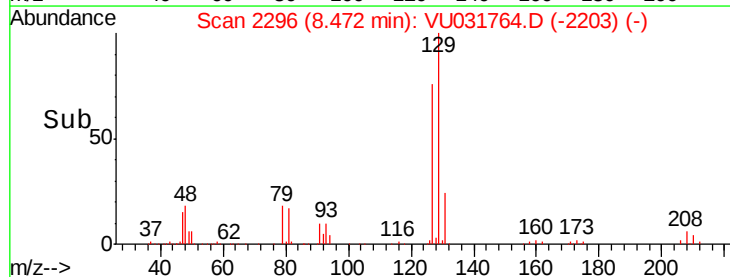


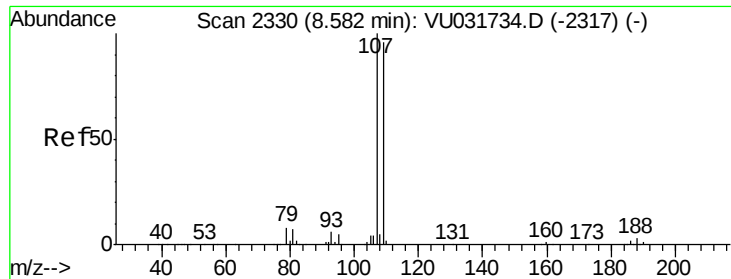
#49
Dibromochloromethane
Concen: 52.168 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion: 129 Resp: 317457
Ion Ratio Lower Upper
129 100
127 76.5 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): VU031764.D (-2203) (-)
Ion 127.00 (126.70 to 127.70): VU031764.D (-2203) (-)

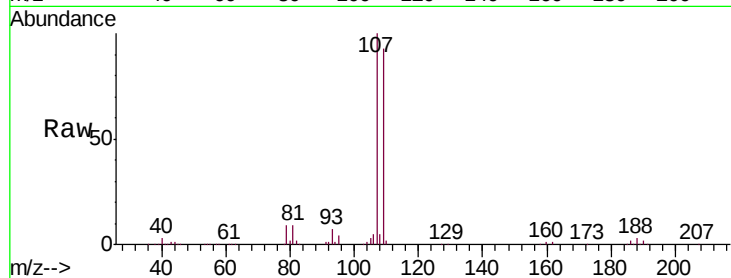




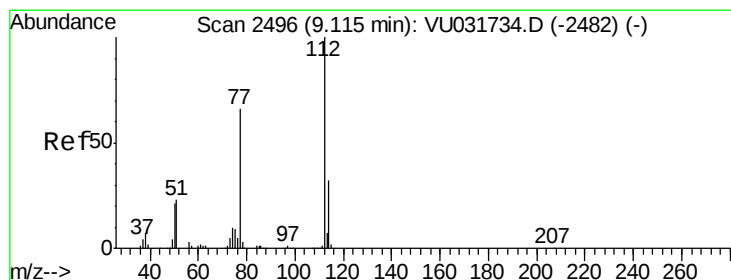
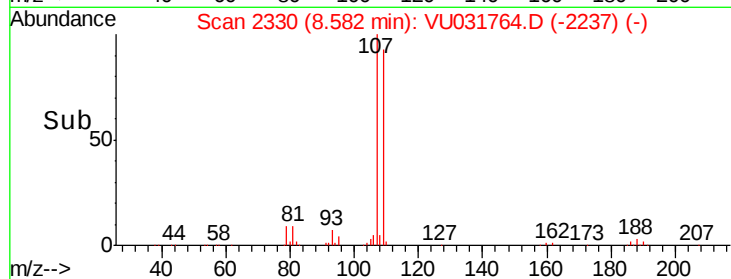
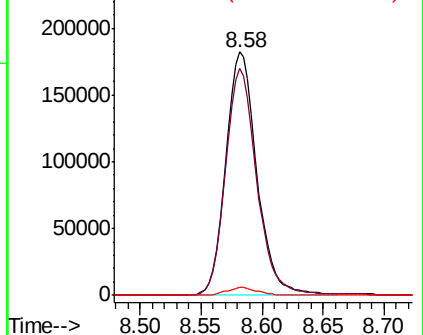
#50
1,2-Dibromoethane
Concen: 52.755 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.1	64.9	120.5
188	3.1	2.4	3.6

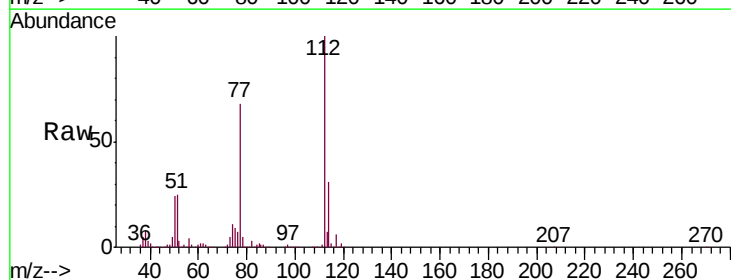


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

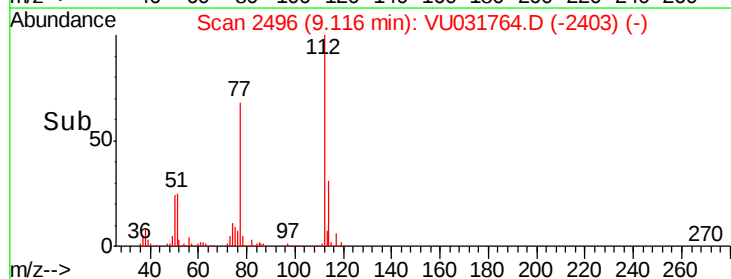
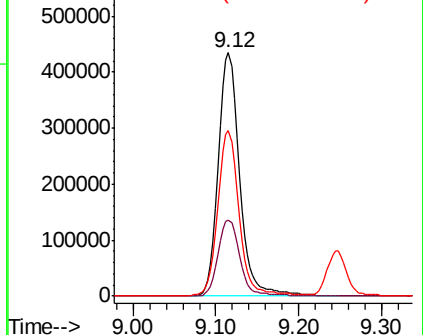


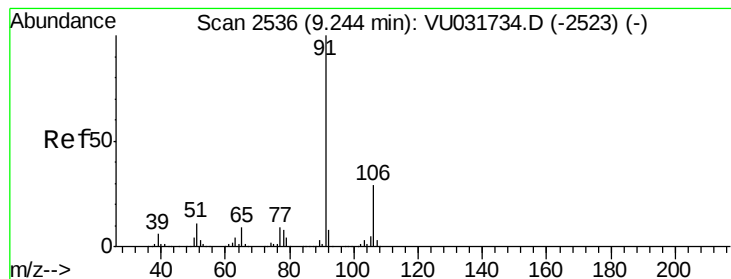
#51
Chlorobenzene
Concen: 52.597 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031764.D
Acq: 06 May 2019 08:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	23.3	43.3
77	67.9	53.0	79.4



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





#52

Ethylbenzene

Concen: 54.618 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

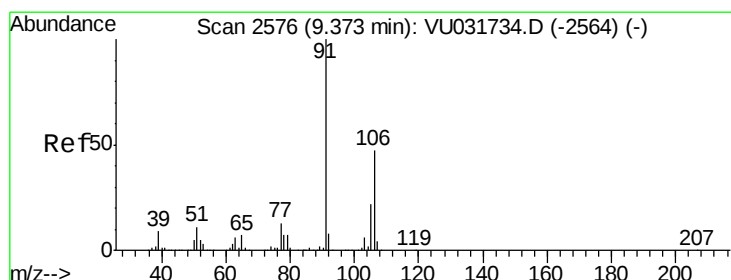
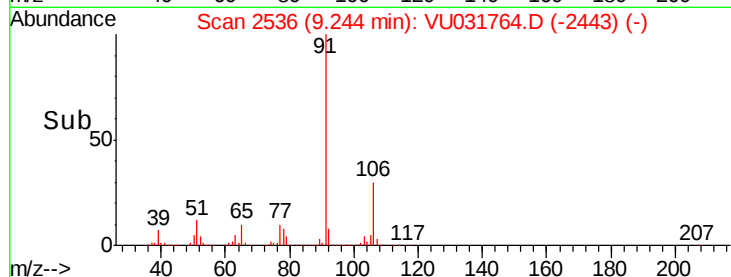
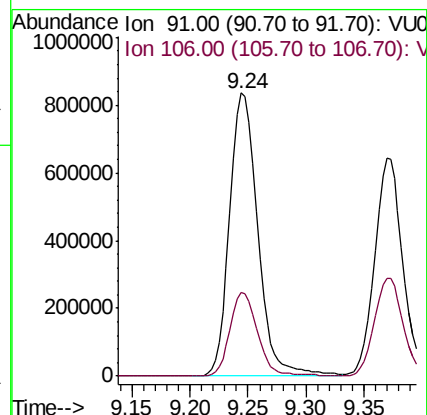
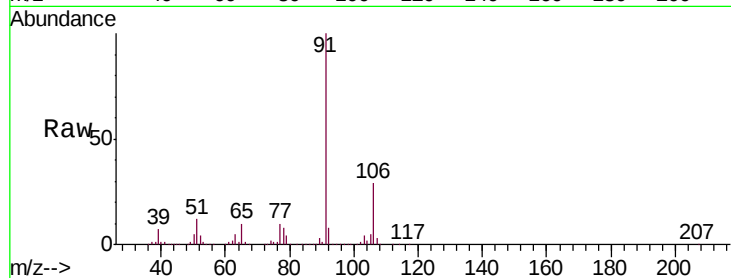
VSTD05035

Tgt Ion: 91 Resp: 1410337

Ion Ratio Lower Upper

91 100

106 29.5 20.4 37.8



#53

m,p-Xylene

Concen: 57.355 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031764.D

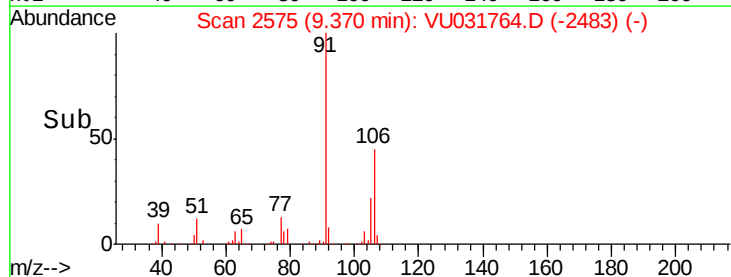
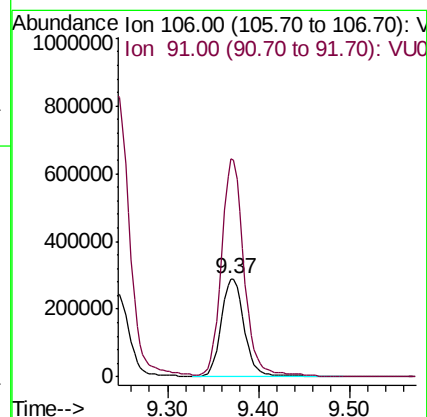
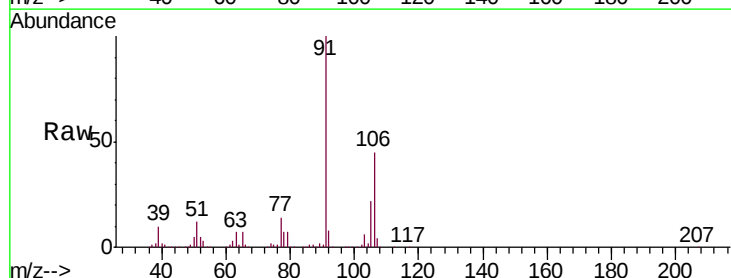
Acq: 06 May 2019 08:52

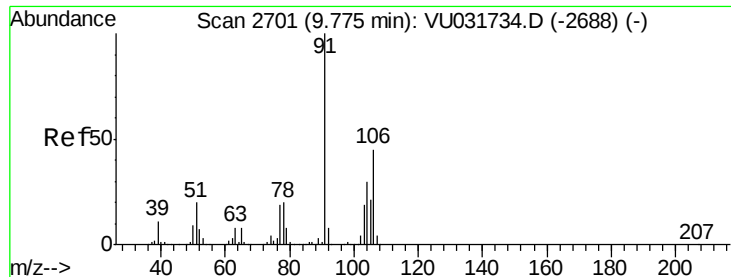
Tgt Ion: 106 Resp: 516000

Ion Ratio Lower Upper

106 100

91 221.1 152.2 282.6





#54

o-xylene

Concen: 55.563 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

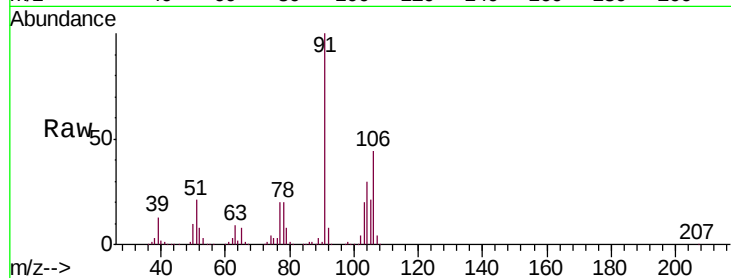
VSTD05035

Tgt Ion:106 Resp: 495576

Ion Ratio Lower Upper

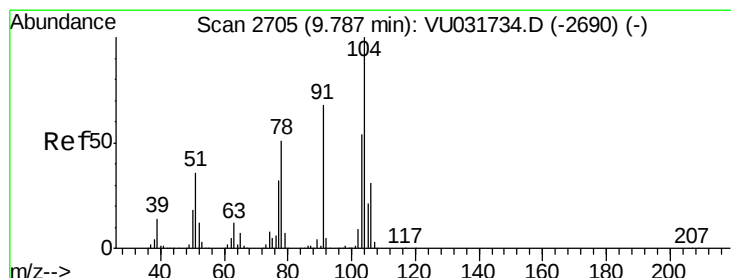
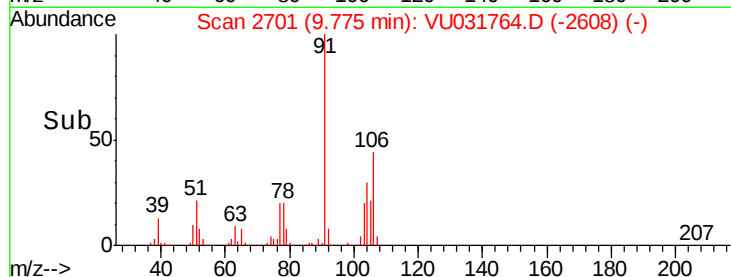
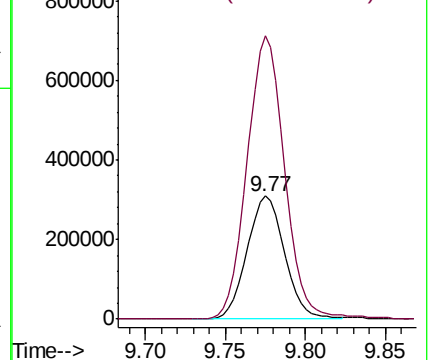
106 100

91 229.7 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 57.251 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031764.D

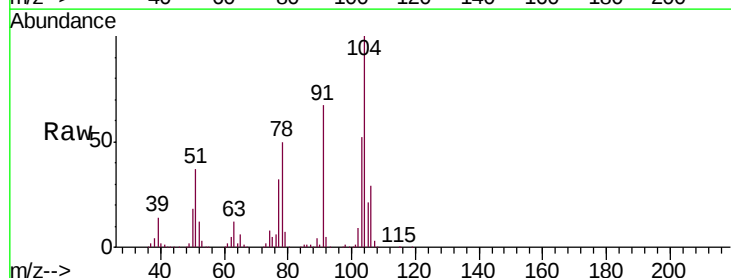
Acq: 06 May 2019 08:52

Tgt Ion:104 Resp: 872404

Ion Ratio Lower Upper

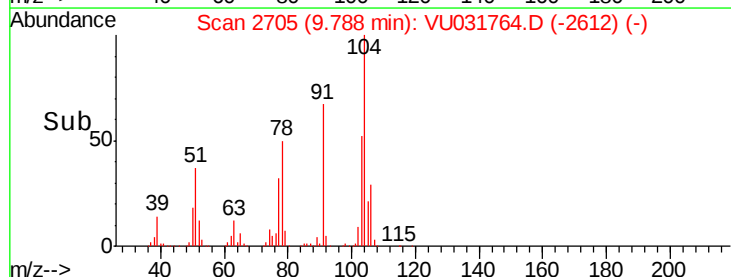
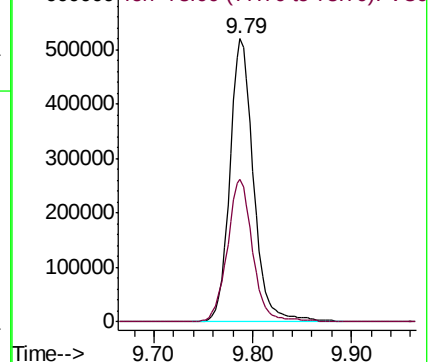
104 100

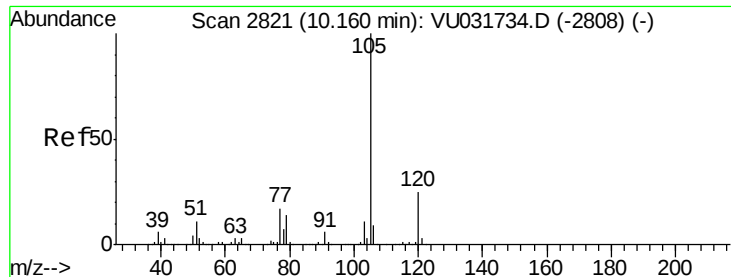
78 50.4 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 56.192 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

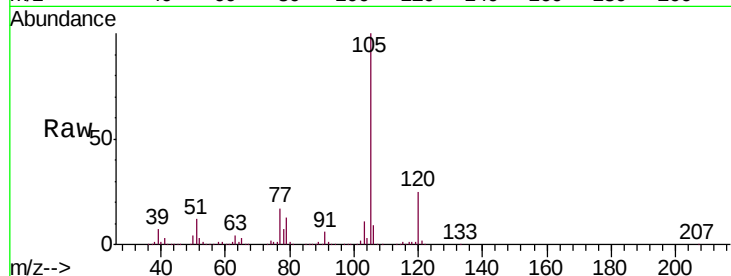
Tgt Ion:105 Resp: 1317916

Ion Ratio Lower Upper

105 100

120 24.8 20.1 30.1

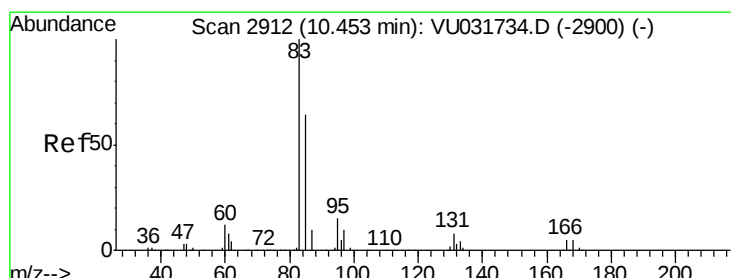
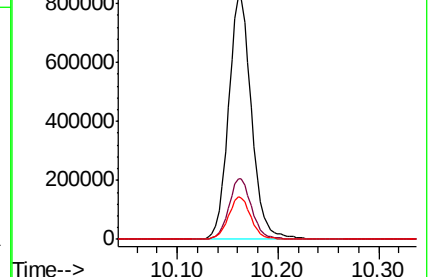
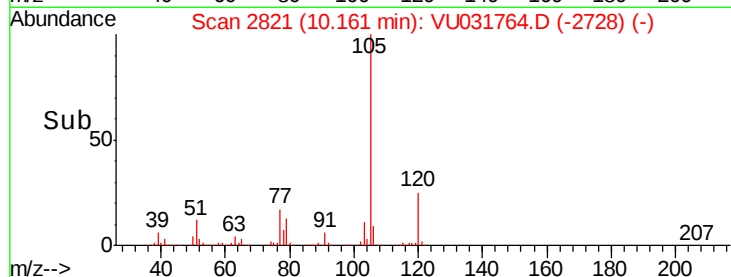
77 17.1 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 54.016 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

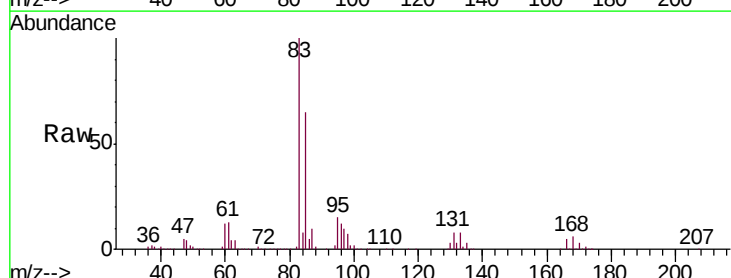
Tgt Ion: 83 Resp: 560586

Ion Ratio Lower Upper

83 100

85 64.5 46.0 85.4

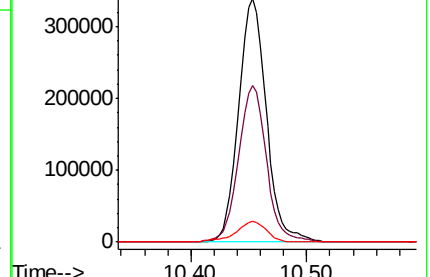
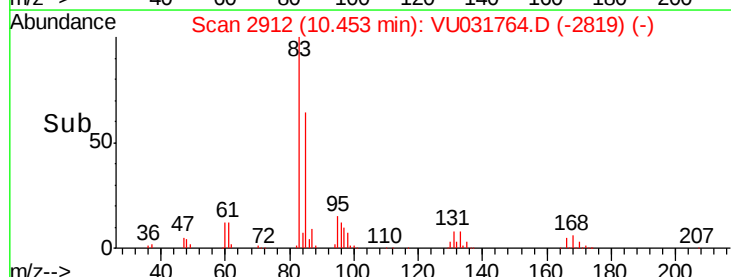
131 8.4 7.3 10.9

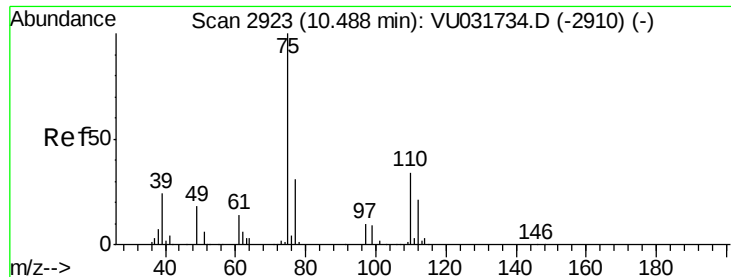


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 55.391 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

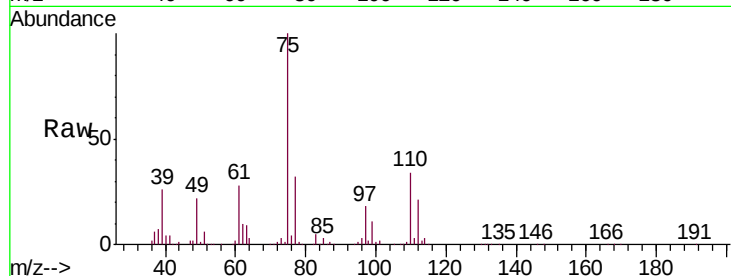
VSTD05035

Tgt Ion: 75 Resp: 465904

Ion Ratio Lower Upper

75 100

77 32.2 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031734.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031734.D (-2910) (-)

10.49

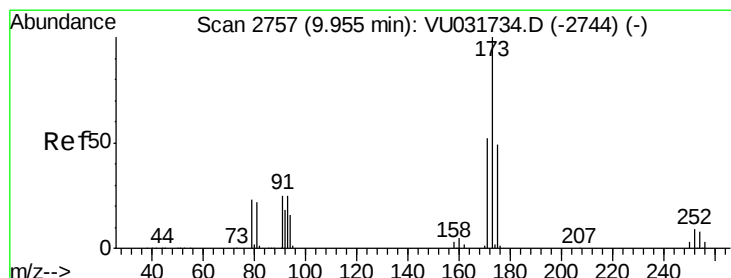
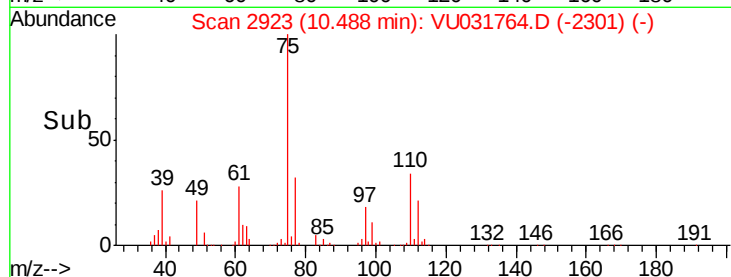
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 48.478 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

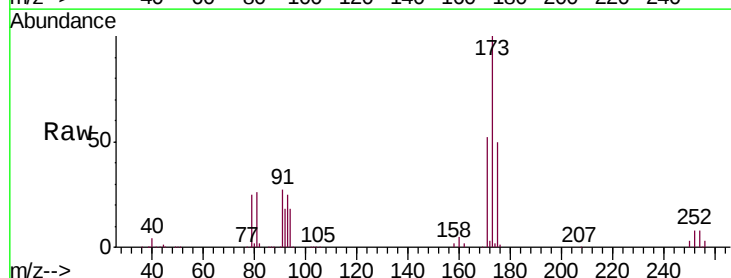
Tgt Ion: 173 Resp: 224831

Ion Ratio Lower Upper

173 100

175 48.4 38.3 57.5

254 7.8 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031734.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031734.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031734.D (-2744) (-)

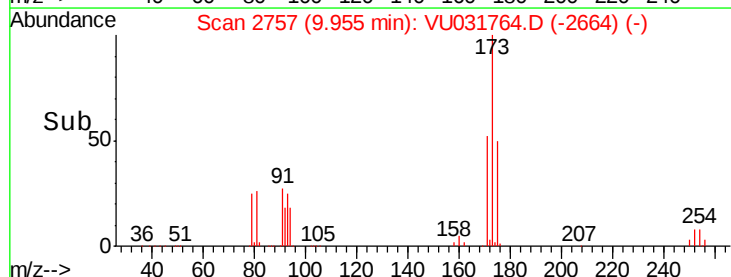
150000

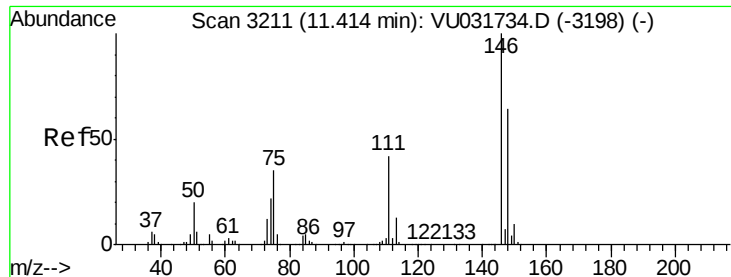
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 51.012 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

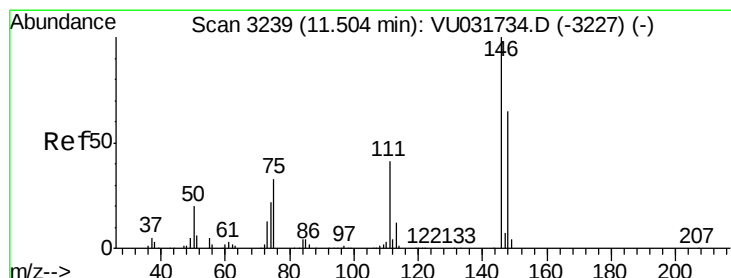
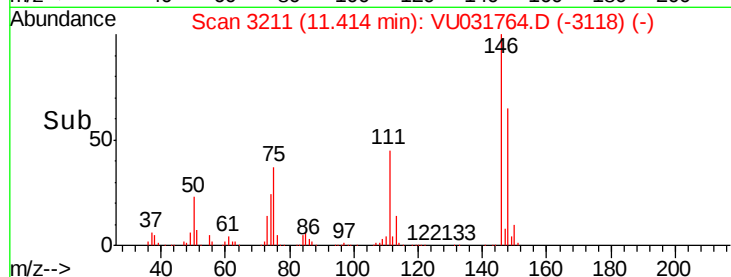
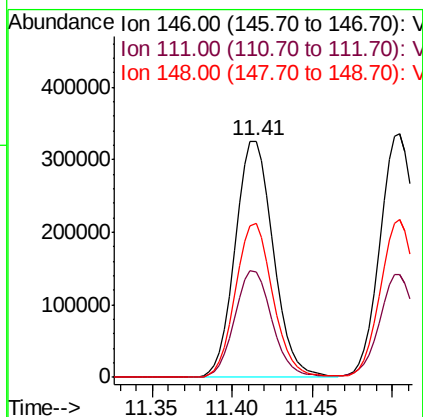
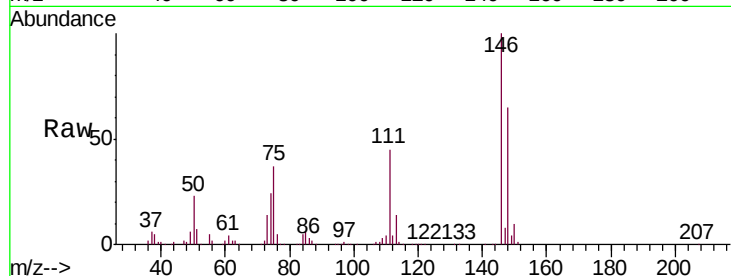
Tgt Ion:146 Resp: 528304

Ion Ratio Lower Upper

146 100

111 44.7 29.8 55.4

148 65.0 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 51.079 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

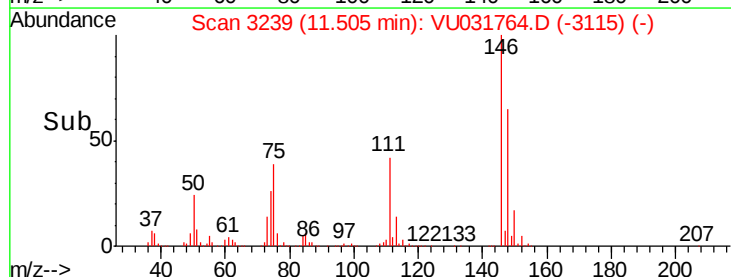
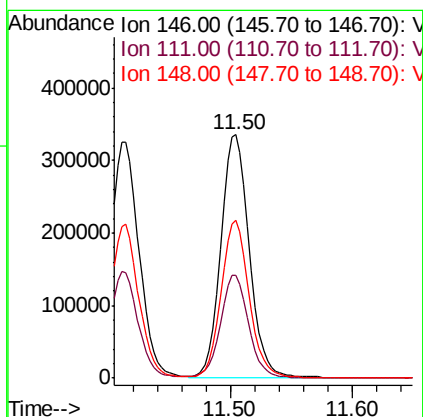
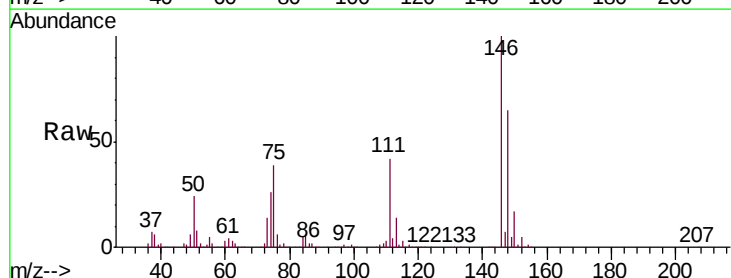
Tgt Ion:146 Resp: 547860

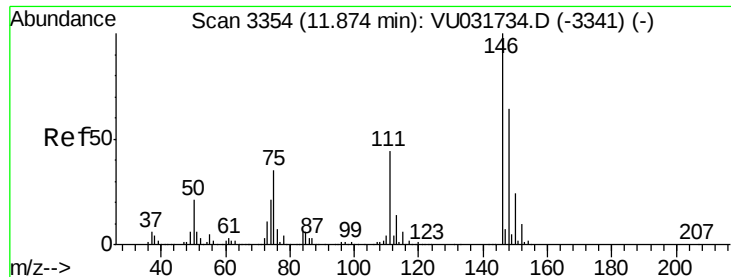
Ion Ratio Lower Upper

146 100

111 42.2 28.2 52.4

148 64.9 45.4 84.4

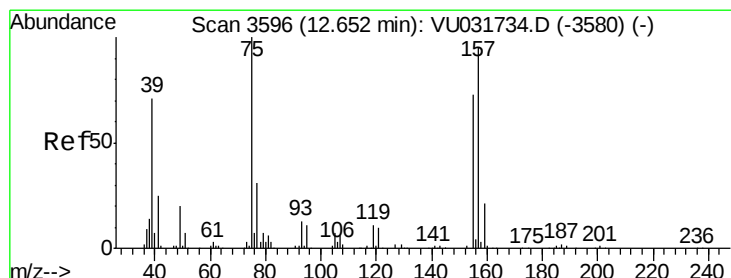
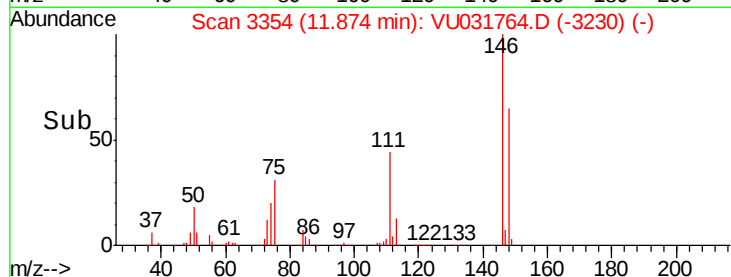
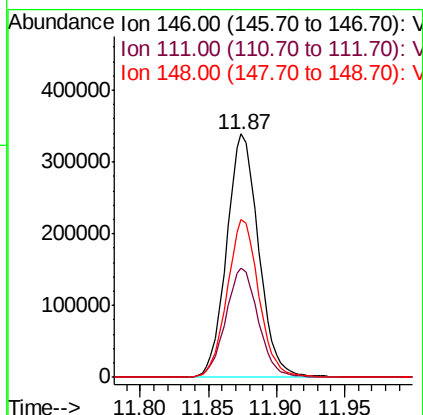
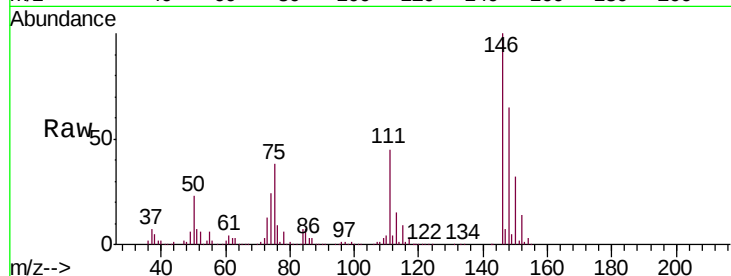




#65
 1,2-Dichlorobenzene
 Concen: 49.943 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

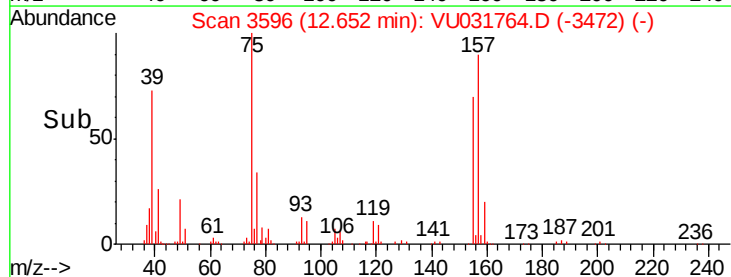
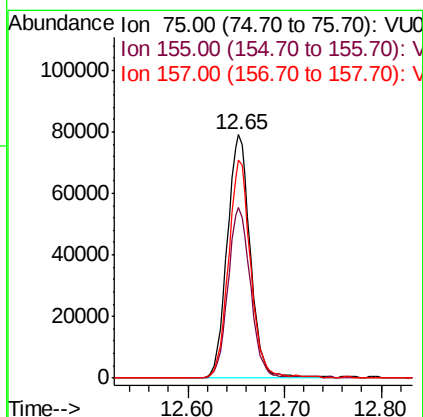
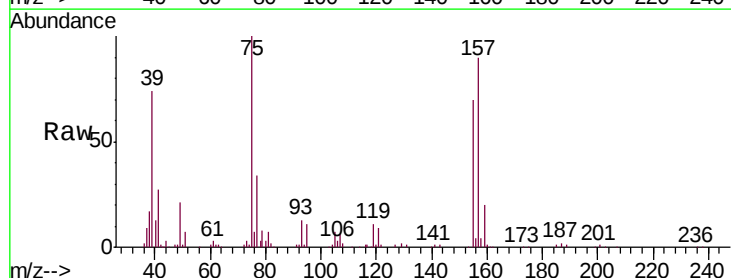
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

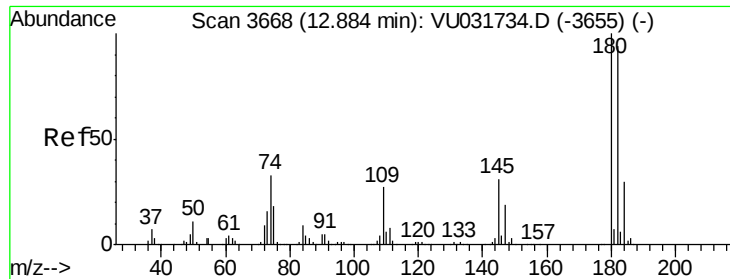
Tgt Ion: 146 Resp: 549715
 Ion Ratio Lower Upper
 146 100
 111 45.0 35.9 53.9
 148 64.6 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.249 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

Tgt Ion: 75 Resp: 130919
 Ion Ratio Lower Upper
 75 100
 155 70.1 54.0 81.0
 157 89.6 69.1 103.7

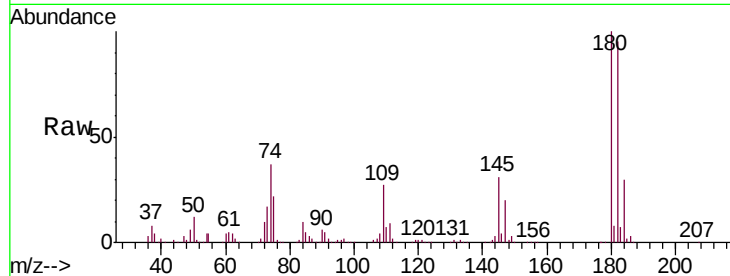




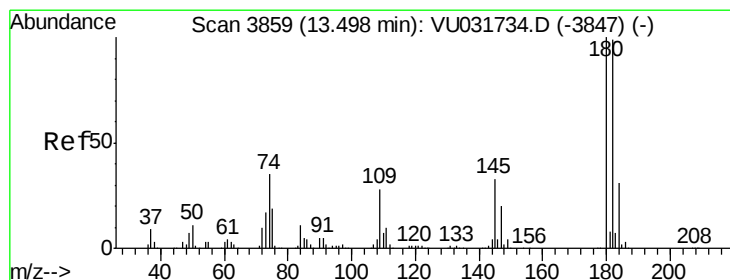
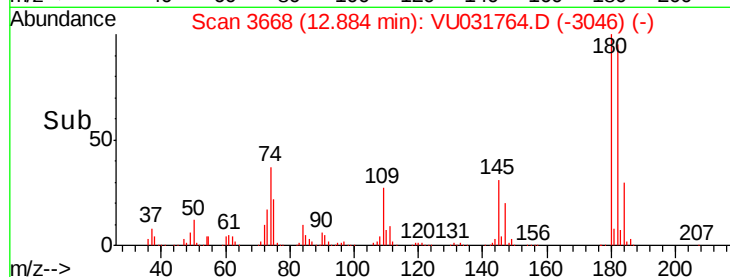
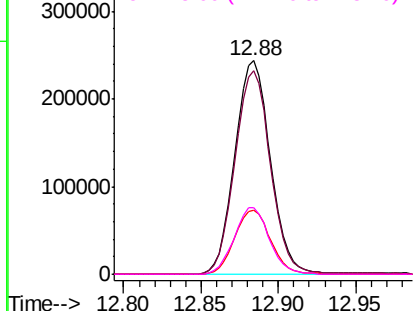
#67
 1,3,5-Trichlorobenzene
 Concen: 50.225 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tgt Ion:	180	Resp:	389591
Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.3	115.9
184	30.3	24.4	36.6
145	30.9	23.8	35.8

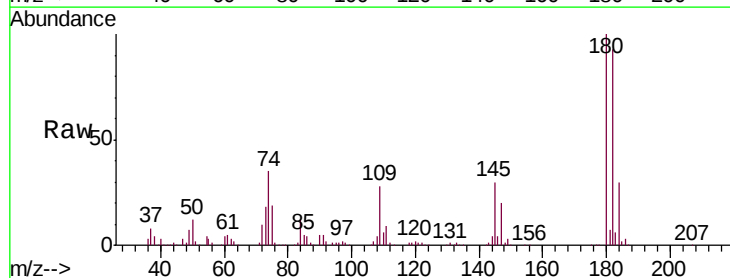


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

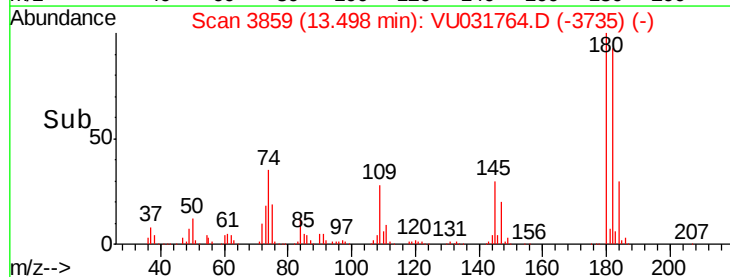
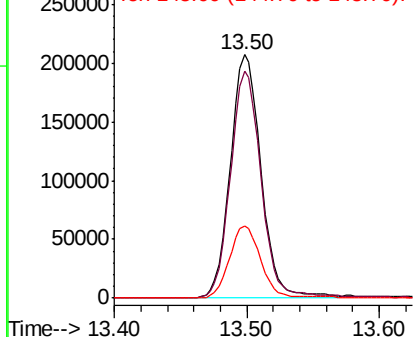


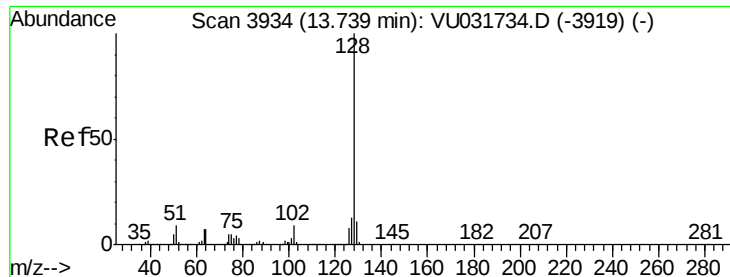
#68
 1,2,4-trichlorobenzene
 Concen: 54.338 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031764.D
 Acq: 06 May 2019 08:52

Tgt Ion:	180	Resp:	333681
Ion	Ratio	Lower	Upper
180	100		
182	92.6	75.8	113.8
145	30.3	24.5	36.7



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: 55.555 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

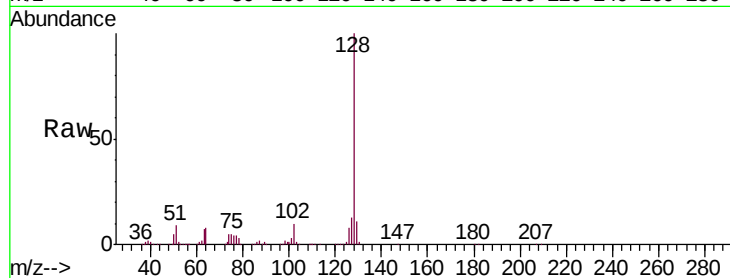
Tgt Ion:128 Resp: 1163179

Ion Ratio Lower Upper

128 100

127 13.3 10.6 15.8

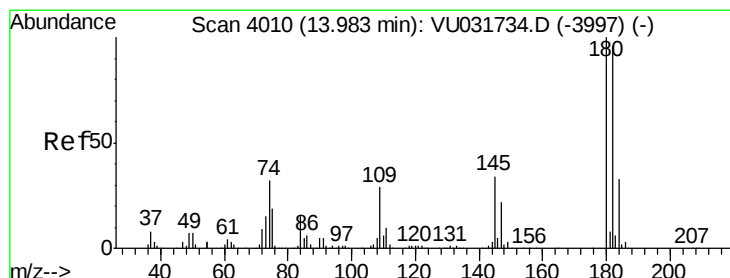
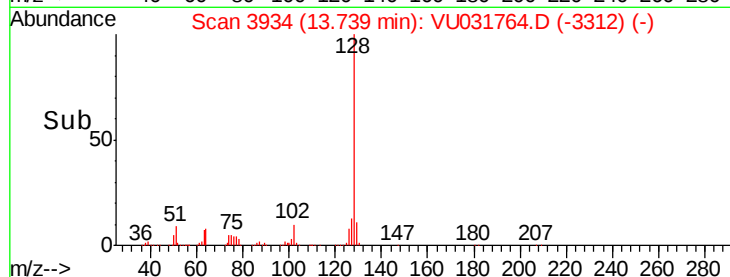
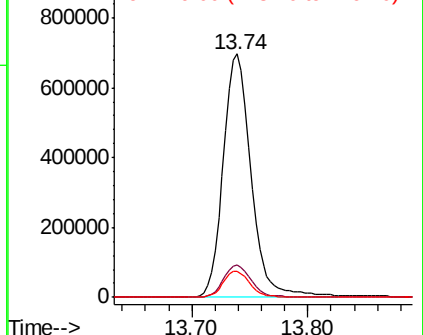
129 10.5 8.7 13.1



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: 48.961 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031764.D

Acq: 06 May 2019 08:52

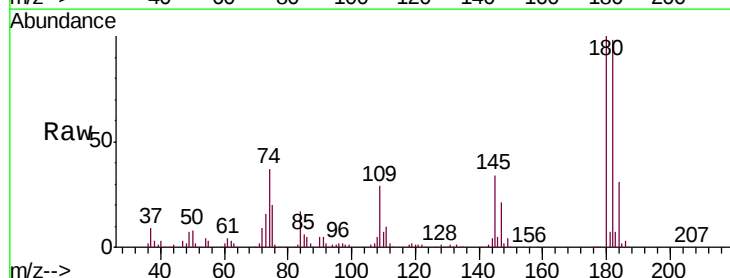
Tgt Ion:180 Resp: 342303

Ion Ratio Lower Upper

180 100

182 96.5 76.1 114.1

145 34.0 26.0 39.0



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

