

Data File : VU034550.D
Acq On : 16 Sep 2019 11:26
Operator : JC/SP
Sample : VSTD010
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

Quant Time: Sep 16 12:45:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091619WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 16 12:41:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	409876	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	387239	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	173493	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	20626	5.74	ug/L	0.00
7) Chloroethane-d5	1.67	69	15858	5.56	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	39678	6.12	ug/L	0.00
21) 2-Butanone-d5	4.16	46	42719	17.66	ug/L	0.00
24) Chloroform-d	4.62	84	44120	7.54	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	27712	7.33	ug/L	0.00
32) Benzene-d6	5.32	84	86761	7.89	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	31743	8.89	ug/L	0.00
41) Toluene-d8	7.54	98	83868	8.44	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	14330	8.70	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	31581	21.28	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	47993	9.44	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	31420	8.87	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	26657	7.025 ug/L	96
3) Chloromethane	1.32	50	26600	7.296 ug/L	98
5) Vinyl chloride	1.40	62	26179	6.113 ug/L	98
6) Bromomethane	1.62	94	14046	8.465 ug/L	94
8) Chloroethane	1.69	64	15419	6.002 ug/L	100
9) Trichlorofluoromethane	1.88	101	36223	7.212 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	23077	8.036 ug/L	97
12) 1,1-Dichloroethene	2.27	96	20869	7.549 ug/L	97
13) Acetone	2.31	43	38318	17.345 ug/L	96
14) Carbon disulfide	2.46	76	49846	5.607 ug/L	99
15) Methyl Acetate	2.60	43	31825	8.272 ug/L	99
16) Methylene chloride	2.68	84	25992	7.804 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	21051	7.090 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	88484	9.845 ug/L	99
19) 1,1-Dichloroethane	3.42	63	48340	8.169 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	27657	8.462 ug/L	87
22) 2-Butanone	4.24	43	44913	16.181 ug/L	95
23) Bromochloromethane	4.53	128	12796	7.613 ug/L	92
25) Chloroform	4.65	83	52147	8.898 ug/L	93
27) 1,2-Dichloroethane	5.38	62	35131	7.640 ug/L	99
29) Cyclohexane	4.97	56	39567	8.856 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	40135	9.000 ug/L	99
31) Carbon tetrachloride	5.11	117	33621	8.493 ug/L	99
33) Benzene	5.37	78	101591	8.676 ug/L	100
34) Trichloroethene	6.16	95	25147	8.277 ug/L	97
35) Methylcyclohexane	6.39	83	37770	8.246 ug/L	98
37) 1,2-Dichloropropane	6.41	63	30223	9.435 ug/L	100
38) Bromodichloromethane	6.73	83	40174	9.705 ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	42827	8.995 ug/L	95
40) 4-Methyl-2-pentanone	7.44	43	98718	21.516 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	107889	8.904	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	39230	9.143	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	27557	9.376	ug/L	99
46) Tetrachloroethene	8.21	164	16501	6.989	ug/L	100
48) 2-Hexanone	8.35	43	69014	19.372	ug/L	96
49) Dibromochloromethane	8.46	129	30924	9.484	ug/L	95
50) 1,2-Dibromoethane	8.57	107	28509	9.096	ug/L #	94
51) Chlorobenzene	9.10	112	70908	8.848	ug/L	97
52) Ethylbenzene	9.23	91	127320	9.728	ug/L	100
53) m,p-Xylene	9.35	106	45431	9.420	ug/L	96
54) o-xylene	9.76	106	45622	9.597	ug/L	96
55) Styrene	9.77	104	77325	9.553	ug/L	99
56) Isopropylbenzene	10.14	105	122212	9.893	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	52872	10.379	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	41133	10.047	ug/L	97
61) Bromoform	9.94	173	21308	9.736	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	51374	9.427	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	52592	9.313	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	52702	9.693	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	11667	11.700	ug/L	91
67) 1,3,5-Trichlorobenzene	12.87	180	33776	8.063	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	25742	7.495	ug/L	99
69) Naphthalene	13.73	128	87633	8.545	ug/L	98
70) 1,2,3-Trichlorobenzene	13.97	180	27144	7.478	ug/L	98

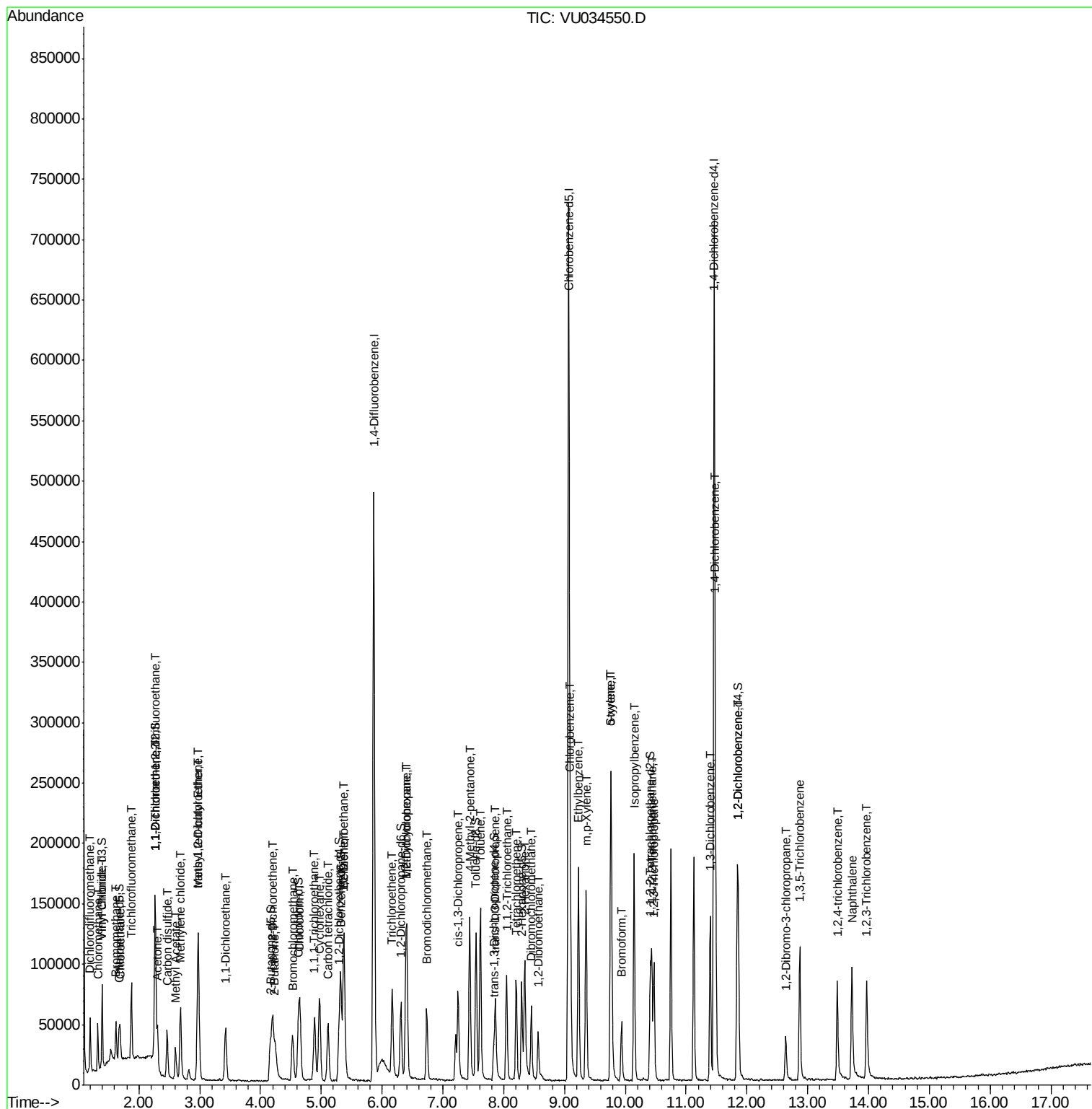
(#) = qualifier out of range (m) = manual integration (+) = signals summed

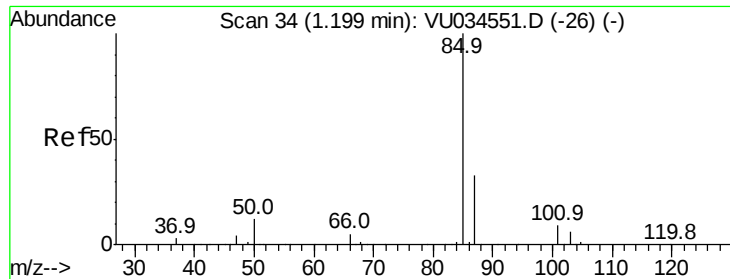
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#2

Dichlorodifluoromethane

Concen: 7.025 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

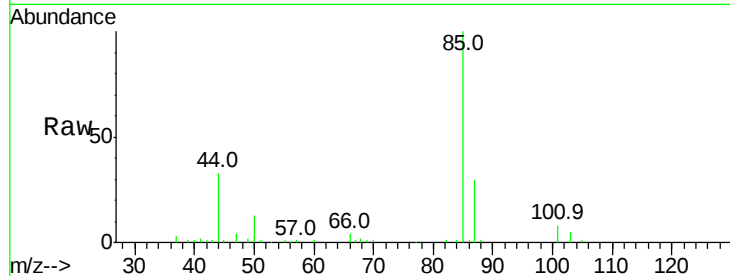
VSTD01031

Tgt Ion: 85 Resp: 26657

Ion Ratio Lower Upper

85 100

87 30.3 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU034550.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034550.D (-1) (-)

1.20

25000

20000

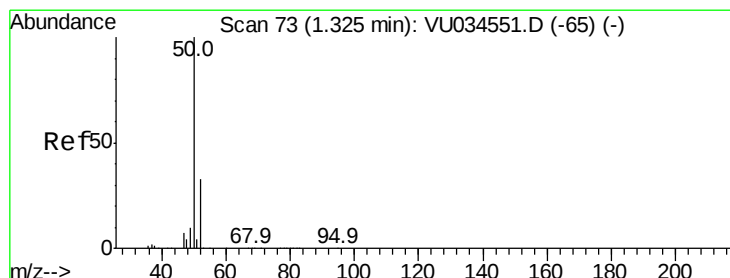
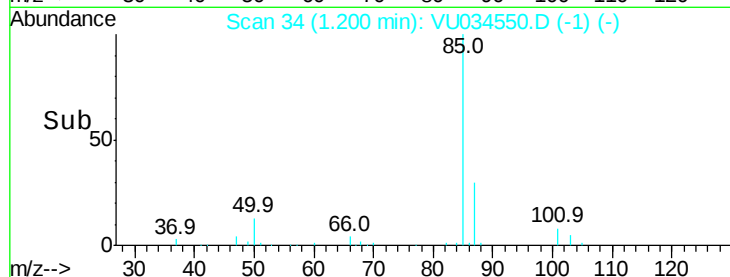
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 7.296 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034550.D

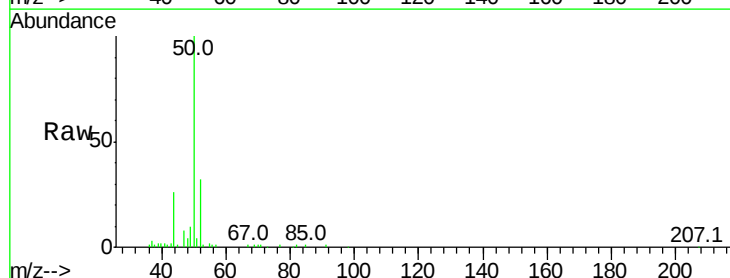
Acq: 16 Sep 2019 11:26

Tgt Ion: 50 Resp: 26600

Ion Ratio Lower Upper

50 100

52 32.1 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU034550.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU034550.D (-1) (-)

1.32

25000

20000

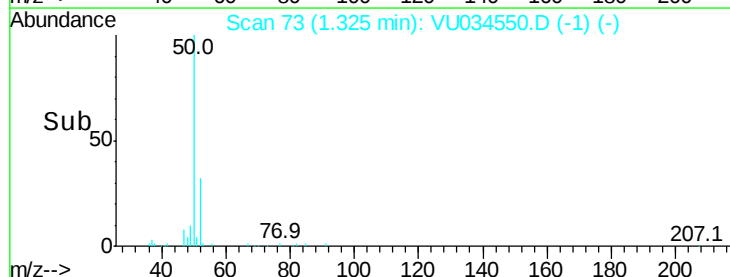
15000

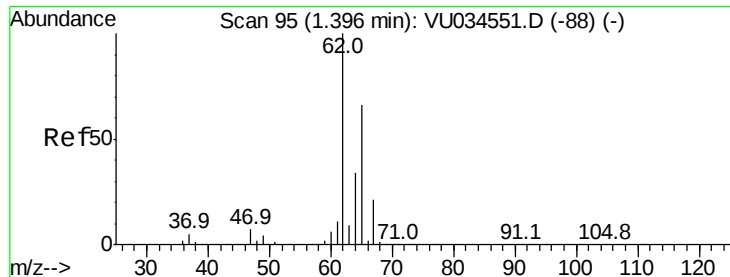
10000

5000

0

Time-->





#5

Vinyl chloride

Concen: 6.113 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

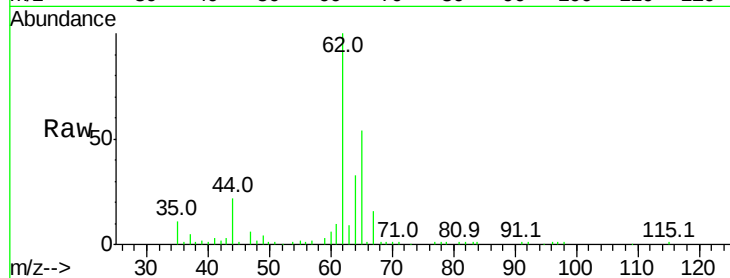
VSTD01031

Tgt Ion: 62 Resp: 26179

Ion Ratio Lower Upper

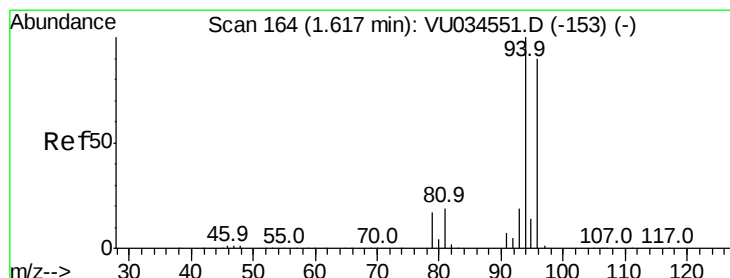
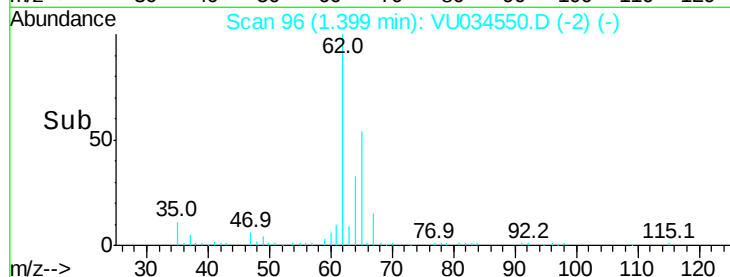
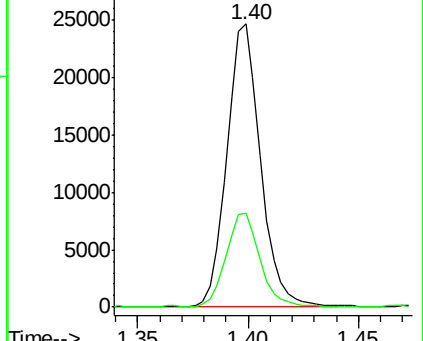
62 100

64 33.3 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 8.465 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034550.D

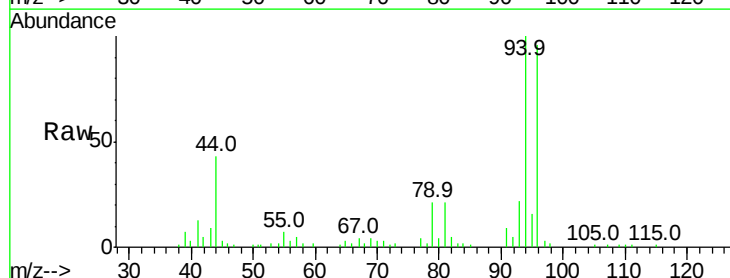
Acq: 16 Sep 2019 11:26

Tgt Ion: 94 Resp: 14046

Ion Ratio Lower Upper

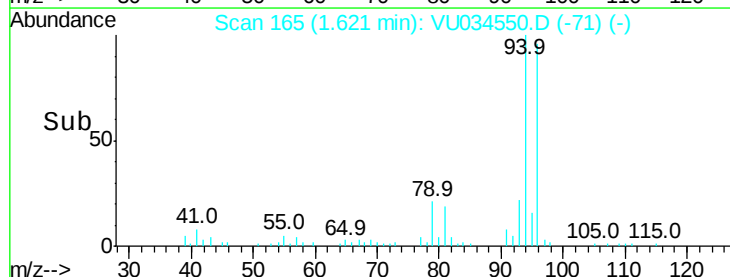
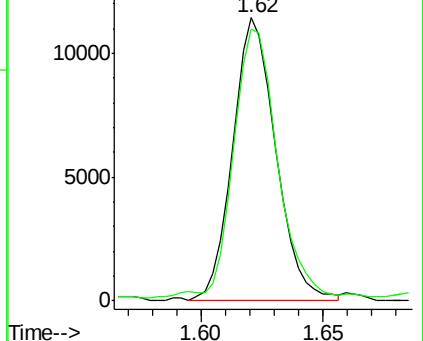
94 100

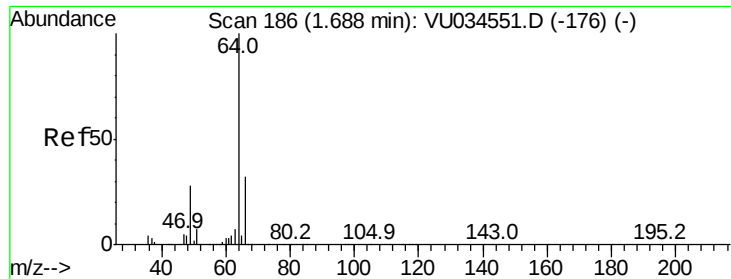
96 95.9 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 6.002 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

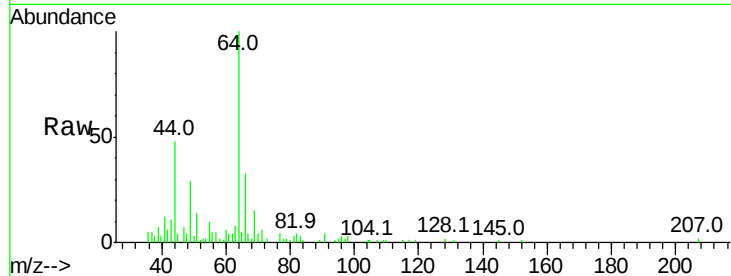
VSTD01031

Tgt Ion: 64 Resp: 15419

Ion Ratio Lower Upper

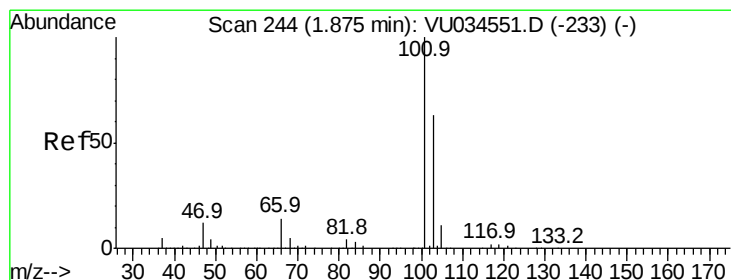
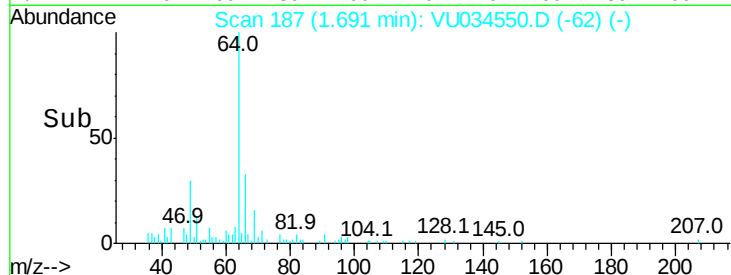
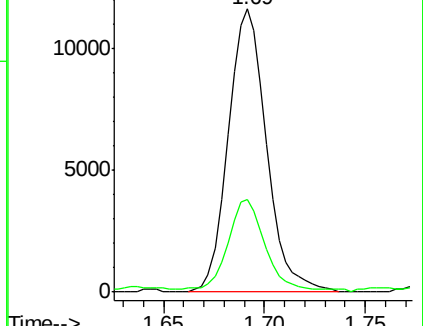
64 100

66 32.7 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU034550.D (-187) (-)

Ion 66.00 (65.70 to 66.70): VU034550.D (-187) (-)



#9

Trichlorofluoromethane

Concen: 7.212 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034550.D

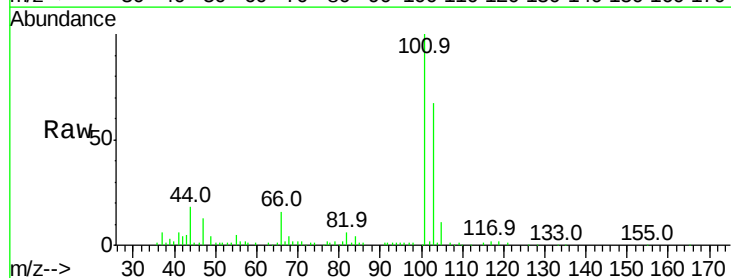
Acq: 16 Sep 2019 11:26

Tgt Ion: 101 Resp: 36223

Ion Ratio Lower Upper

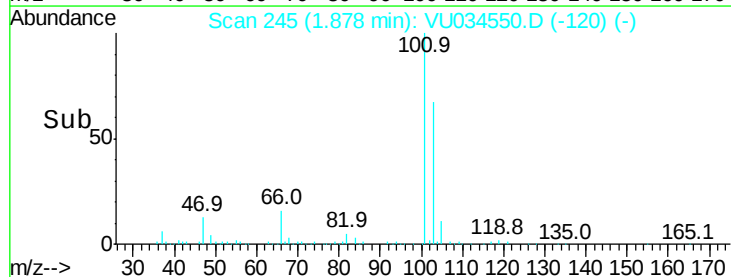
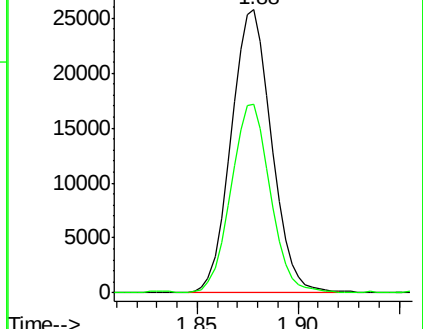
101 100

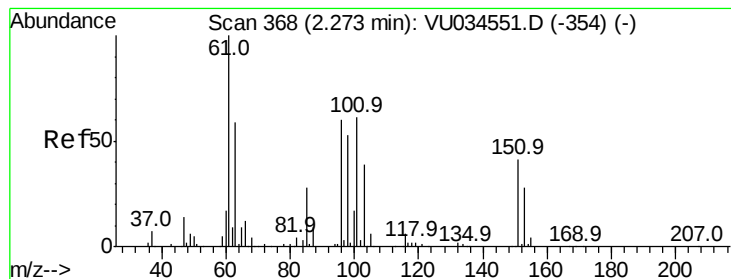
103 65.0 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): VU034550.D (-245) (-)

Ion 103.00 (102.70 to 103.70): VU034550.D (-245) (-)





#10

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

Concen: 8.036 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

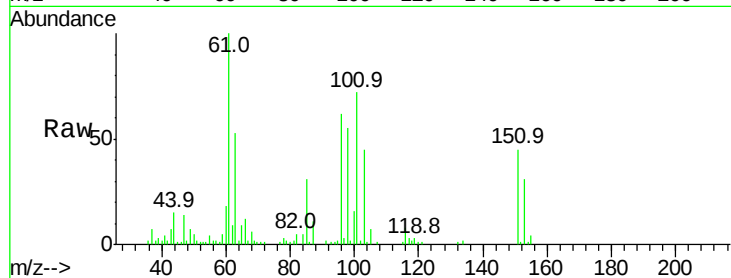
Tgt Ion: 101 Resp: 23077

Ion Ratio Lower Upper

101 100

85 46.4 37.0 55.6

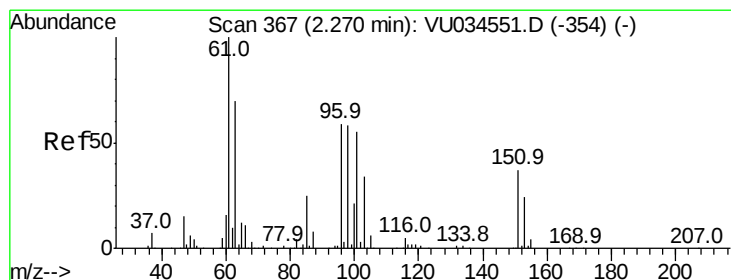
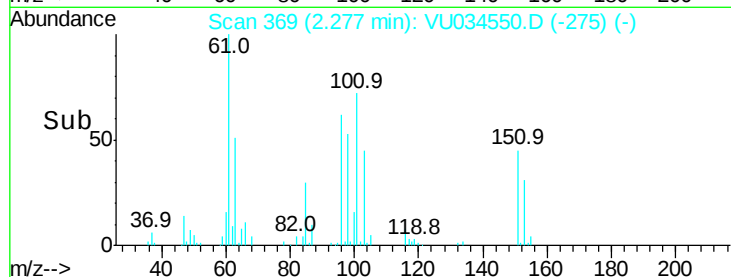
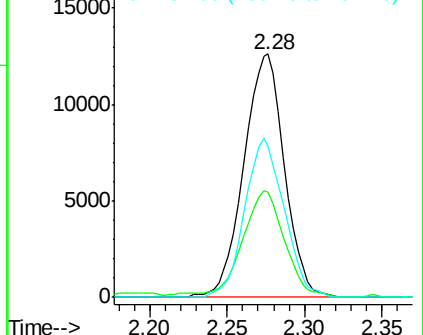
151 63.5 54.1 81.1



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: 7.549 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

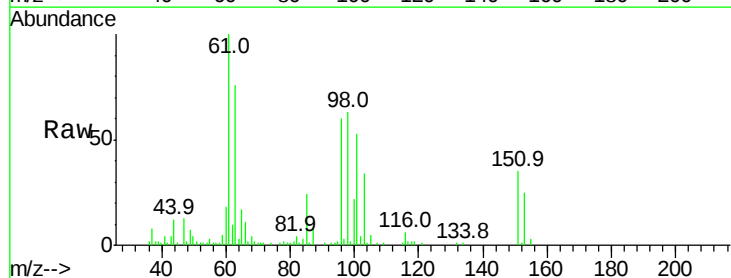
Tgt Ion: 96 Resp: 20869

Ion Ratio Lower Upper

96 100

61 166.9 117.8 218.8

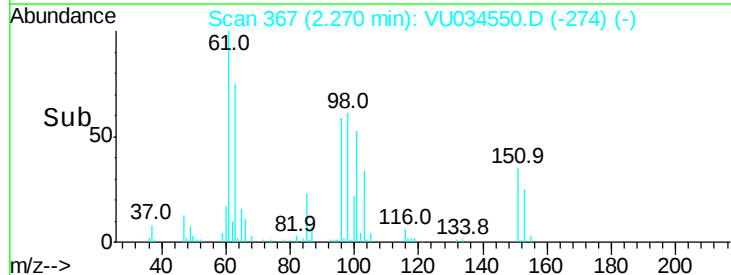
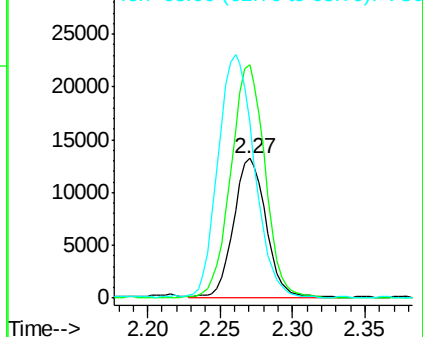
63 126.1 83.8 155.6

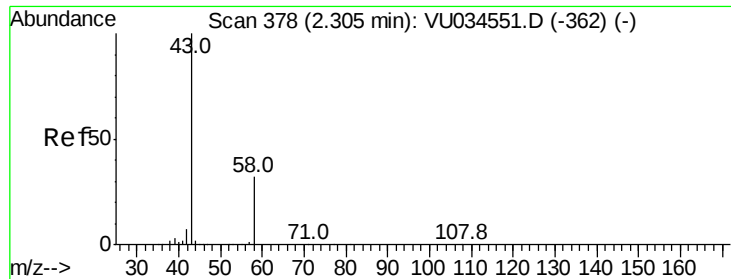


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 17.345 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

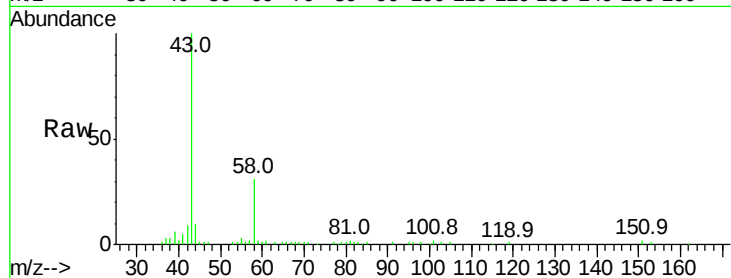
VSTD01031

Tgt Ion: 43 Resp: 38318

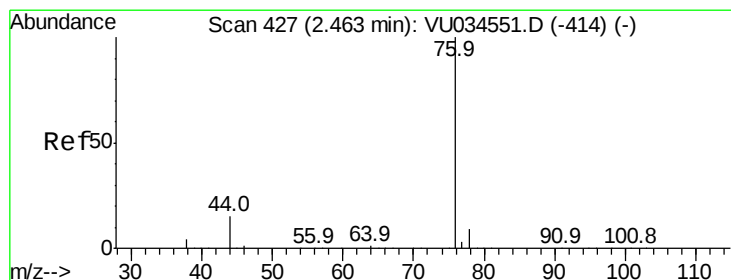
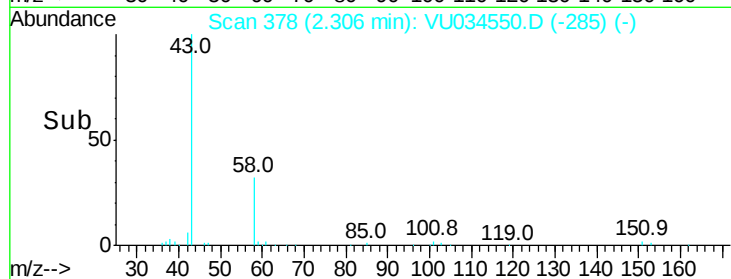
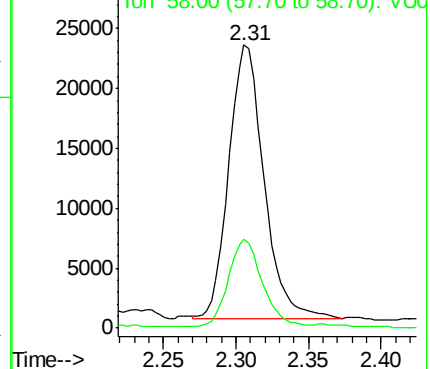
Ion Ratio Lower Upper

43 100

58 30.4 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU034550.D (-378) (-)



#14

Carbon disulfide

Concen: 5.607 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034550.D

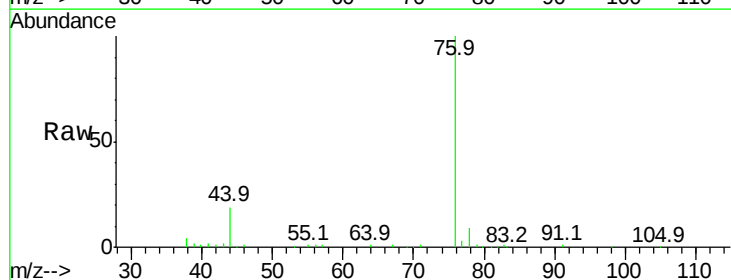
Acq: 16 Sep 2019 11:26

Tgt Ion: 76 Resp: 49846

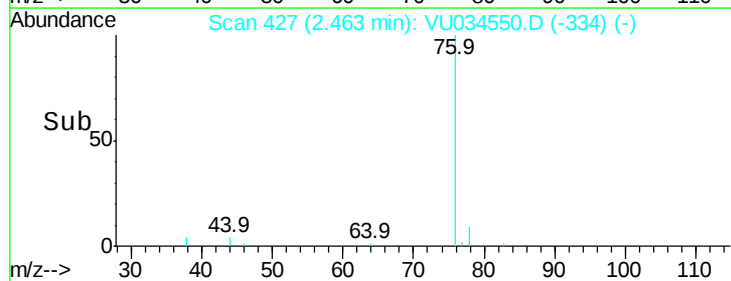
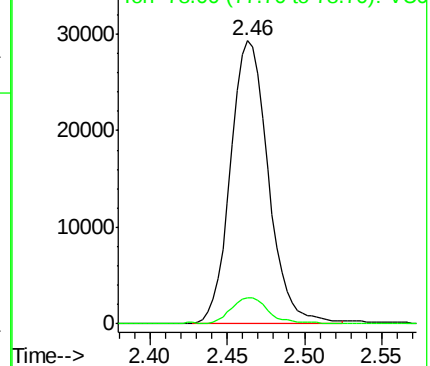
Ion Ratio Lower Upper

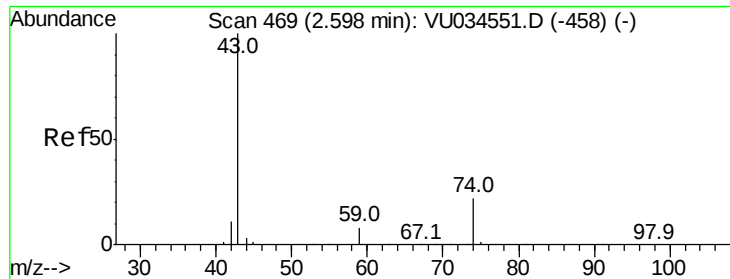
76 100

78 9.4 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU034550.D (-427) (-)





#15

Methyl Acetate

Concen: 8.272 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU034550.D

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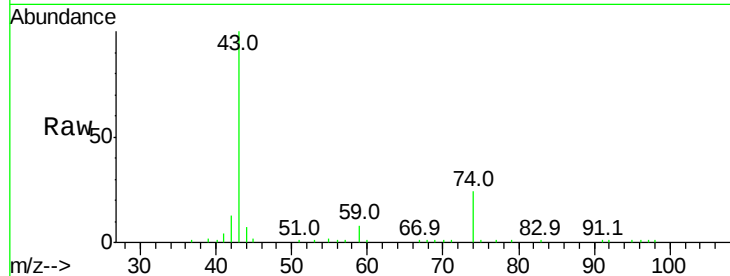
VSTD01031

Tgt Ion: 43 Resp: 31825

Ion Ratio Lower Upper

43 100

74 22.7 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU034550.D (-470) (-)

Ion 74.00 (73.70 to 74.70): VU034550.D (-470) (-)

20000

15000

10000

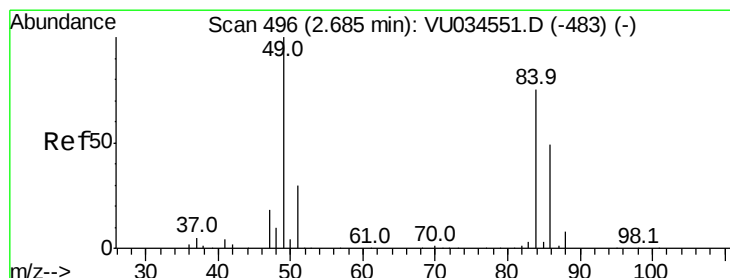
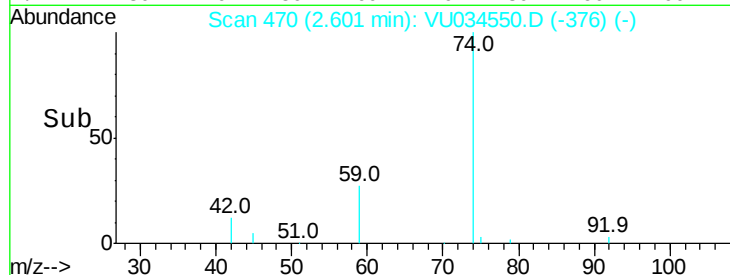
5000

0

Time-->

2.55 2.60 2.65 2.70

2.60



#16

Methylene chloride

Concen: 7.804 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

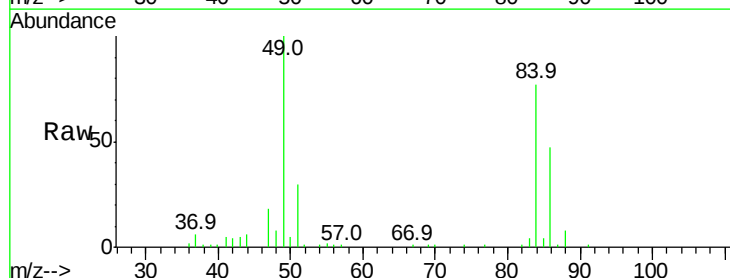
Tgt Ion: 84 Resp: 25992

Ion Ratio Lower Upper

84 100

86 60.9 45.4 84.4

49 129.4 93.1 172.9



Abundance Ion 84.00 (83.70 to 84.70): VU034550.D (-496) (-)

Ion 86.00 (85.70 to 86.70): VU034550.D (-496) (-)

Ion 49.00 (48.70 to 49.70): VU034550.D (-496) (-)

25000

20000

15000

10000

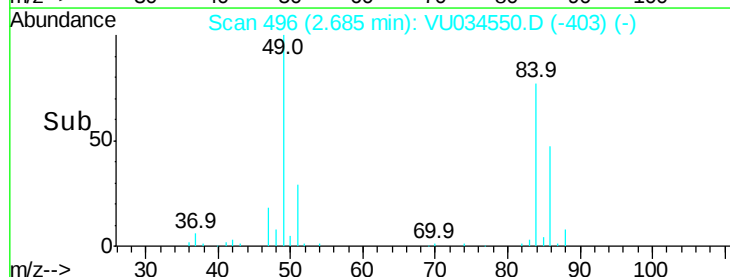
5000

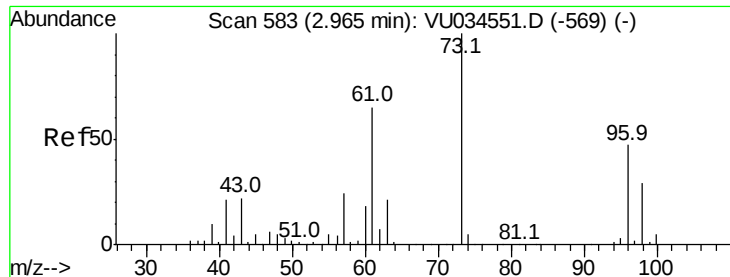
0

Time-->

2.60 2.65 2.70 2.75

2.68





#17

trans-1,2-Dichloroethene

Concen: 7.090 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

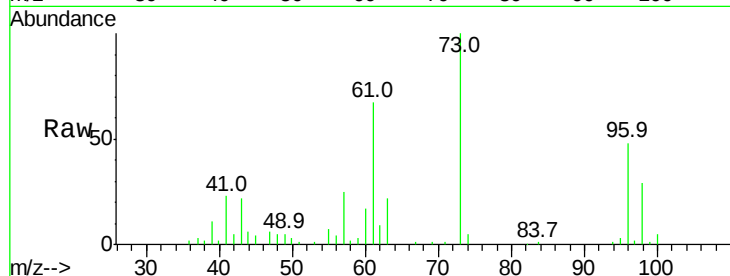
Tgt Ion: 96 Resp: 21051

Ion Ratio Lower Upper

96 100

61 141.4 97.0 180.2

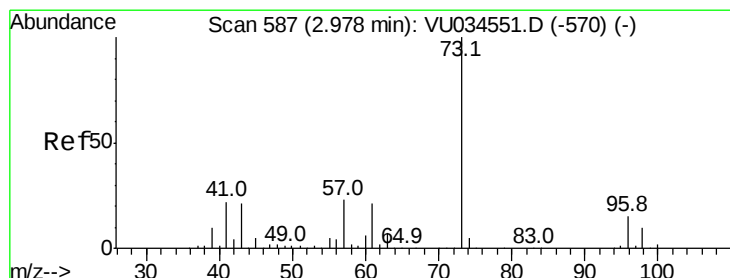
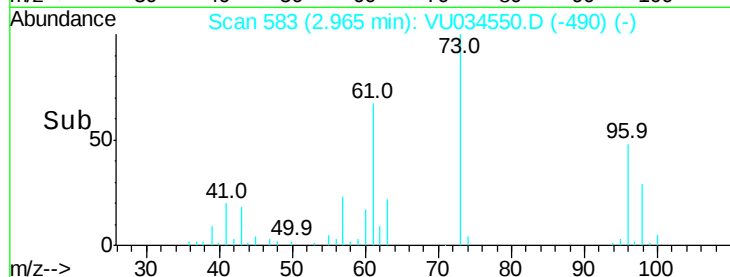
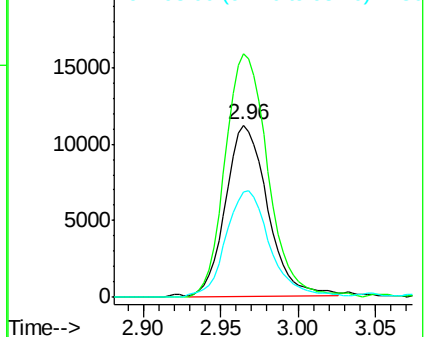
98 61.1 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU034551.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU034551.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU034551.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 9.845 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

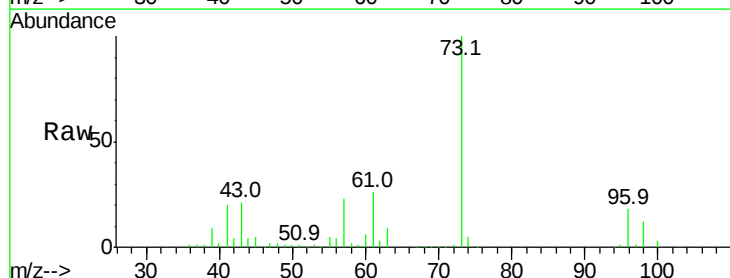
Tgt Ion: 73 Resp: 88484

Ion Ratio Lower Upper

73 100

43 20.3 16.7 25.1

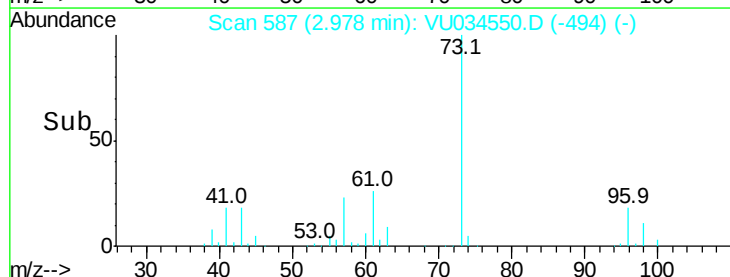
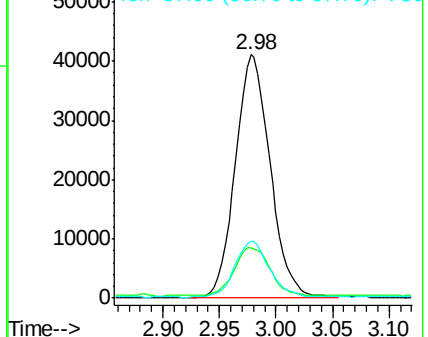
57 22.7 18.6 28.0

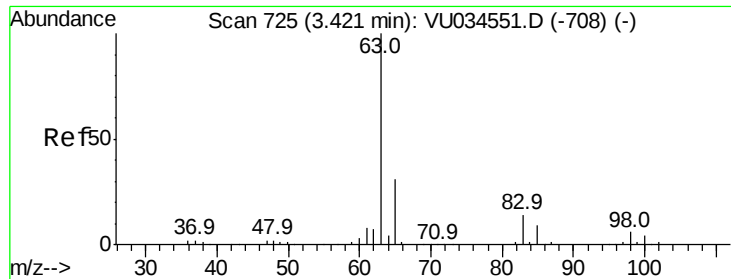


Abundance Ion 73.00 (72.70 to 73.70): VU034551.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU034551.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU034551.D (-570) (-)

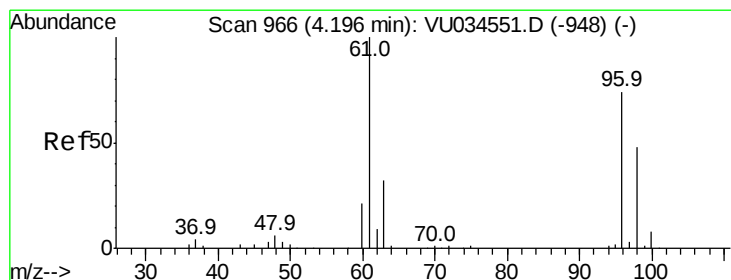
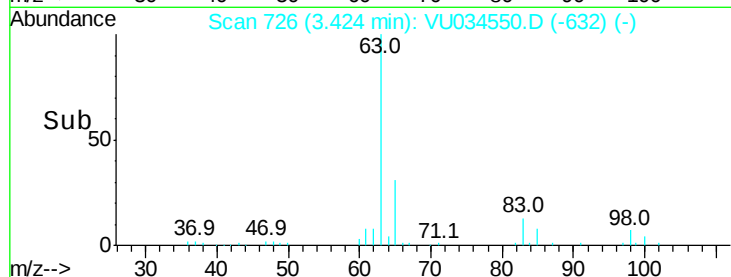
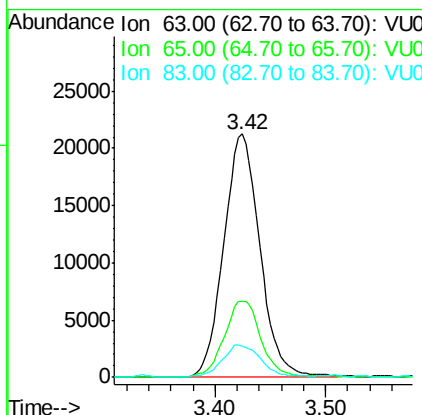
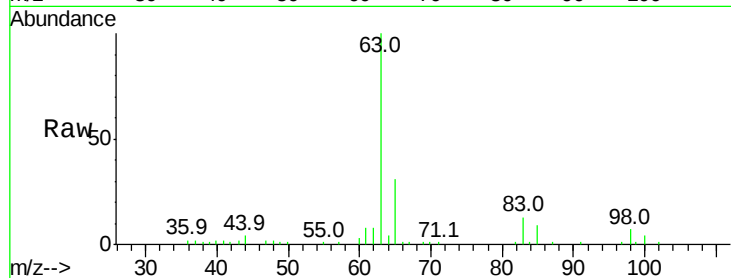




#19
 1,1-Dichloroethane
 Concen: 8.169 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

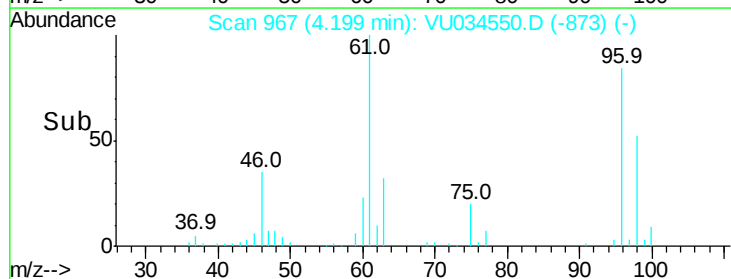
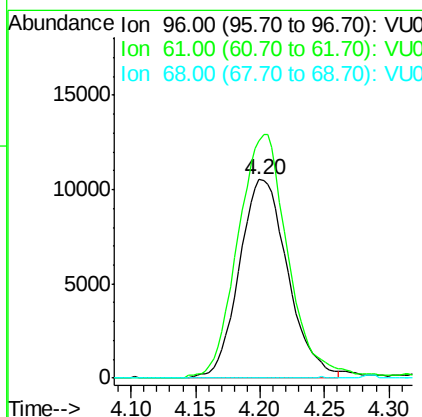
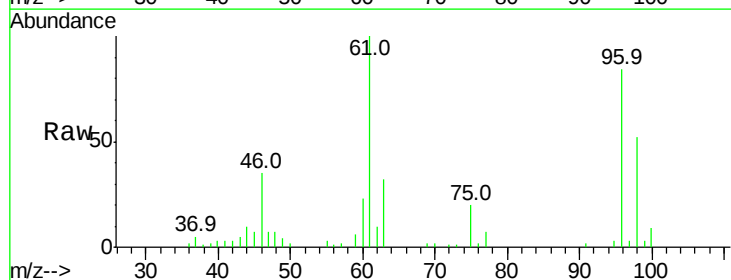
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD01031

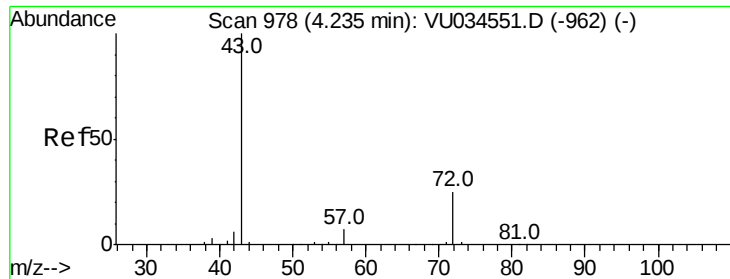
Tgt Ion: 63 Resp: 48340
 Ion Ratio Lower Upper
 63 100
 65 31.4 21.6 40.0
 83 12.8 9.7 17.9



#20
 cis-1,2-Dichloroethene
 Concen: 8.462 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion: 96 Resp: 27657
 Ion Ratio Lower Upper
 96 100
 61 119.6 94.7 175.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 16.181 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.01 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

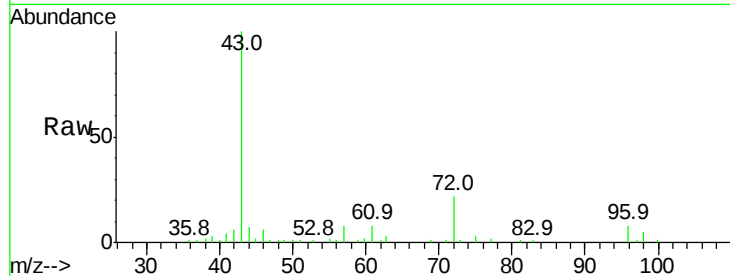
VSTD01031

Tgt Ion: 43 Resp: 44913

Ion Ratio Lower Upper

43 100

72 26.5 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU034550.D (-980) (-)

Ion 72.00 (71.70 to 72.70): VU034550.D (-980) (-)

4.24

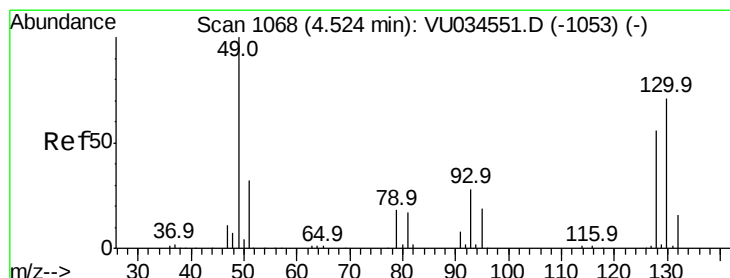
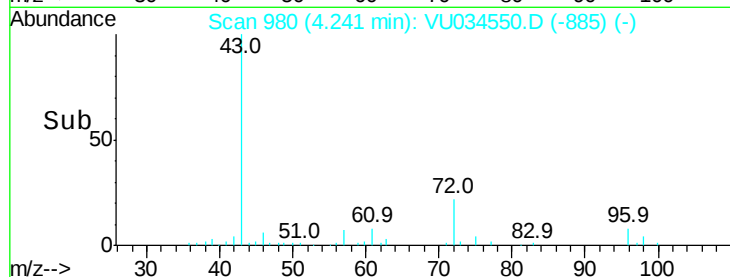
15000

10000

5000

0

Time--> 4.15 4.20 4.25 4.30 4.35



#23

Bromochloromethane

Concen: 7.613 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Tgt Ion: 128 Resp: 12796

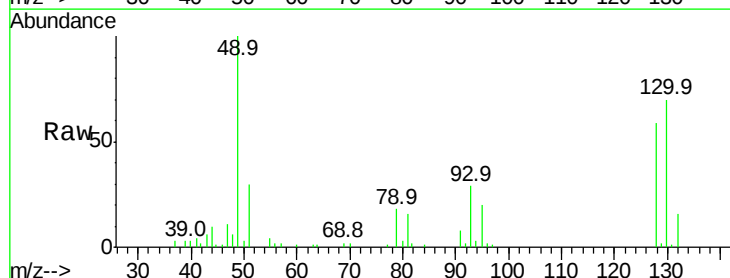
Ion Ratio Lower Upper

128 100

49 169.7 125.6 233.3

130 118.3 89.8 166.8

51 50.8 46.0 69.0



Abundance Ion 128.00 (127.70 to 128.70): VU034550.D (-1070) (-)

Ion 49.00 (48.70 to 49.70): VU034550.D (-1070) (-)

Ion 130.00 (129.70 to 130.70): VU034550.D (-1070) (-)

Ion 51.00 (50.70 to 51.70): VU034550.D (-1070) (-)

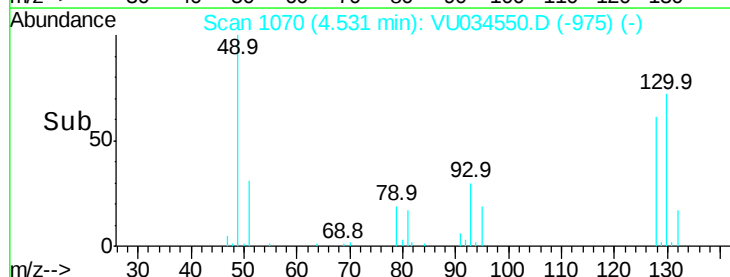
15000

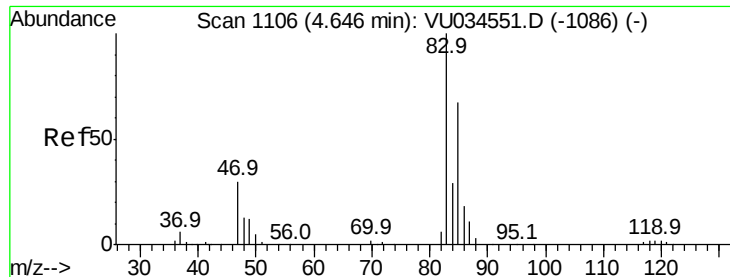
10000

5000

0

Time--> 4.45 4.50 4.55 4.60

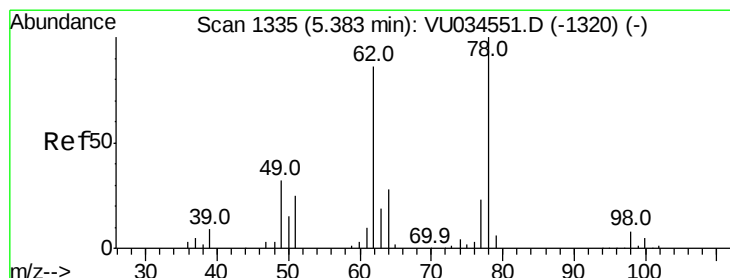
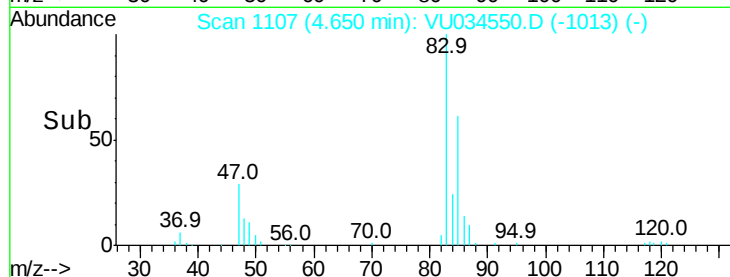
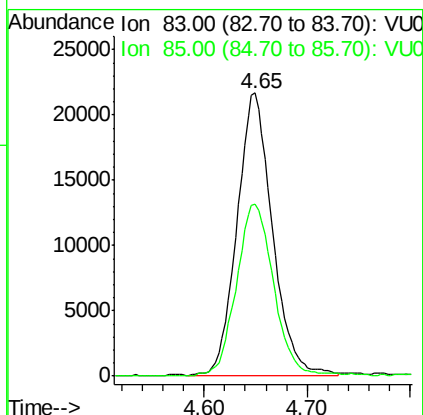
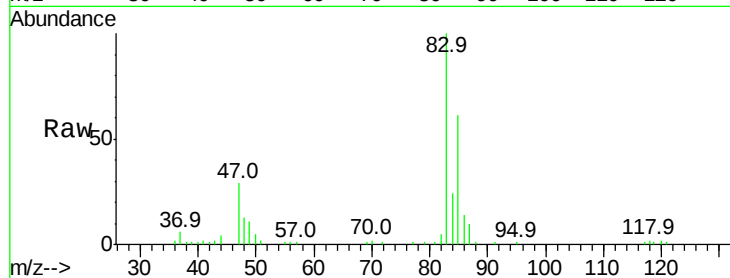




#25
Chloroform
Concen: 8.898 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

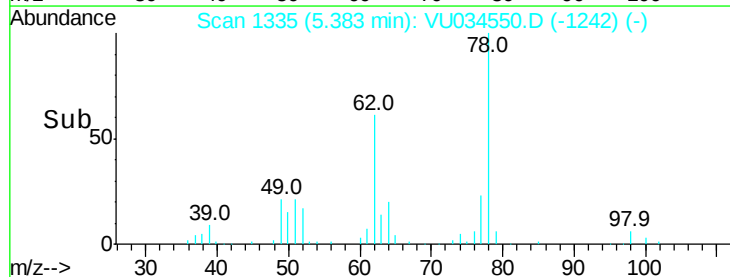
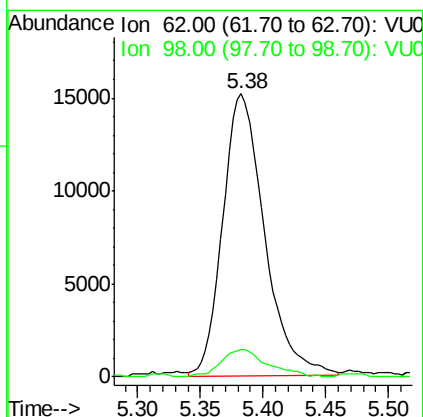
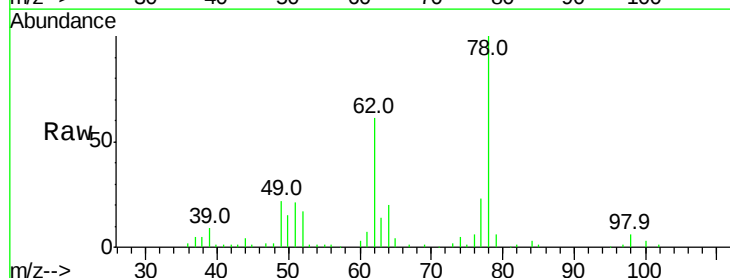
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

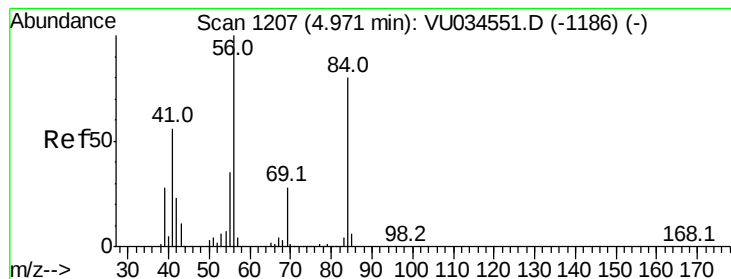
Tgt Ion: 83 Resp: 52147
Ion Ratio Lower Upper
83 100
85 60.8 46.6 86.6



#27
1,2-Dichloroethane
Concen: 7.640 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

Tgt Ion: 62 Resp: 35131
Ion Ratio Lower Upper
62 100
98 9.6 7.4 11.0





#29

Cyclohexane

Concen: 8.856 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

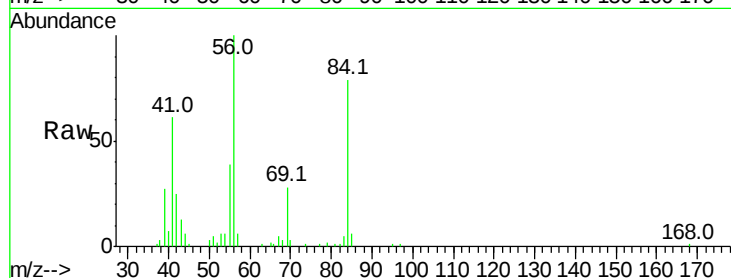
Tgt Ion: 56 Resp: 39567

Ion Ratio Lower Upper

56 100

69 27.9 23.3 34.9

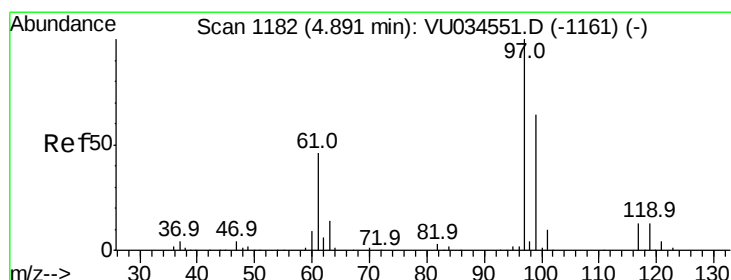
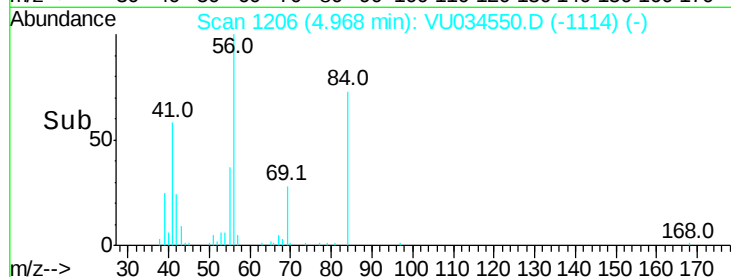
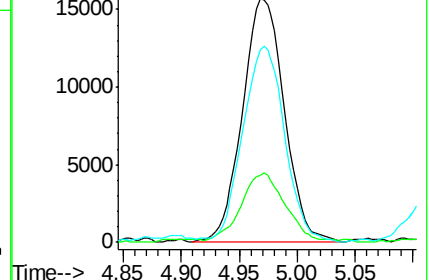
84 80.8 64.2 96.4



Abundance Ion 56.00 (55.70 to 56.70): VU034550.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034550.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034550.D (-1186) (-)



#30

1,1,1-Trichloroethane

Concen: 9.000 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

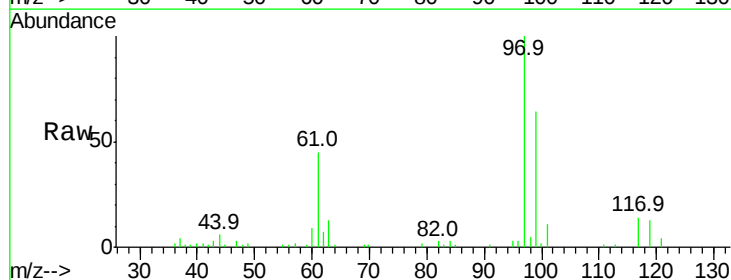
Tgt Ion: 97 Resp: 40135

Ion Ratio Lower Upper

97 100

99 64.2 50.7 76.1

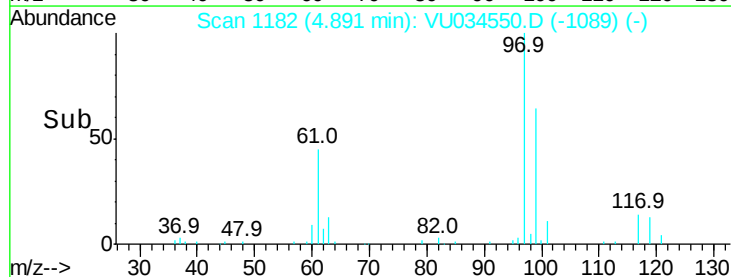
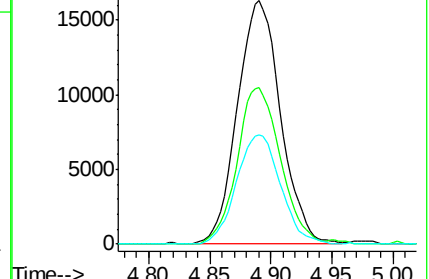
61 45.4 36.9 55.3

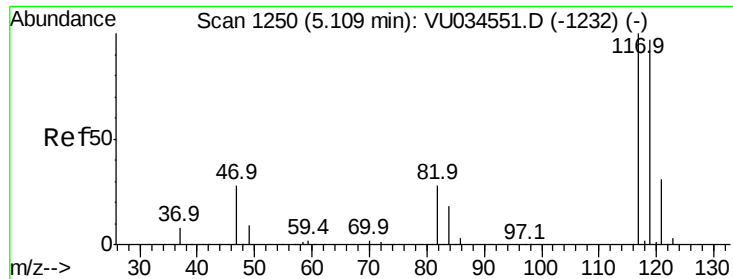


Abundance Ion 97.00 (96.70 to 97.70): VU034550.D (-1186) (-)

Ion 99.00 (98.70 to 99.70): VU034550.D (-1186) (-)

Ion 61.05 (60.75 to 61.75): VU034550.D (-1186) (-)





#31

Carbon tetrachloride

Concen: 8.493 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

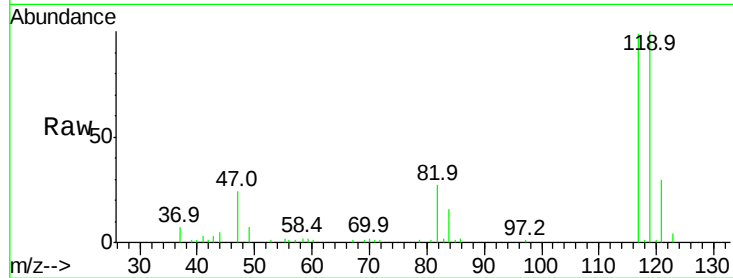
VSTD01031

Tgt Ion:117 Resp: 33621

Ion Ratio Lower Upper

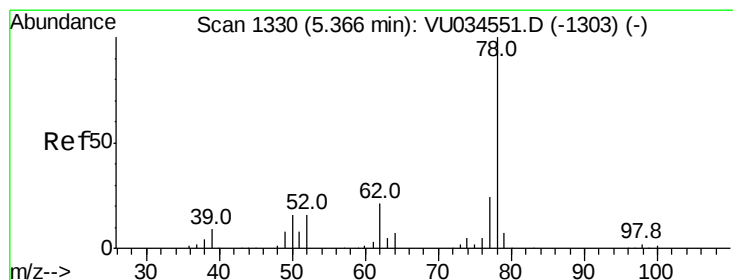
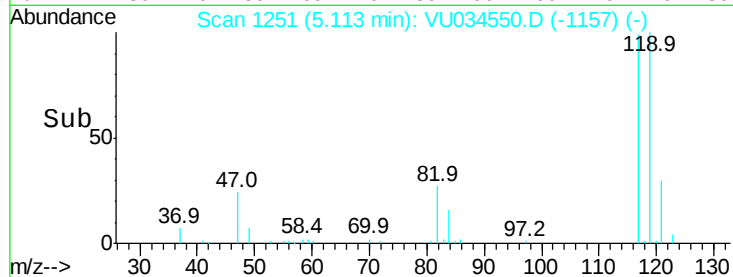
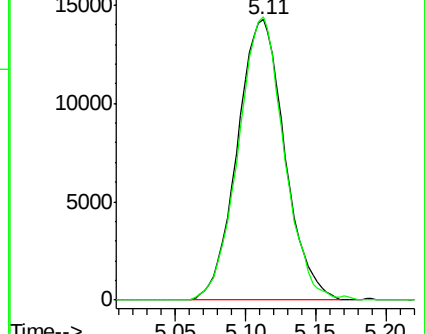
117 100

119 97.1 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 8.676 ug/L

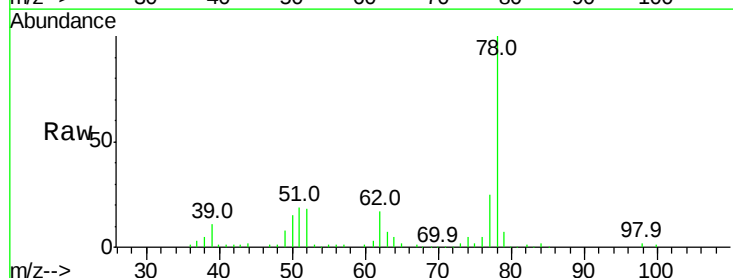
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

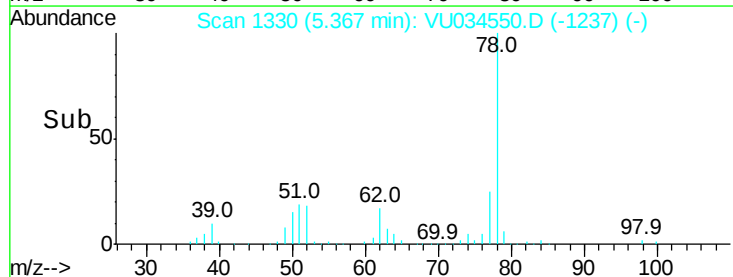
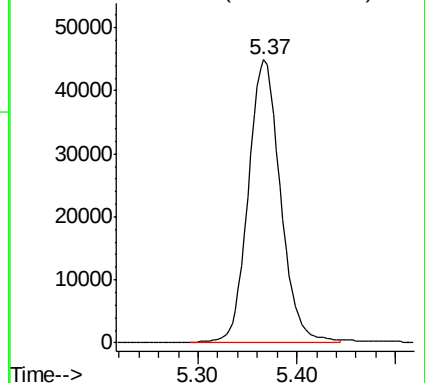
Lab File: VU034550.D

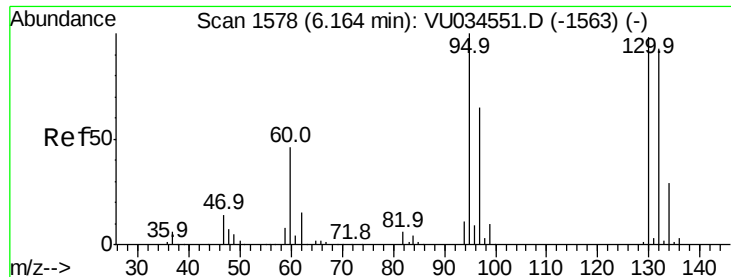
Acq: 16 Sep 2019 11:26

Tgt Ion: 78 Resp: 101591



Abundance Ion 78.00 (77.70 to 78.70): VU0

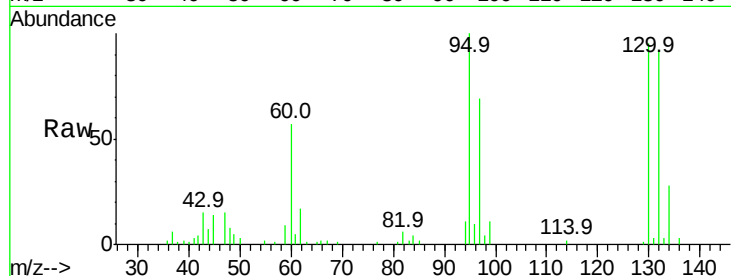




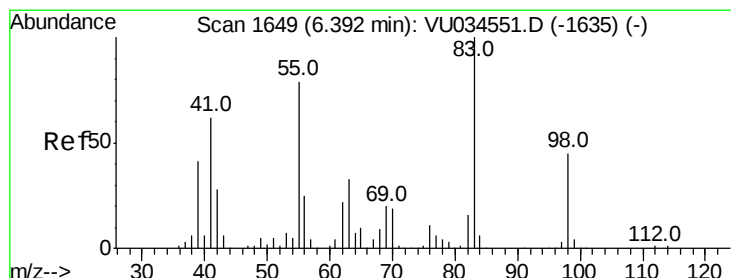
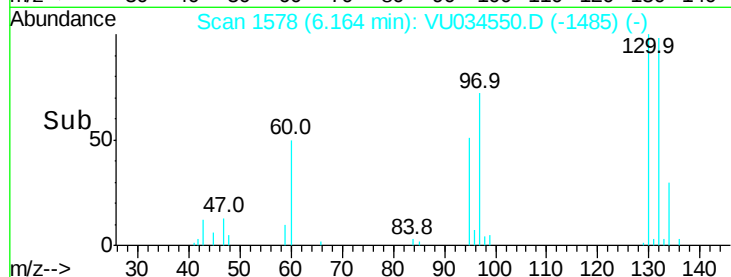
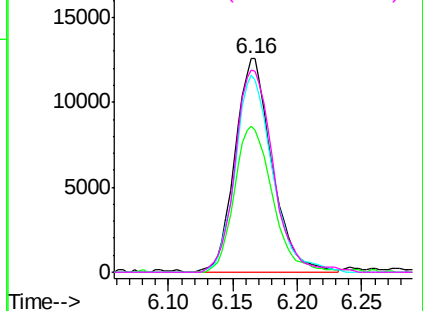
#34
 Trichloroethene
 Concen: 8.277 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tgt Ion:	95	Resp:	25147
Ion	Ratio	Lower	Upper
95	100		
97	68.5	45.4	84.4
132	92.3	65.2	121.0
130	94.6	68.5	127.3

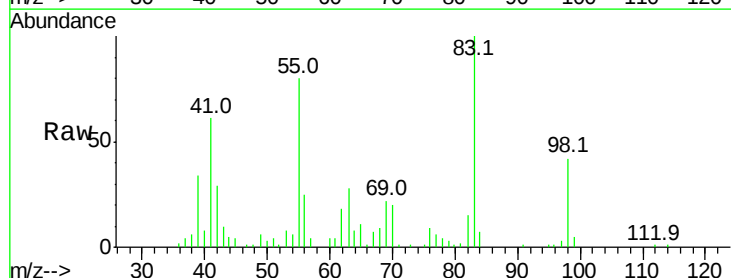


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

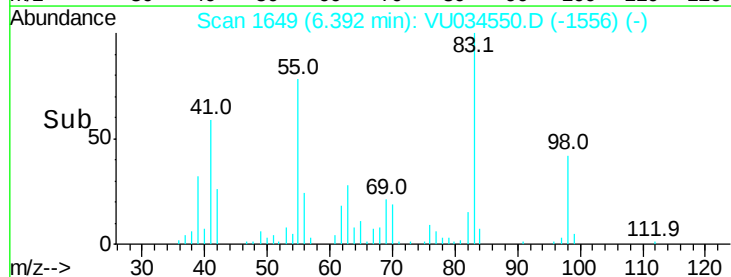
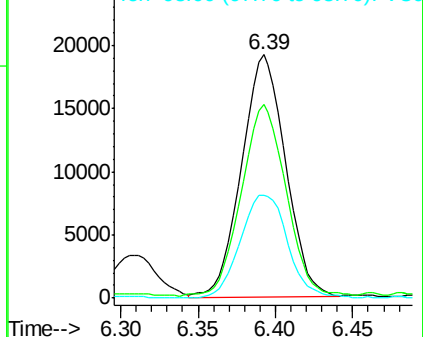


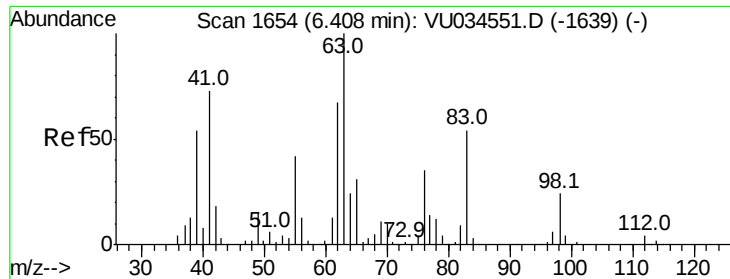
#35
 Methylcyclohexane
 Concen: 8.246 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion:	83	Resp:	37770
Ion	Ratio	Lower	Upper
83	100		
55	80.5	63.0	94.6
98	46.1	36.2	54.2



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

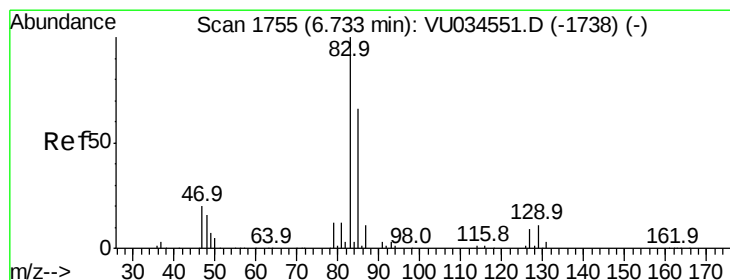
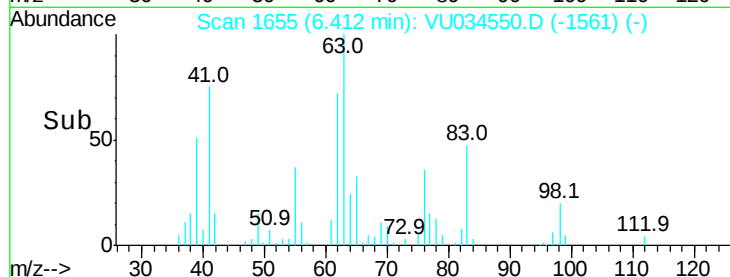
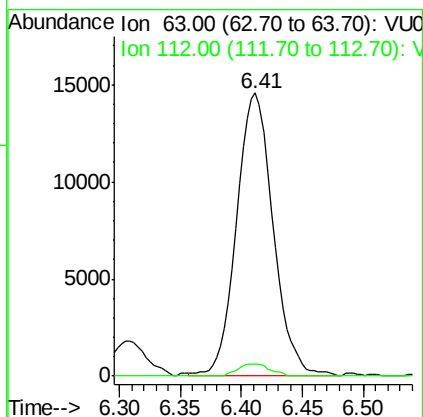
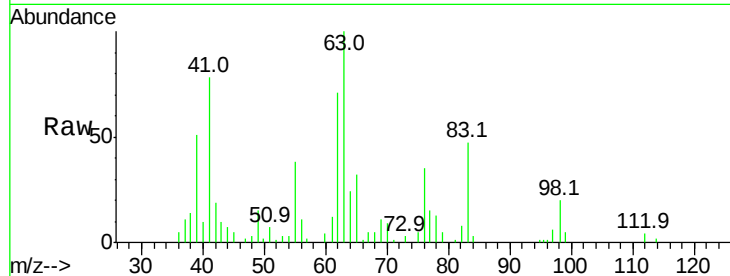




#37
 1,2-Dichloropropane
 Concen: 9.435 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

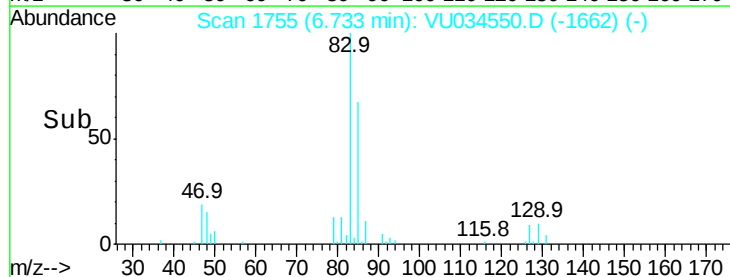
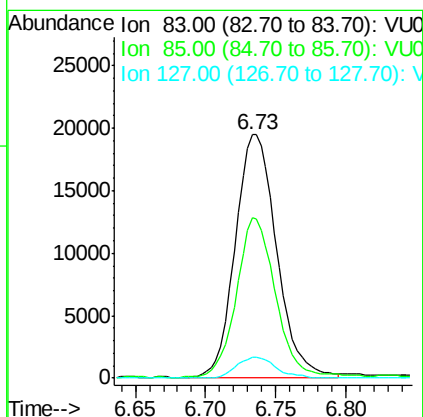
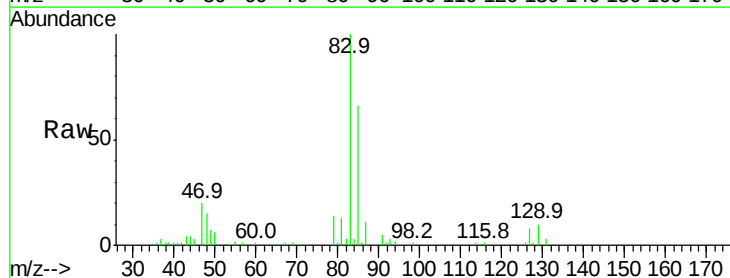
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

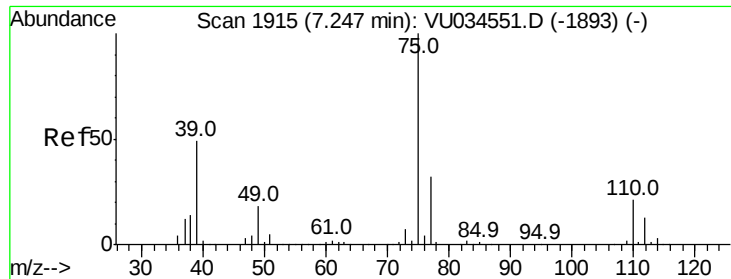
Tgt Ion: 63 Resp: 30223
 Ion Ratio Lower Upper
 63 100
 112 3.7 2.9 4.3



#38
 Bromodichloromethane
 Concen: 9.705 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion: 83 Resp: 40174
 Ion Ratio Lower Upper
 83 100
 85 65.7 46.1 85.7
 127 8.4 7.0 10.6

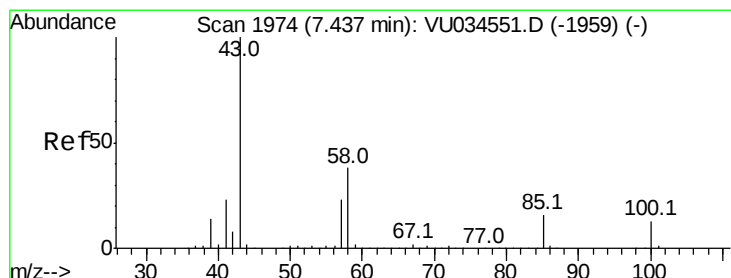
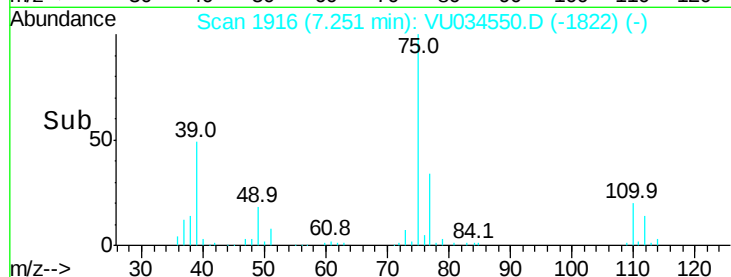
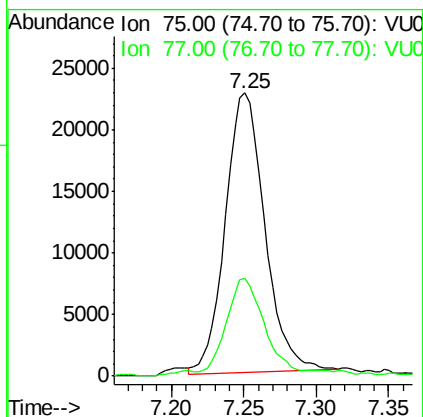
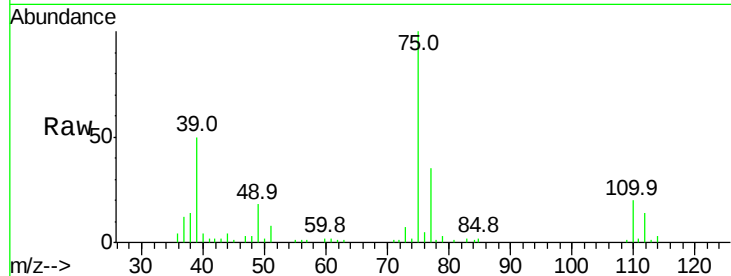




#39
 cis-1,3-Dichloropropene
 Concen: 8.995 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

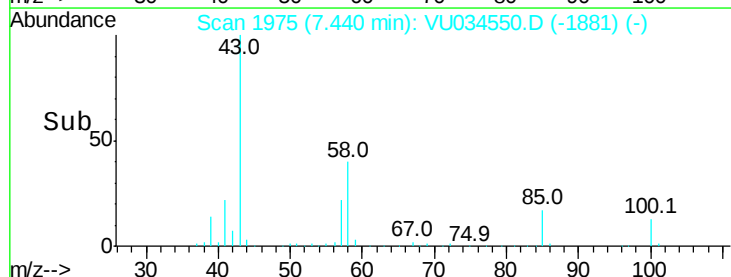
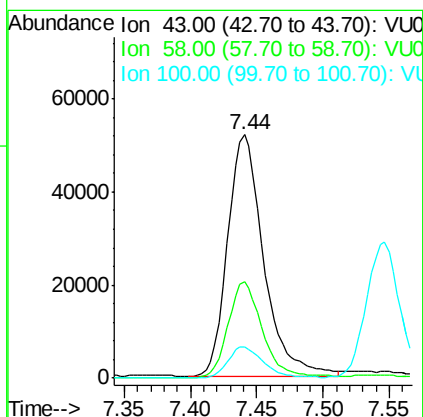
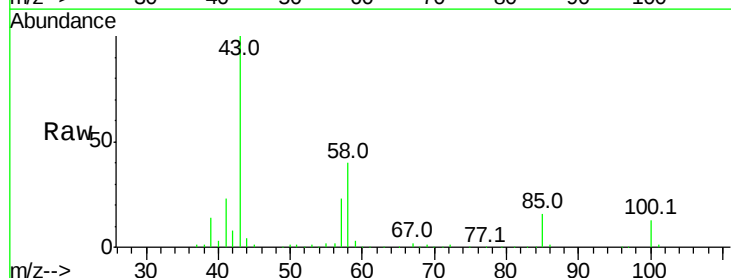
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

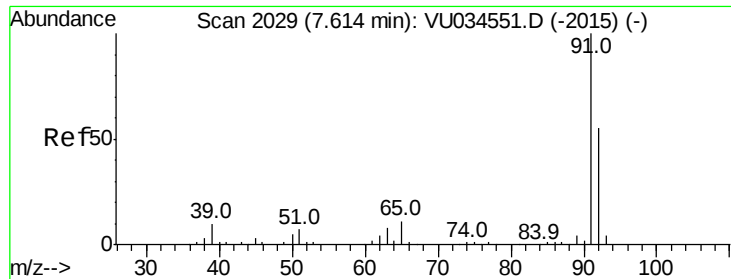
Tgt Ion: 75 Resp: 42827
 Ion Ratio Lower Upper
 75 100
 77 34.5 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 21.516 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion: 43 Resp: 98718
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.4 45.6
 100 12.9 10.2 15.4





#42

Toluene

Concen: 8.904 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

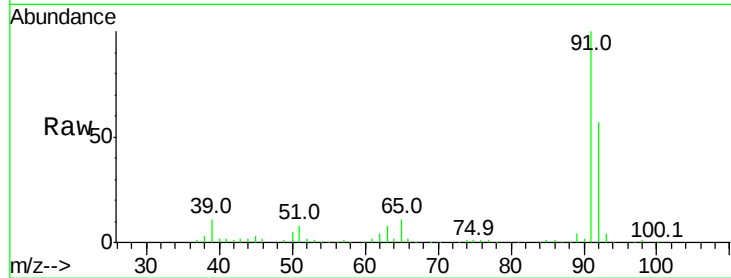
VSTD01031

Tgt Ion: 91 Resp: 107889

Ion Ratio Lower Upper

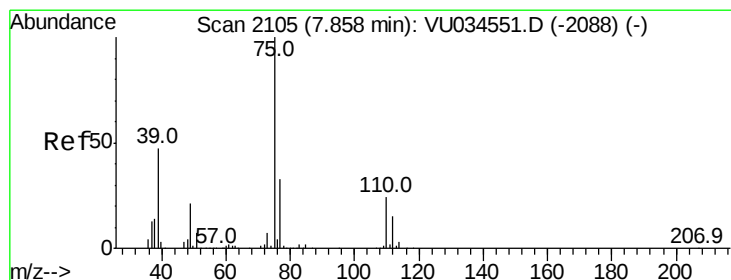
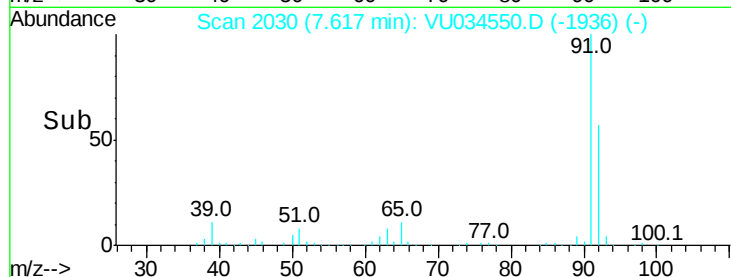
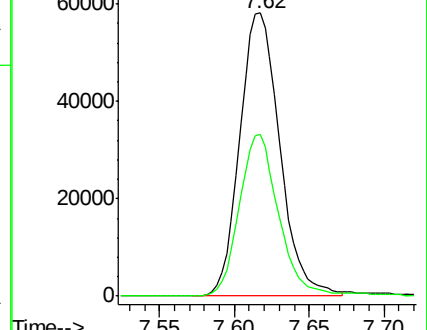
91 100

92 57.4 38.4 71.4



Abundance Ion 91.00 (90.70 to 91.70): VU034550.D (-2030) (-)

Ion 92.00 (91.70 to 92.70): VU034550.D (-2030) (-)



#44

trans-1,3-Dichloropropene

Concen: 9.143 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034550.D

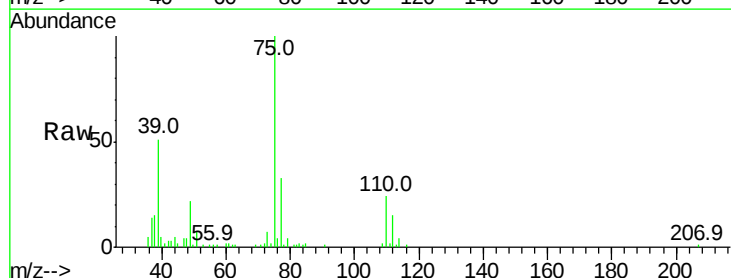
Acq: 16 Sep 2019 11:26

Tgt Ion: 75 Resp: 39230

Ion Ratio Lower Upper

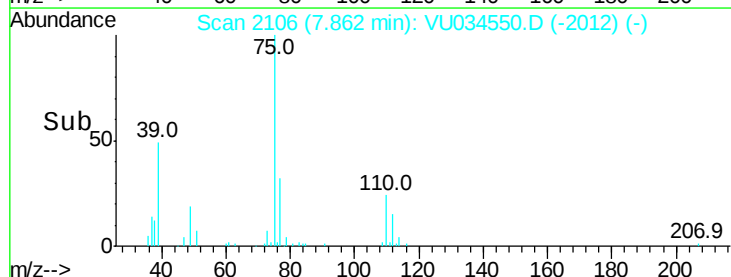
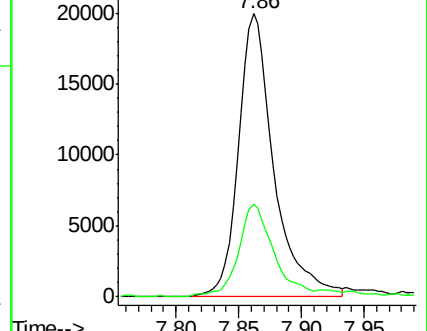
75 100

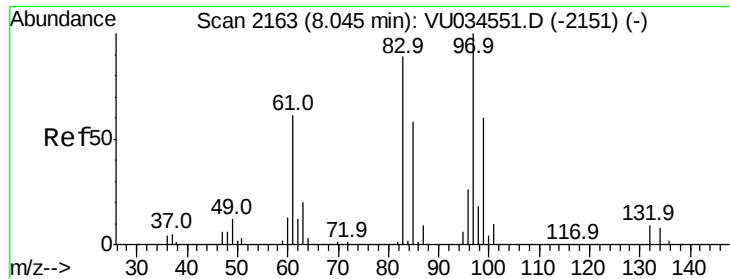
77 32.7 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VU034550.D (-2106) (-)

Ion 77.00 (76.70 to 77.70): VU034550.D (-2106) (-)

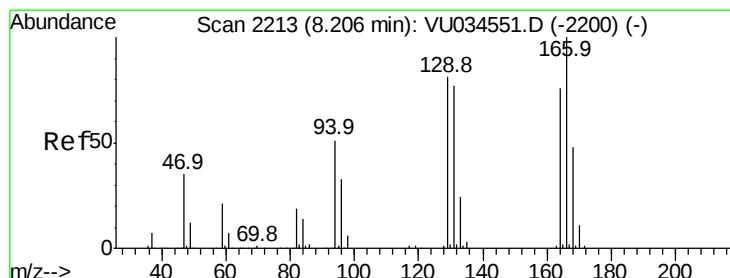
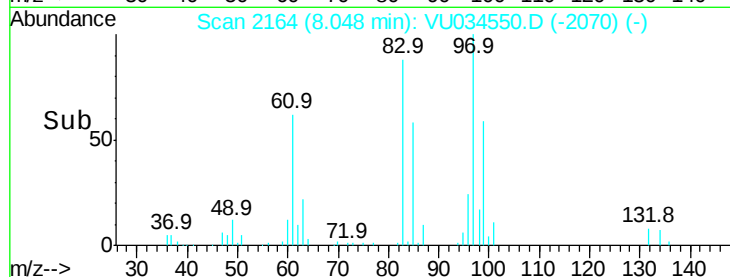
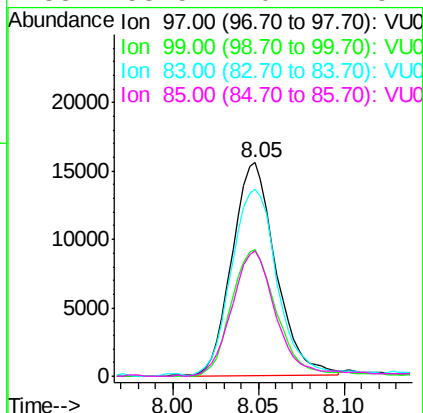
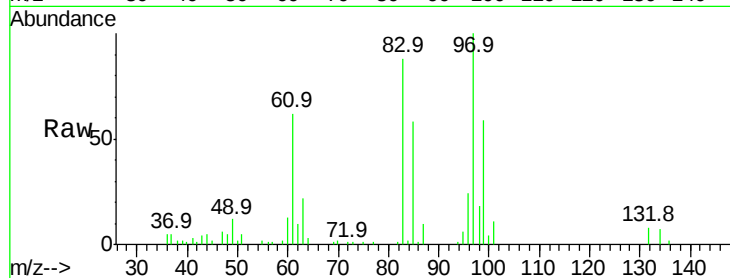




#45
 1,1,2-Trichloroethane
 Concen: 9.376 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

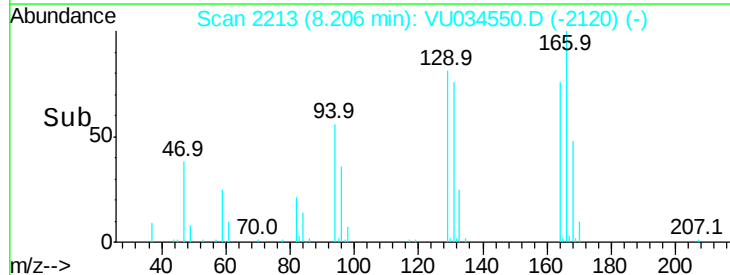
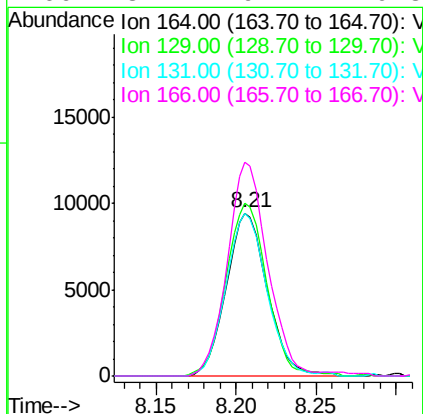
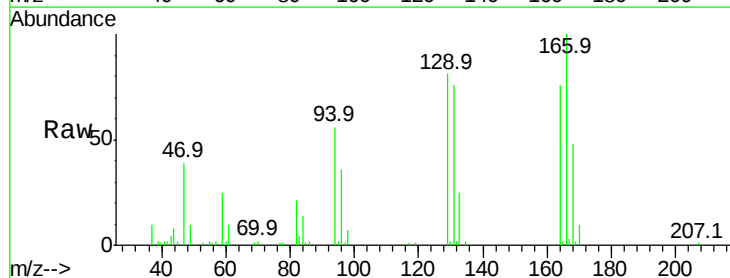
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

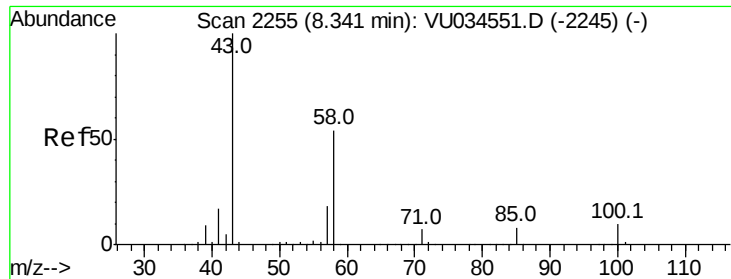
Tgt Ion:	97	Resp:	27557
Ion	Ratio	Lower	Upper
97	100		
99	59.4	42.4	78.8
83	87.5	62.5	116.1
85	58.5	40.7	75.7



#46
 Tetrachloroethene
 Concen: 6.989 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion:	164	Resp:	16501
Ion	Ratio	Lower	Upper
164	100		
129	105.9	74.5	138.3
131	99.7	70.4	130.8
166	131.1	91.7	170.3

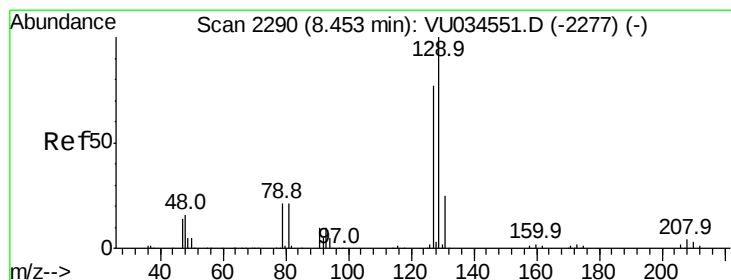
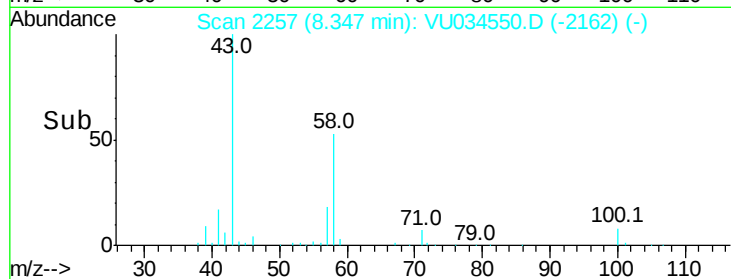
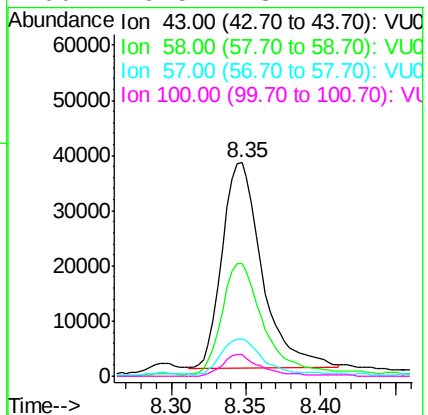
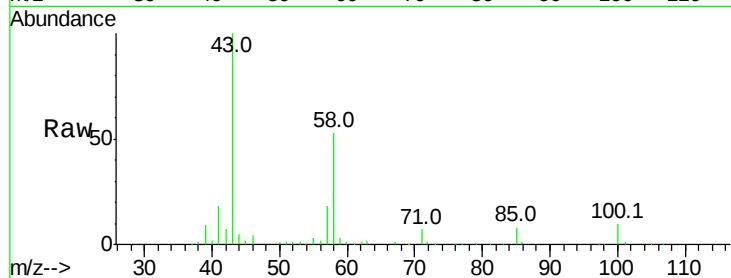




#48
2-Hexanone
Concen: 19.372 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.01 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

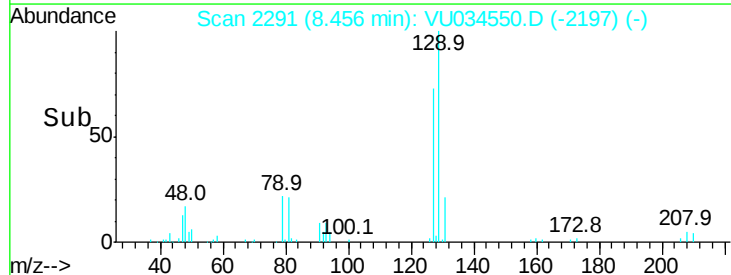
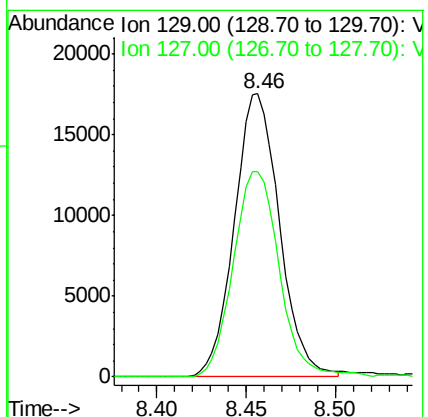
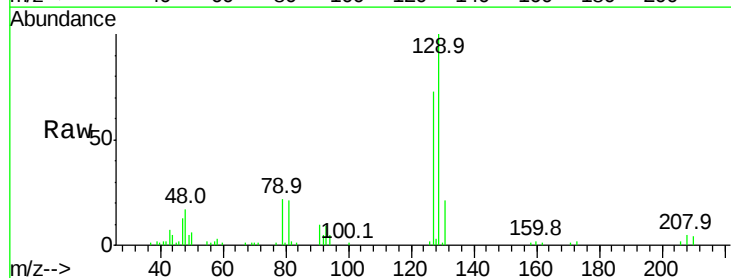
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

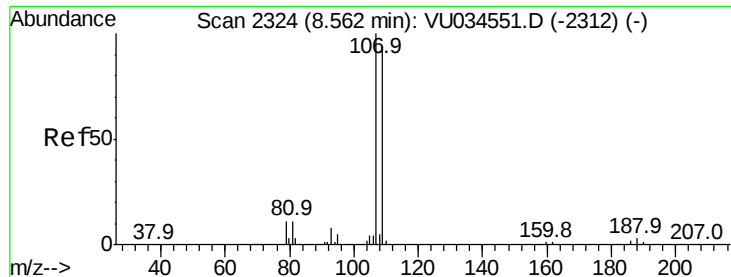
Tgt Ion:	43	Resp:	69014
Ion	Ratio	Lower	Upper
43	100		
58	57.4	43.3	64.9
57	17.3	13.1	19.7
100	10.5	8.2	12.4



#49
Dibromochloromethane
Concen: 9.484 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

Tgt Ion:	129	Resp:	30924
Ion	Ratio	Lower	Upper
129	100		
127	72.6	53.5	99.5

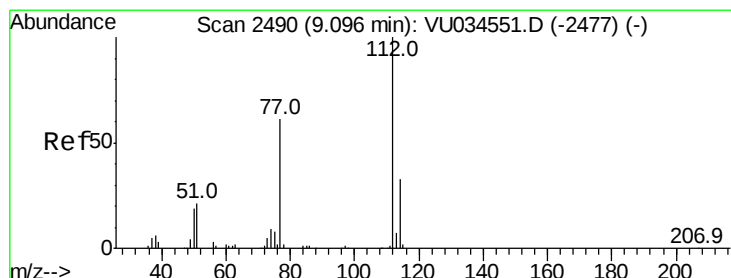
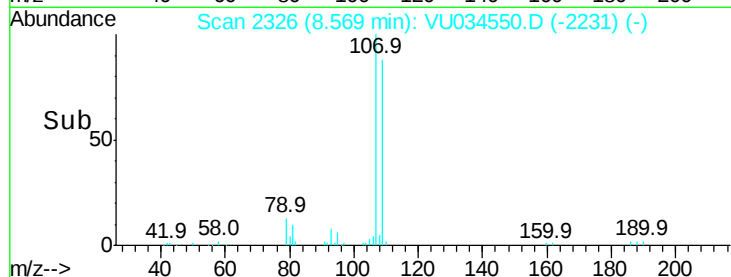
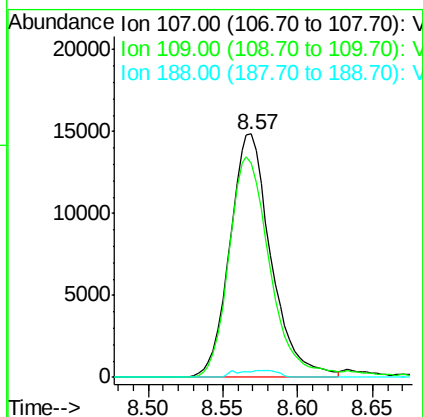
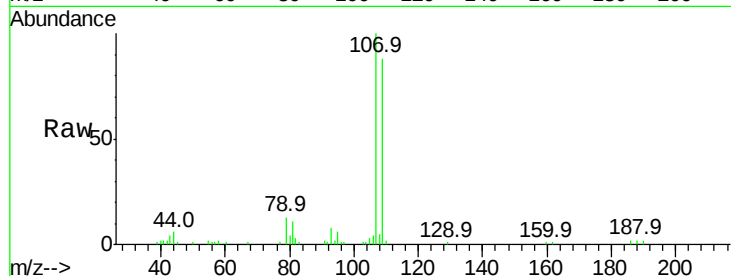




#50
 1,2-Dibromoethane
 Concen: 9.096 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.01 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

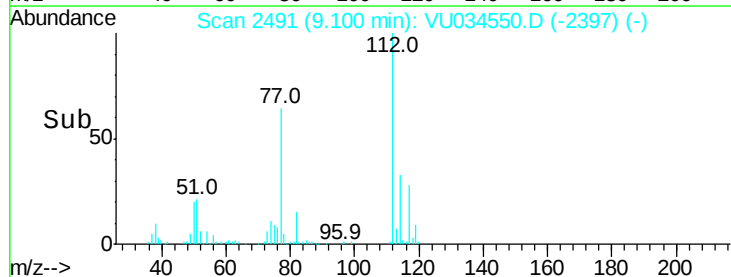
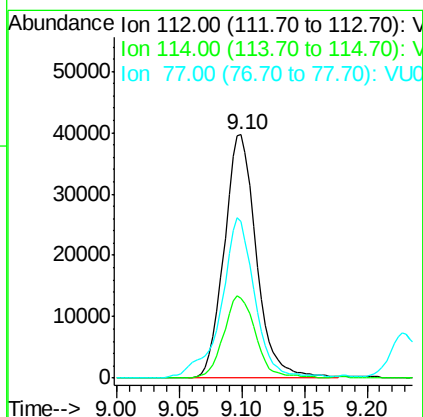
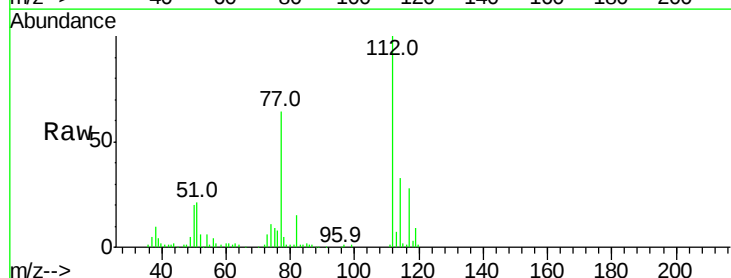
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

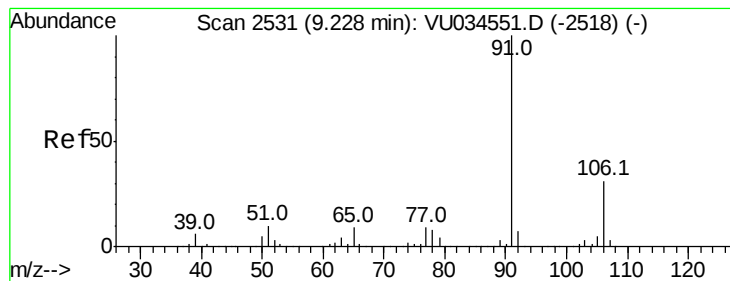
Tgt Ion:107 Resp: 28509
 Ion Ratio Lower Upper
 107 100
 109 87.8 65.9 122.3
 188 2.4 2.6 3.8#



#51
 Chlorobenzene
 Concen: 8.848 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion:112 Resp: 70908
 Ion Ratio Lower Upper
 112 100
 114 32.7 23.0 42.8
 77 64.2 49.0 73.6





#52

Ethylbenzene

Concen: 9.728 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

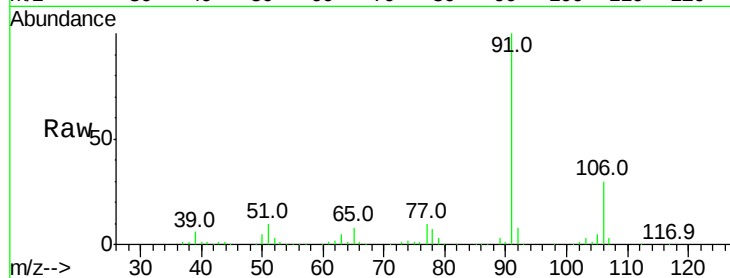
VSTD01031

Tgt Ion: 91 Resp: 127320

Ion Ratio Lower Upper

91 100

106 30.4 21.4 39.8



Abundance Ion 91.00 (90.70 to 91.70): VU034550.D (-2438) (-)

Ion 106.00 (105.70 to 106.70): VU034550.D (-2438) (-)

9.23

80000

60000

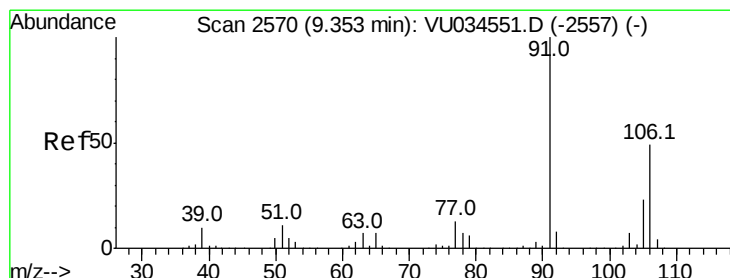
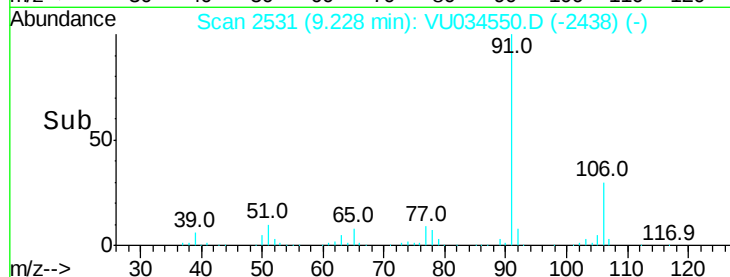
40000

20000

0

9.15 9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 9.420 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034550.D

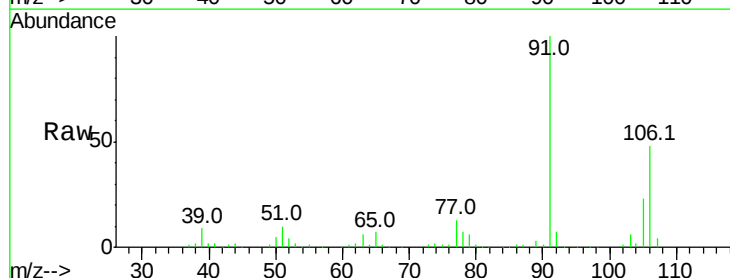
Acq: 16 Sep 2019 11:26

Tgt Ion: 106 Resp: 45431

Ion Ratio Lower Upper

106 100

91 210.1 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): VU034550.D (-2477) (-)

Ion 91.00 (90.70 to 91.70): VU034550.D (-2477) (-)

9.35

60000

50000

40000

30000

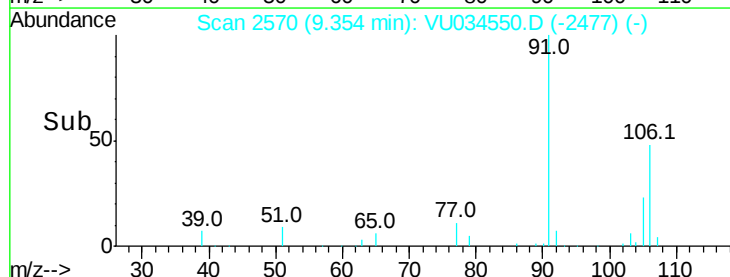
20000

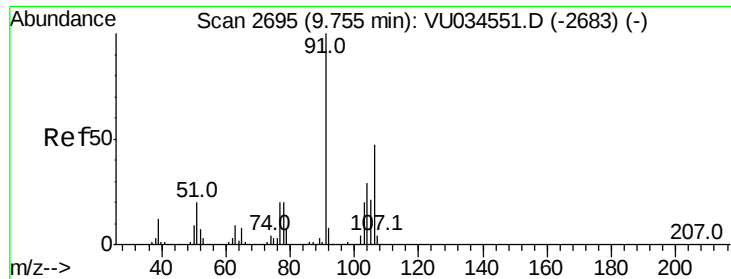
10000

0

9.30 9.35 9.40

Time-->

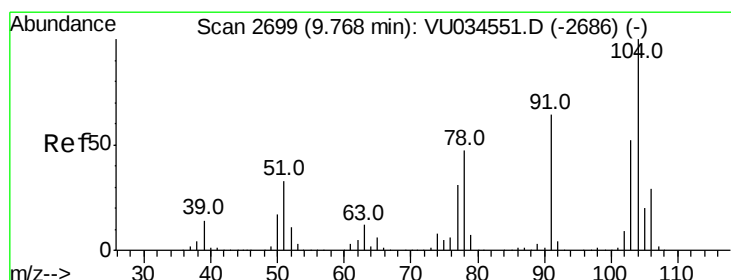
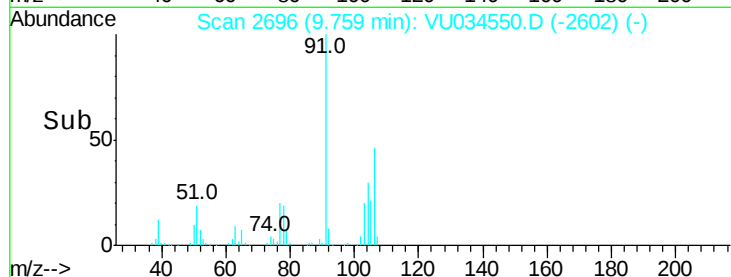
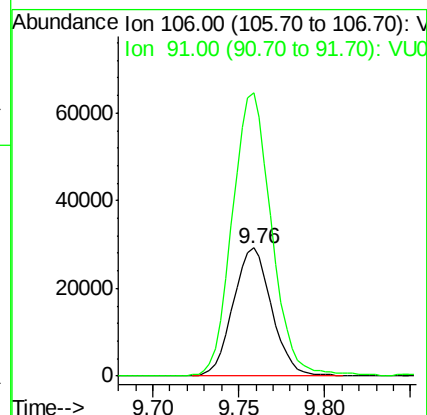
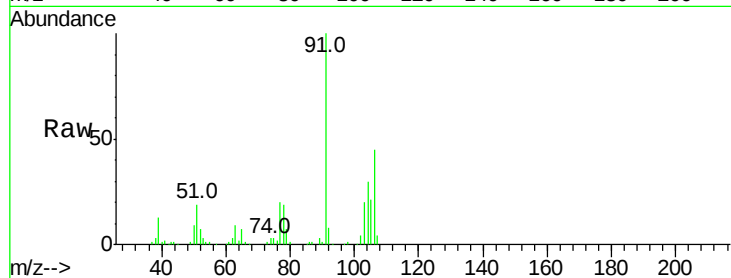




#54
o-xylene
Concen: 9.597 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

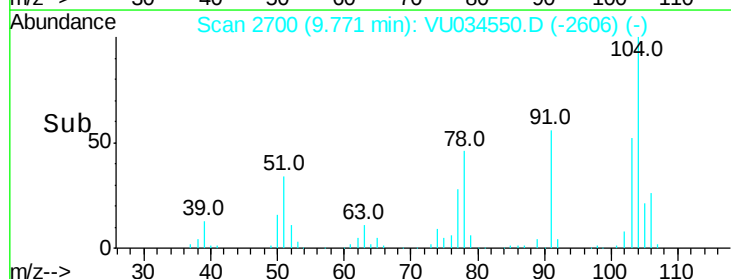
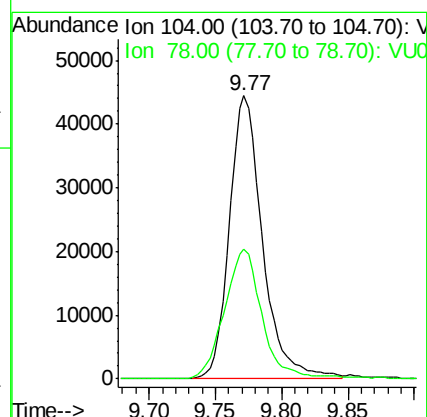
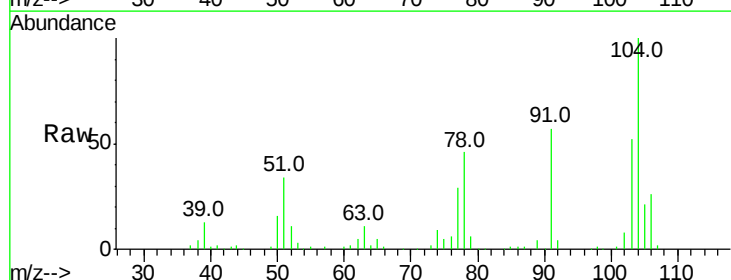
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

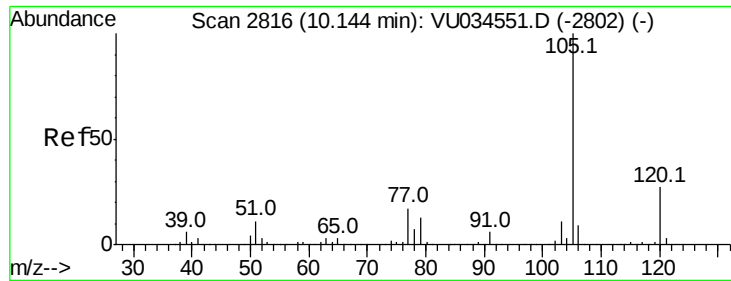
Tgt Ion:106 Resp: 45622
Ion Ratio Lower Upper
106 100
91 220.5 149.4 277.5



#55
Styrene
Concen: 9.553 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VU034550.D
Acq: 16 Sep 2019 11:26

Tgt Ion:104 Resp: 77325
Ion Ratio Lower Upper
104 100
78 45.9 32.8 61.0





#56

Isopropylbenzene

Concen: 9.893 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

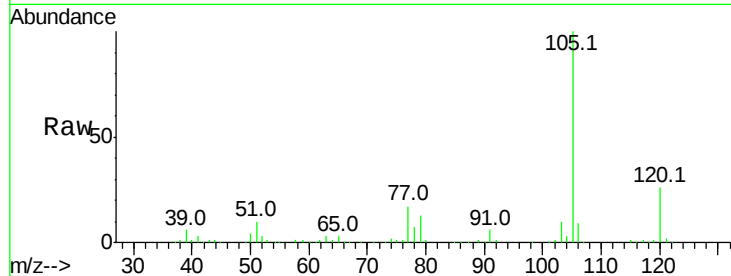
Tgt Ion: 105 Resp: 122212

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

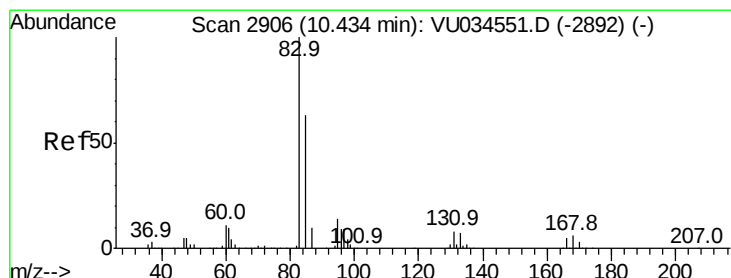
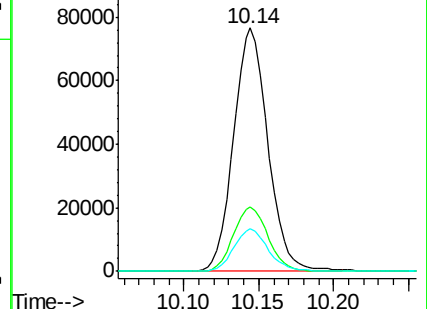
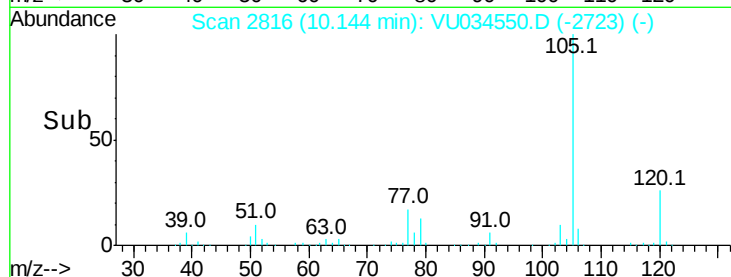
77 17.3 13.5 20.3



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: 10.379 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

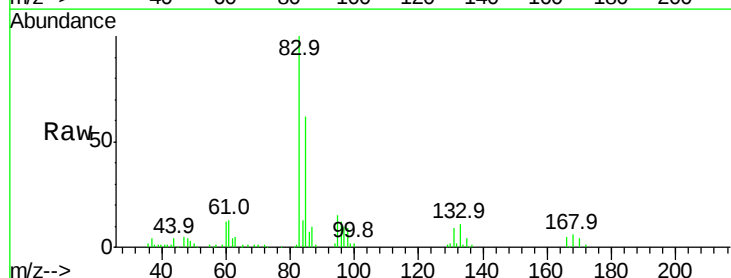
Tgt Ion: 83 Resp: 52872

Ion Ratio Lower Upper

83 100

85 62.3 44.5 82.7

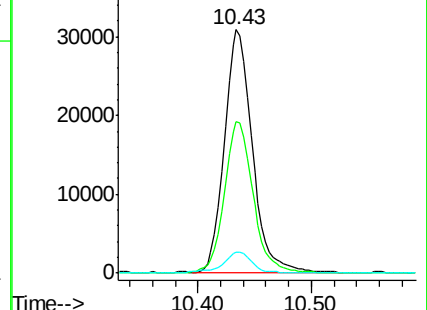
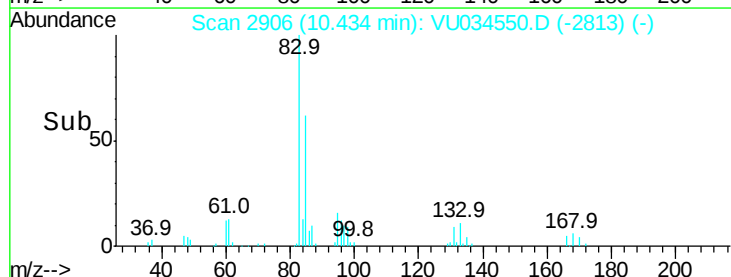
131 8.8 6.8 10.2

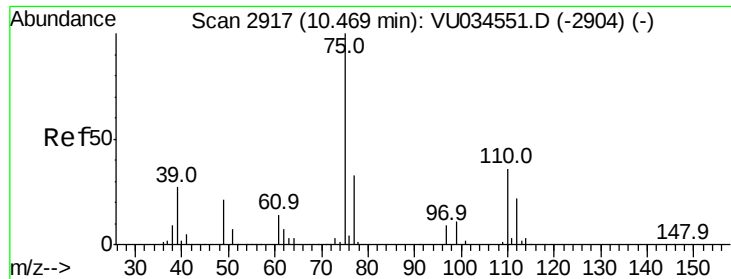


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

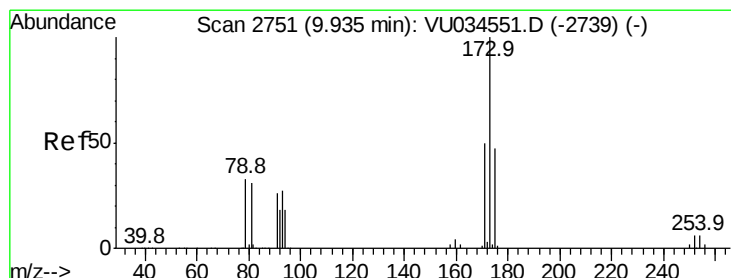
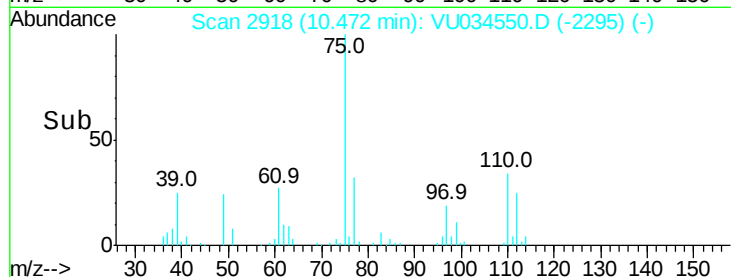
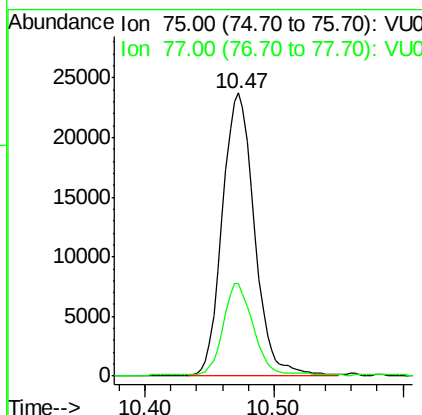
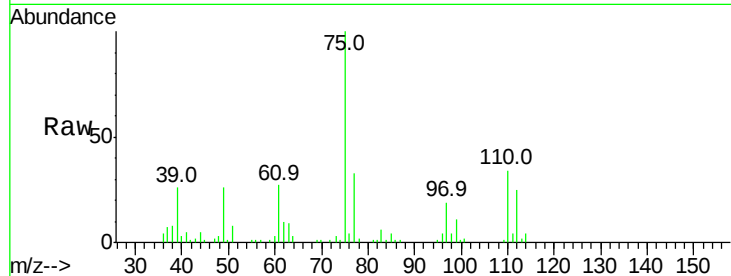




#59
 1,2,3-Trichloropropane
 Concen: 10.047 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

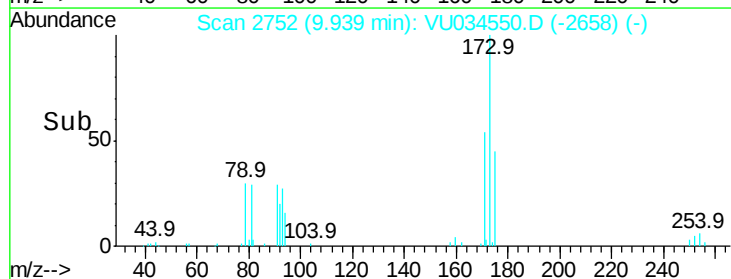
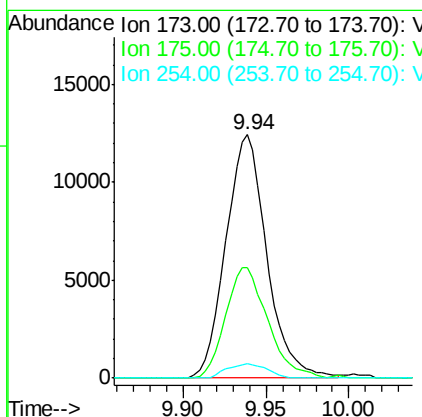
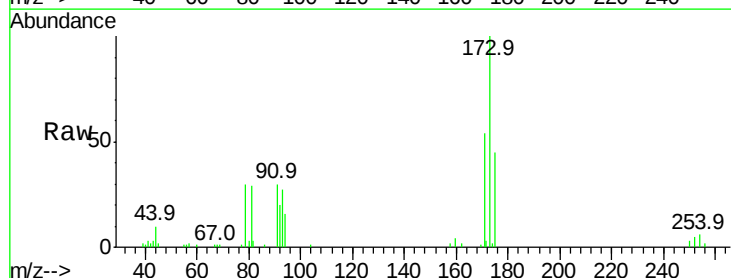
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

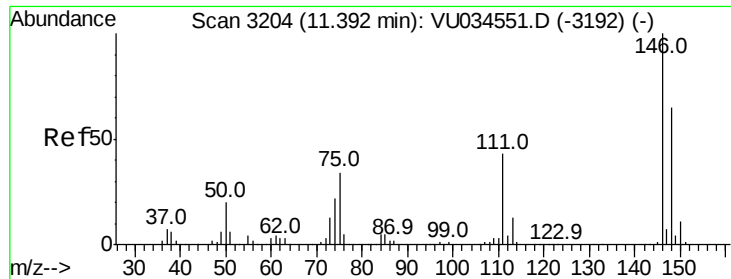
Tgt Ion: 75 Resp: 41133
 Ion Ratio Lower Upper
 75 100
 77 30.6 26.1 39.1



#61
 Bromoform
 Concen: 9.736 ug/L
 RT: 9.94 min Scan# 2752
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion: 173 Resp: 21308
 Ion Ratio Lower Upper
 173 100
 175 46.5 37.6 56.4
 254 5.7 4.6 7.0

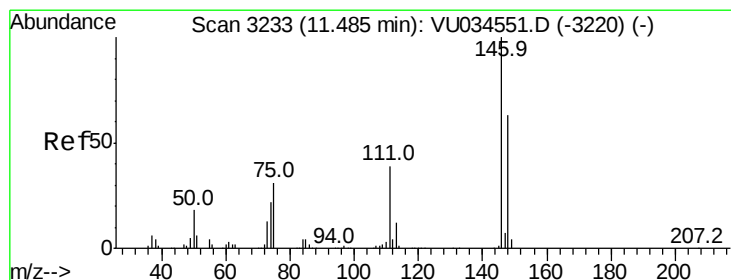
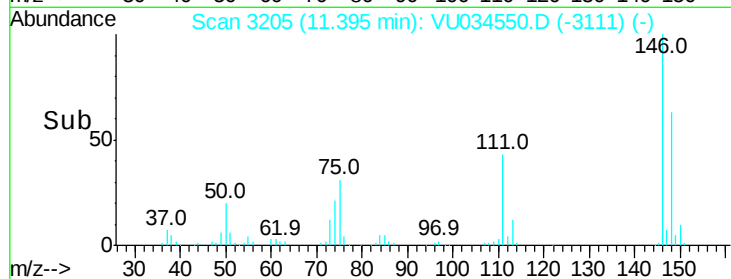
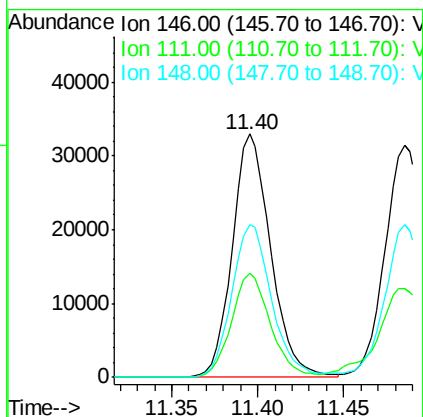
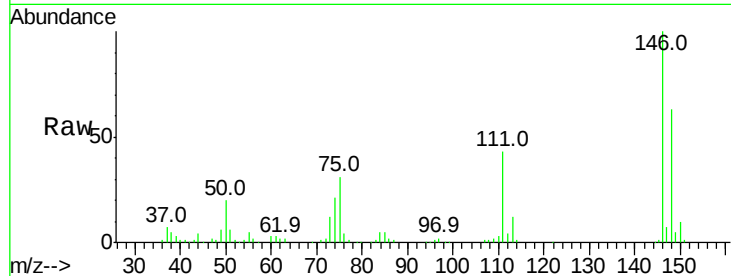




#62
 1,3-Dichlorobenzene
 Concen: 9.427 ug/L
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

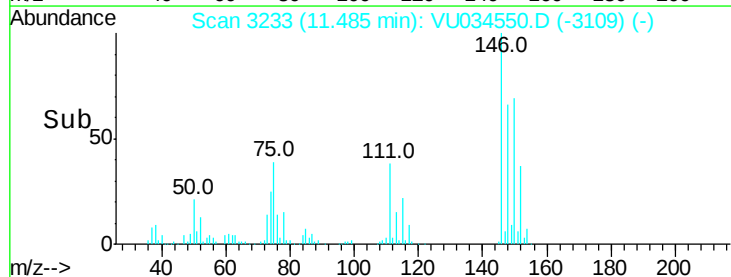
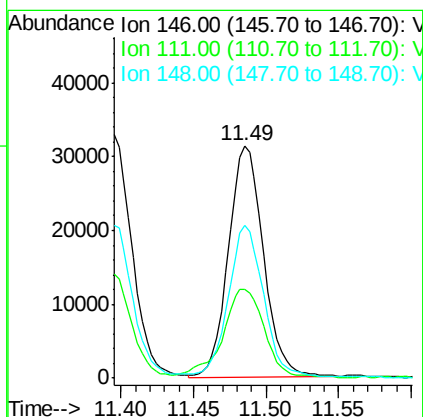
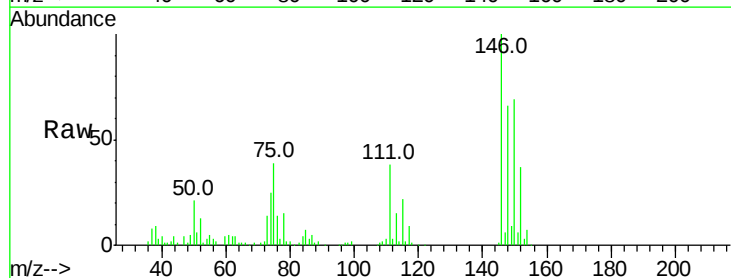
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

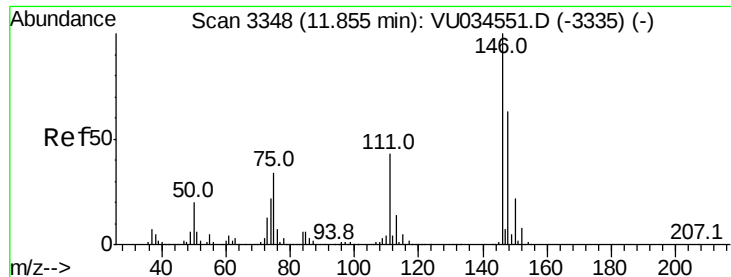
Tgt Ion:146 Resp: 51374
 Ion Ratio Lower Upper
 146 100
 111 42.6 30.2 56.0
 148 63.0 45.5 84.5



#63
 1,4-Dichlorobenzene
 Concen: 9.313 ug/L
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion:146 Resp: 52592
 Ion Ratio Lower Upper
 146 100
 111 38.3 27.6 51.2
 148 65.9 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 9.693 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

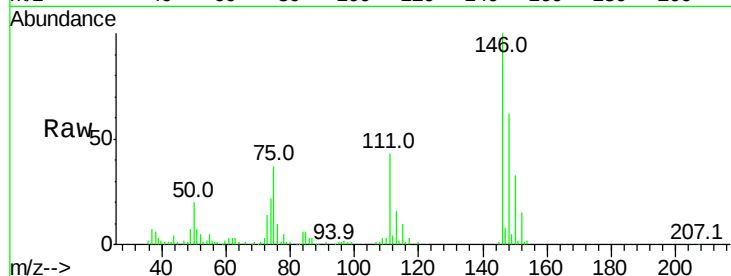
Tgt Ion:146 Resp: 52702

Ion Ratio Lower Upper

146 100

111 43.2 34.5 51.7

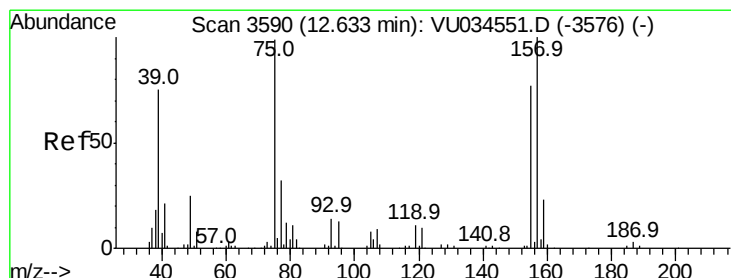
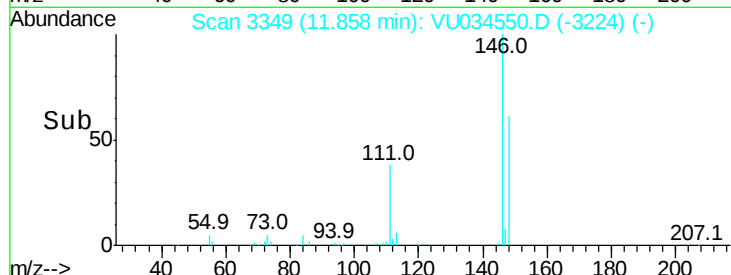
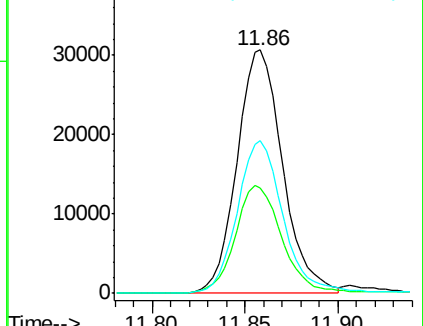
148 62.5 50.7 76.1



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: 11.700 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

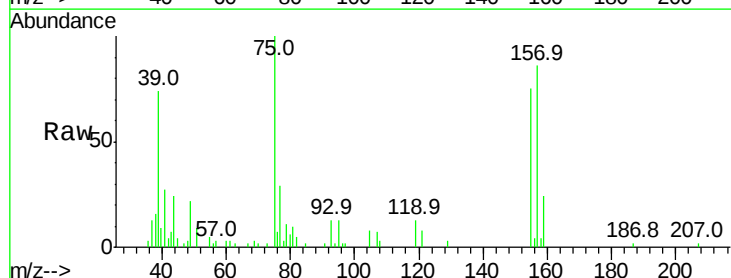
Tgt Ion: 75 Resp: 11667

Ion Ratio Lower Upper

75 100

155 74.7 61.8 92.6

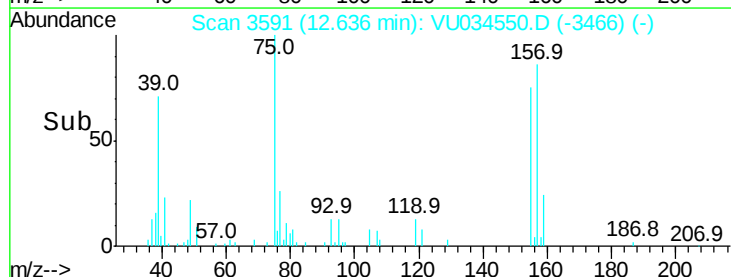
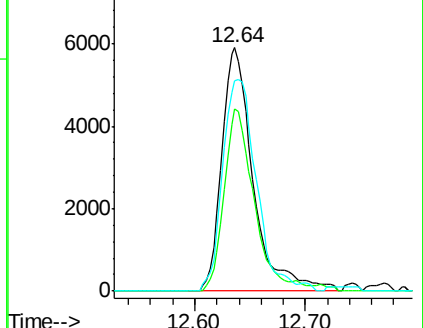
157 86.2 80.5 120.7

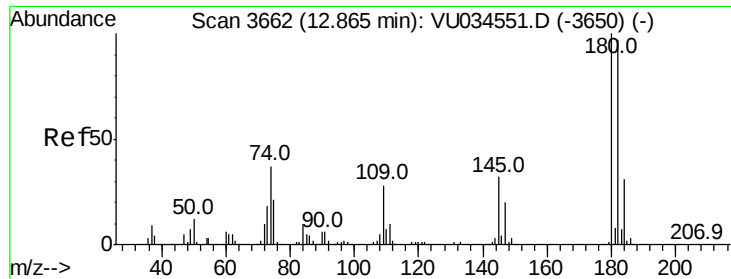


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

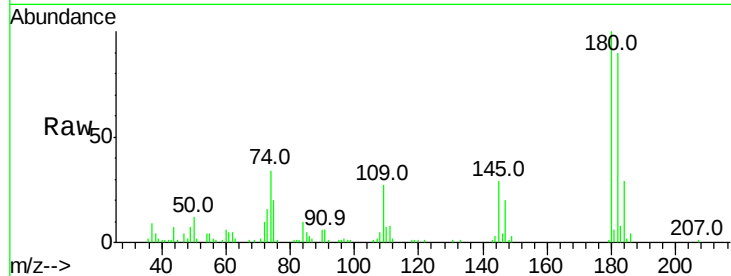




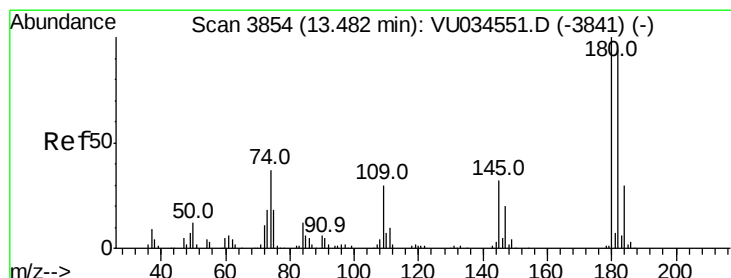
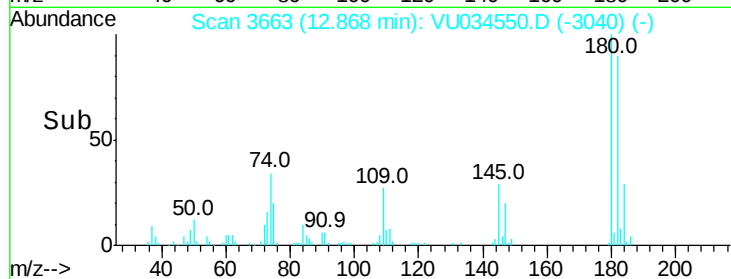
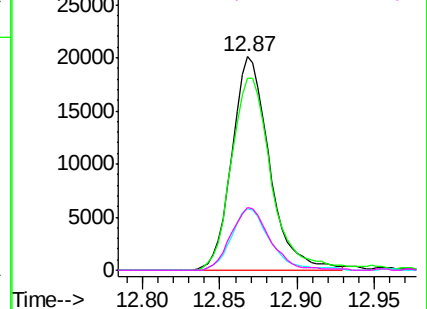
#67
 1,3,5-Trichlorobenzene
 Concen: 8.063 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tgt Ion:180 Resp: 33776
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.9 116.9
 184 29.1 24.2 36.4
 145 30.1 25.8 38.6

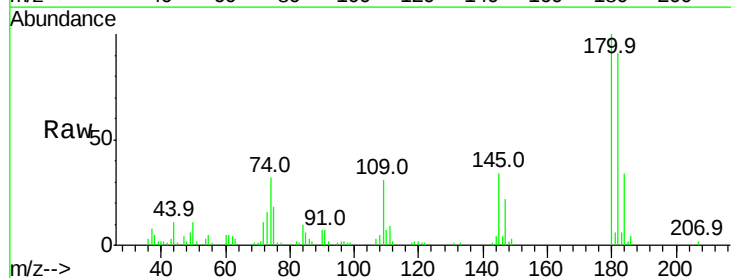


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

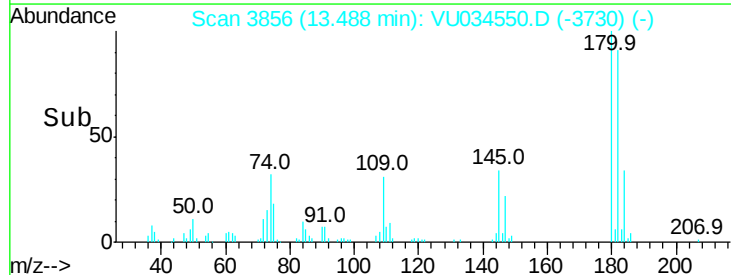
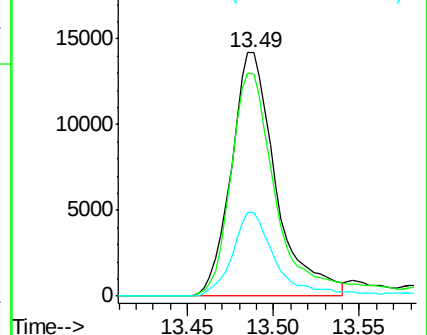


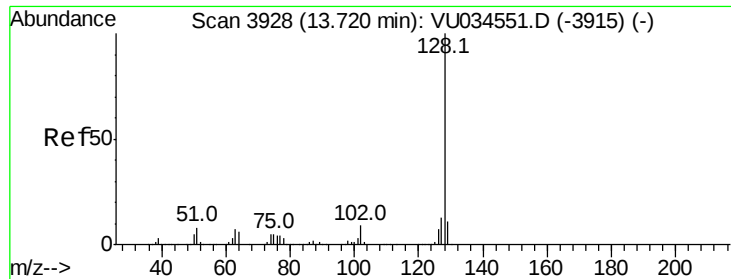
#68
 1,2,4-trichlorobenzene
 Concen: 7.495 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.01 min
 Lab File: VU034550.D
 Acq: 16 Sep 2019 11:26

Tgt Ion:180 Resp: 25742
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.7 113.5
 145 33.5 25.9 38.9



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: 8.545 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.01 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

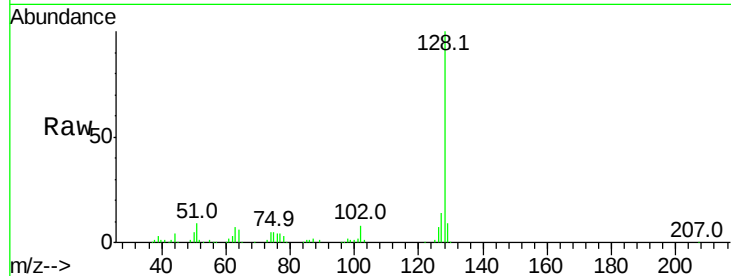
Tgt Ion:128 Resp: 87633

Ion Ratio Lower Upper

128 100

127 12.1 10.0 15.0

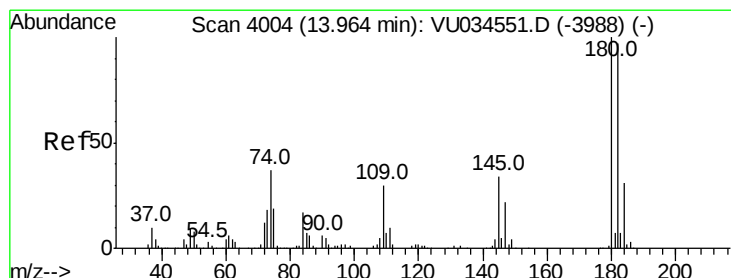
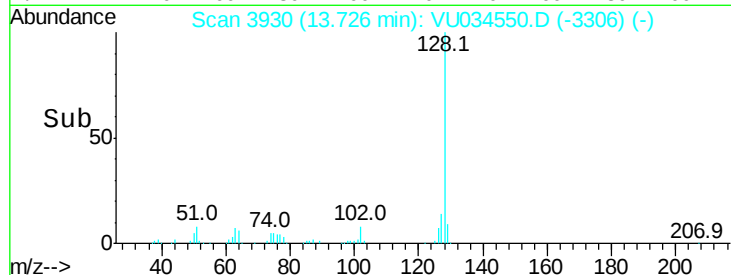
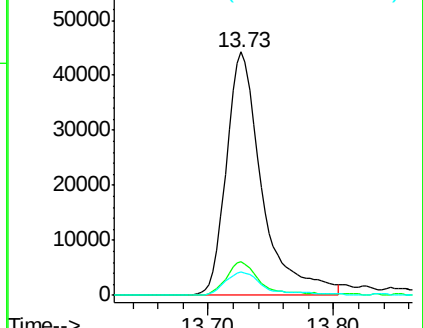
129 9.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 7.478 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034550.D

Acq: 16 Sep 2019 11:26

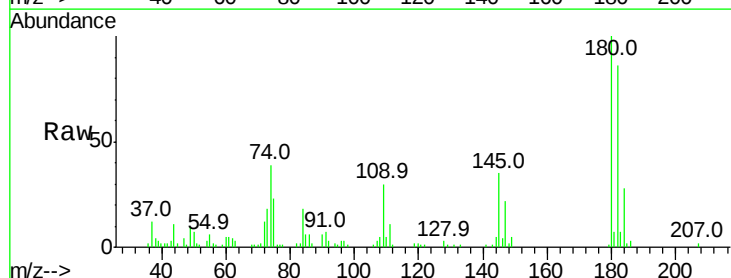
Tgt Ion:180 Resp: 27144

Ion Ratio Lower Upper

180 100

182 93.7 77.1 115.7

145 33.5 27.4 41.0



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

