

Data File : VU034553.D
Acq On : 16 Sep 2019 12:36
Operator : JC/SP
Sample : VSTD200
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

Quant Time: Sep 16 12:56:24 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	348487	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	339944	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	165565	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	344544	112.74	ug/L	0.00
7) Chloroethane-d5	1.65	69	256116	105.65	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.25	63	711797	129.12	ug/L	0.00
21) 2-Butanone-d5	4.14	46	906386	440.74	ug/L	0.00
24) Chloroform-d	4.62	84	815831	163.98	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	483621	150.41	ug/L	0.00
32) Benzene-d6	5.32	84	1503810	155.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	567044	180.96	ug/L	0.00
41) Toluene-d8	7.54	98	1470503	168.51	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	286478	198.10	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	694112	532.67	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	927514	207.86	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	602680	178.38	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	450056	139.503	ug/L	100
3) Chloromethane	1.32	50	464691	149.905	ug/L	98
5) Vinyl chloride	1.40	62	455252	125.029	ug/L	98
6) Bromomethane	1.59	94	198851	140.953	ug/L	95
8) Chloroethane	1.67	64	250220	114.551	ug/L	100
9) Trichlorofluoromethane	1.87	101	636296	149.010	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	372456	152.547	ug/L	100
12) 1,1-Dichloroethene	2.26	96	340313	144.793	ug/L	91
13) Acetone	2.31	43	692700	368.788	ug/L	100
14) Carbon disulfide	2.46	76	859783	113.743	ug/L	100
15) Methyl Acetate	2.59	43	623690	190.669	ug/L	98
16) Methylene chloride	2.68	84	460778	162.718	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	378789	150.049	ug/L	98
18) Methyl tert-butyl Ether	2.98	73	1537867	201.256	ug/L	100
19) 1,1-Dichloroethane	3.42	63	840628	167.092	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	488962	175.965	ug/L	97
22) 2-Butanone	4.23	43	1039789	440.608	ug/L	97
23) Bromochloromethane	4.52	128	228955	160.215	ug/L	97
25) Chloroform	4.65	83	857812	172.162	ug/L	99
27) 1,2-Dichloroethane	5.38	62	636703	162.848	ug/L	98
29) Cyclohexane	4.97	56	669427	170.674	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	693678	177.186	ug/L	99
31) Carbon tetrachloride	5.11	117	598659	172.276	ug/L	99
33) Benzene	5.36	78	1762819	171.494	ug/L	100
34) Trichloroethene	6.16	95	442947	166.075	ug/L	99
35) Methylcyclohexane	6.39	83	652958	162.388	ug/L	100
37) 1,2-Dichloropropane	6.41	63	536433	190.753	ug/L	99
38) Bromodichloromethane	6.73	83	703829	193.687	ug/L	100
39) cis-1,3-Dichloropropene	7.24	75	865237	207.002	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	2033987	504.995	ug/L	100

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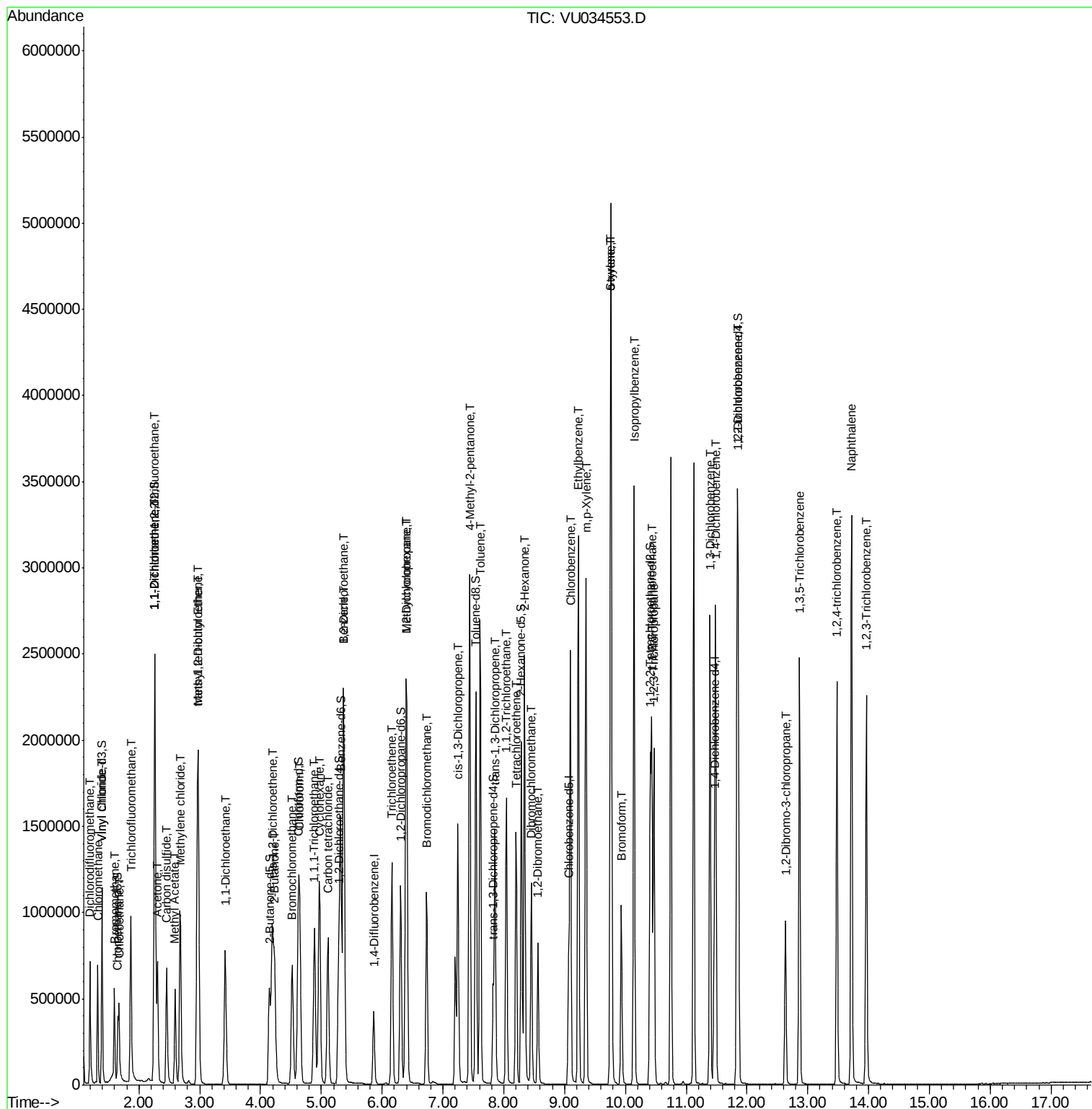
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	1917621	180.283	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	784386	208.246	ug/L	97
45) 1,1,2-Trichloroethane	8.04	97	503543	195.157	ug/L	99
46) Tetrachloroethene	8.20	164	295081	142.361	ug/L	98
48) 2-Hexanone	8.34	43	1583677	506.367	ug/L	99
49) Dibromochloromethane	8.45	129	577130	201.632	ug/L	99
50) 1,2-Dibromoethane	8.56	107	523854	190.387	ug/L	97
51) Chlorobenzene	9.10	112	1262529	179.468	ug/L	99
52) Ethylbenzene	9.23	91	2234974	194.530	ug/L	99
53) m,p-Xylene	9.35	106	799555	188.851	ug/L	96
54) o-xylene	9.76	106	808720	193.782	ug/L	95
55) Styrene	9.77	104	1435334	201.986	ug/L	99
56) Isopropylbenzene	10.14	105	2193693	202.283	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	1020177	228.125	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	769242	214.034	ug/L	99
61) Bromoform	9.94	173	437962	209.697	ug/L	99
62) 1,3-Dichlorobenzene	11.39	146	999323	192.150	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	998275	185.245	ug/L	99
65) 1,2-Dichlorobenzene	11.85	146	1005080	193.709	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.63	75	241576	253.868	ug/L	99
67) 1,3,5-Trichlorobenzene	12.86	180	673905	168.579	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	637472	194.482	ug/L	100
69) Naphthalene	13.72	128	2485498	253.971	ug/L	99
70) 1,2,3-Trichlorobenzene	13.96	180	622484	179.703	ug/L	99

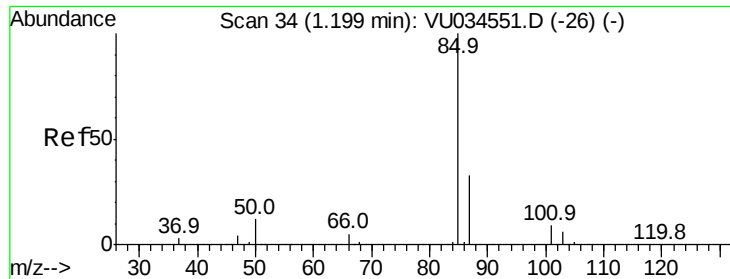
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 139.503 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

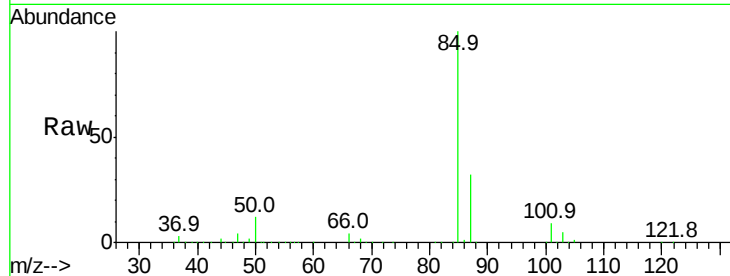
VSTD20034

Tgt Ion: 85 Resp: 450056

Ion Ratio Lower Upper

85 100

87 32.5 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU034553.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034553.D (-1) (-)

1.20

400000

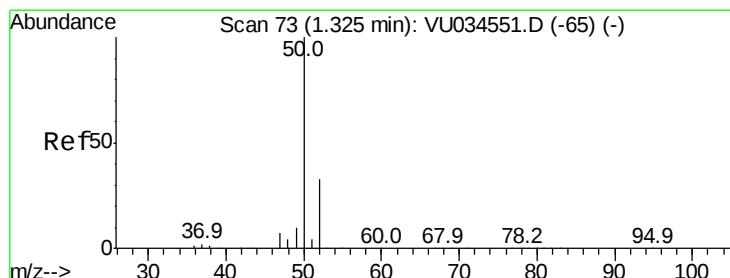
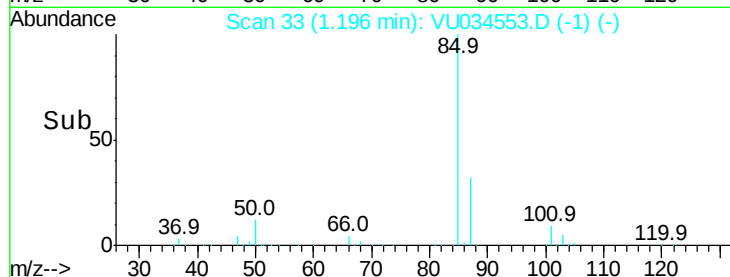
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 149.905 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034553.D

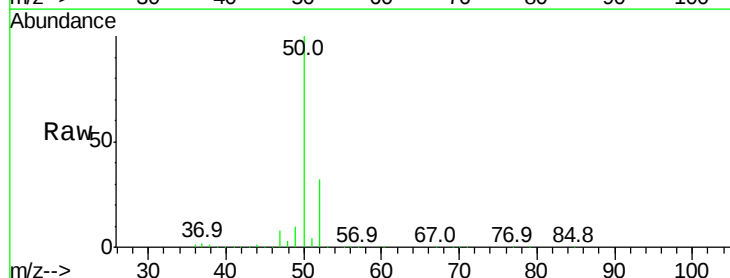
Acq: 16 Sep 2019 12:36

Tgt Ion: 50 Resp: 464691

Ion Ratio Lower Upper

50 100

52 32.0 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU034553.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU034553.D (-1) (-)

500000

400000

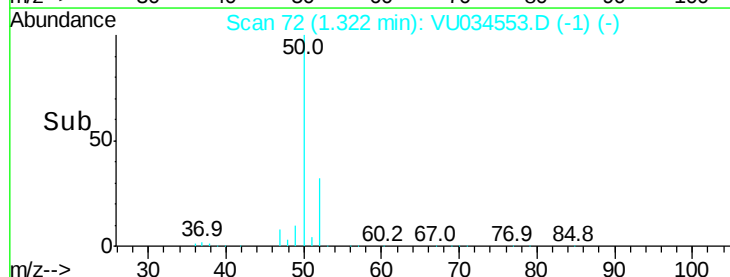
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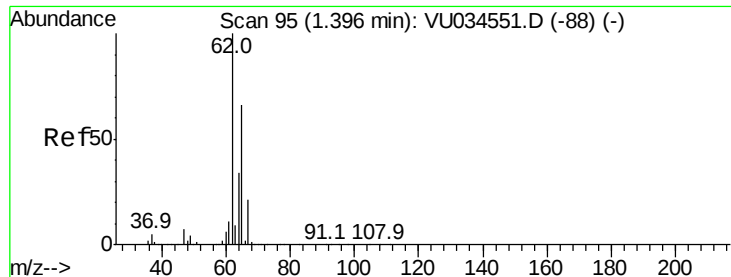
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 125.029 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

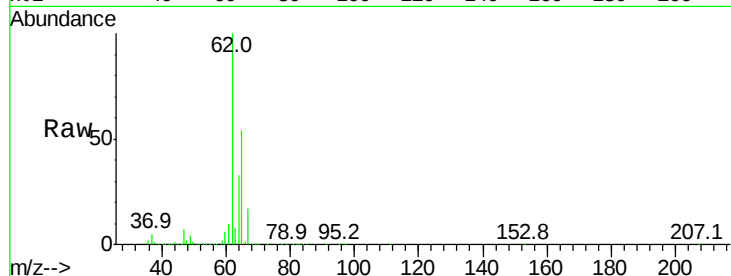
VSTD20034

Tgt Ion: 62 Resp: 455252

Ion Ratio Lower Upper

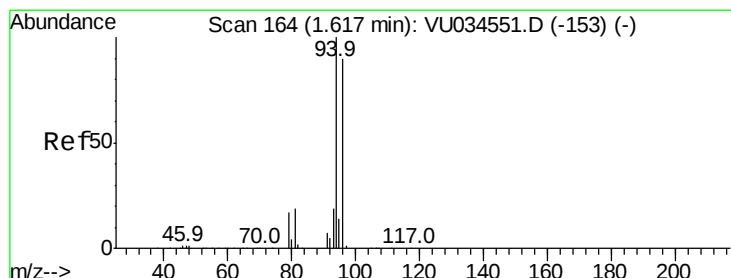
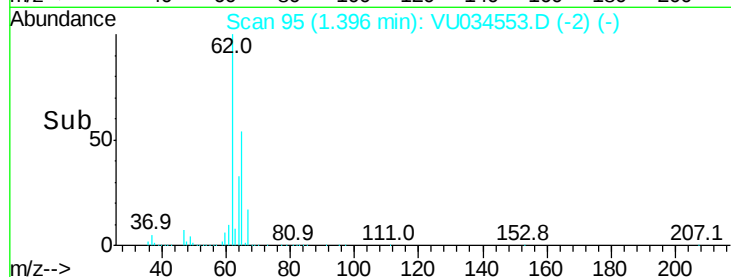
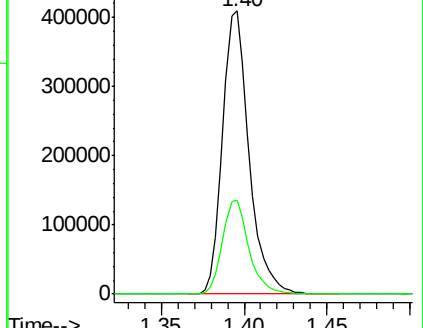
62 100

64 33.1 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VU034553.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU034553.D (-88) (-)



#6

Bromomethane

Concen: 140.953 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU034553.D

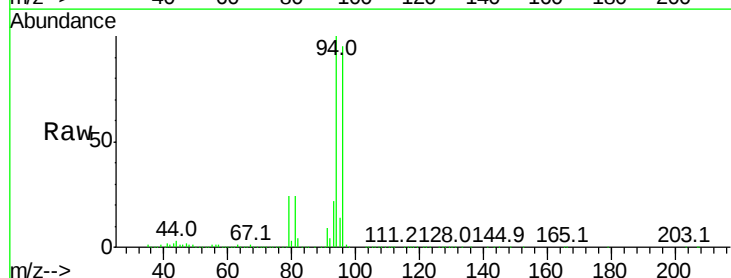
Acq: 16 Sep 2019 12:36

Tgt Ion: 94 Resp: 198851

Ion Ratio Lower Upper

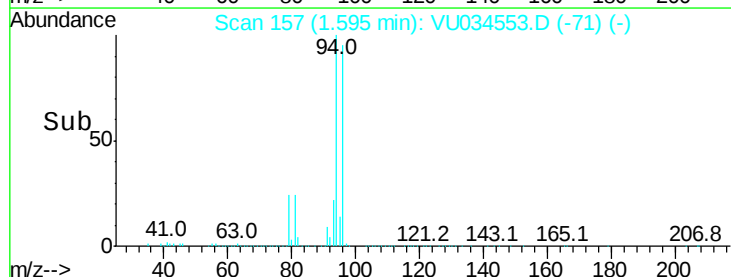
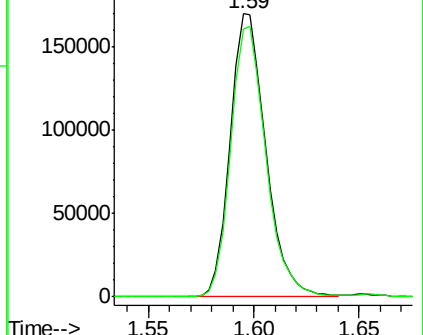
94 100

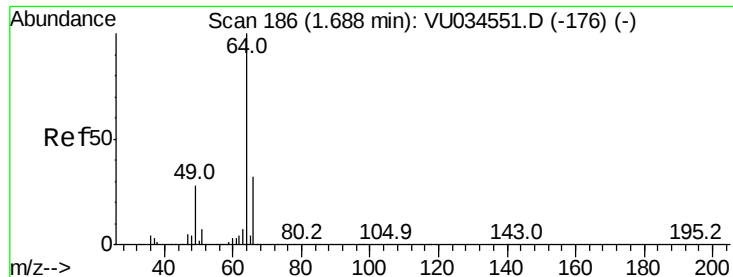
96 94.7 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU034553.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU034553.D (-153) (-)





#8

Chloroethane

Concen: 114.551 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

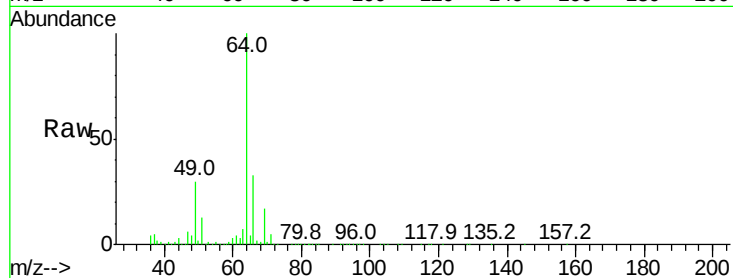
VSTD20034

Tgt Ion: 64 Resp: 250220

Ion Ratio Lower Upper

64 100

66 32.6 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU034553.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU034553.D (-176) (-)

1.67

200000

150000

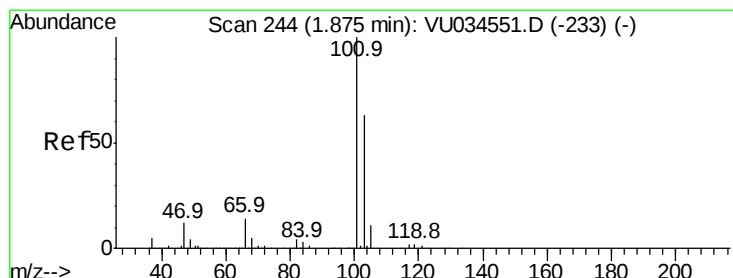
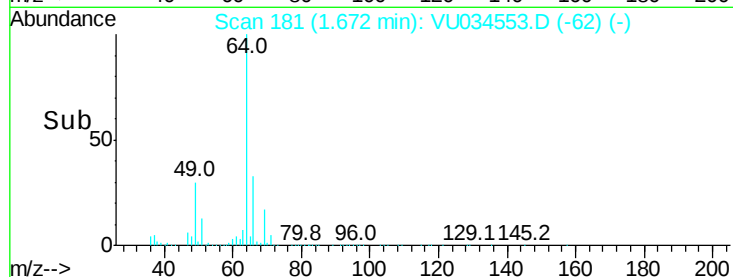
100000

50000

0

1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 149.010 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU034553.D

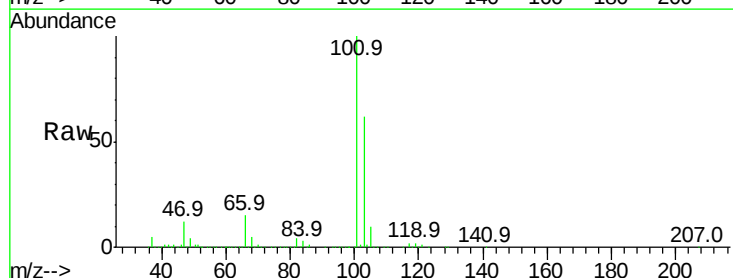
Acq: 16 Sep 2019 12:36

Tgt Ion: 101 Resp: 636296

Ion Ratio Lower Upper

101 100

103 63.0 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): VU034553.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034553.D (-233) (-)

1.87

400000

300000

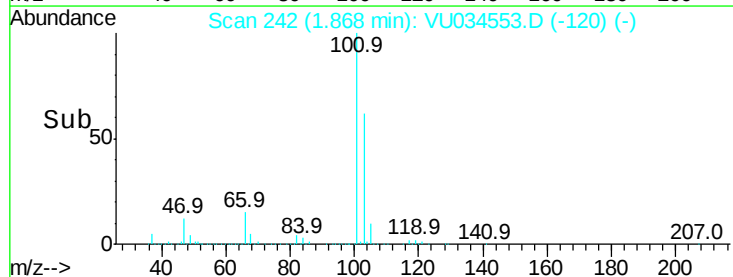
200000

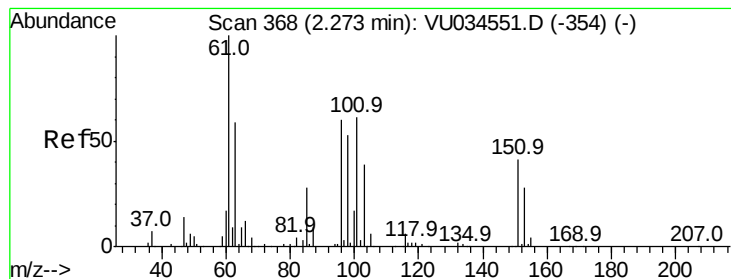
100000

0

1.80 1.90 2.00

Time-->





#10

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

Concen: 152.547 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

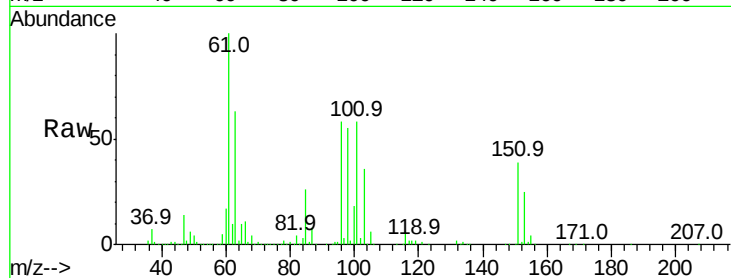
Tgt Ion: 101 Resp: 372456

Ion Ratio Lower Upper

101 100

85 45.9 37.0 55.6

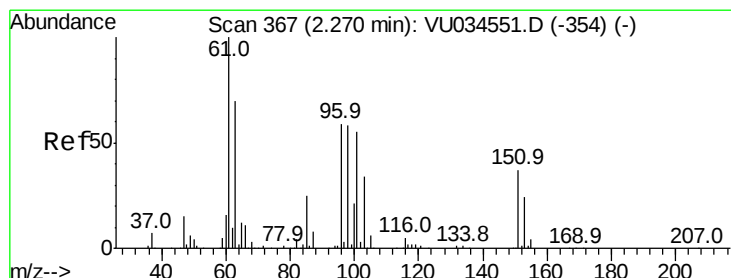
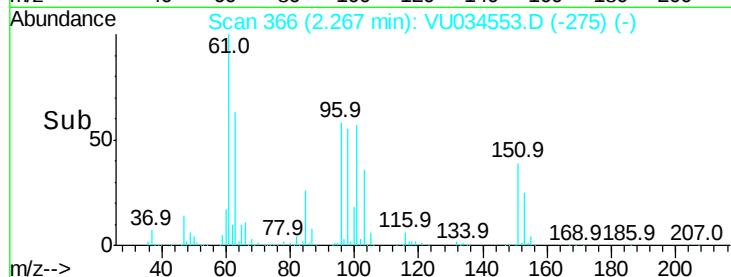
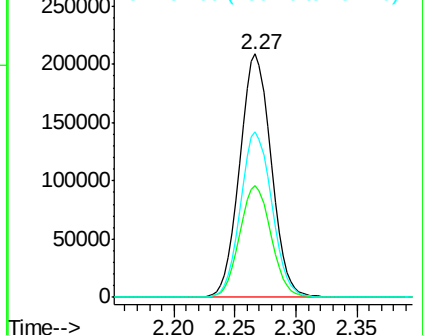
151 67.9 54.1 81.1



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: 144.793 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

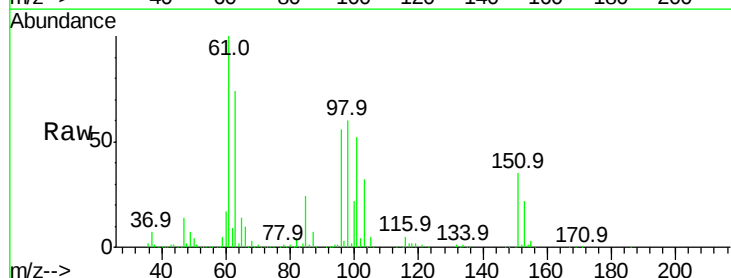
Tgt Ion: 96 Resp: 340313

Ion Ratio Lower Upper

96 100

61 177.8 117.8 218.8

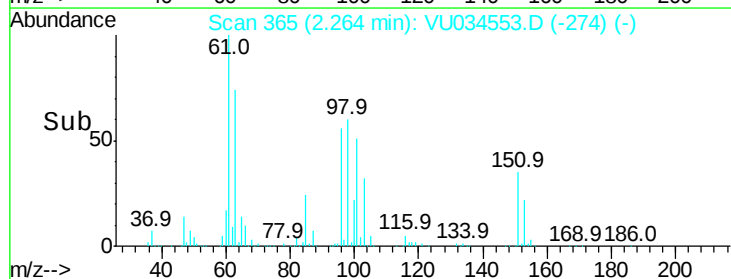
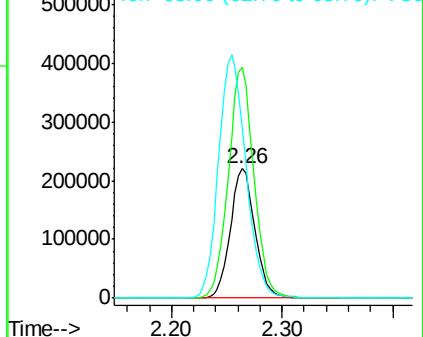
63 131.9 83.8 155.6

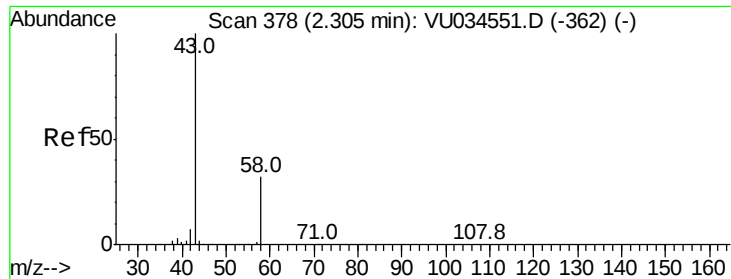


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 368.788 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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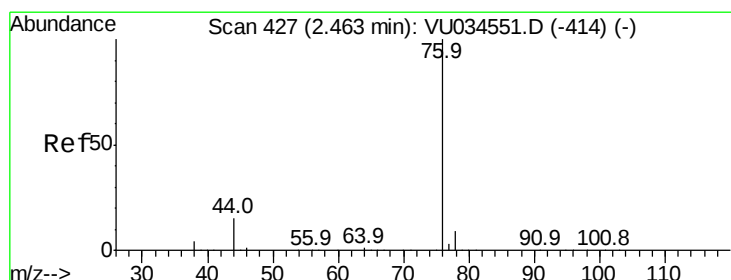
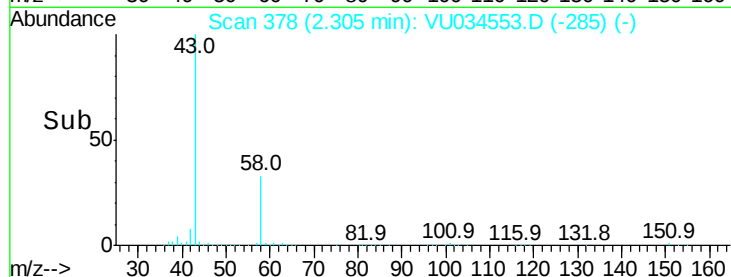
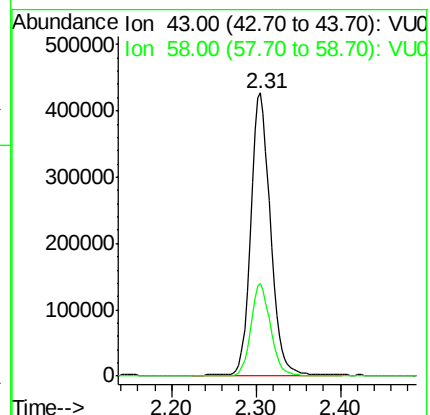
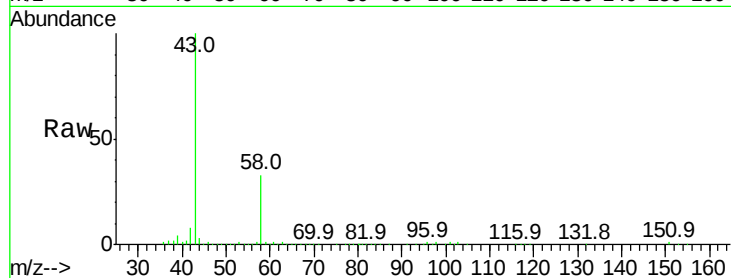
VSTD20034

Tgt Ion: 43 Resp: 692700

Ion Ratio Lower Upper

43 100

58 32.4 0.0 65.0



#14

Carbon disulfide

Concen: 113.743 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VU034553.D

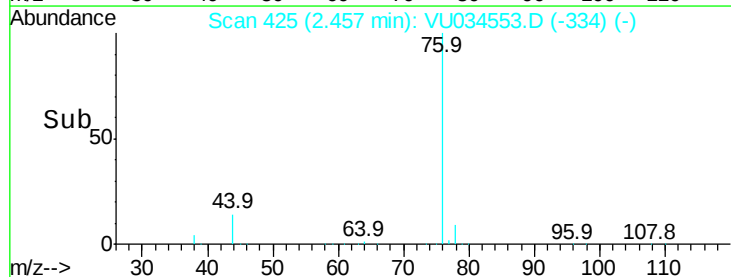
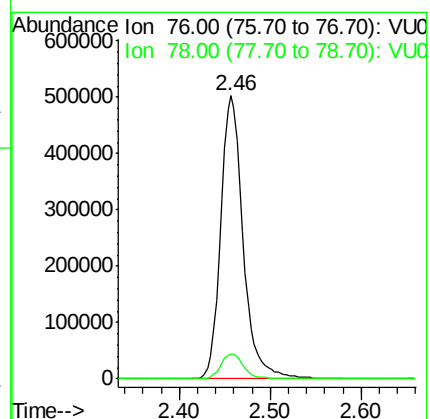
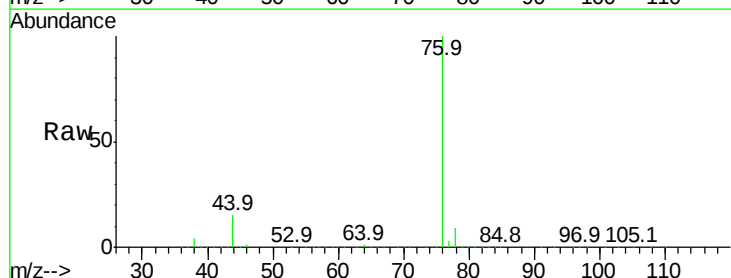
Acq: 16 Sep 2019 12:36

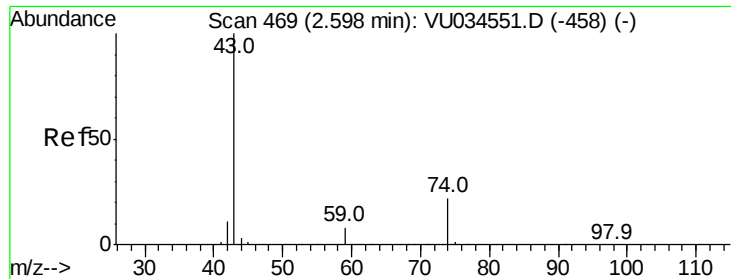
Tgt Ion: 76 Resp: 859783

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7





#15

Methyl Acetate

Concen: 190.669 ug/L

RT: 2.59 min Scan# 468

Delta R.T. -0.00 min

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Acq: 16 Sep 2019 12:36

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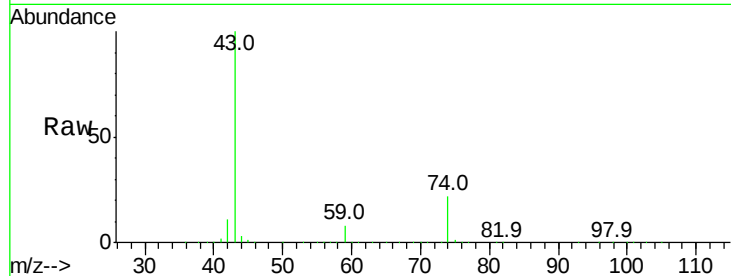
VSTD20034

Tgt Ion: 43 Resp: 623690

Ion Ratio Lower Upper

43 100

74 22.5 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU034553.D (-376) (-)

Ion 74.00 (73.70 to 74.70): VU034553.D (-376) (-)

2.59

400000

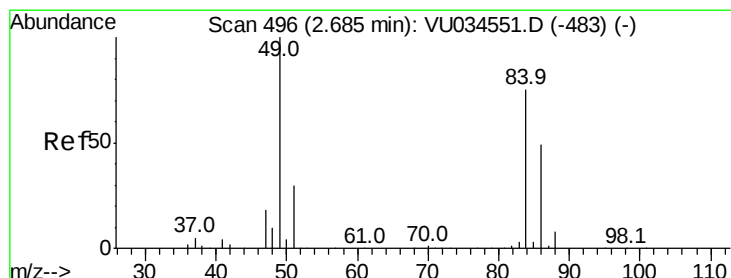
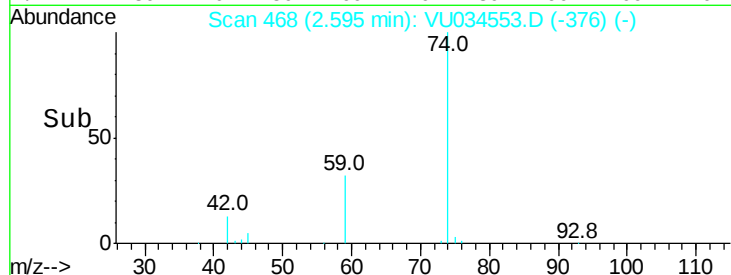
300000

200000

100000

0

Time-->



#16

Methylene chloride

Concen: 162.718 ug/L

RT: 2.68 min Scan# 494

Delta R.T. -0.01 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

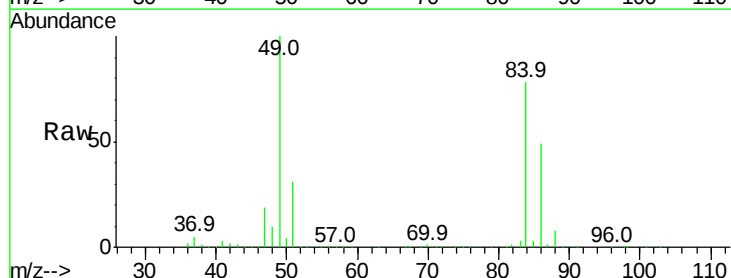
Tgt Ion: 84 Resp: 460778

Ion Ratio Lower Upper

84 100

86 63.5 45.4 84.4

49 128.7 93.1 172.9



Abundance Ion 84.00 (83.70 to 84.70): VU034553.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU034553.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU034553.D (-403) (-)

2.68

400000

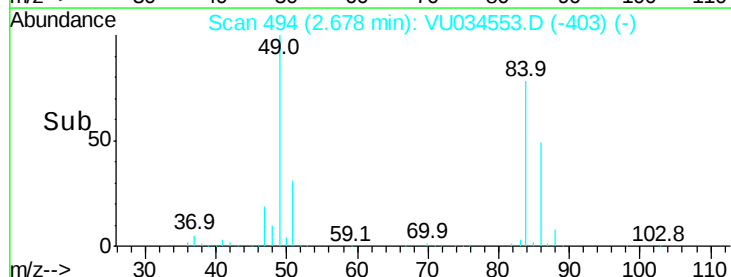
300000

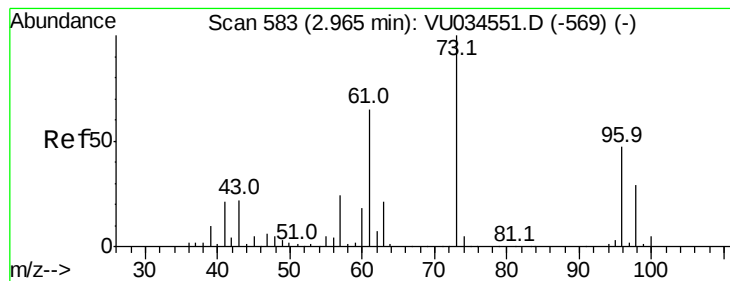
200000

100000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 150.049 ug/L

RT: 2.96 min Scan# 581

Delta R.T. -0.01 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

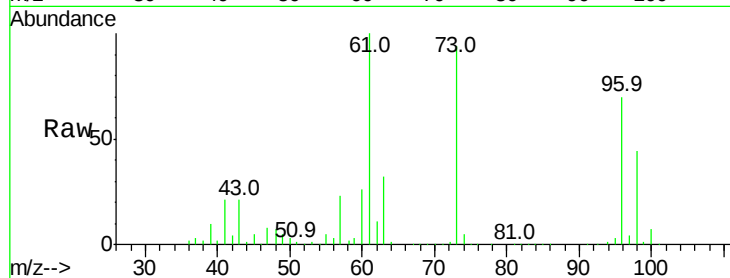
Tgt Ion: 96 Resp: 378789

Ion Ratio Lower Upper

96 100

61 142.4 97.0 180.2

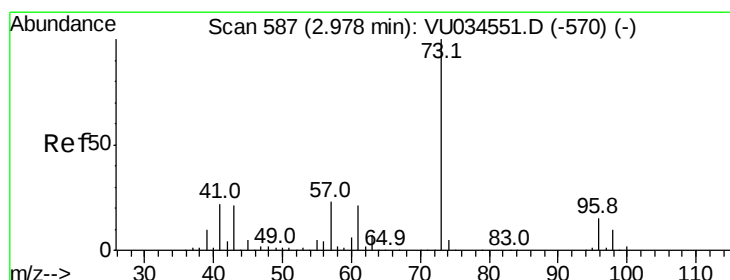
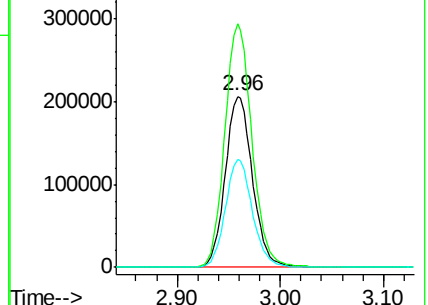
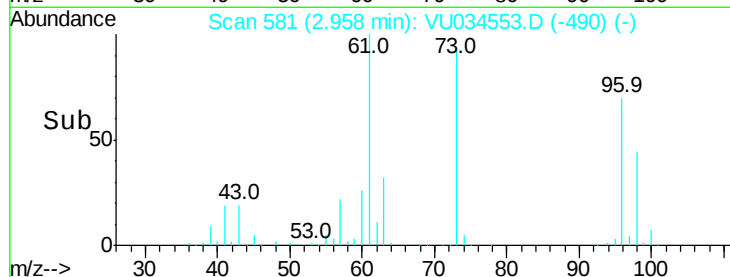
98 62.9 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU034553.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034553.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034553.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 201.256 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

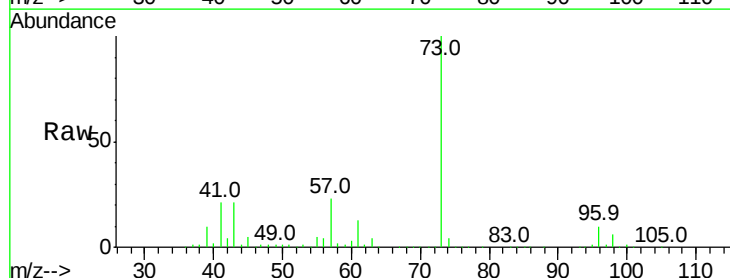
Tgt Ion: 73 Resp: 1537867

Ion Ratio Lower Upper

73 100

43 21.1 16.7 25.1

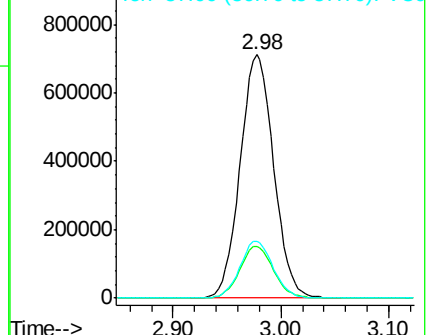
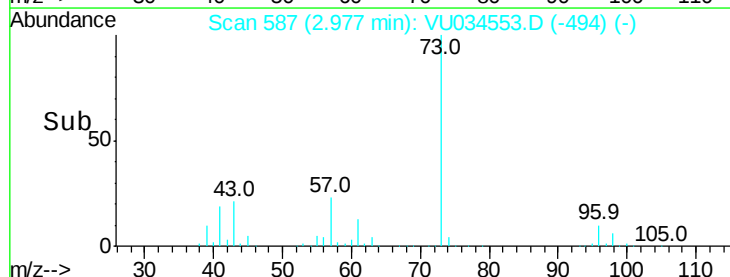
57 23.1 18.6 28.0

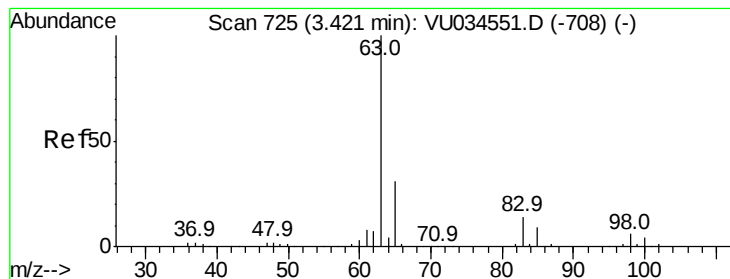


Abundance Ion 73.00 (72.70 to 73.70): VU034553.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU034553.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU034553.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 167.092 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

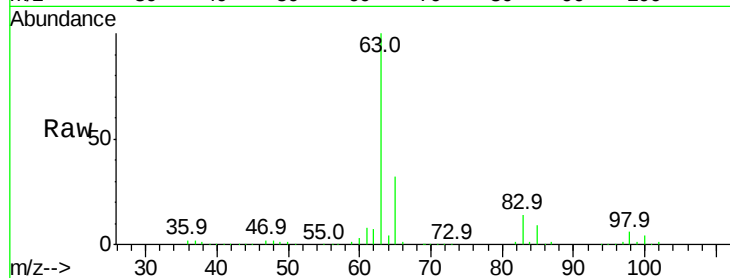
Tgt Ion: 63 Resp: 840628

Ion Ratio Lower Upper

63 100

65 32.1 21.6 40.0

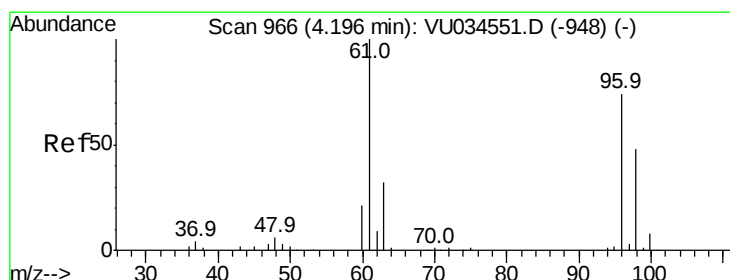
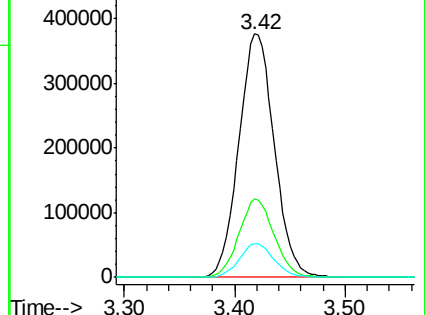
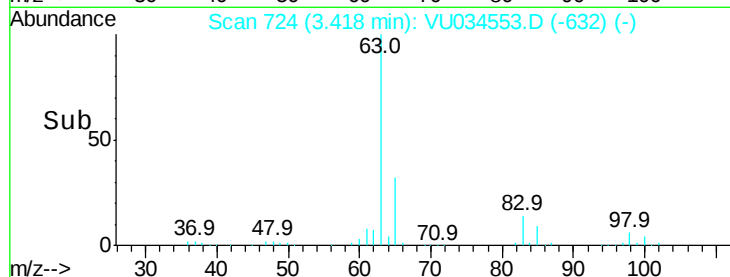
83 14.0 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 175.965 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

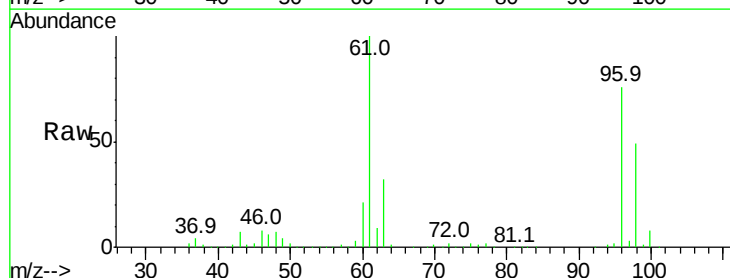
Tgt Ion: 96 Resp: 488962

Ion Ratio Lower Upper

96 100

61 132.1 94.7 175.9

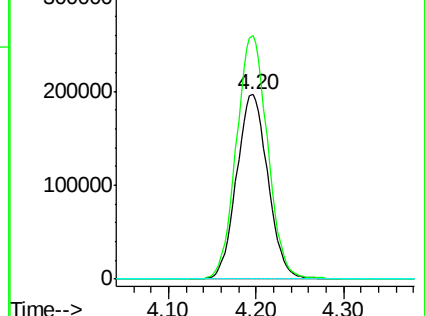
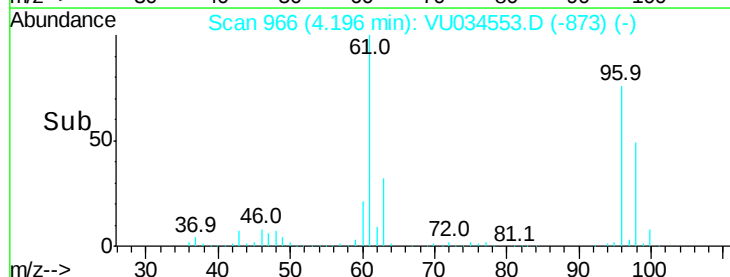
68 0.0 0.0 0.0

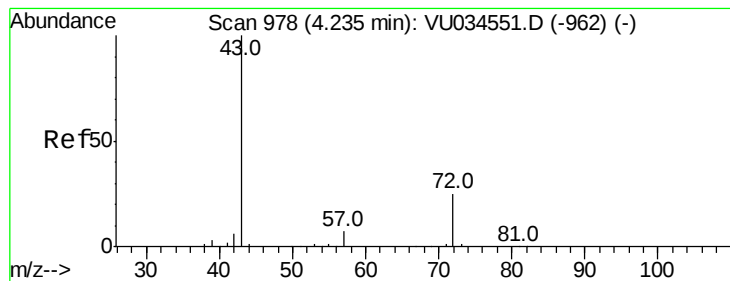


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 440.608 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

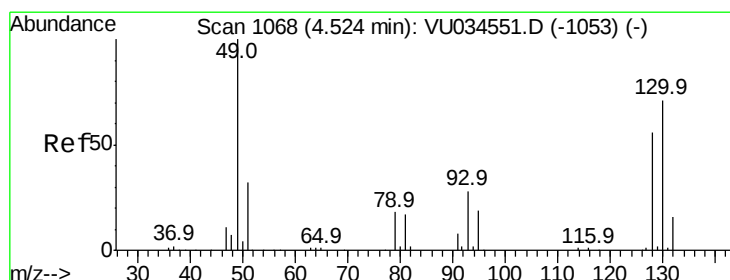
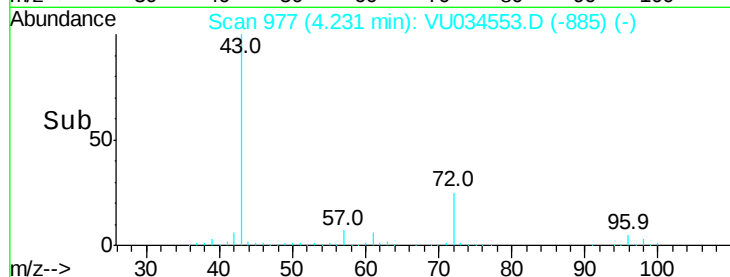
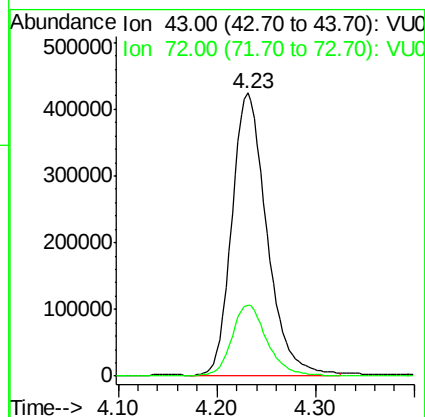
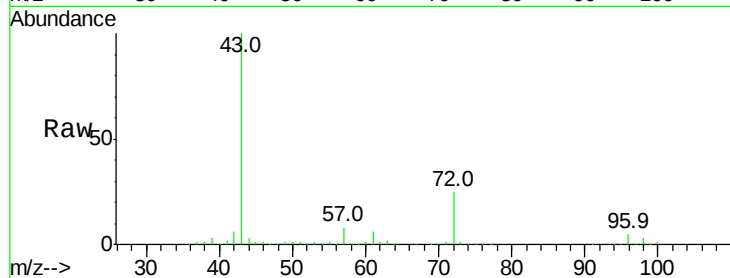
VSTD20034

Tgt Ion: 43 Resp: 1039789

Ion Ratio Lower Upper

43 100

72 25.8 12.0 36.1



#23

Bromochloromethane

Concen: 160.215 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Tgt Ion: 128 Resp: 228955

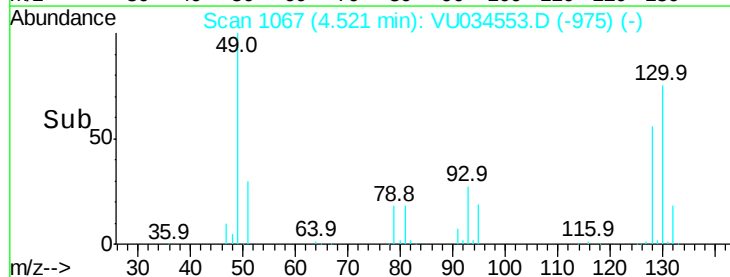
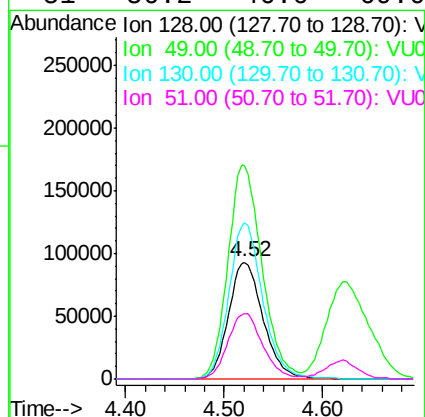
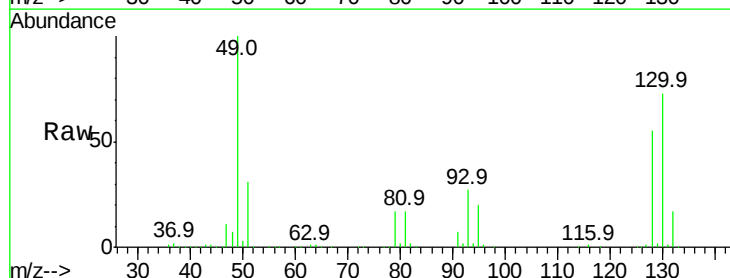
Ion Ratio Lower Upper

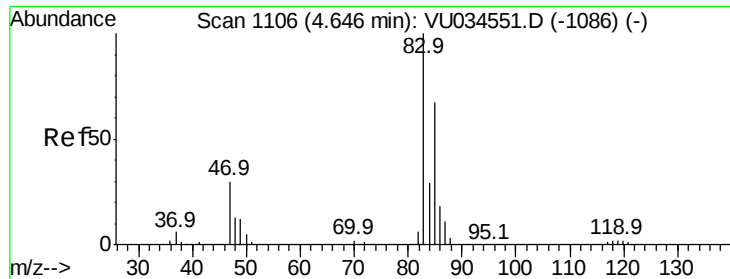
128 100

49 182.4 125.6 233.3

130 133.6 89.8 166.8

51 56.2 46.0 69.0

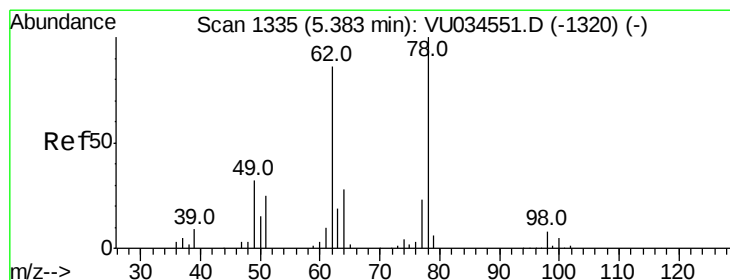
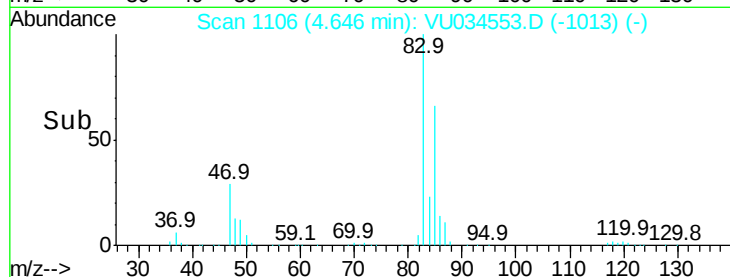
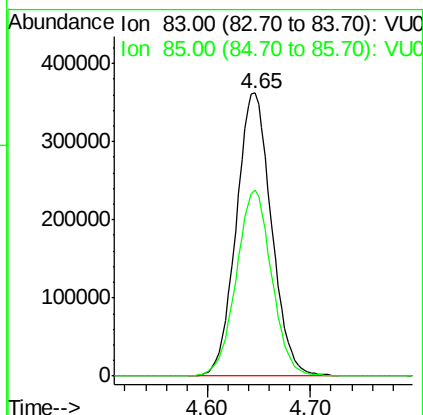
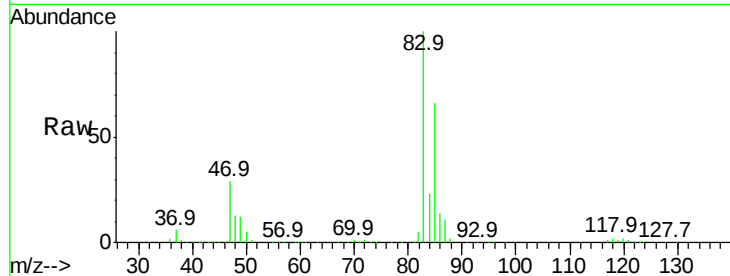




#25
Chloroform
Concen: 172.162 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

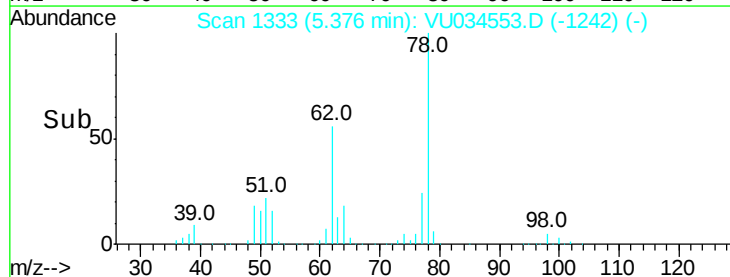
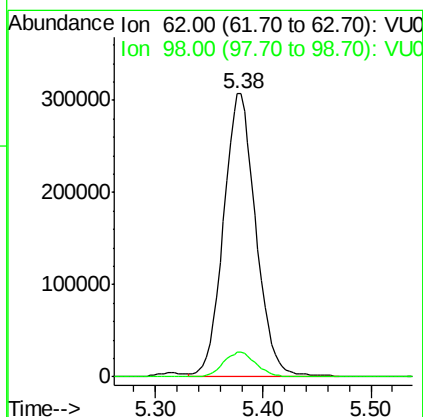
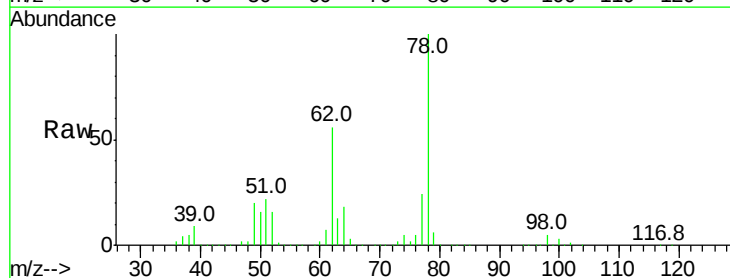
Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

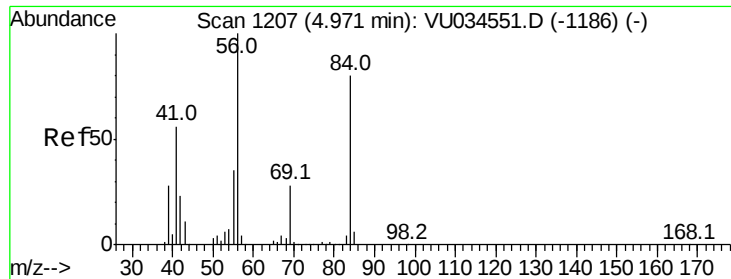
Tgt Ion: 83 Resp: 857812
Ion Ratio Lower Upper
83 100
85 65.6 46.6 86.6



#27
1,2-Dichloroethane
Concen: 162.848 ug/L
RT: 5.38 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

Tgt Ion: 62 Resp: 636703
Ion Ratio Lower Upper
62 100
98 8.6 7.4 11.0

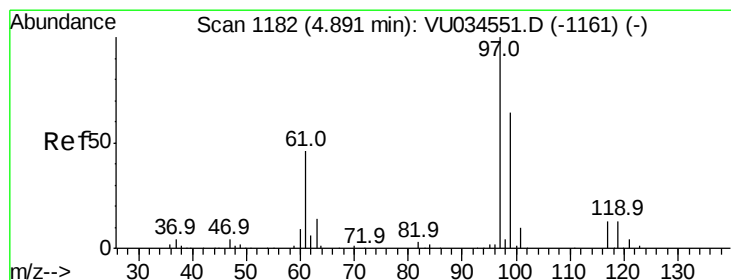
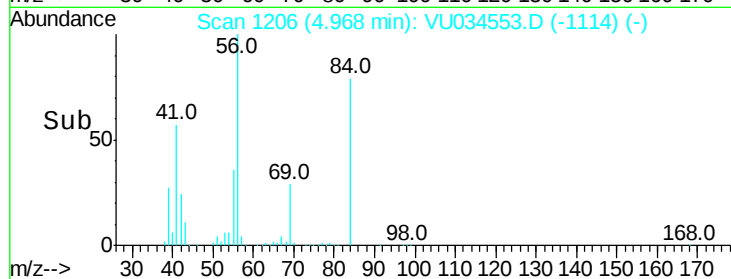
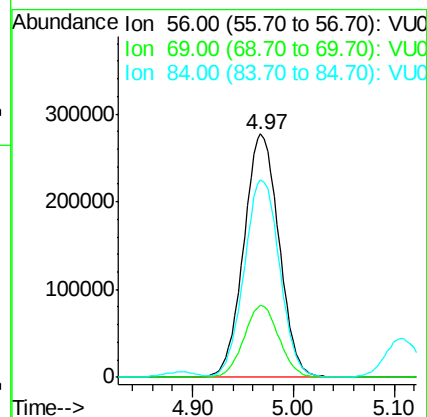
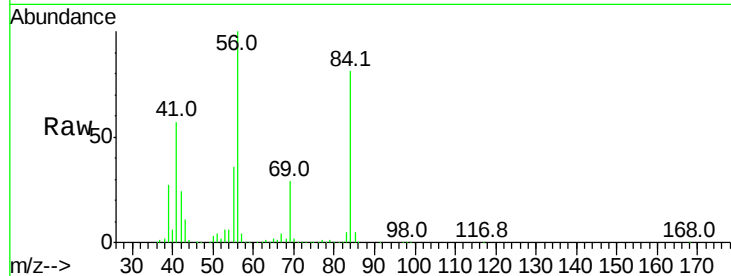




#29
Cyclohexane
Concen: 170.674 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

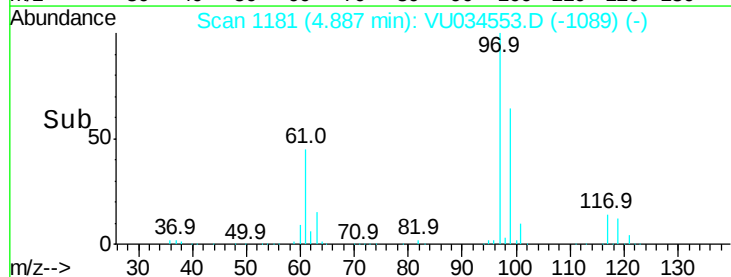
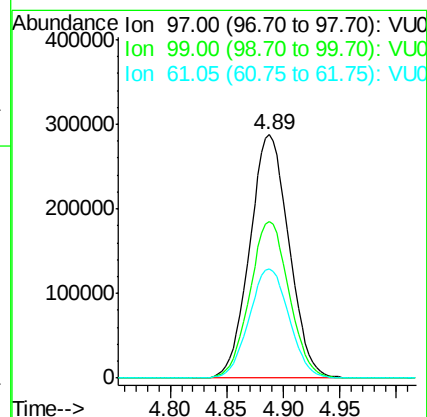
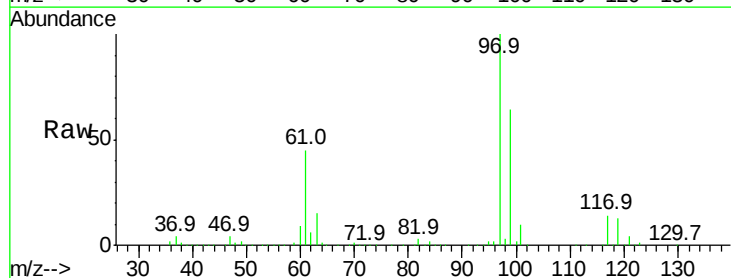
Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

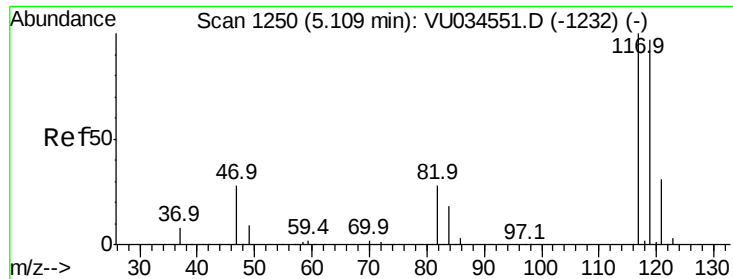
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.3	34.9
84	81.5	64.2	96.4



#30
1,1,1-Trichloroethane
Concen: 177.186 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.7	76.1
61	45.6	36.9	55.3





#31

Carbon tetrachloride

Concen: 172.276 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

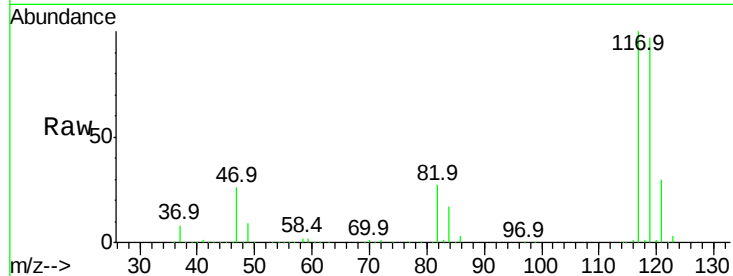
VSTD20034

Tgt Ion:117 Resp: 598659

Ion Ratio Lower Upper

117 100

119 95.6 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

250000

200000

150000

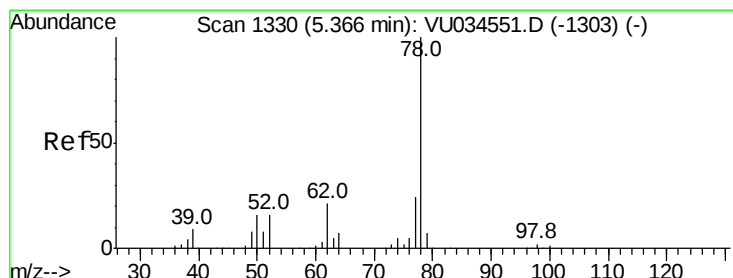
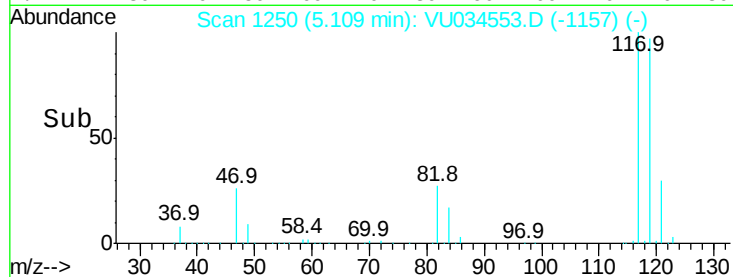
100000

50000

0

Time-->

5.00 5.10 5.20



#33

Benzene

Concen: 171.494 ug/L

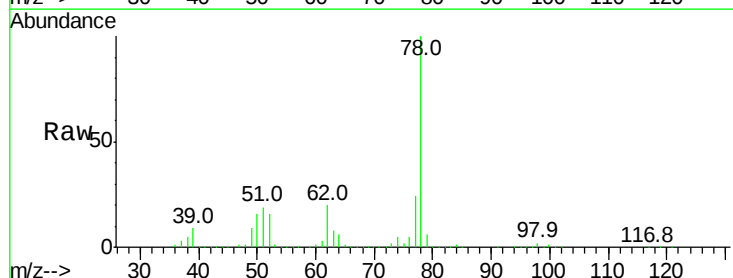
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Tgt Ion: 78 Resp: 1762819



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.36

800000

600000

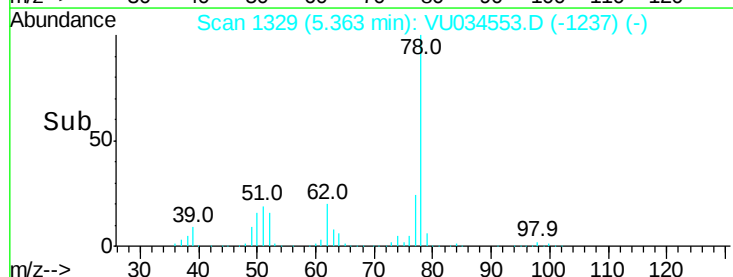
400000

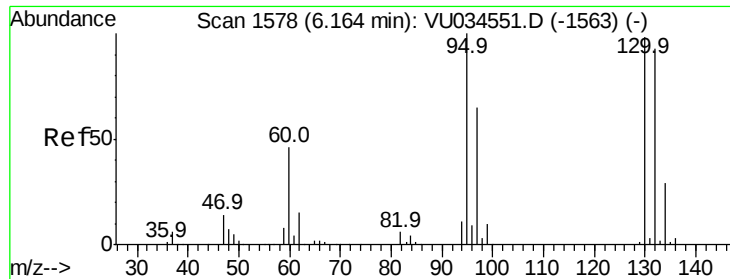
200000

0

Time-->

5.20 5.30 5.40





#34

Trichloroethene

Concen: 166.075 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

Tgt Ion: 95 Resp: 442947

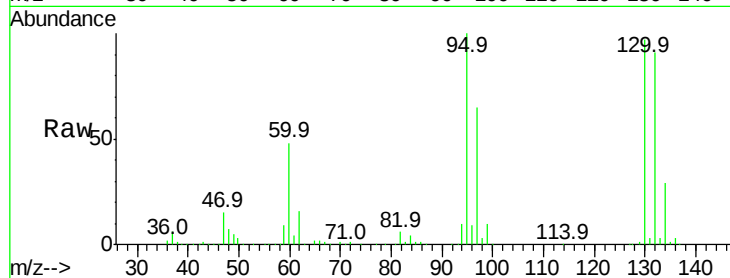
Ion Ratio Lower Upper

95 100

97 64.9 45.4 84.4

132 90.9 65.2 121.0

130 96.6 68.5 127.3

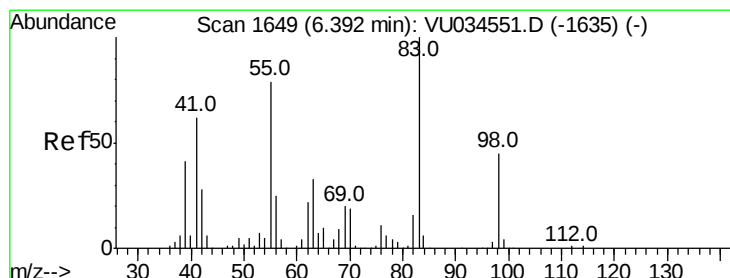
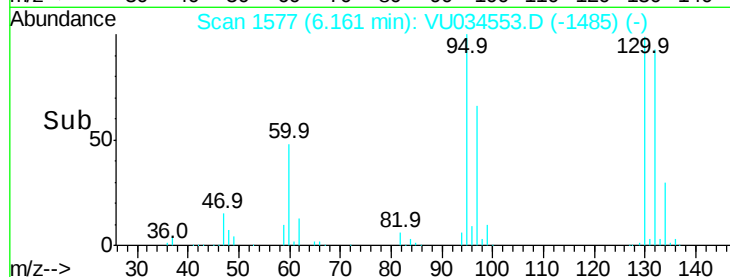
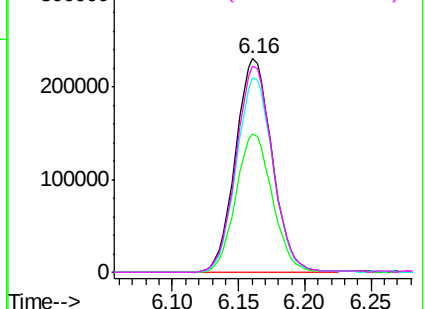


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 162.388 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

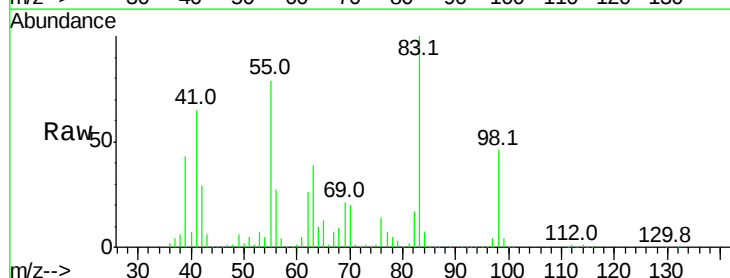
Tgt Ion: 83 Resp: 652958

Ion Ratio Lower Upper

83 100

55 79.2 63.0 94.6

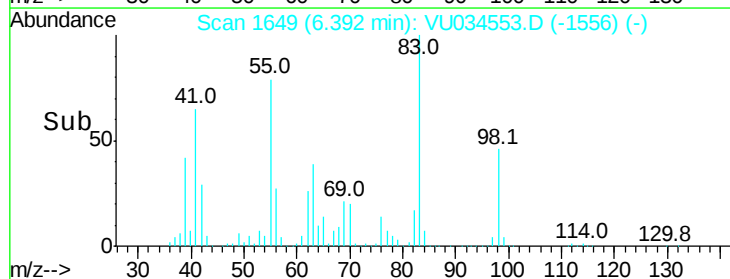
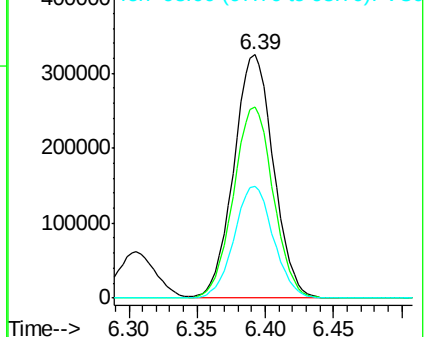
98 45.6 36.2 54.2

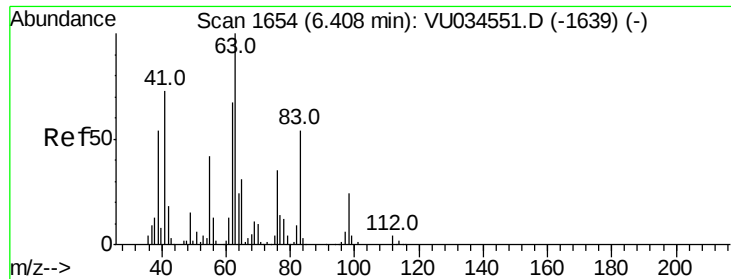


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 190.753 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

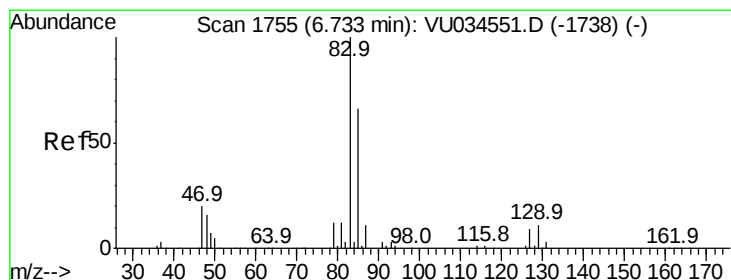
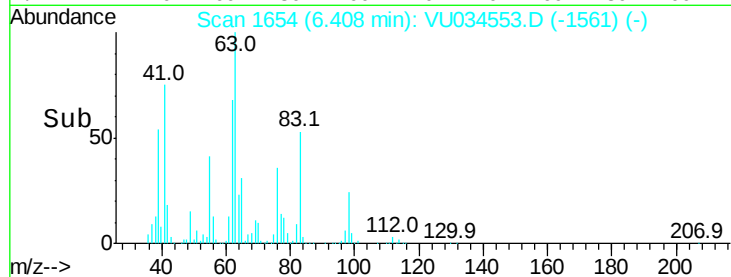
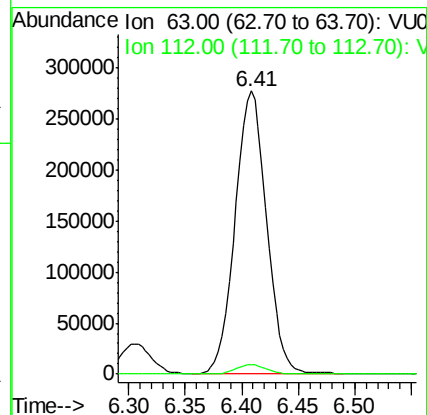
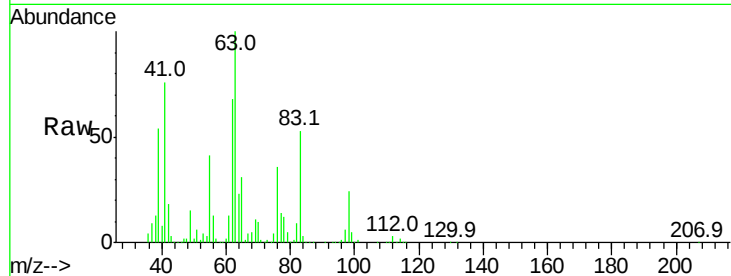
VSTD20034

Tgt Ion: 63 Resp: 536433

Ion Ratio Lower Upper

63 100

112 3.4 2.9 4.3



#38

Bromodichloromethane

Concen: 193.687 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

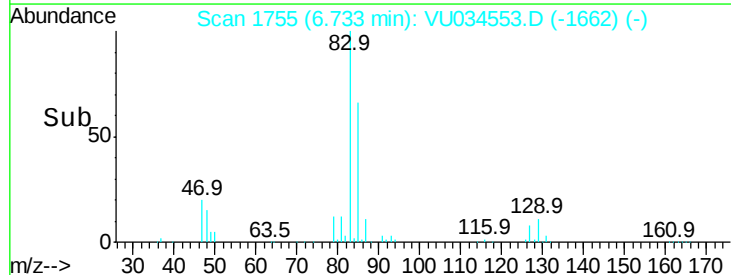
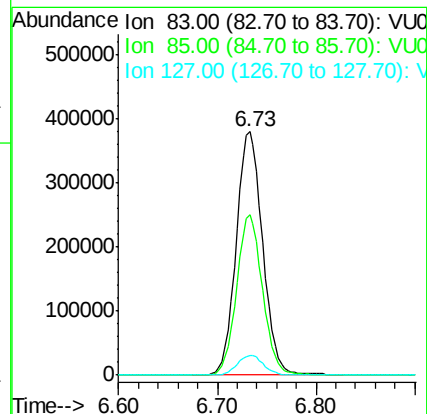
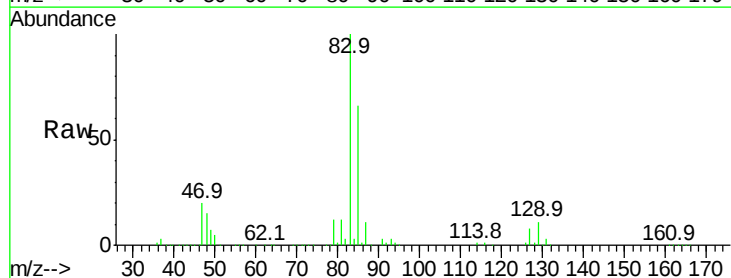
Tgt Ion: 83 Resp: 703829

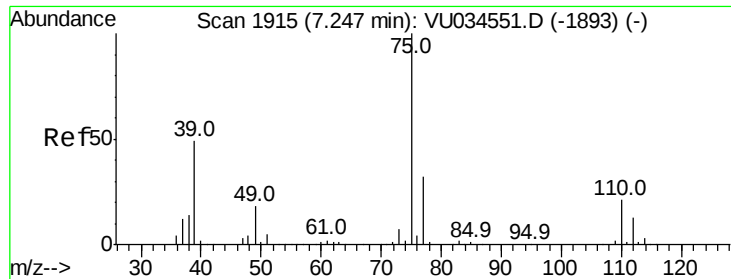
Ion Ratio Lower Upper

83 100

85 65.8 46.1 85.7

127 8.0 7.0 10.6



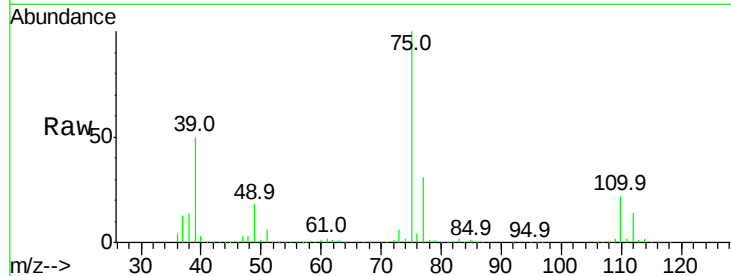


#39

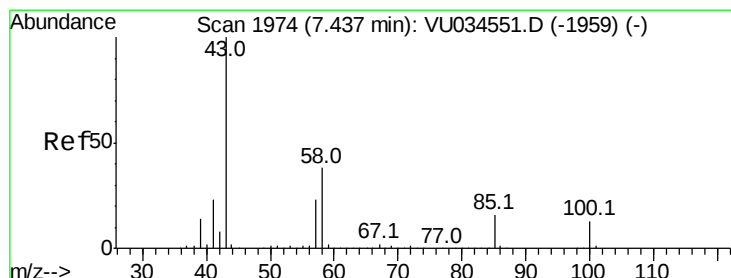
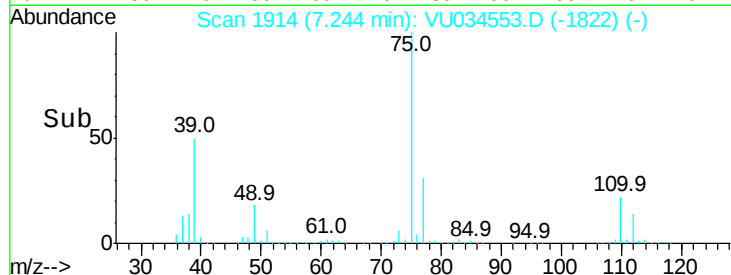
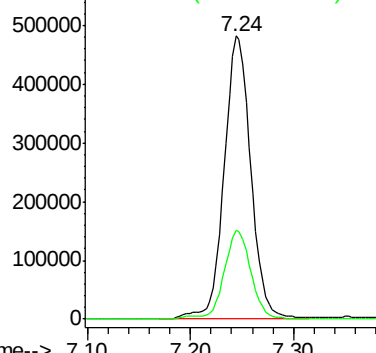
cis-1,3-Dichloropropene
 Concen: 207.002 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20034

Tgt Ion: 75 Resp: 865237
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.3



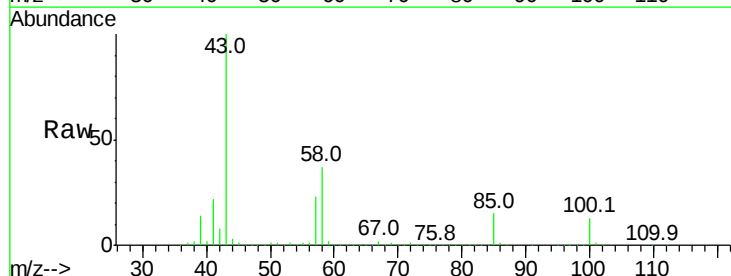
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0



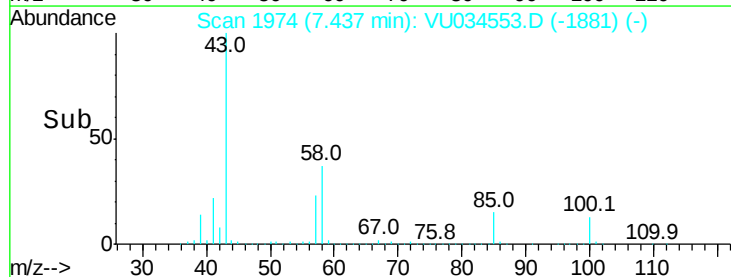
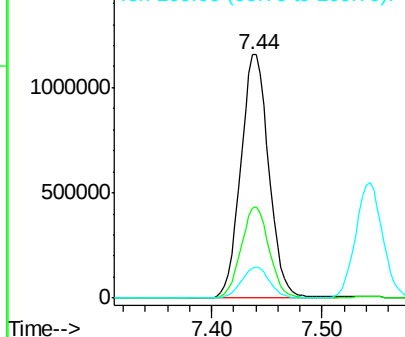
#40

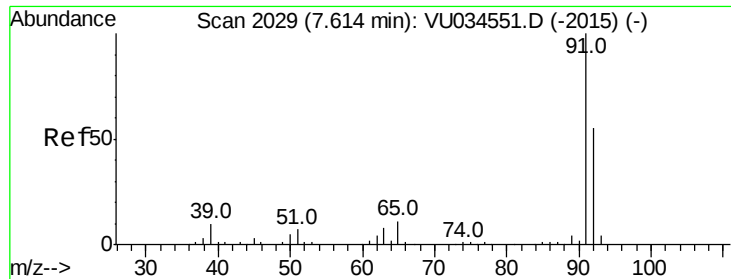
4-Methyl-2-pentanone
 Concen: 504.995 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

Tgt Ion: 43 Resp: 2033987
 Ion Ratio Lower Upper
 43 100
 58 37.6 30.4 45.6
 100 12.8 10.2 15.4



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





#42

Toluene

Concen: 180.283 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

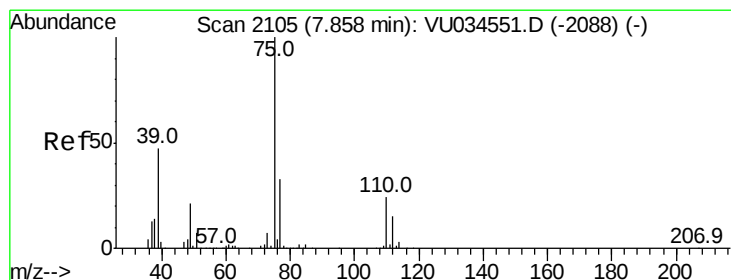
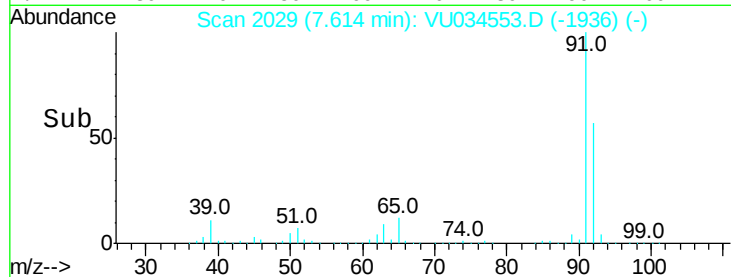
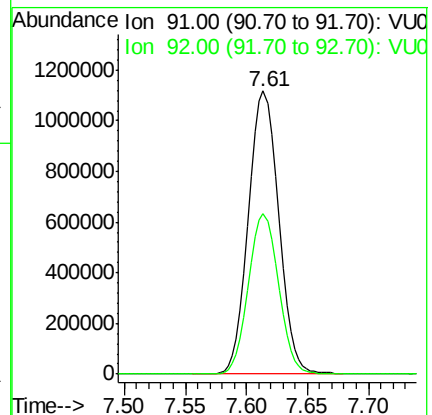
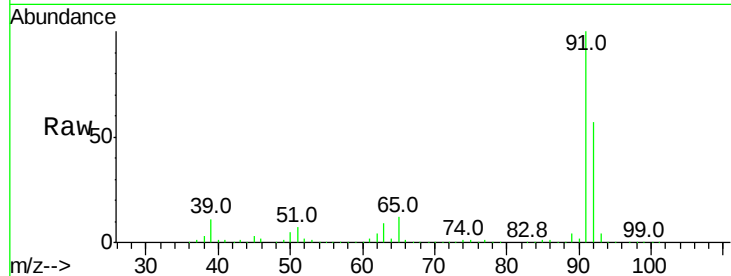
VSTD20034

Tgt Ion: 91 Resp: 1917621

Ion Ratio Lower Upper

91 100

92 56.6 38.4 71.4



#44

trans-1,3-Dichloropropene

Concen: 208.246 ug/L

RT: 7.86 min Scan# 2104

Delta R.T. -0.00 min

Lab File: VU034553.D

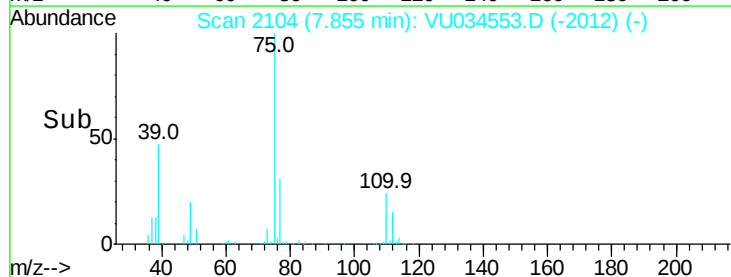
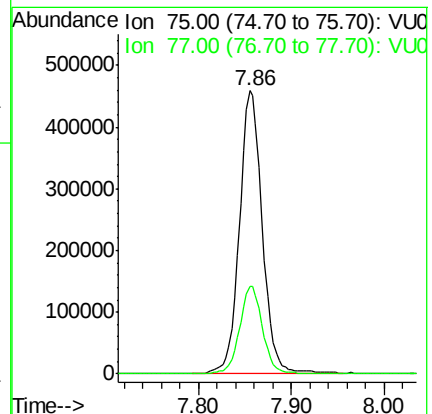
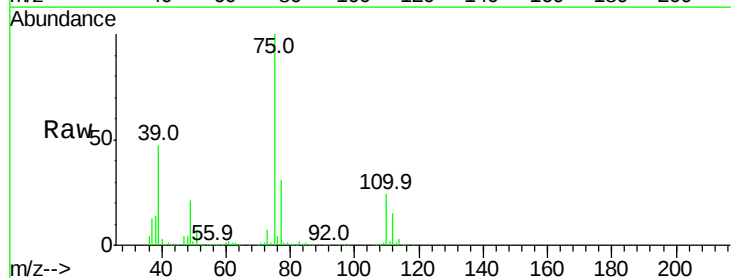
Acq: 16 Sep 2019 12:36

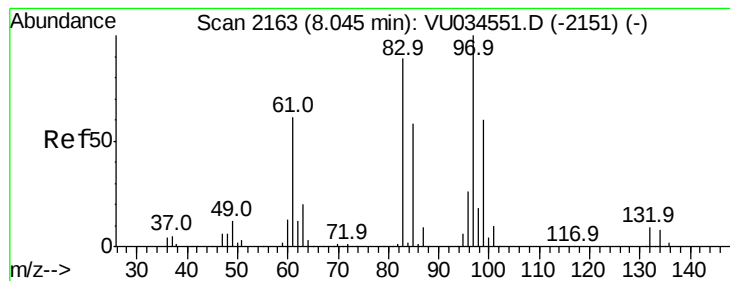
Tgt Ion: 75 Resp: 784386

Ion Ratio Lower Upper

75 100

77 31.0 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 195.157 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

Tgt Ion: 97 Resp: 503543

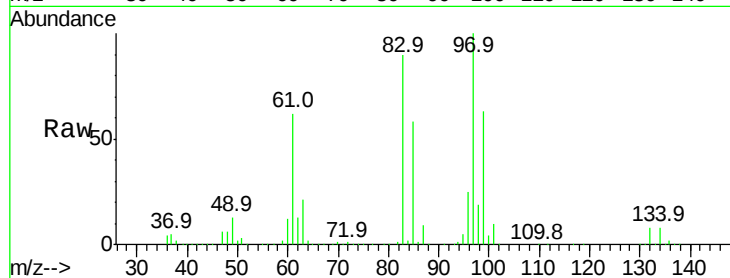
Ion Ratio Lower Upper

97 100

99 62.8 42.4 78.8

83 90.5 62.5 116.1

85 58.1 40.7 75.7

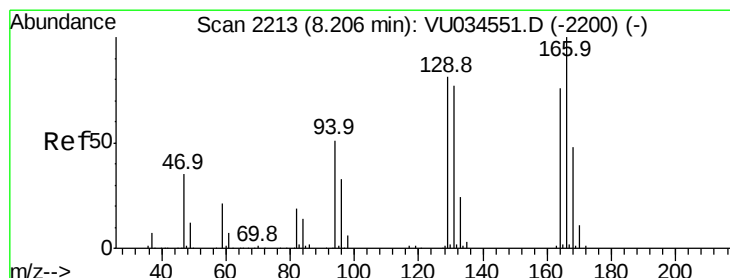
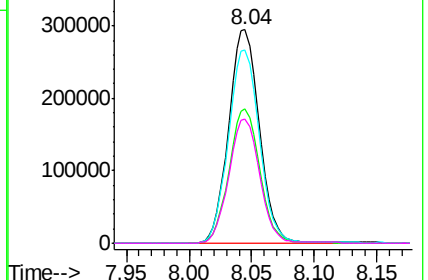
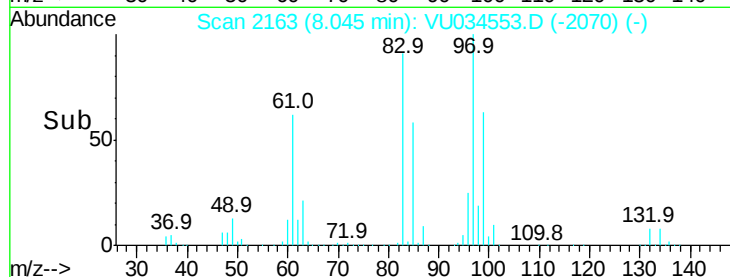


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 142.361 ug/L

RT: 8.20 min Scan# 2212

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Tgt Ion: 164 Resp: 295081

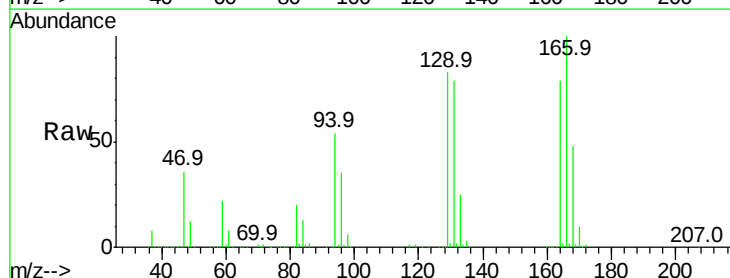
Ion Ratio Lower Upper

164 100

129 104.5 74.5 138.3

131 100.6 70.4 130.8

166 126.6 91.7 170.3

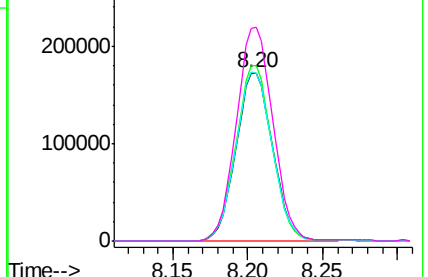
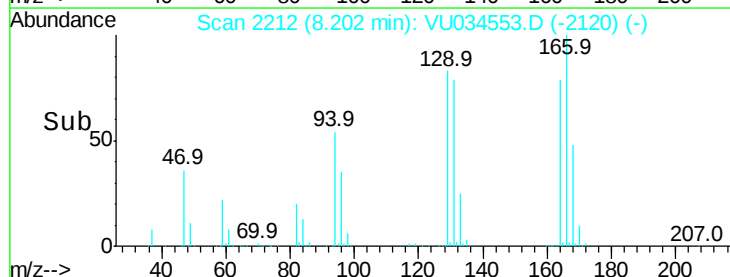


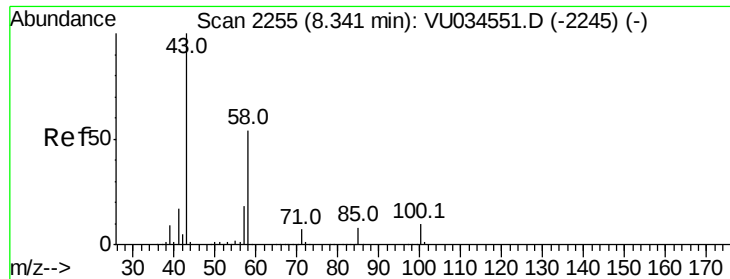
Abundance Ion 164.00 (163.70 to 164.70): V

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



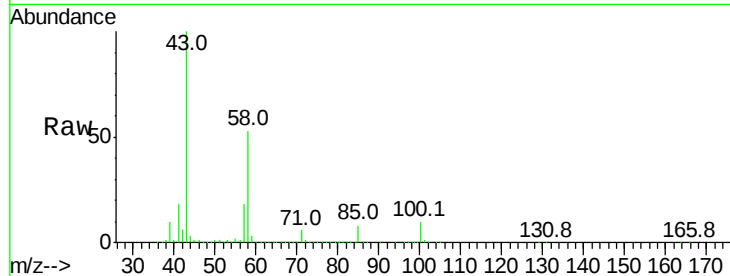


#48
2-Hexanone
Concen: 506.367 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

Instrument :
MSVOA_U
ClientSampled :
VSTD20034

Tgt Ion: 43 Resp: 1583677

Ion	Ratio	Lower	Upper
43	100		
58	53.7	43.3	64.9
57	17.5	13.1	19.7
100	10.0	8.2	12.4

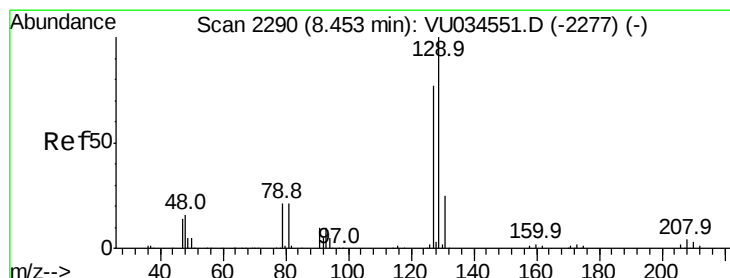
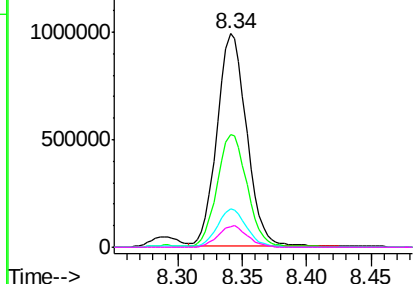
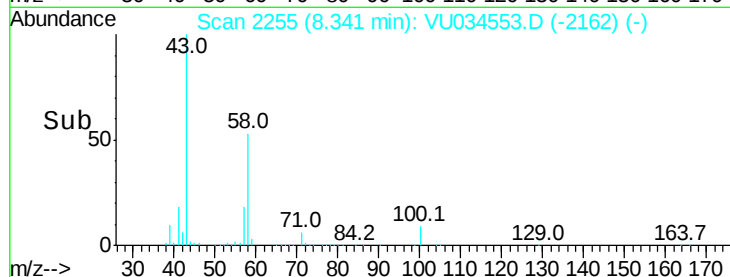


Abundance Ion 43.00 (42.70 to 43.70): VU034553.D (-2162) (-)

Ion 58.00 (57.70 to 58.70): VU034553.D (-2162) (-)

Ion 57.00 (56.70 to 57.70): VU034553.D (-2162) (-)

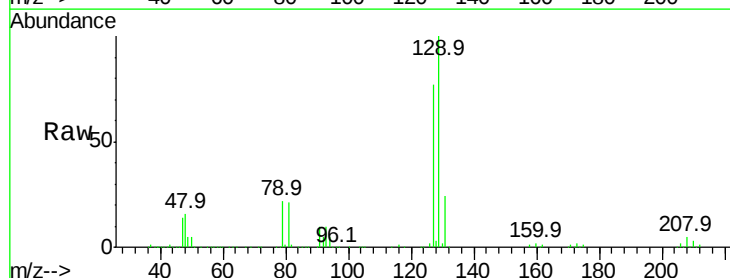
Ion 100.00 (99.70 to 100.70): VU034553.D (-2162) (-)



#49
Dibromochloromethane
Concen: 201.632 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034553.D
Acq: 16 Sep 2019 12:36

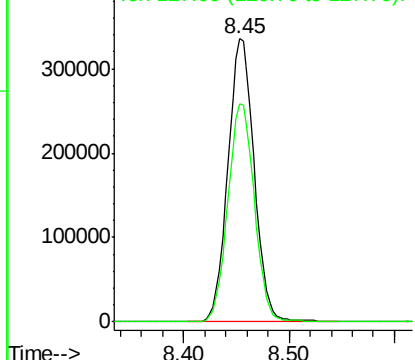
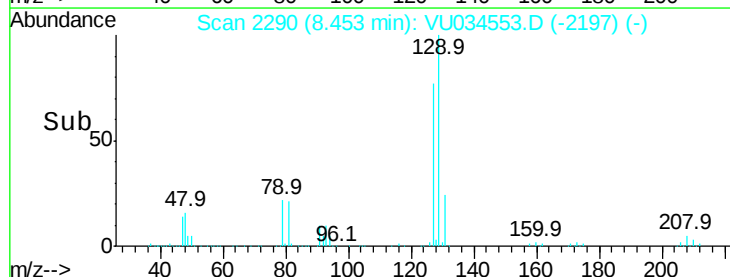
Tgt Ion: 129 Resp: 577130

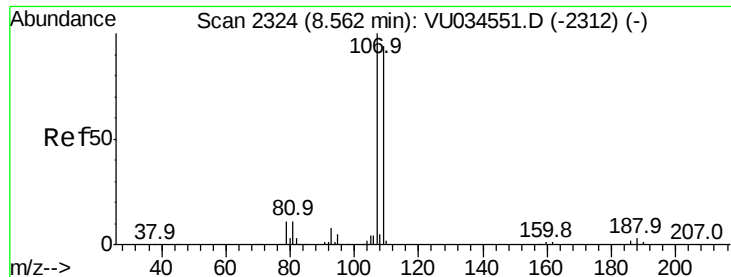
Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.5	99.5



Abundance Ion 129.00 (128.70 to 129.70): VU034553.D (-2197) (-)

Ion 127.00 (126.70 to 127.70): VU034553.D (-2197) (-)

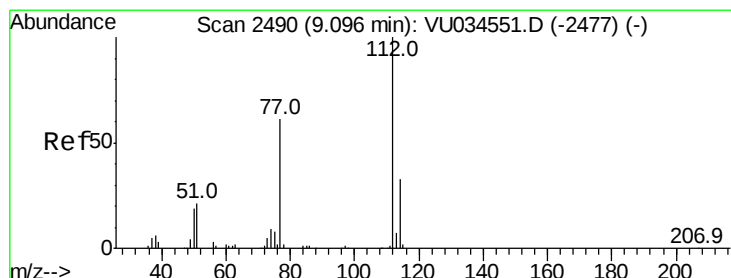
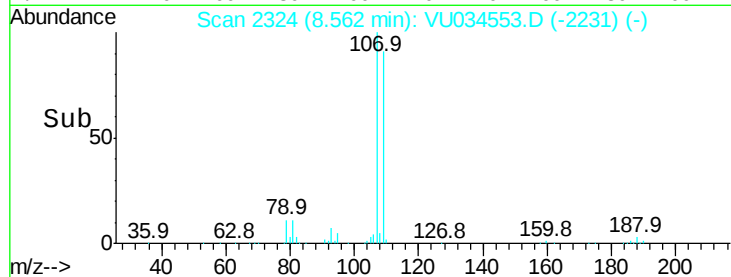
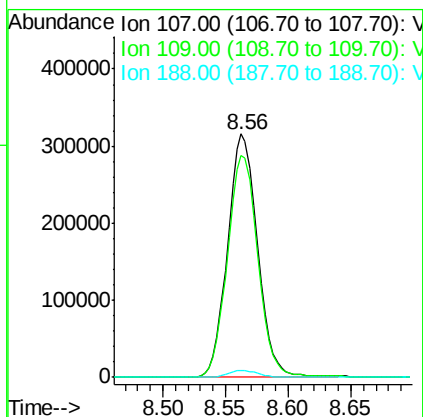
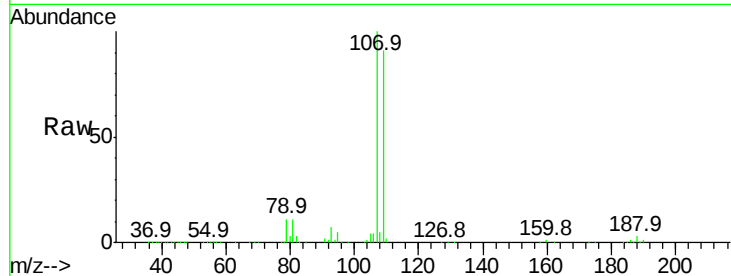




#50
 1,2-Dibromoethane
 Concen: 190.387 ug/L
 RT: 8.56 min Scan# 2324
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

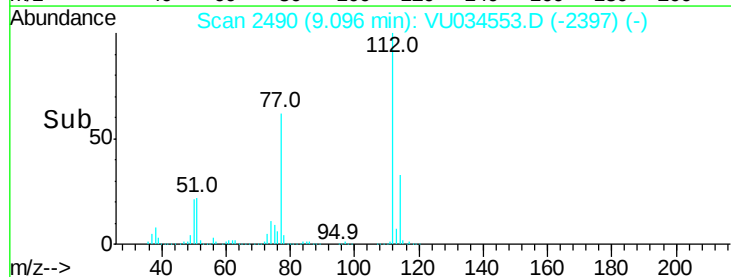
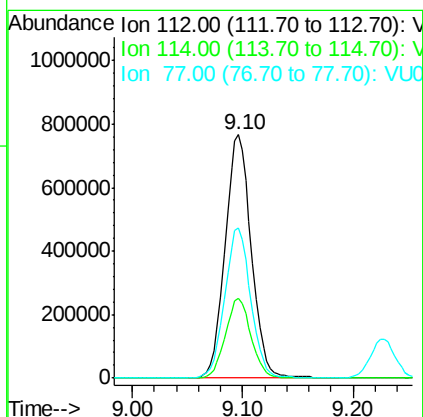
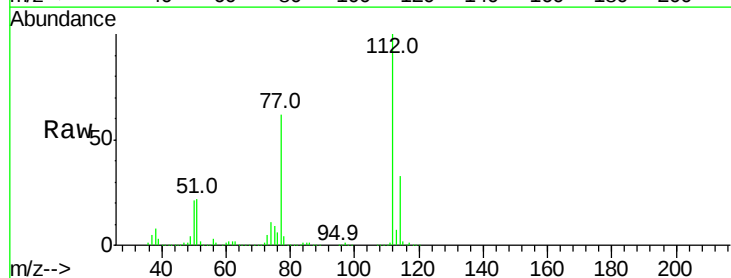
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

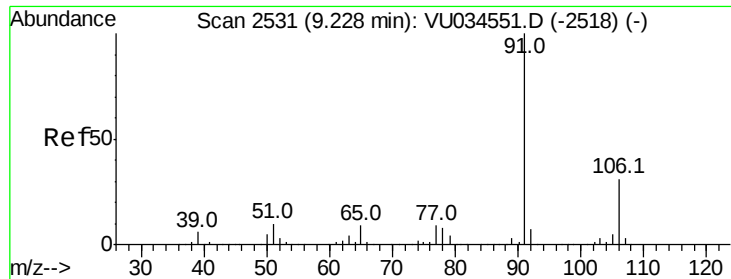
Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.4	65.9	122.3
188	2.7	2.6	3.8



#51
 Chlorobenzene
 Concen: 179.468 ug/L
 RT: 9.10 min Scan# 2490
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	23.0	42.8
77	61.8	49.0	73.6





#52

Ethylbenzene

Concen: 194.530 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

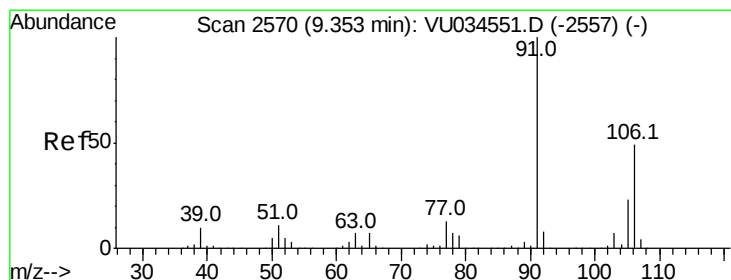
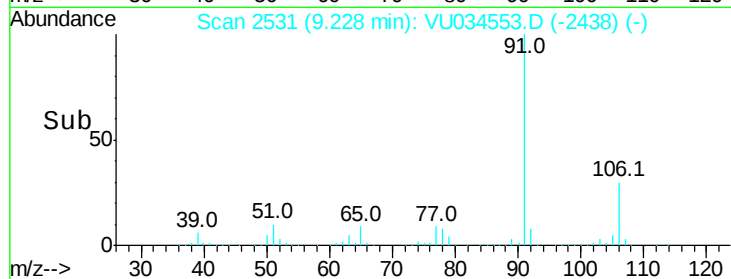
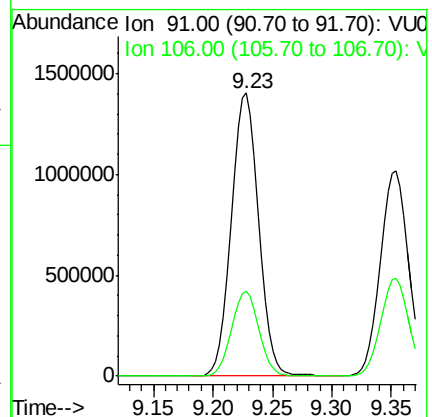
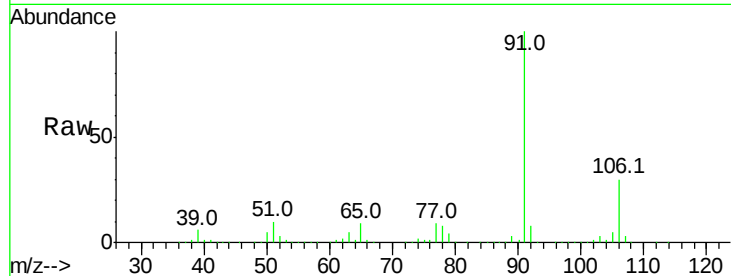
VSTD20034

Tgt Ion: 91 Resp: 2234974

Ion Ratio Lower Upper

91 100

106 30.0 21.4 39.8



#53

m,p-Xylene

Concen: 188.851 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034553.D

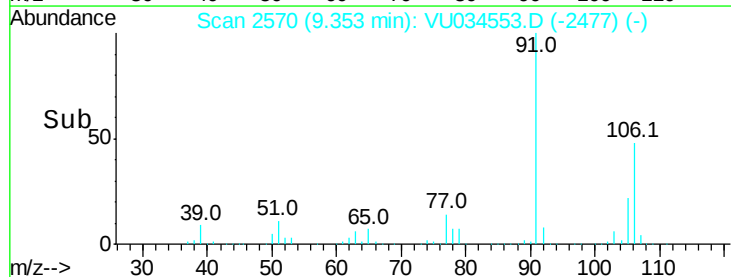
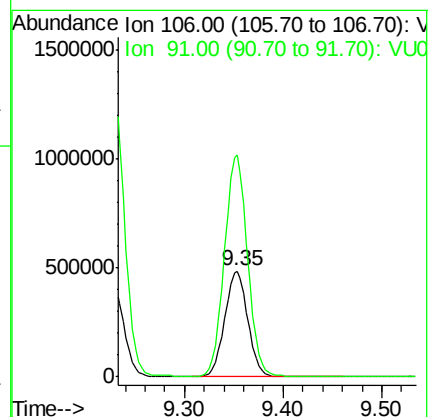
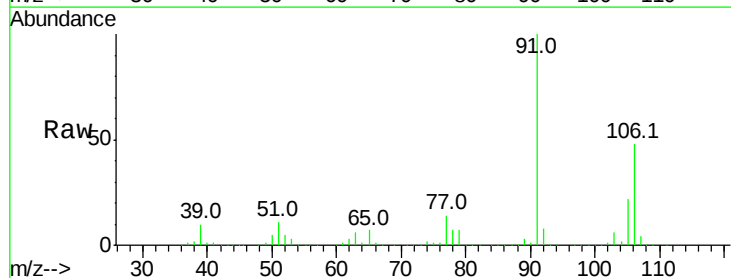
Acq: 16 Sep 2019 12:36

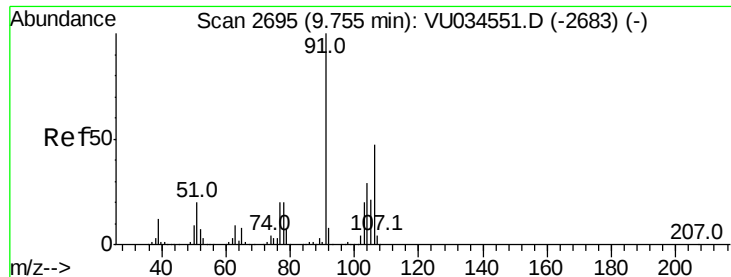
Tgt Ion: 106 Resp: 799555

Ion Ratio Lower Upper

106 100

91 209.2 142.6 264.8





#54

o-xylene

Concen: 193.782 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

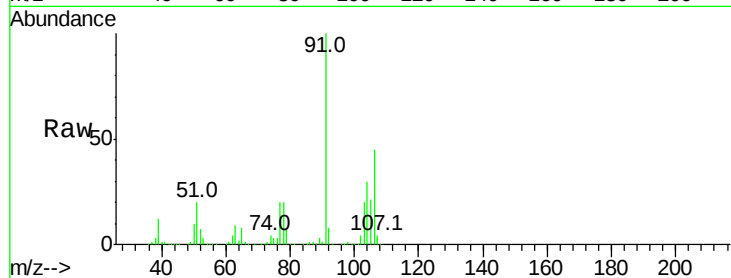
VSTD20034

Tgt Ion:106 Resp: 808720

Ion Ratio Lower Upper

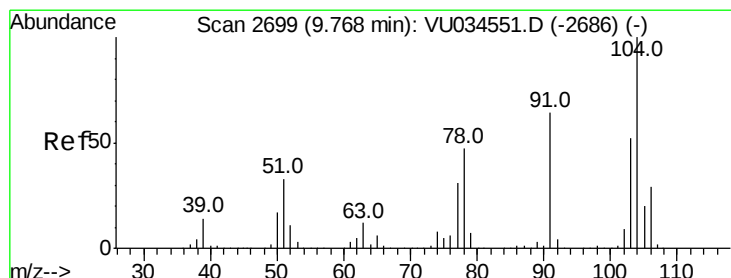
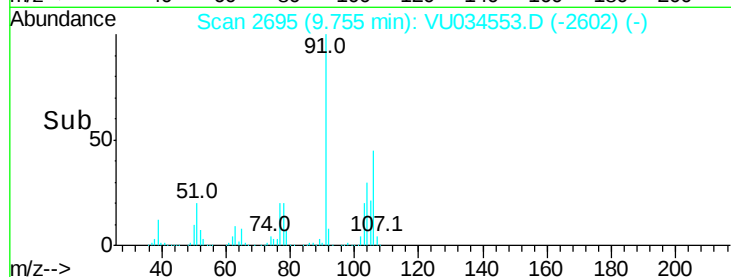
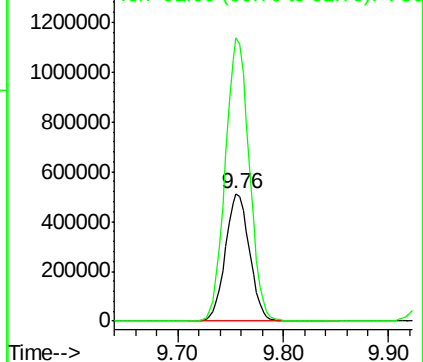
106 100

91 221.7 149.4 277.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 201.986 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034553.D

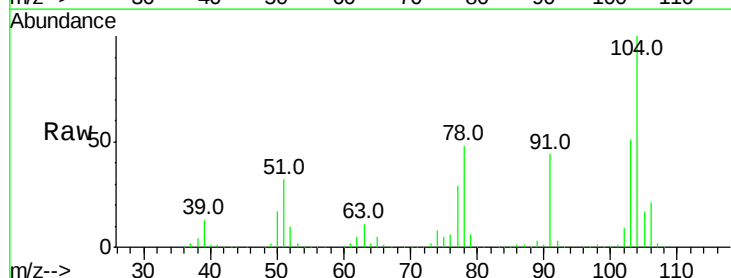
Acq: 16 Sep 2019 12:36

Tgt Ion:104 Resp: 1435334

Ion Ratio Lower Upper

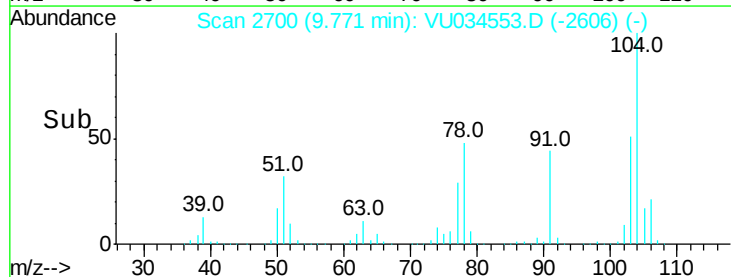
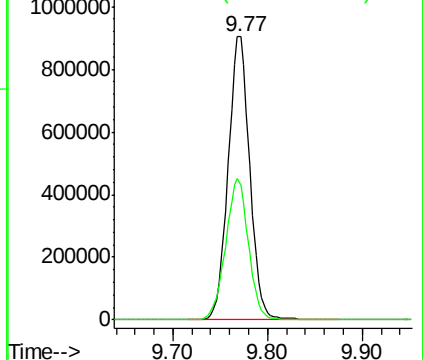
104 100

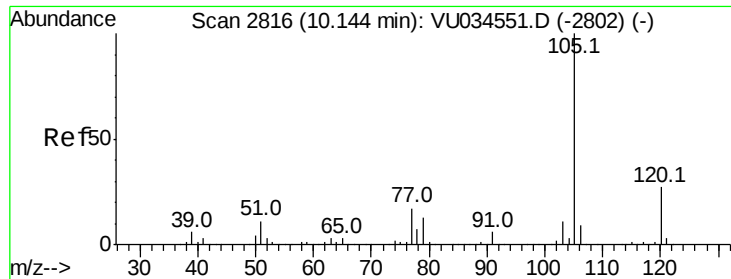
78 47.6 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 202.283 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

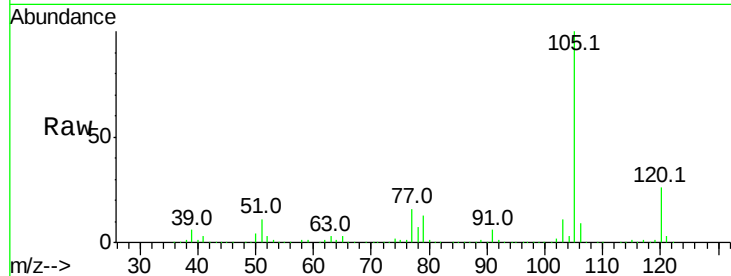
Tgt Ion:105 Resp: 2193693

Ion Ratio Lower Upper

105 100

120 26.3 21.2 31.8

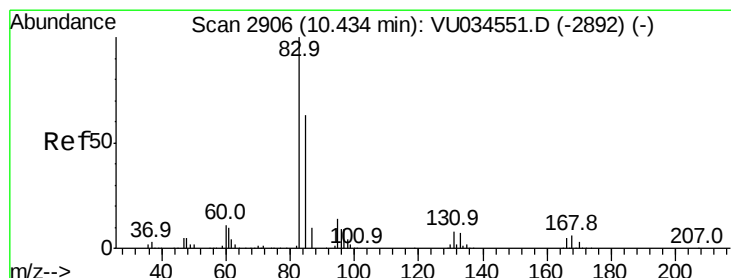
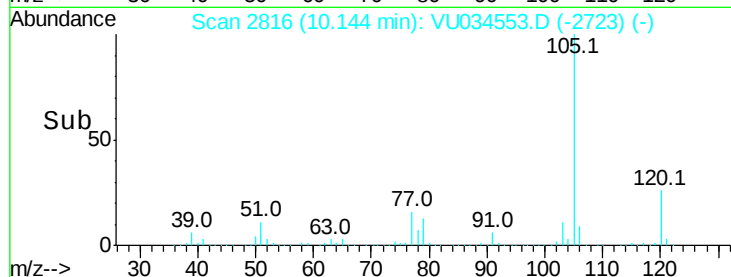
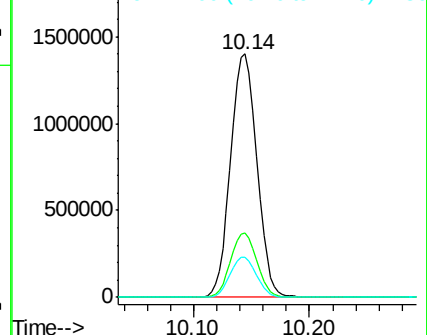
77 16.6 13.5 20.3



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: 228.125 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

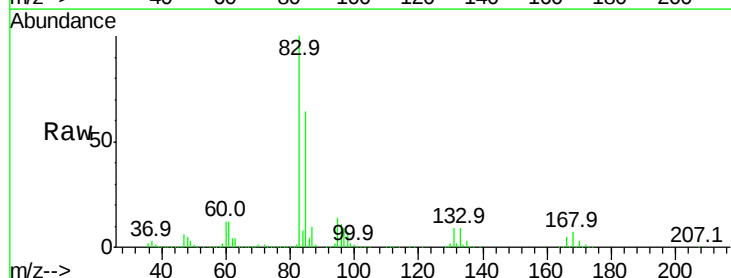
Tgt Ion: 83 Resp: 1020177

Ion Ratio Lower Upper

83 100

85 64.4 44.5 82.7

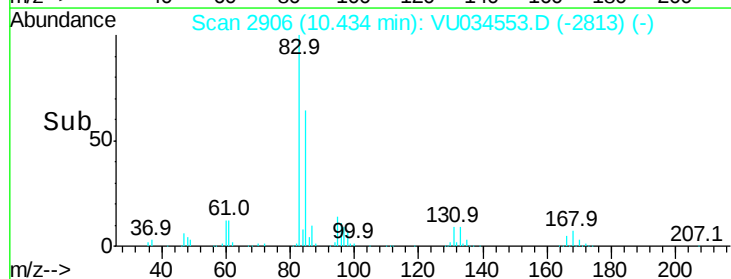
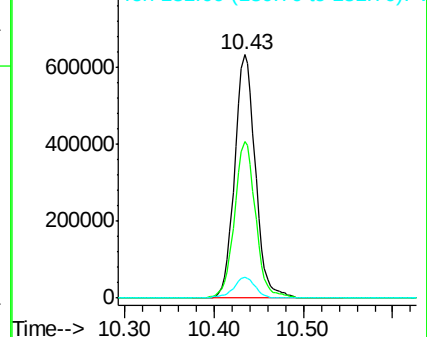
131 8.5 6.8 10.2

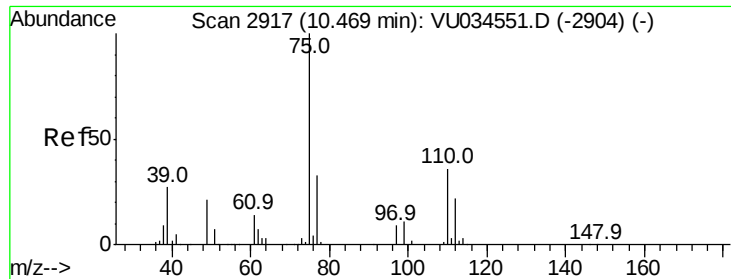


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

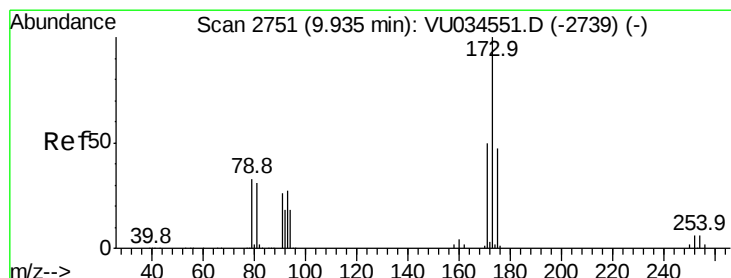
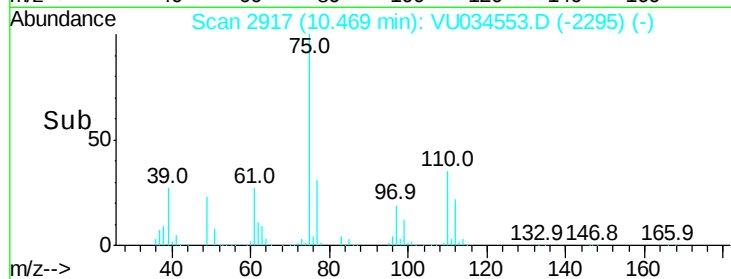
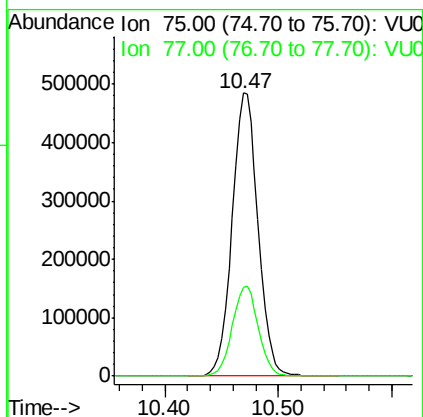
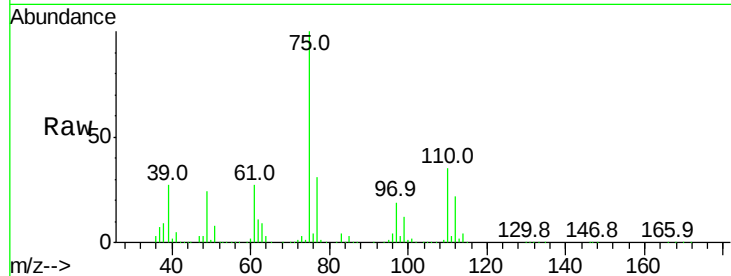




#59
 1,2,3-Trichloropropane
 Concen: 214.034 ug/L
 RT: 10.47 min Scan# 2917
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

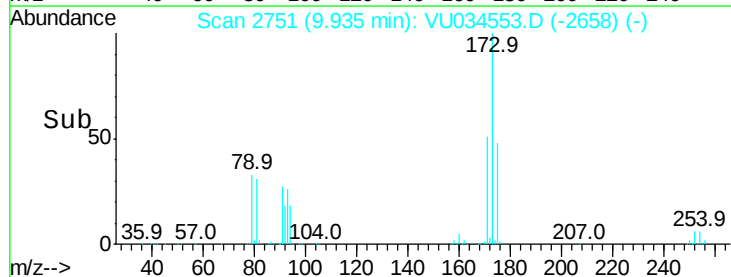
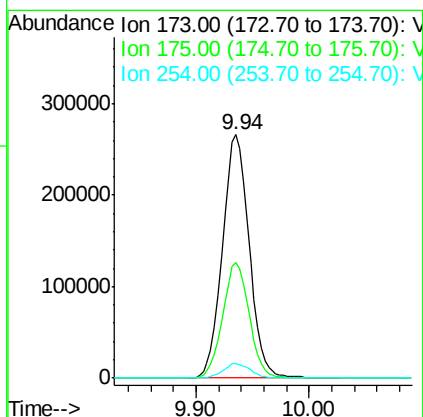
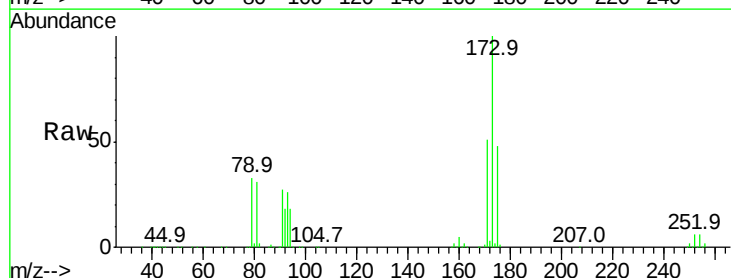
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

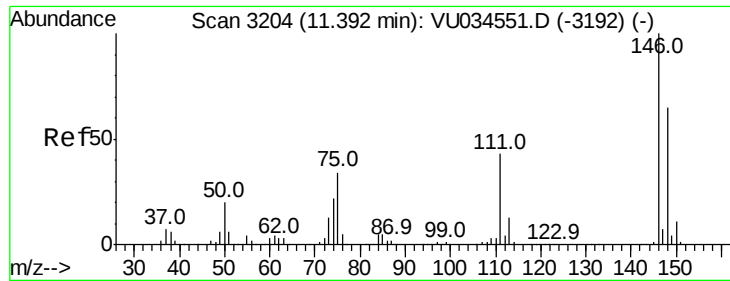
Tgt Ion: 75 Resp: 769242
 Ion Ratio Lower Upper
 75 100
 77 31.9 26.1 39.1



#61
 Bromoform
 Concen: 209.697 ug/L
 RT: 9.94 min Scan# 2751
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

Tgt Ion: 173 Resp: 437962
 Ion Ratio Lower Upper
 173 100
 175 47.4 37.6 56.4
 254 6.1 4.6 7.0





#62

1,3-Dichlorobenzene

Concen: 192.150 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

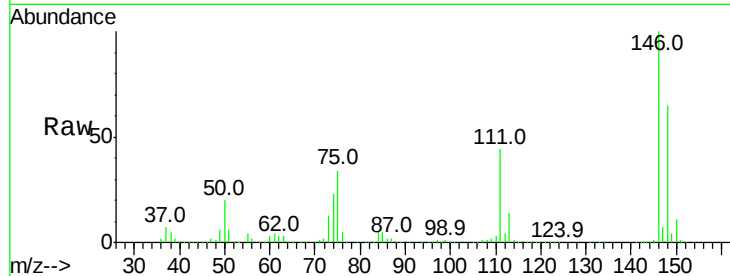
Tgt Ion:146 Resp: 999323

Ion Ratio Lower Upper

146 100

111 43.6 30.2 56.0

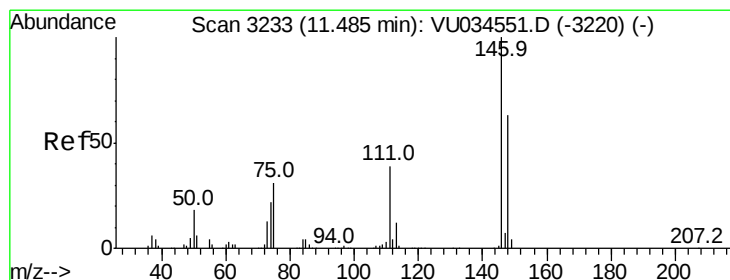
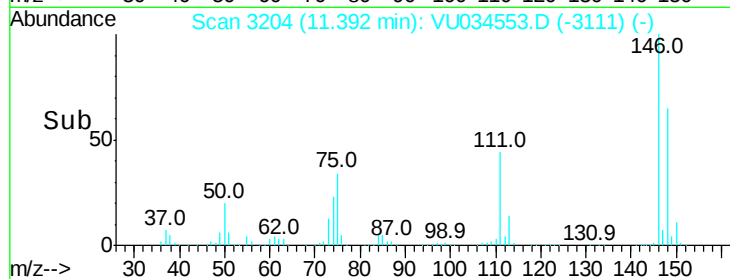
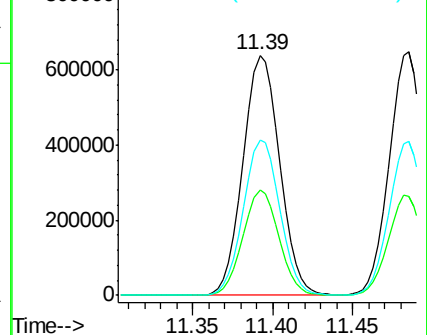
148 64.9 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 185.245 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

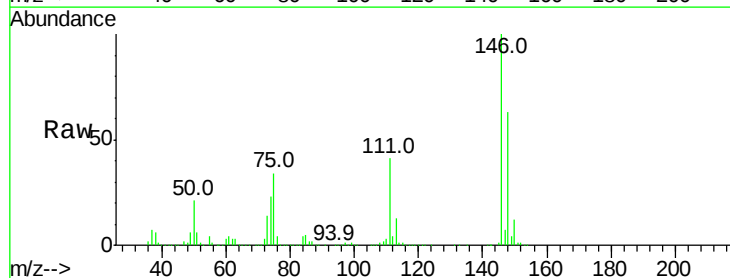
Tgt Ion:146 Resp: 998275

Ion Ratio Lower Upper

146 100

111 40.6 27.6 51.2

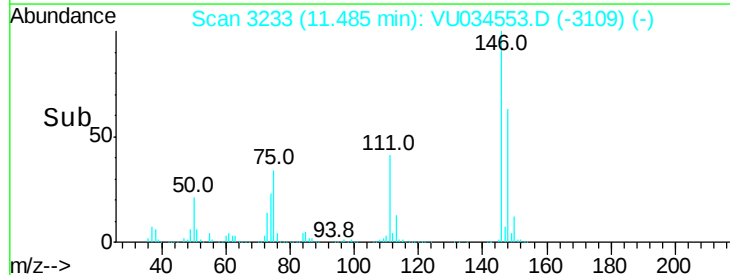
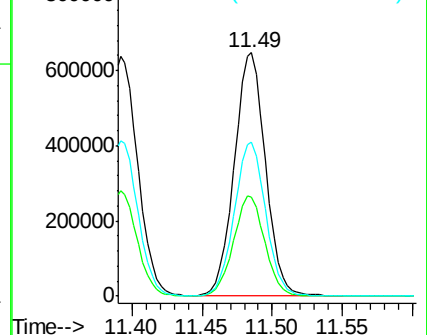
148 63.1 44.0 81.6

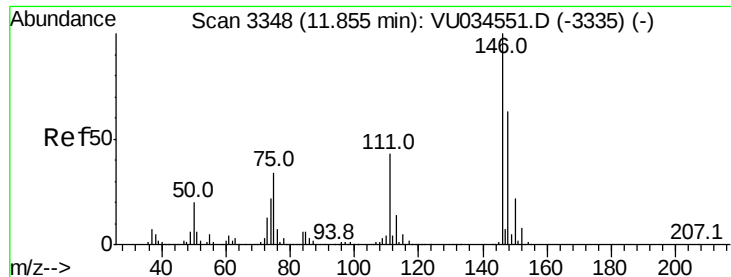


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 193.709 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

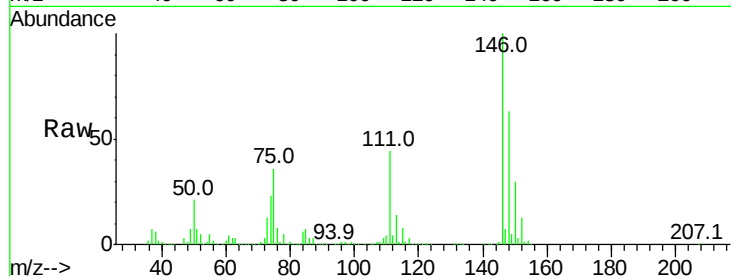
Tgt Ion:146 Resp: 1005080

Ion Ratio Lower Upper

146 100

111 44.4 34.5 51.7

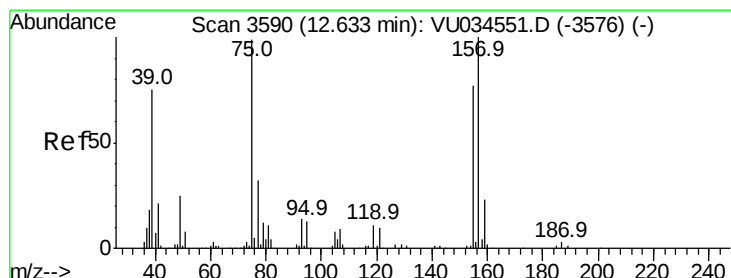
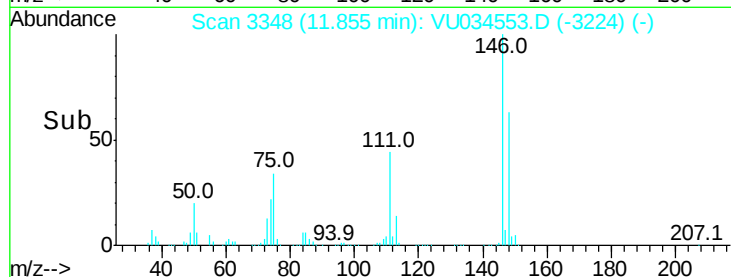
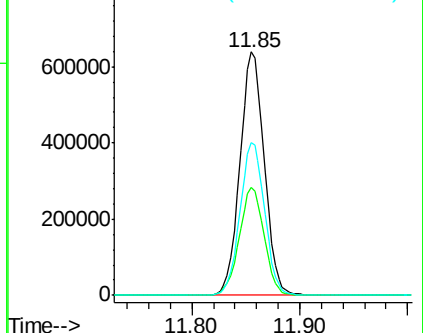
148 62.9 50.7 76.1



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: 253.868 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

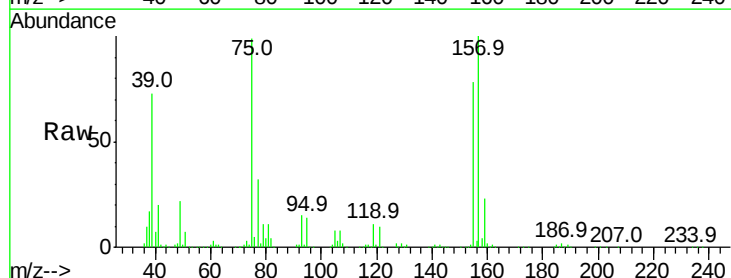
Tgt Ion: 75 Resp: 241576

Ion Ratio Lower Upper

75 100

155 78.9 61.8 92.6

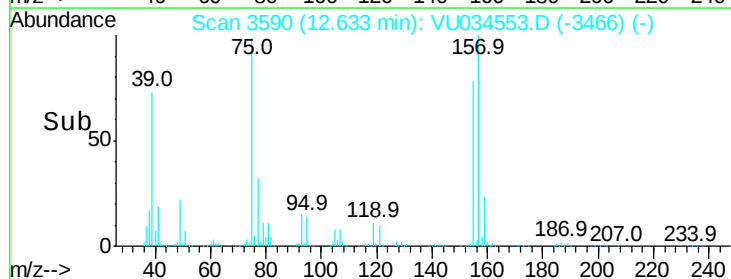
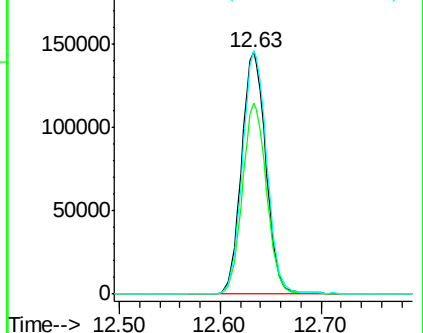
157 100.6 80.5 120.7

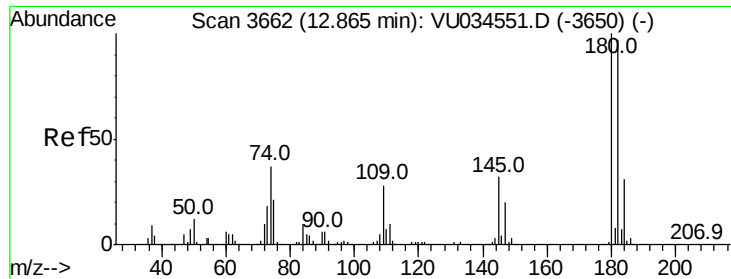


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

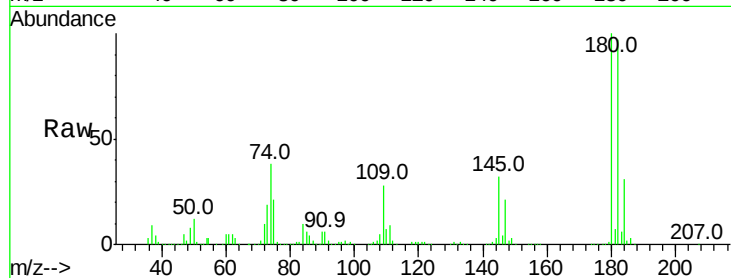




#67
 1,3,5-Trichlorobenzene
 Concen: 168.579 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.9	116.9
184	30.6	24.2	36.4
145	32.1	25.8	38.6

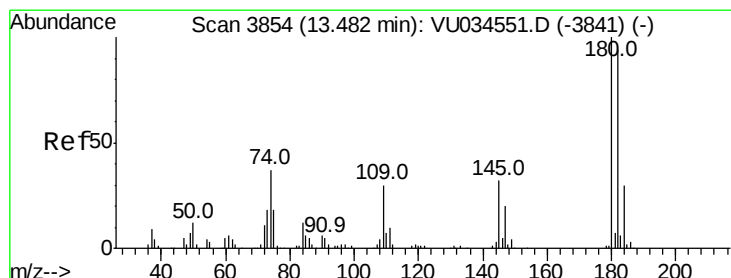
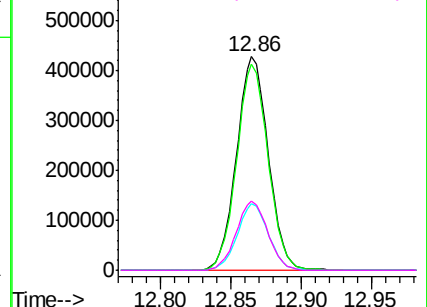
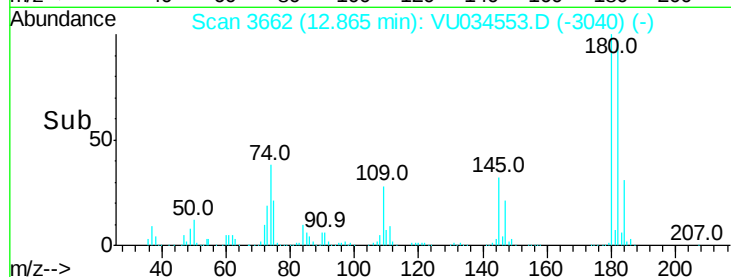


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

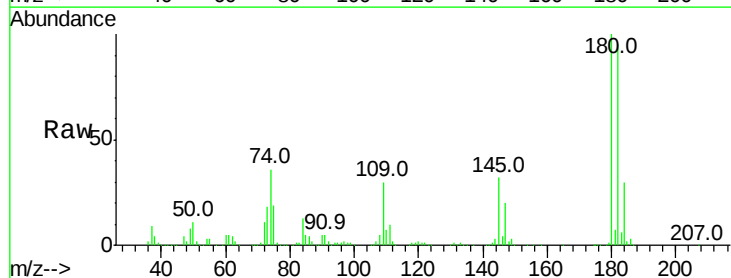
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 194.482 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034553.D
 Acq: 16 Sep 2019 12:36

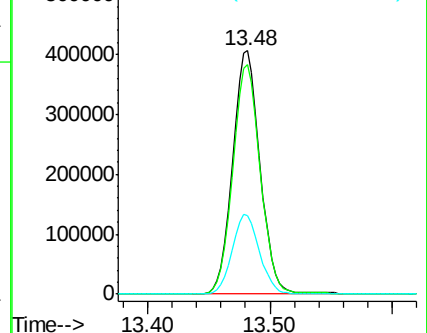
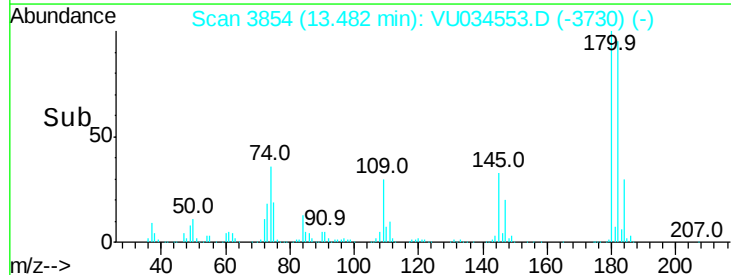
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.7	113.5
145	33.1	25.9	38.9

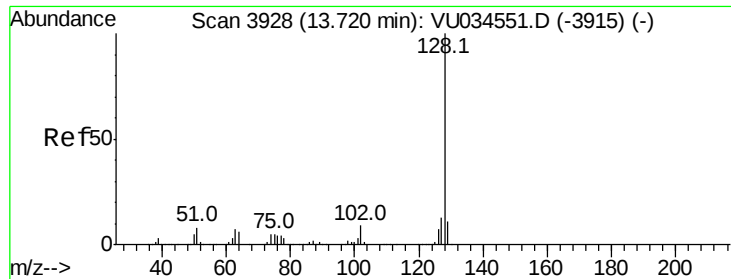


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 253.971 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

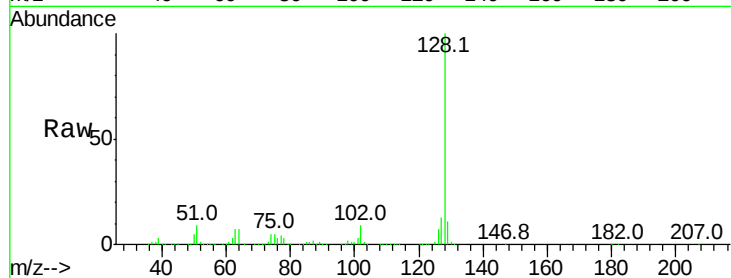
Tgt Ion:128 Resp: 2485498

Ion Ratio Lower Upper

128 100

127 12.9 10.0 15.0

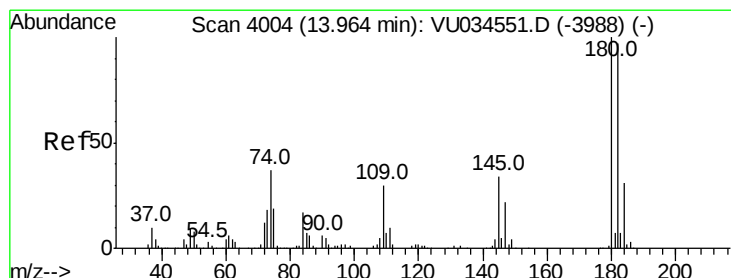
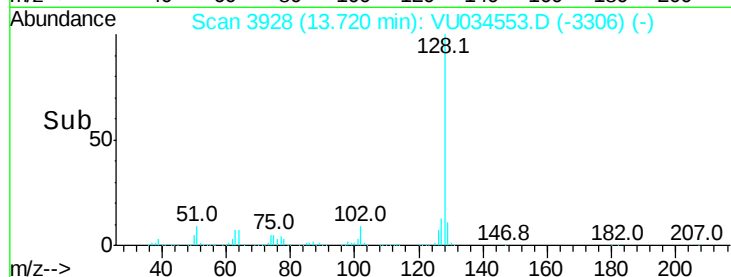
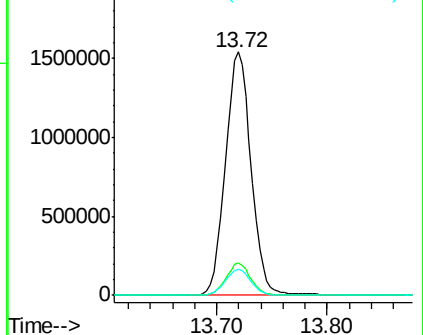
129 10.8 8.6 12.8



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: 179.703 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034553.D

Acq: 16 Sep 2019 12:36

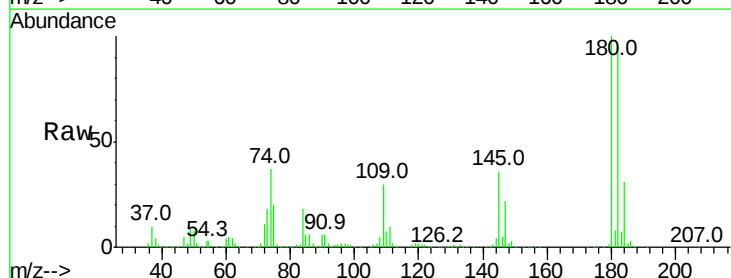
Tgt Ion:180 Resp: 622484

Ion Ratio Lower Upper

180 100

182 95.5 77.1 115.7

145 35.2 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

