

Data File : VU033902.D
Acq On : 22 Aug 2019 16:00
Operator : JC/SP
Sample : VSTD10032
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Quant Time: Aug 23 01:57:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	592282	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	598435	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	311943	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	524312	98.00	ug/L	0.00
7) Chloroethane-d5	1.66	69	411231	84.06	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.25	63	931082	102.45	ug/L	0.00
21) 2-Butanone-d5	4.14	46	773539	262.23	ug/L	0.00
24) Chloroform-d	4.62	84	852788	98.71	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	546582	100.57	ug/L	0.00
32) Benzene-d6	5.32	84	1727022	102.20	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	558521	101.44	ug/L	0.00
41) Toluene-d8	7.54	98	1609633	103.08	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	275611	107.74	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	549270	262.85	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	801203	105.07	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	620523	98.92	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	532081	91.796	ug/L	100
3) Chloromethane	1.32	50	524562	88.610	ug/L	99
5) Vinyl chloride	1.39	62	600285	90.775	ug/L	99
6) Bromomethane	1.60	94	237022	52.110	ug/L	97
8) Chloroethane	1.68	64	358206	78.807	ug/L	99
9) Trichlorofluoromethane	1.87	101	691737	79.864	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	395609	92.758	ug/L	98
12) 1,1-Dichloroethene	2.26	96	384907	93.656	ug/L	95
13) Acetone	2.30	43	616536	214.104	ug/L	99
14) Carbon disulfide	2.46	76	1221498	94.205	ug/L	99
15) Methyl Acetate	2.59	43	558204	117.184	ug/L	99
16) Methylene chloride	2.68	84	458676	95.394	ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	419383	97.330	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1333223	105.461	ug/L	99
19) 1,1-Dichloroethane	3.42	63	834769	99.879	ug/L	98
20) cis-1,2-Dichloroethene	4.19	96	481330	103.198	ug/L	96
22) 2-Butanone	4.23	43	851922	254.008	ug/L	99
23) Bromochloromethane	4.52	128	238167	94.563	ug/L	98
25) Chloroform	4.64	83	821400	95.279	ug/L	98
27) 1,2-Dichloroethane	5.38	62	644247	98.189	ug/L	100
29) Cyclohexane	4.97	56	733881	111.852	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	667430	92.381	ug/L	99
31) Carbon tetrachloride	5.11	117	596633	90.948	ug/L	100
33) Benzene	5.36	78	1783268	97.594	ug/L	100
34) Trichloroethene	6.16	95	450324	93.169	ug/L	99
35) Methylcyclohexane	6.39	83	739853	103.449	ug/L	99
37) 1,2-Dichloropropane	6.41	63	482995	96.721	ug/L	99
38) Bromodichloromethane	6.73	83	621855	96.137	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	783483	107.079	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	1505146	246.635	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	1889053	98.424	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	696969	103.936	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	442622	94.552	ug/L	98
46) Tetrachloroethene	8.21	164	349482	90.444	ug/L	97
48) 2-Hexanone	8.34	43	1182957	248.230	ug/L	99
49) Dibromochloromethane	8.46	129	500253	95.374	ug/L	100
50) 1,2-Dibromoethane	8.57	107	484698	97.710	ug/L	99
51) Chlorobenzene	9.10	112	1210746	95.569	ug/L	99
52) Ethylbenzene	9.23	91	2112102	103.490	ug/L	100
53) m,p-Xylene	9.36	106	792996	104.147	ug/L	99
54) o-xylene	9.76	106	784630	106.100	ug/L	100
55) Styrene	9.77	104	1361819	107.632	ug/L	98
56) Isopropylbenzene	10.15	105	2059096	106.562	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	788971	103.213	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	624222	102.332	ug/L	100
61) Bromoform	9.94	173	385009	97.879	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	966432	97.861	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	970764	94.971	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	960310	97.119	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	183214	108.502	ug/L	94
67) 1,3,5-Trichlorobenzene	12.87	180	755663	99.400	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	672147	107.643	ug/L	99
69) Naphthalene	13.73	128	2164464	123.430	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	691116	106.772	ug/L	99

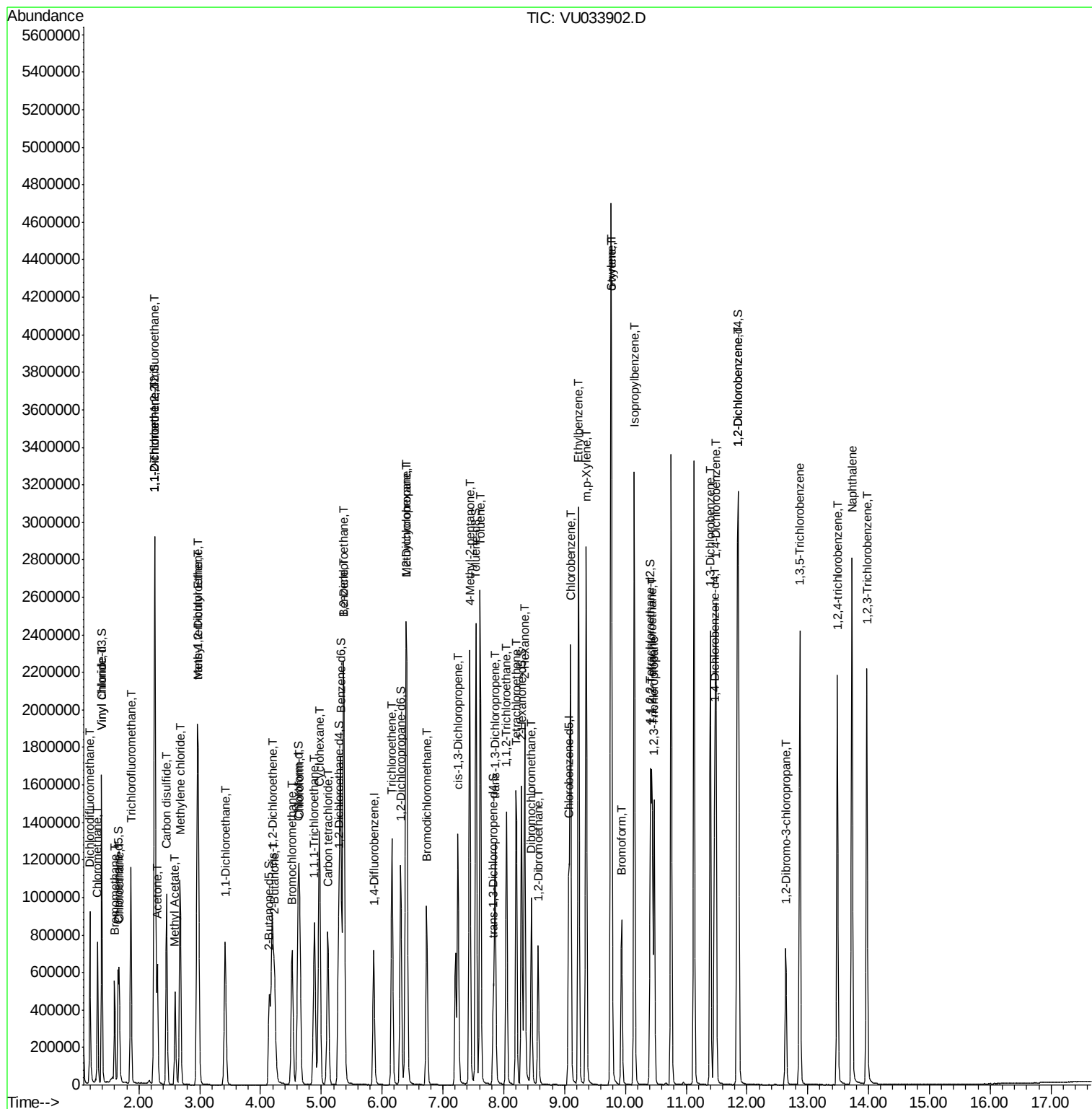
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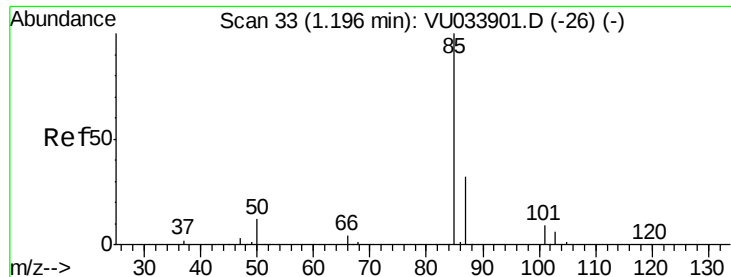
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#2

Dichlorodifluoromethane

Concen: 91.796 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

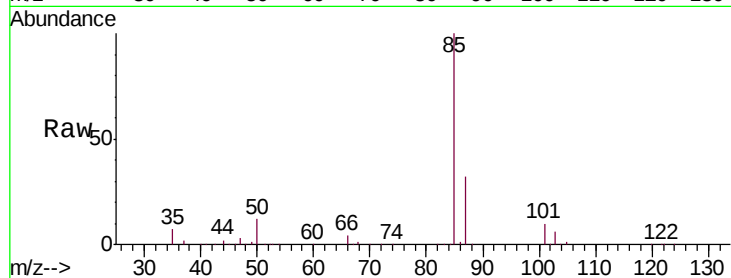
VSTD10032

Tgt Ion: 85 Resp: 532081

Ion Ratio Lower Upper

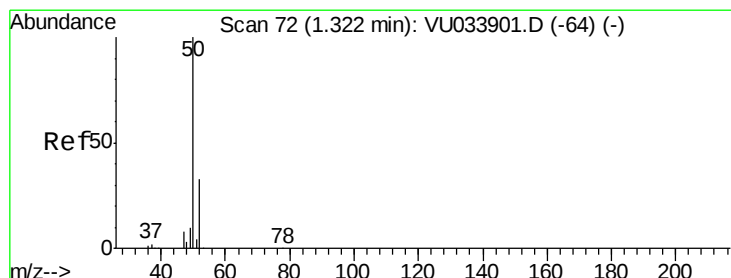
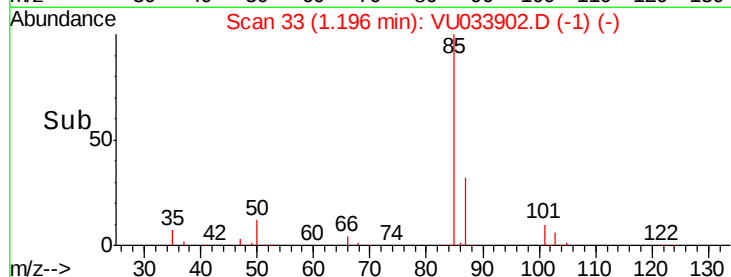
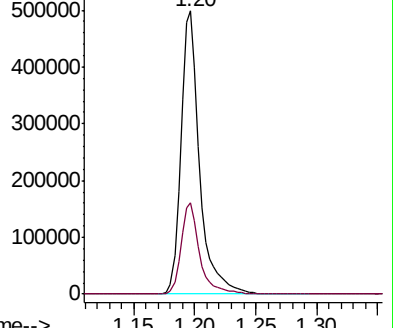
85 100

87 32.1 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU033901.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033901.D (-26) (-)



#3

Chloromethane

Concen: 88.610 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033902.D

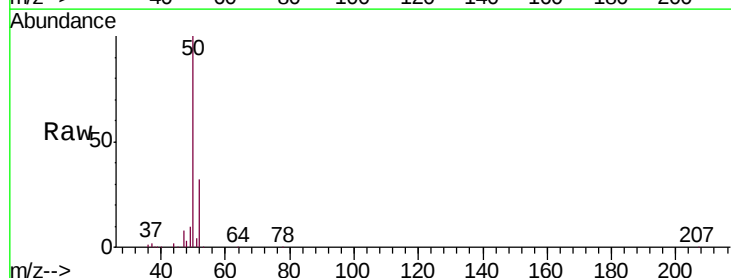
Acq: 22 Aug 2019 16:00

Tgt Ion: 50 Resp: 524562

Ion Ratio Lower Upper

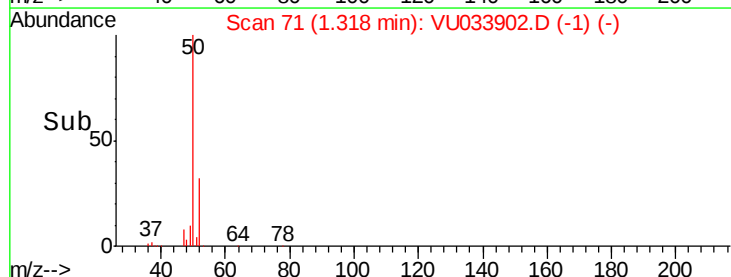
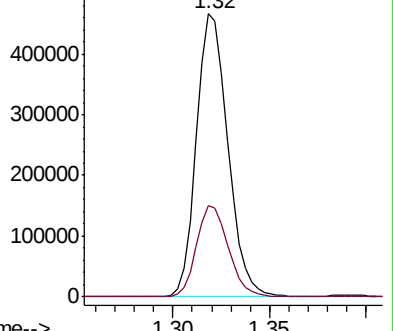
50 100

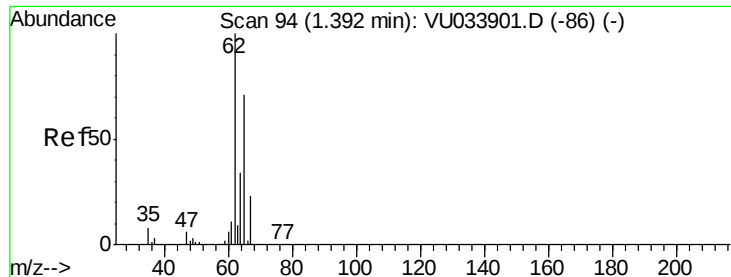
52 32.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU033901.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033901.D (-64) (-)





#5

Vinyl chloride

Concen: 90.775 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

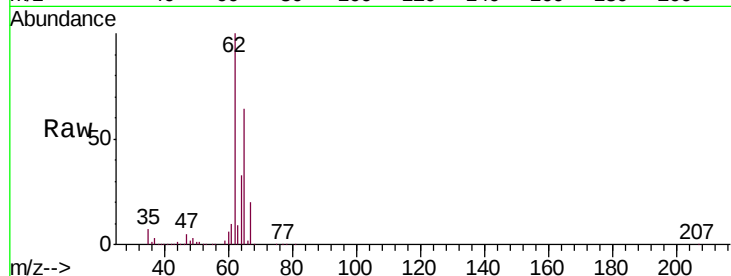
VSTD10032

Tgt Ion: 62 Resp: 600285

Ion Ratio Lower Upper

62 100

64 33.1 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU033901.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033901.D (-86) (-)

1.39

600000

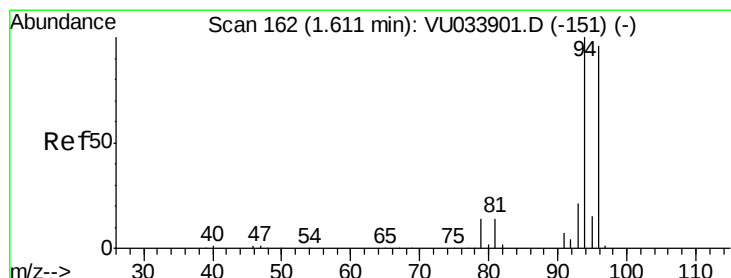
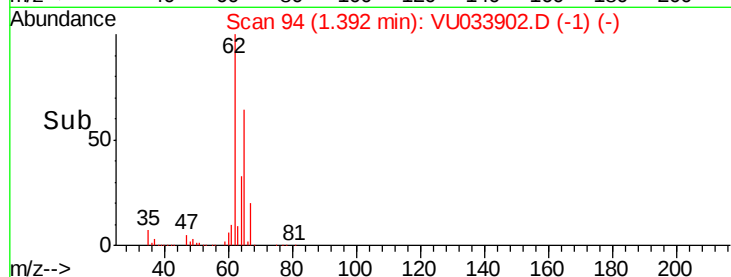
400000

200000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 52.110 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU033902.D

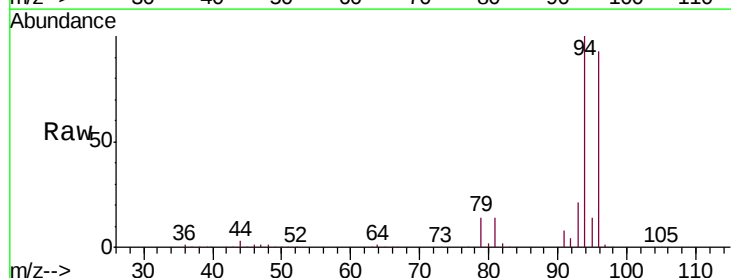
Acq: 22 Aug 2019 16:00

Tgt Ion: 94 Resp: 237022

Ion Ratio Lower Upper

94 100

96 93.0 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU033901.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU033901.D (-151) (-)

1.60

200000

150000

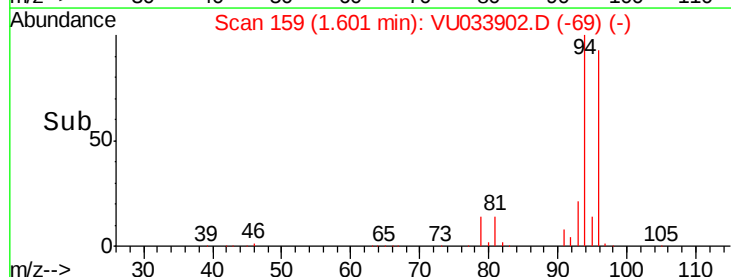
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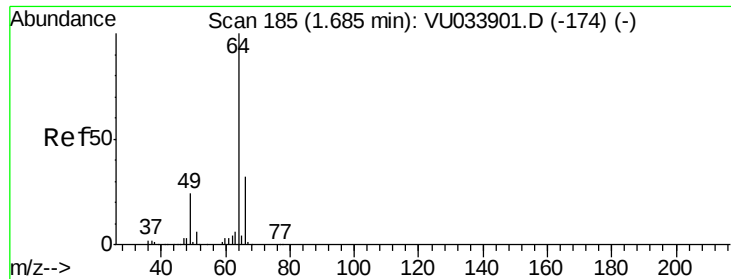
50000

0

Time-->

1.55 1.60 1.65





#8

Chloroethane

Concen: 78.807 ug/L

RT: 1.68 min Scan# 183

Delta R.T. -0.01 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

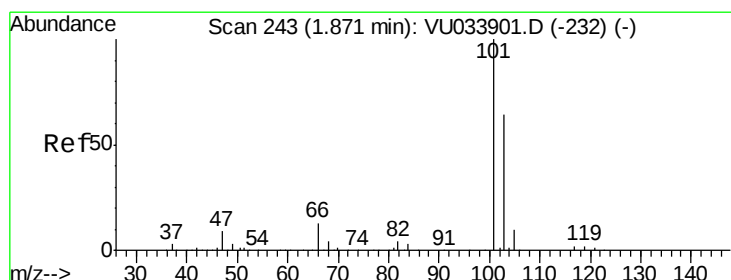
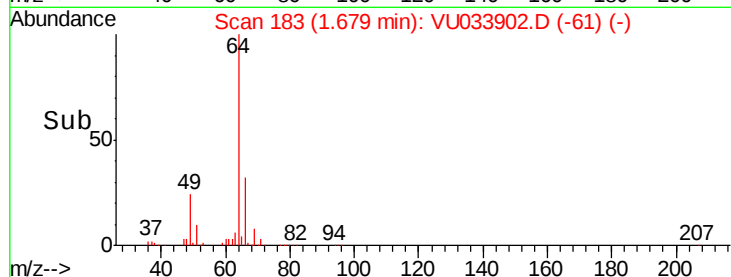
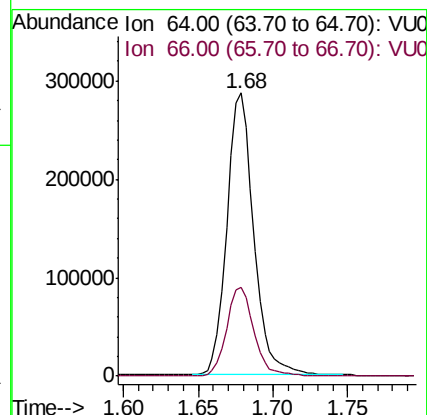
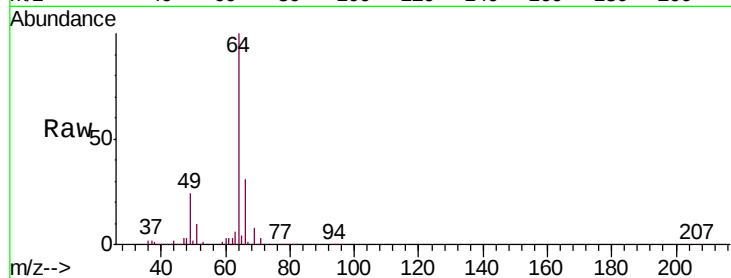
VSTD10032

Tgt Ion: 64 Resp: 358206

Ion Ratio Lower Upper

64 100

66 31.4 22.3 41.5



#9

Trichlorofluoromethane

Concen: 79.864 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.00 min

Lab File: VU033902.D

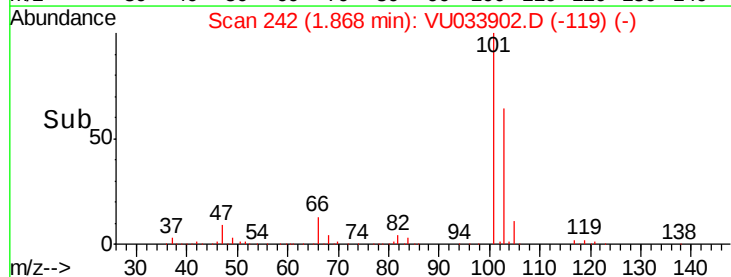
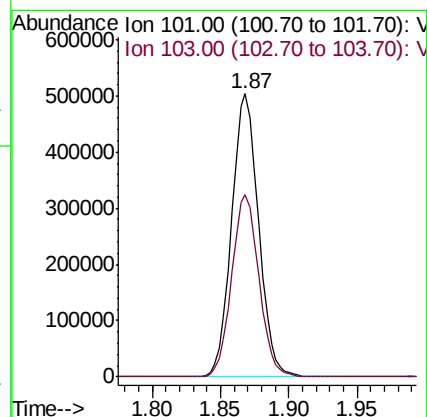
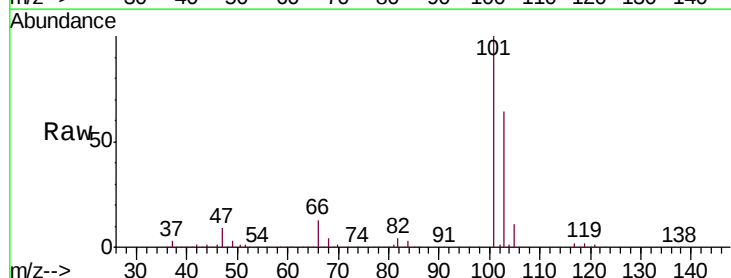
Acq: 22 Aug 2019 16:00

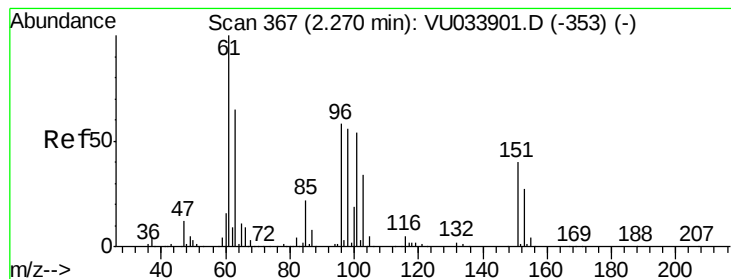
Tgt Ion: 101 Resp: 691737

Ion Ratio Lower Upper

101 100

103 65.1 50.9 76.3





#10

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

Concen: 92.758 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

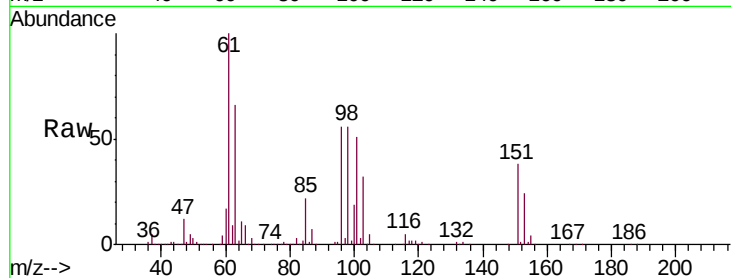
Tgt Ion: 101 Resp: 395609

Ion Ratio Lower Upper

101 100

85 43.2 33.7 50.5

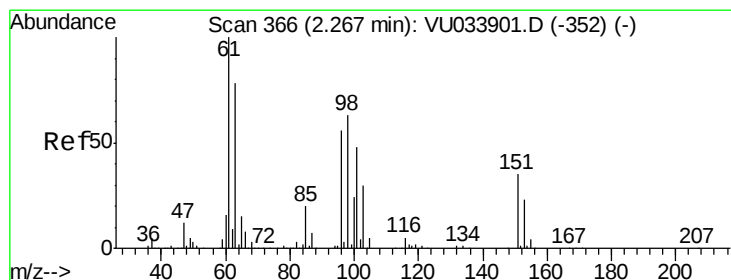
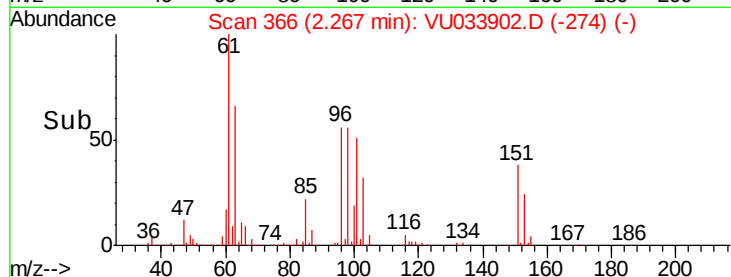
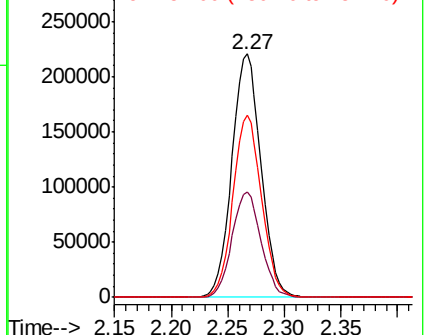
151 73.4 57.8 86.6



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: 93.656 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

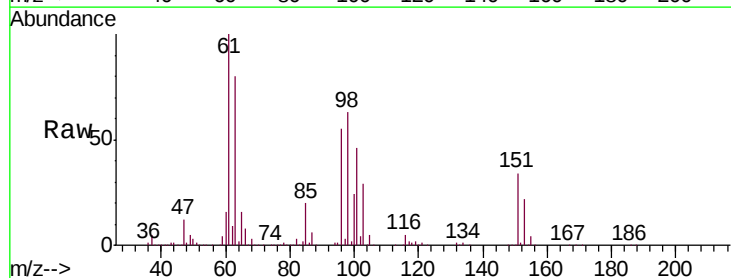
Tgt Ion: 96 Resp: 384907

Ion Ratio Lower Upper

96 100

61 183.3 124.7 231.5

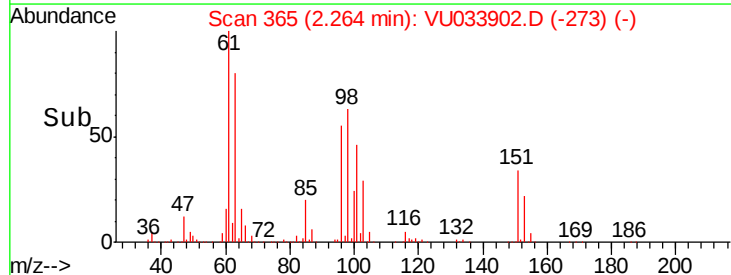
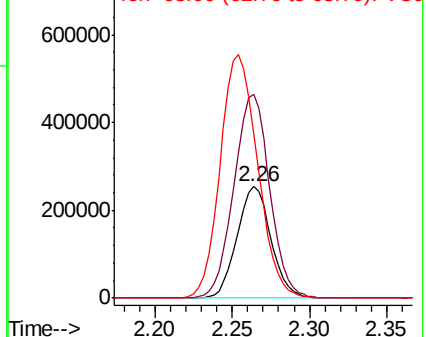
63 147.2 97.9 181.9

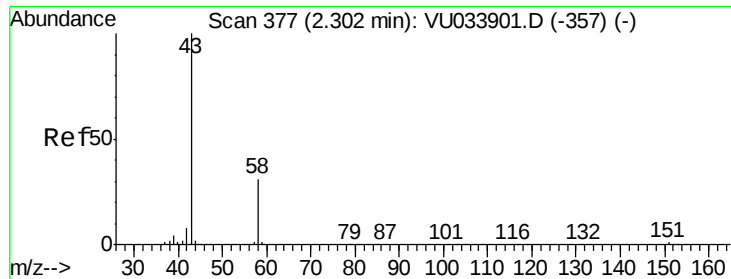


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 214.104 ug/L

RT: 2.30 min Scan# 377

Delta R.T. 0.00 min

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Acq: 22 Aug 2019 16:00

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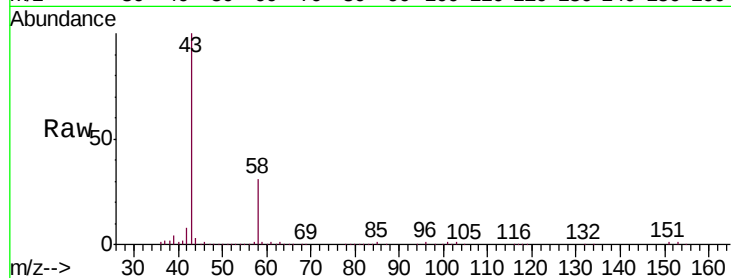
VSTD10032

Tgt Ion: 43 Resp: 616536

Ion Ratio Lower Upper

43 100

58 31.6 0.0 62.4



Abundance Ion 43.00 (42.70 to 43.70): VU033902.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033902.D (-357) (-)

2.30

400000

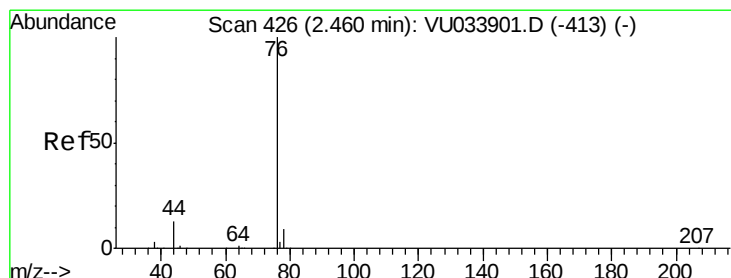
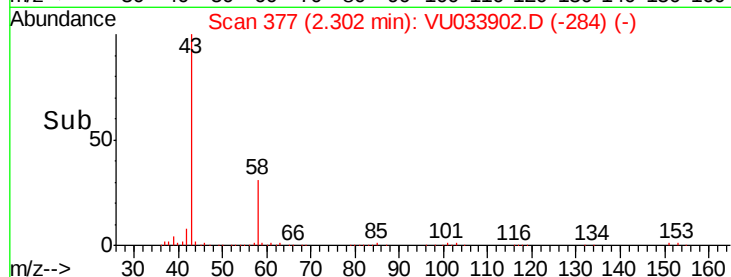
300000

200000

100000

0

Time-->



#14

Carbon disulfide

Concen: 94.205 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VU033902.D

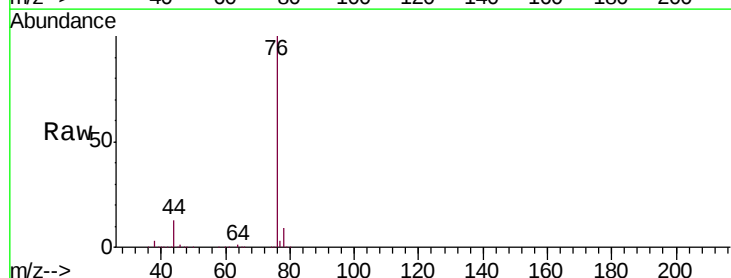
Acq: 22 Aug 2019 16:00

Tgt Ion: 76 Resp: 1221498

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033902.D (-333) (-)

Ion 78.00 (77.70 to 78.70): VU033902.D (-333) (-)

2.46

800000

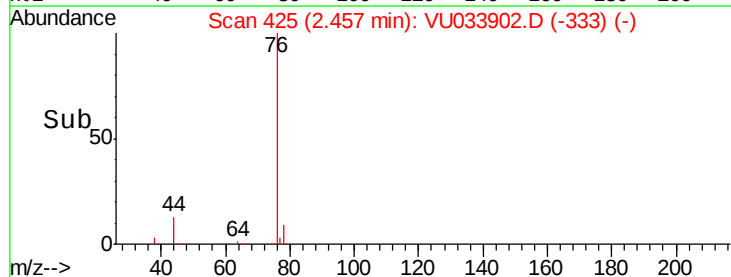
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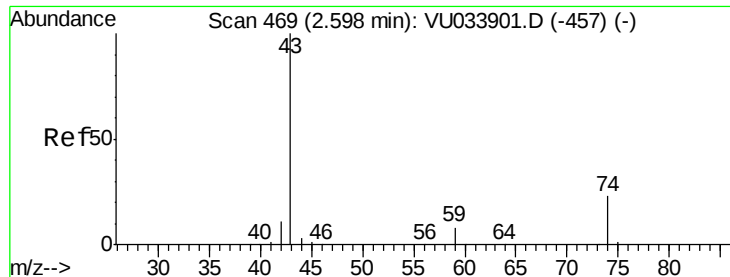
400000

200000

0

Time-->

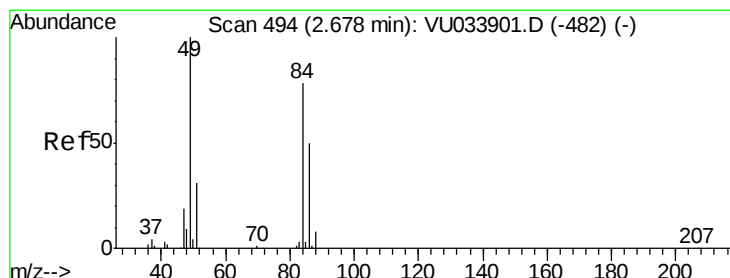
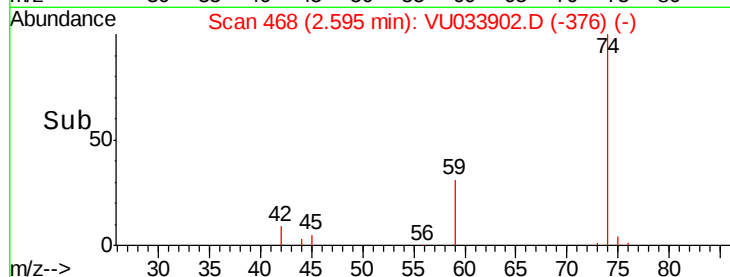
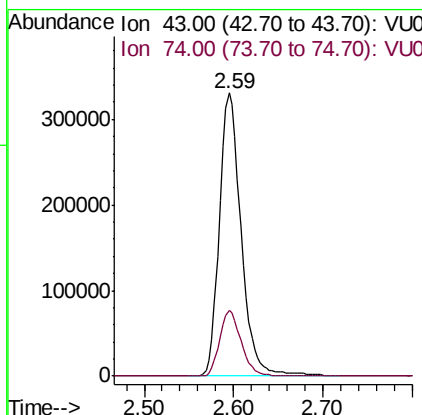
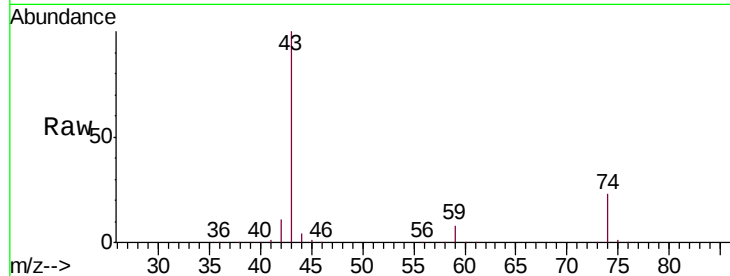




#15
Methyl Acetate
Concen: 117.184 ug/L
RT: 2.59 min Scan# 468
Delta R.T. -0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

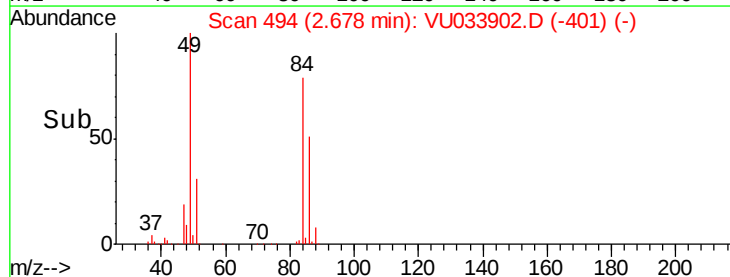
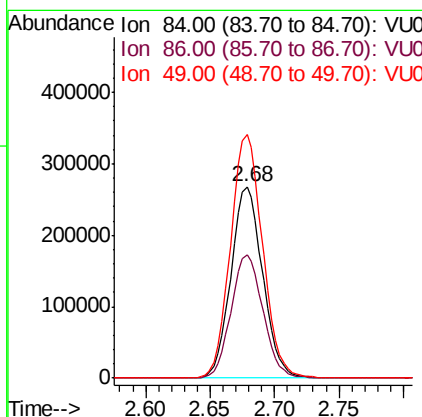
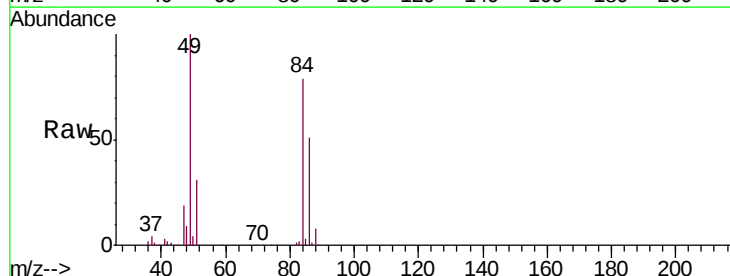
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

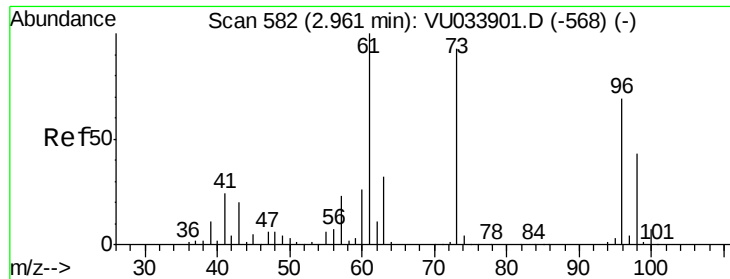
Tgt Ion: 43 Resp: 558204
Ion Ratio Lower Upper
43 100
74 22.8 18.6 27.8



#16
Methylene chloride
Concen: 95.394 ug/L
RT: 2.68 min Scan# 494
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Tgt Ion: 84 Resp: 458676
Ion Ratio Lower Upper
84 100
86 64.5 45.3 84.1
49 127.1 90.2 167.6

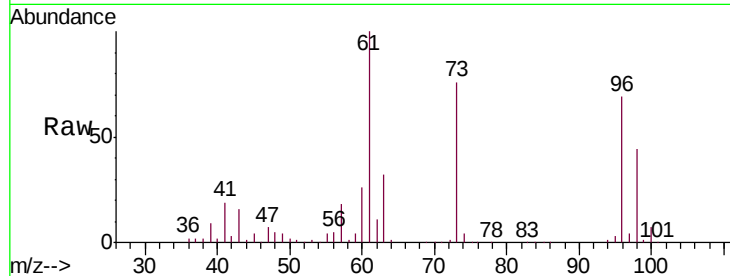




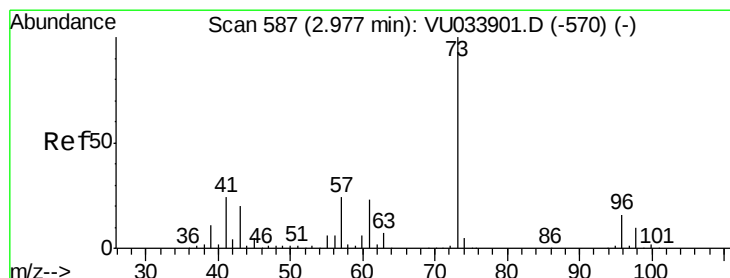
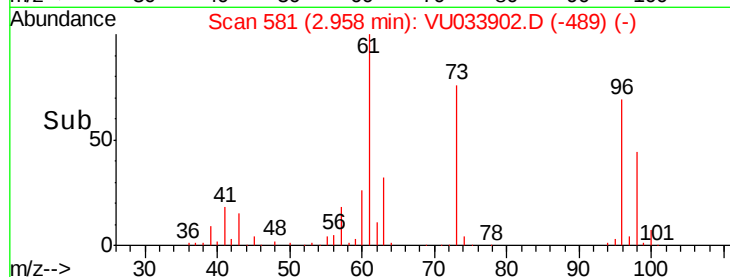
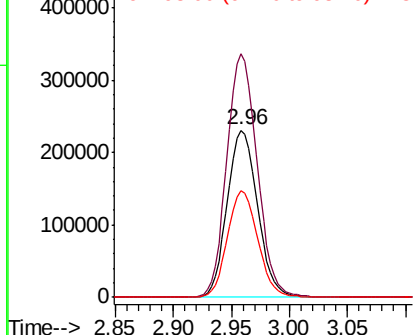
#17
trans-1,2-Dichloroethene
Concen: 97.330 ug/L
RT: 2.96 min Scan# 581
Delta R.T. -0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Tgt Ion: 96 Resp: 419383
Ion Ratio Lower Upper
96 100
61 145.5 101.2 187.8
98 63.5 44.0 81.6

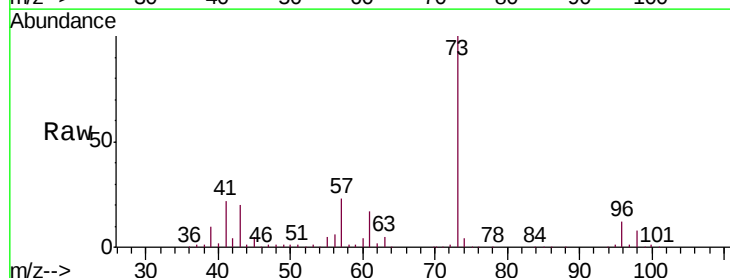


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

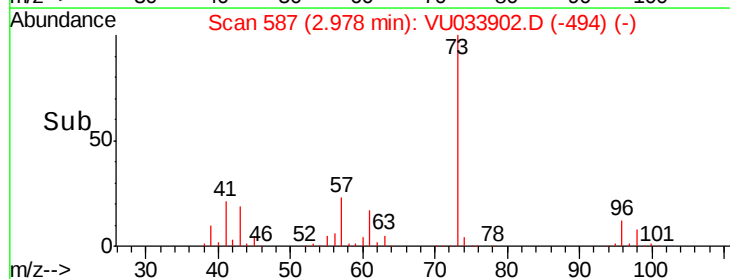
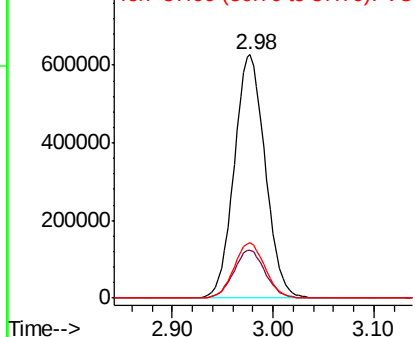


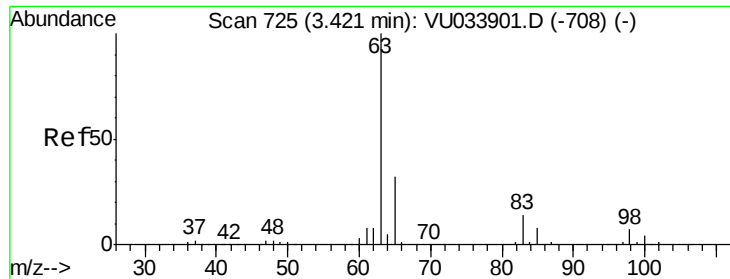
#18
Methyl tert-butyl Ether
Concen: 105.461 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Tgt Ion: 73 Resp: 1333223
Ion Ratio Lower Upper
73 100
43 20.0 16.3 24.5
57 23.0 18.8 28.2



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

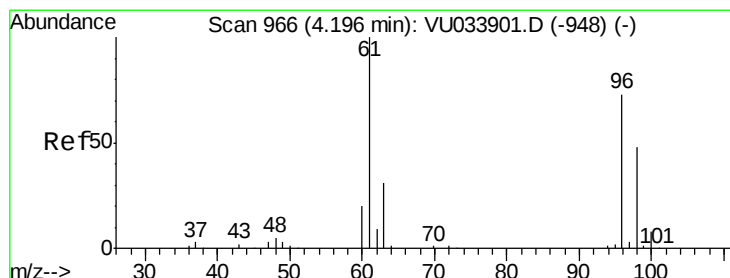
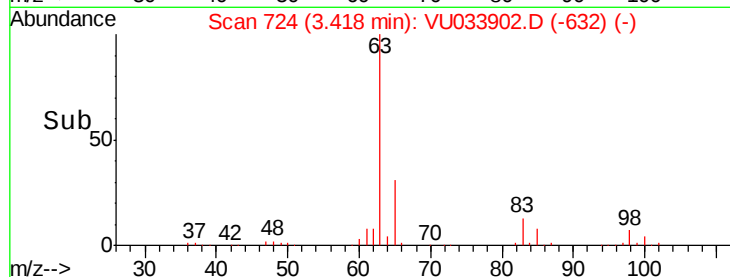
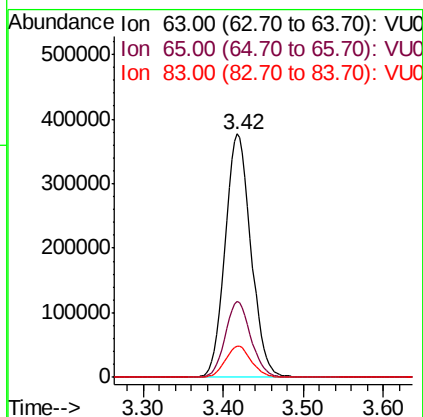
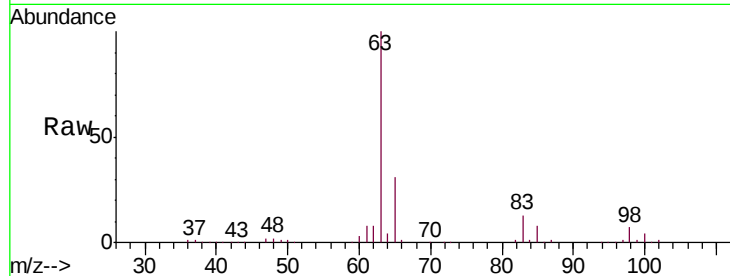




#19
 1,1-Dichloroethane
 Concen: 99.879 ug/L
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

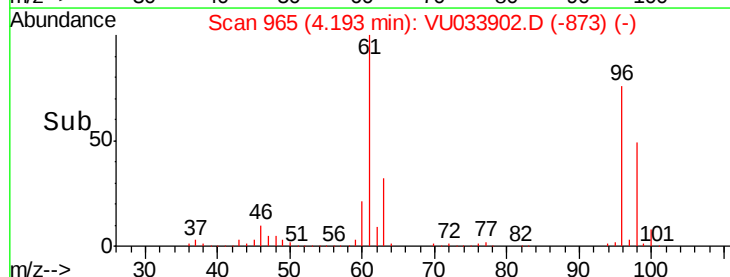
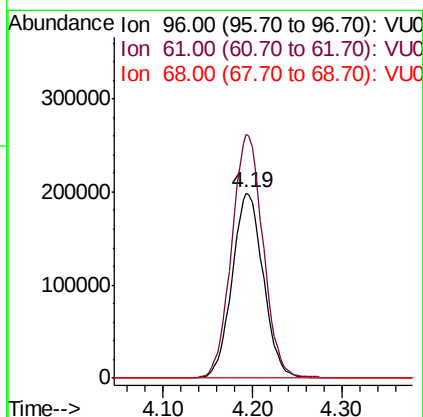
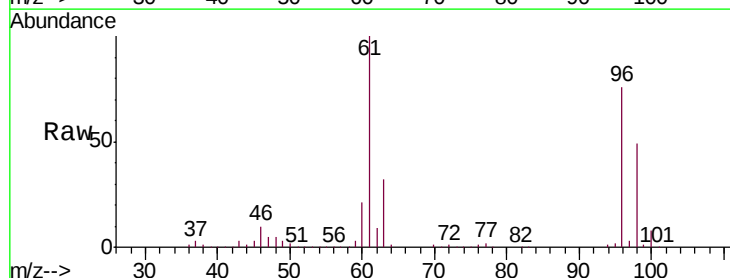
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

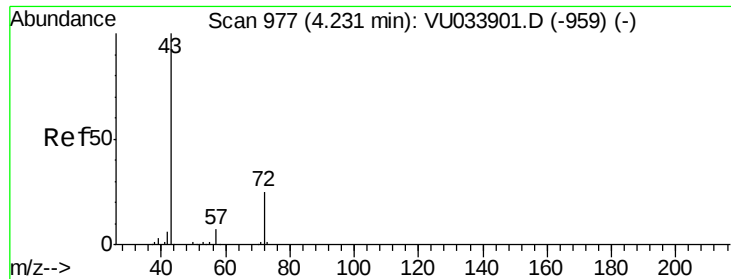
Tgt Ion: 63 Resp: 834769
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.4 41.6
 83 13.1 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 103.198 ug/L
 RT: 4.19 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion: 96 Resp: 481330
 Ion Ratio Lower Upper
 96 100
 61 131.4 95.5 177.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 254.008 ug/L

RT: 4.23 min Scan# 977

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

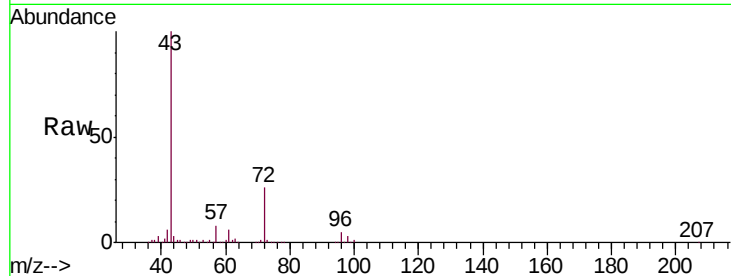
VSTD10032

Tgt Ion: 43 Resp: 851922

Ion Ratio Lower Upper

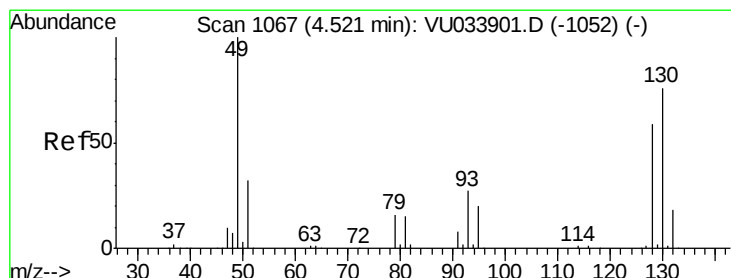
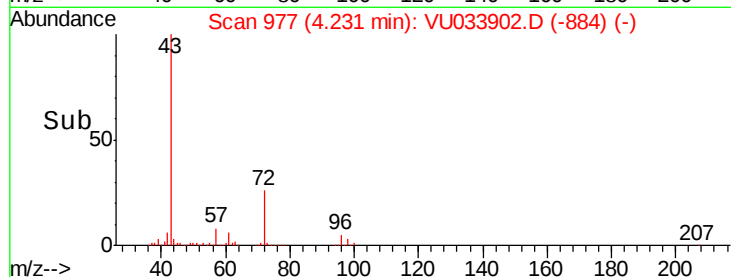
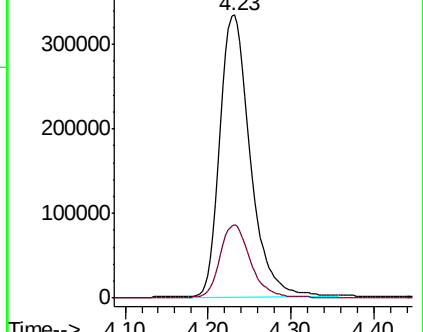
43 100

72 26.5 13.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VU033902.D (-959) (-)

Ion 72.00 (71.70 to 72.70): VU033902.D (-959) (-)



#23

Bromochloromethane

Concen: 94.563 ug/L

RT: 4.52 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Tgt Ion: 128 Resp: 238167

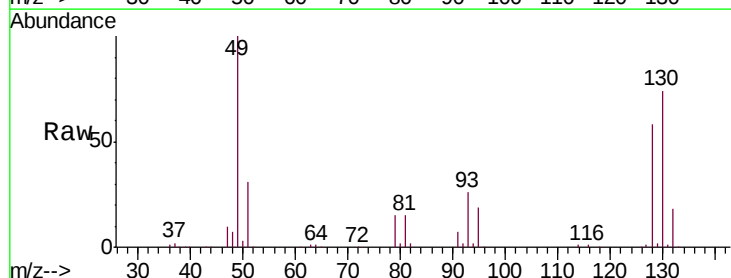
Ion Ratio Lower Upper

128 100

49 173.6 119.4 221.8

130 128.3 90.9 168.7

51 54.0 43.0 64.4

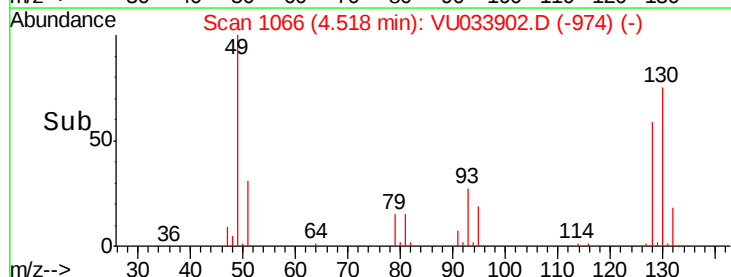
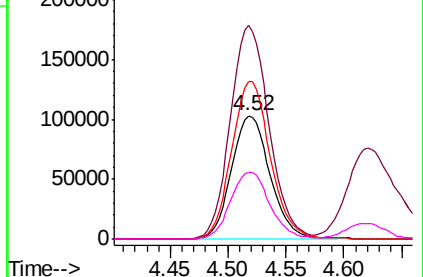


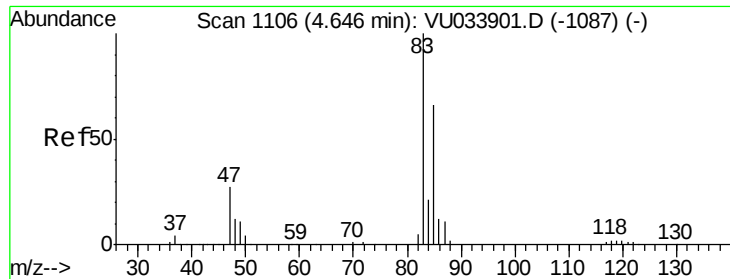
Abundance Ion 128.00 (127.70 to 128.70): VU033902.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU033902.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU033902.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU033902.D (-974) (-)

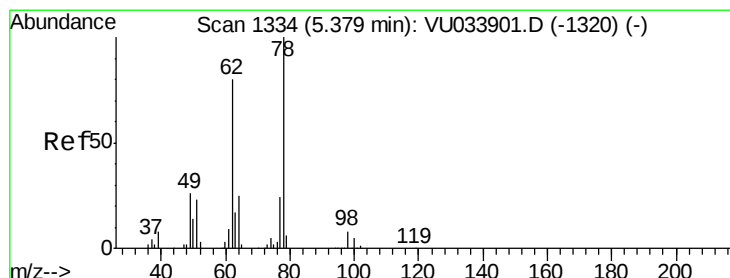
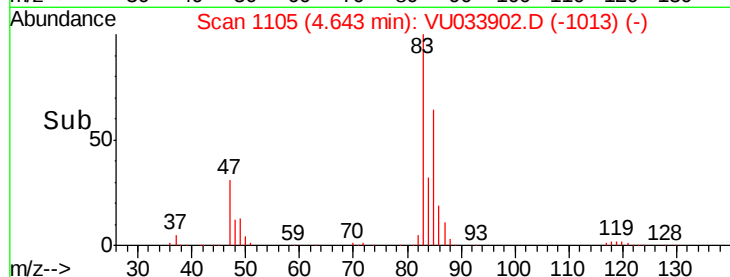
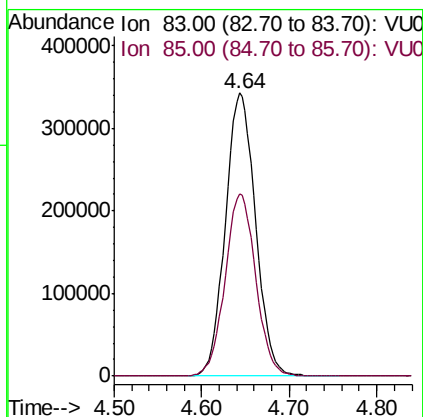
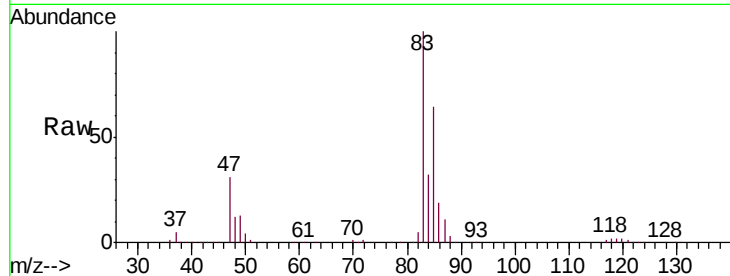




#25
Chloroform
Concen: 95.279 ug/L
RT: 4.64 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

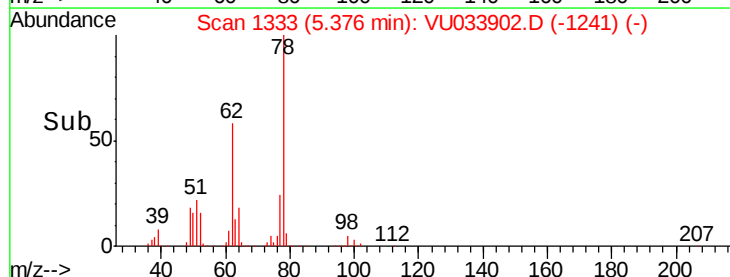
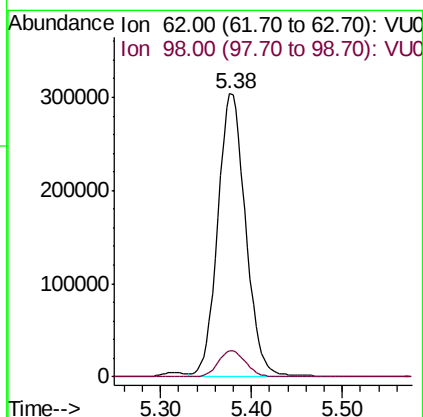
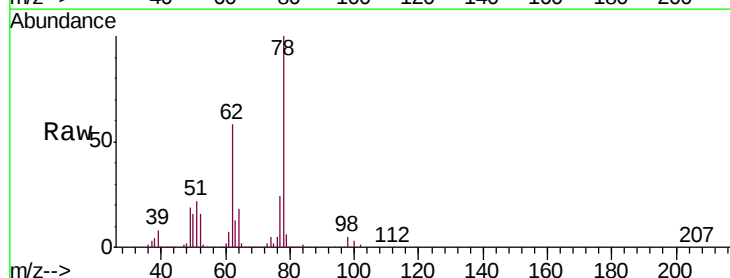
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

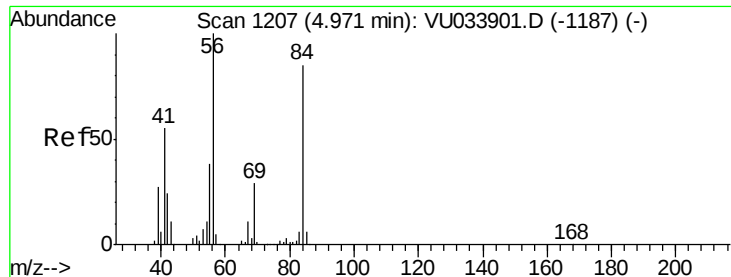
Tgt Ion: 83 Resp: 821400
Ion Ratio Lower Upper
83 100
85 64.5 46.2 85.8



#27
1,2-Dichloroethane
Concen: 98.189 ug/L
RT: 5.38 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Tgt Ion: 62 Resp: 644247
Ion Ratio Lower Upper
62 100
98 9.3 7.5 11.3





#29

Cyclohexane

Concen: 111.852 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

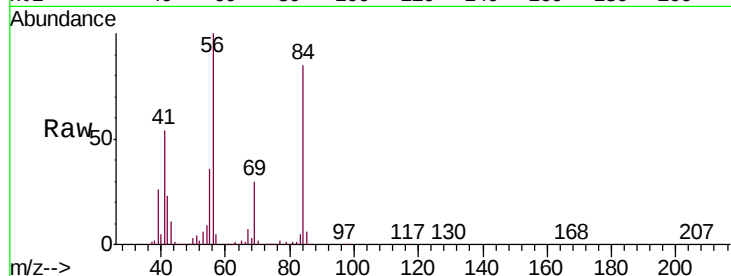
Tgt Ion: 56 Resp: 733881

Ion Ratio Lower Upper

56 100

69 29.5 24.1 36.1

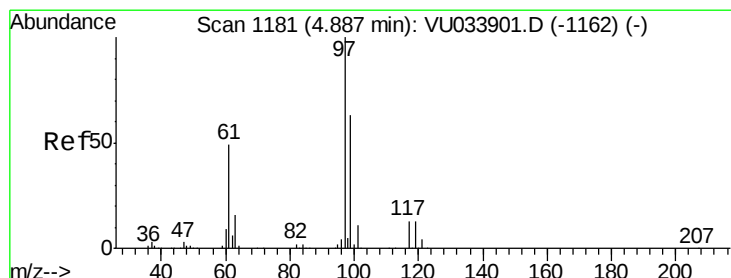
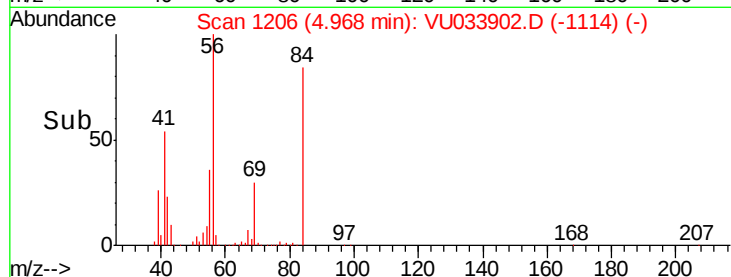
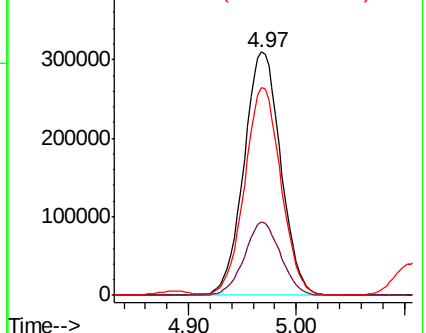
84 84.1 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VU033902.D (-1187) (-)

Ion 69.00 (68.70 to 69.70): VU033902.D (-1187) (-)

Ion 84.00 (83.70 to 84.70): VU033902.D (-1187) (-)



#30

1,1,1-Trichloroethane

Concen: 92.381 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

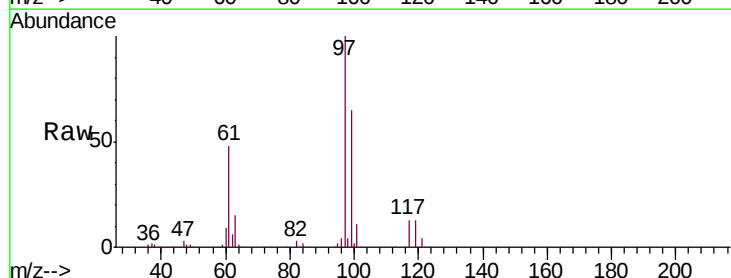
Tgt Ion: 97 Resp: 667430

Ion Ratio Lower Upper

97 100

99 63.7 51.1 76.7

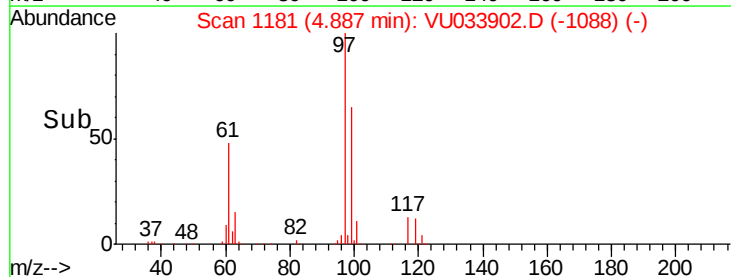
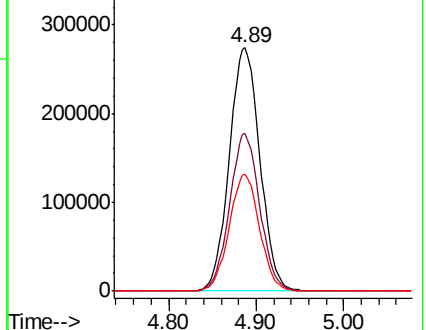
61 47.4 38.6 57.8

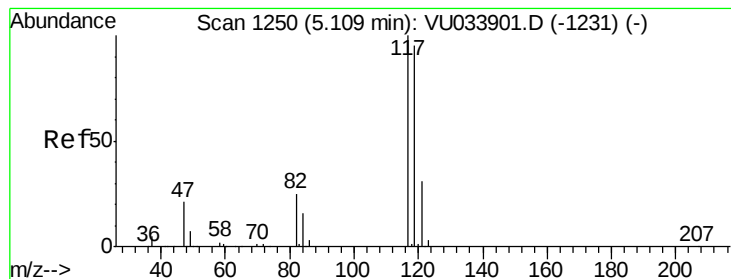


Abundance Ion 97.00 (96.70 to 97.70): VU033902.D (-1088) (-)

Ion 99.00 (98.70 to 99.70): VU033902.D (-1088) (-)

Ion 61.05 (60.75 to 61.75): VU033902.D (-1088) (-)





#31

Carbon tetrachloride

Concen: 90.948 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

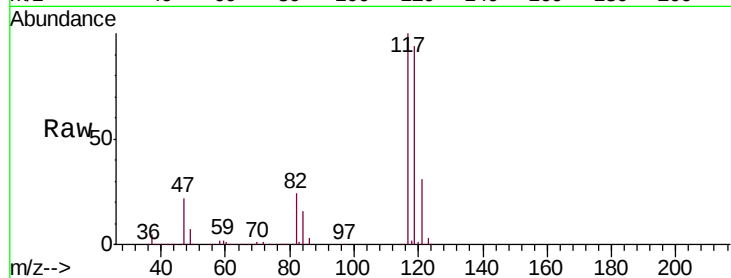
VSTD10032

Tgt Ion:117 Resp: 596633

Ion Ratio Lower Upper

117 100

119 95.4 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

250000

200000

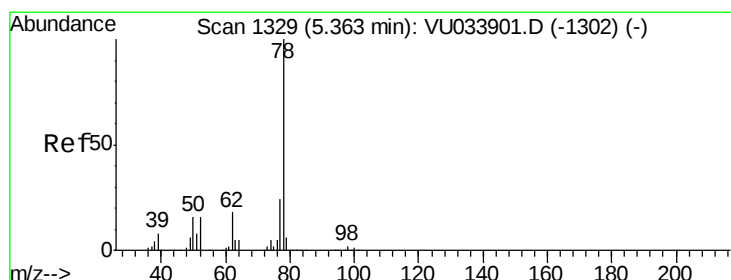
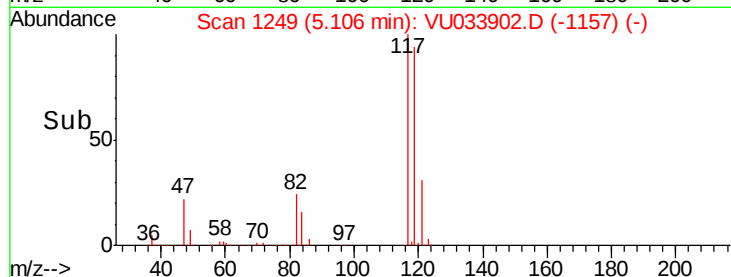
150000

100000

50000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 97.594 ug/L

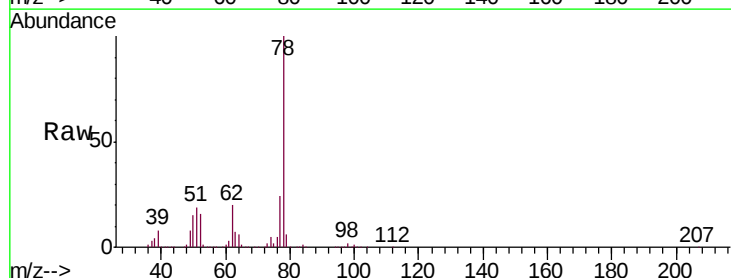
RT: 5.36 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Tgt Ion: 78 Resp: 1783268



Abundance Ion 78.00 (77.70 to 78.70): VU0

1000000

800000

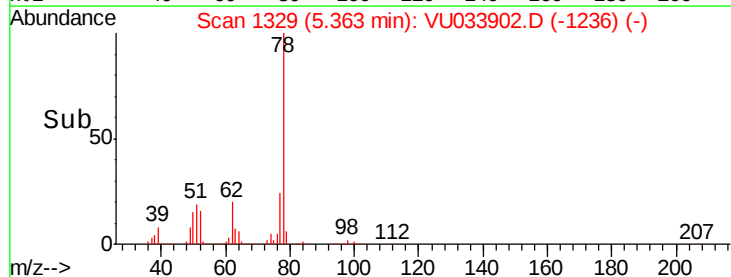
600000

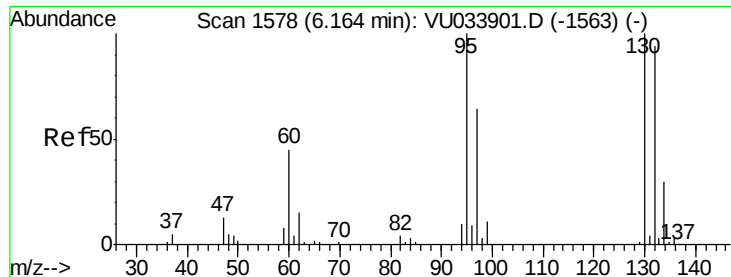
400000

200000

0

Time--> 5.20 5.30 5.40 5.50





#34

Trichloroethene

Concen: 93.169 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

Tgt Ion: 95 Resp: 450324

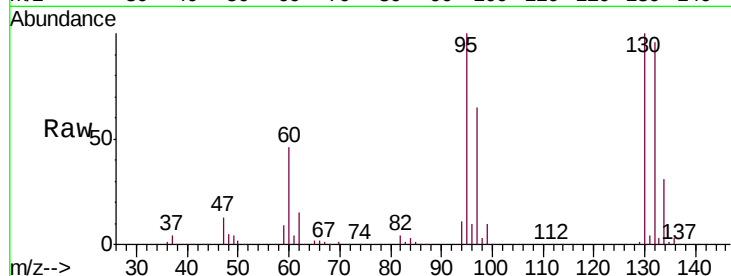
Ion Ratio Lower Upper

95 100

97 64.6 44.7 82.9

132 96.0 65.7 122.1

130 99.8 70.0 130.0

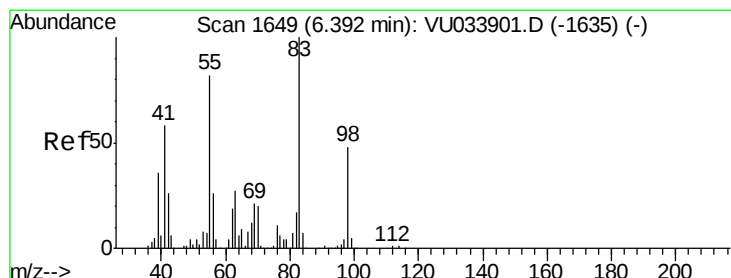
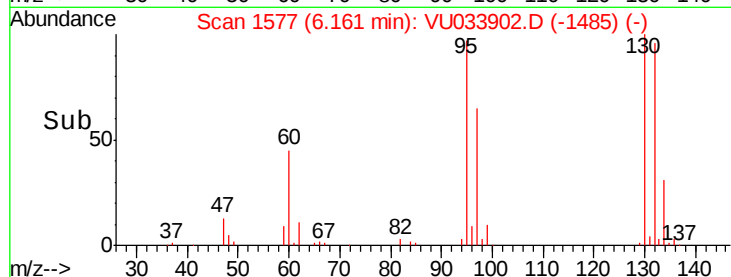
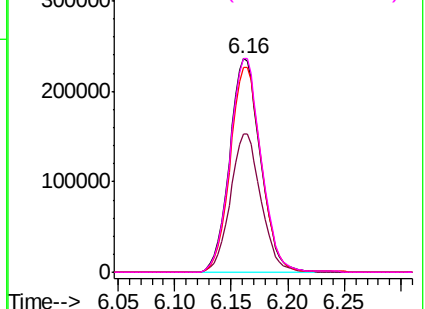


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 103.449 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

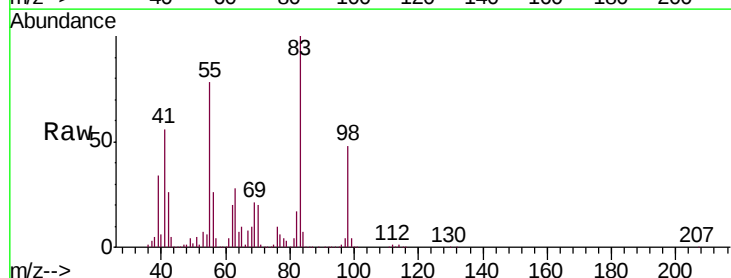
Tgt Ion: 83 Resp: 739853

Ion Ratio Lower Upper

83 100

55 79.2 64.4 96.6

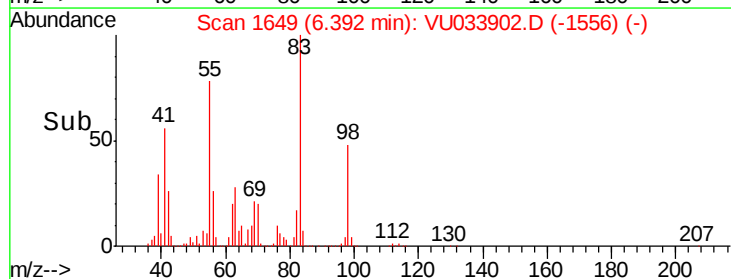
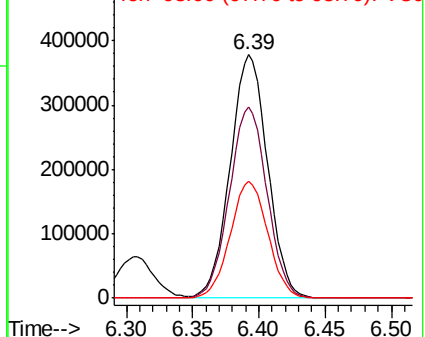
98 48.0 38.7 58.1

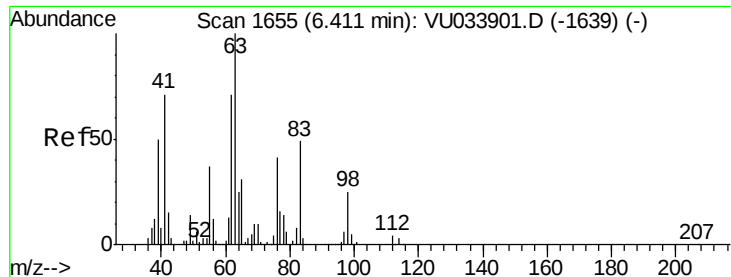


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

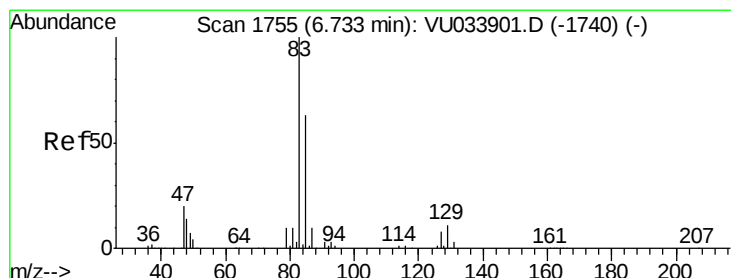
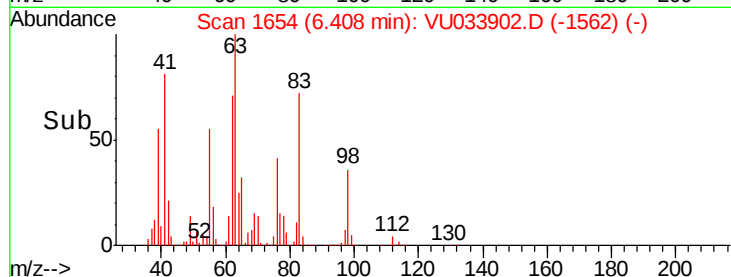
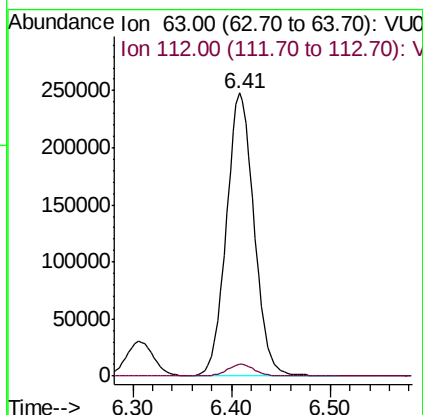
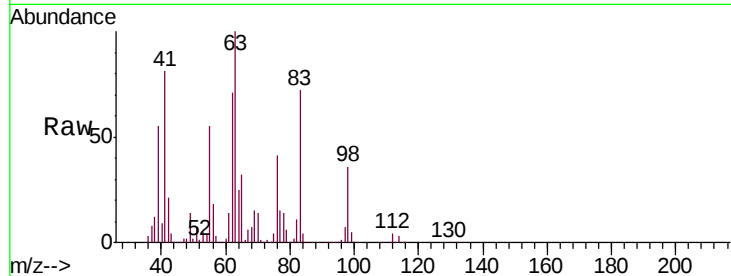




#37
 1,2-Dichloropropane
 Concen: 96.721 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

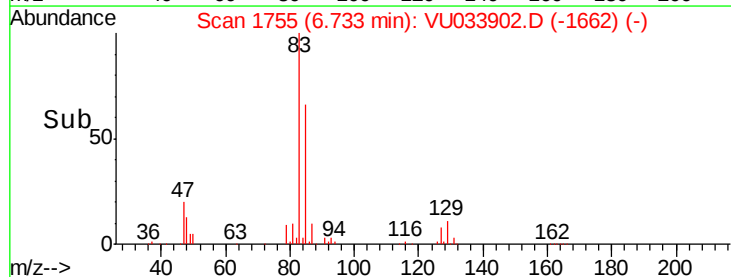
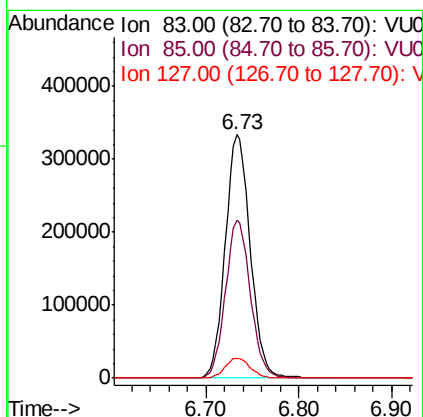
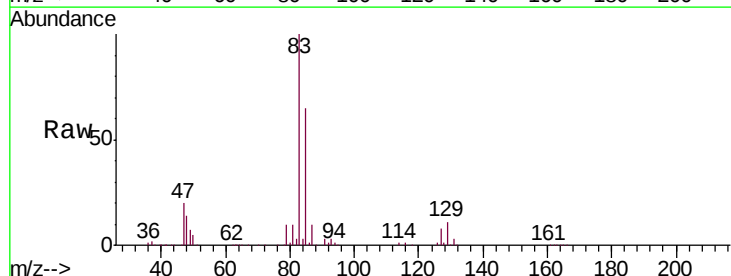
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD10032

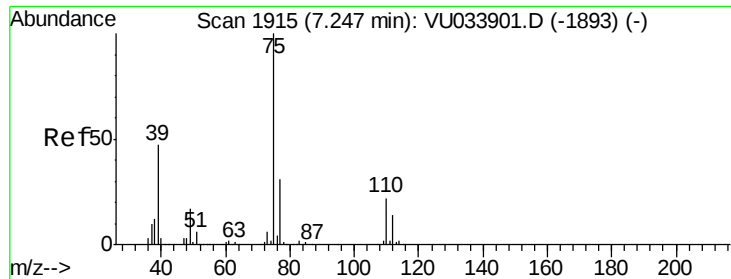
Tgt Ion: 63 Resp: 482995
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.5 5.3



#38
 Bromodichloromethane
 Concen: 96.137 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion: 83 Resp: 621855
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.0 81.8
 127 8.3 6.8 10.2

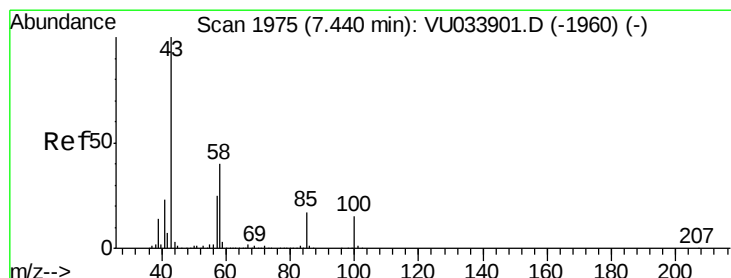
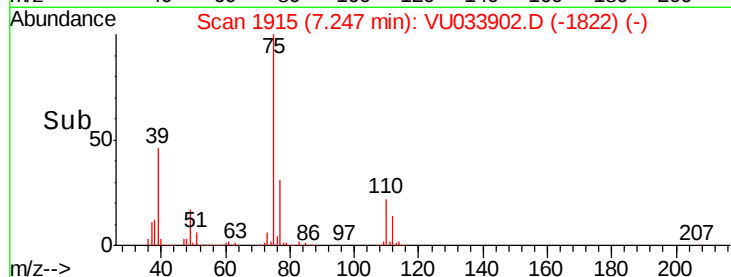
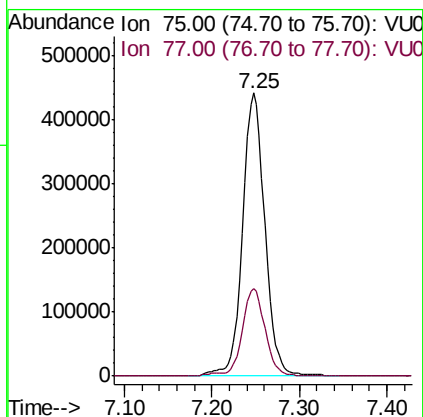
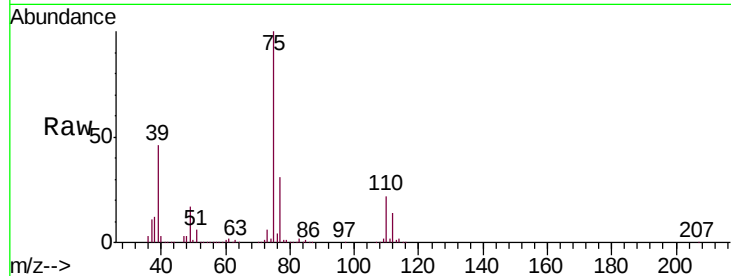




#39
 cis-1,3-Dichloropropene
 Concen: 107.079 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

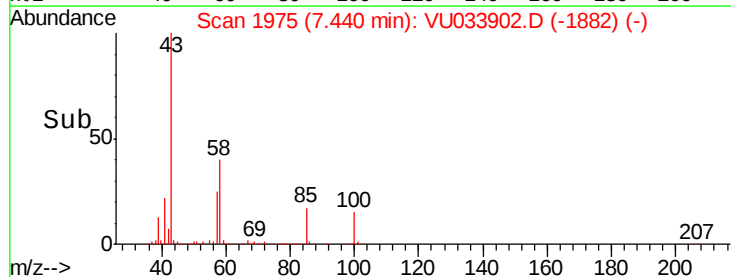
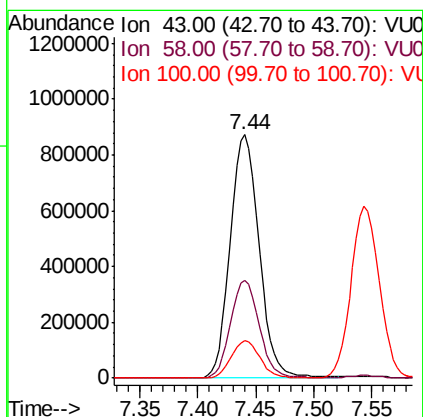
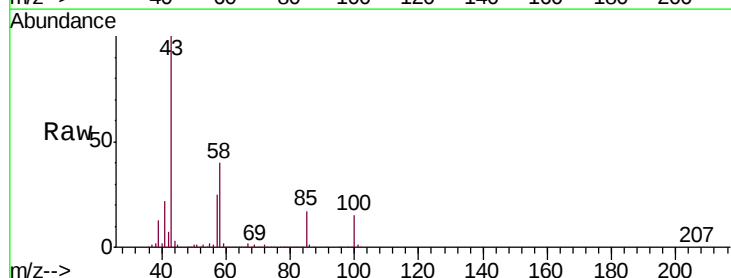
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

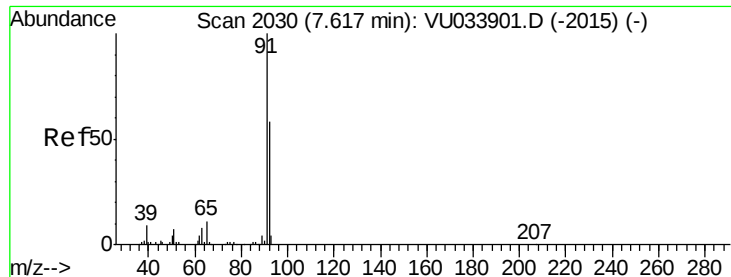
Tgt Ion: 75 Resp: 783483
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 246.635 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion: 43 Resp: 1505146
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.6 47.4
 100 15.2 12.0 18.0





#42

Toluene

Concen: 98.424 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

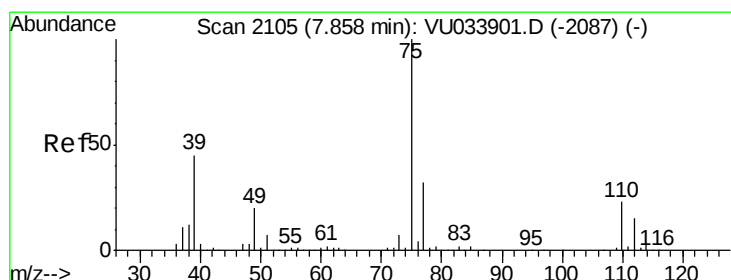
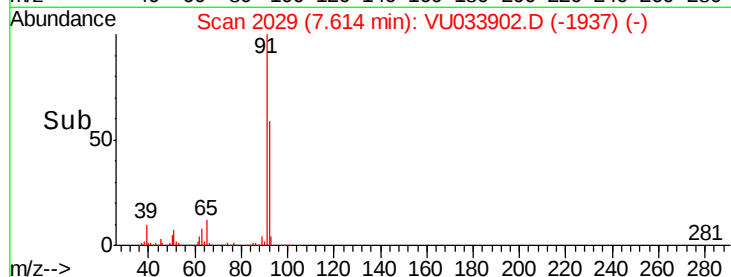
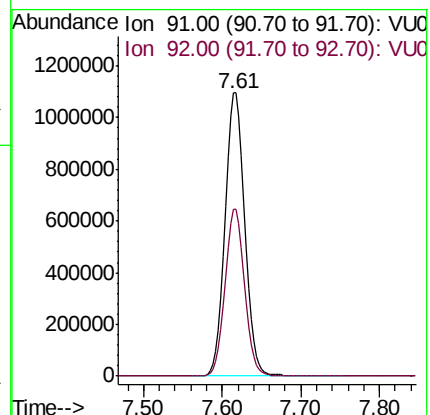
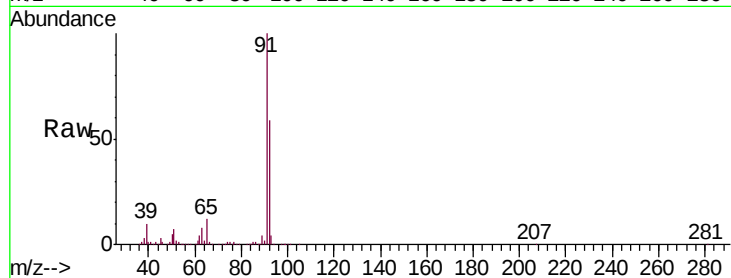
VSTD10032

Tgt Ion: 91 Resp: 1889053

Ion Ratio Lower Upper

91 100

92 58.8 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 103.936 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU033902.D

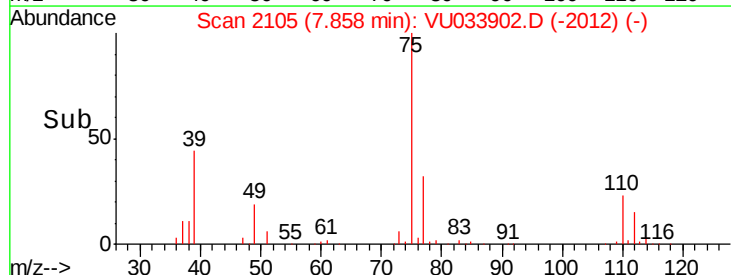
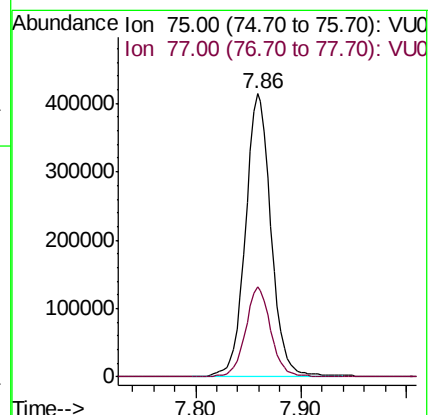
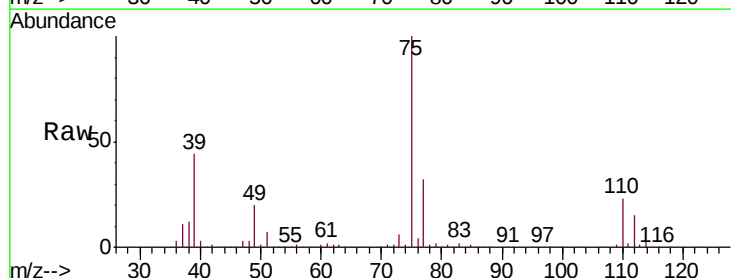
Acq: 22 Aug 2019 16:00

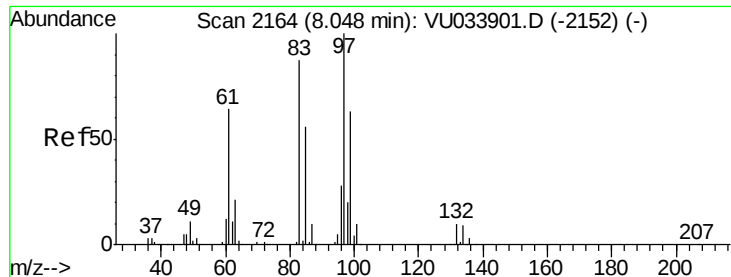
Tgt Ion: 75 Resp: 696969

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.3

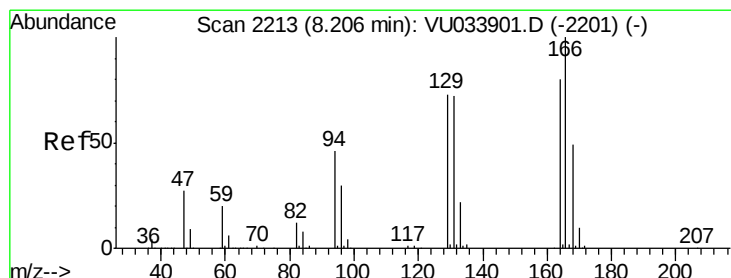
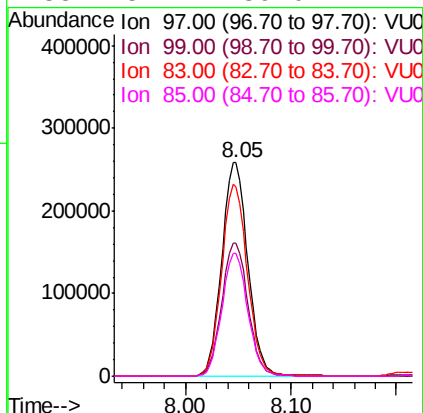
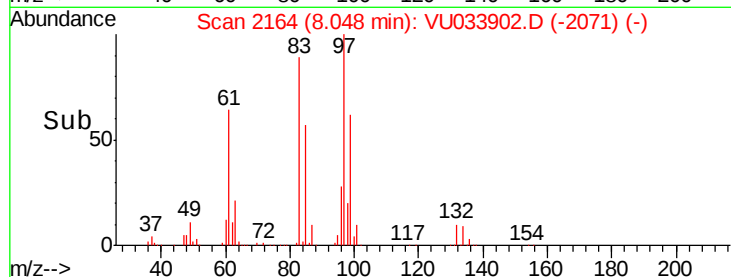
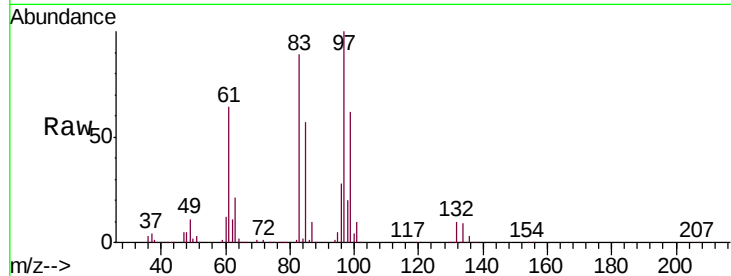




#45
 1,1,2-Trichloroethane
 Concen: 94.552 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

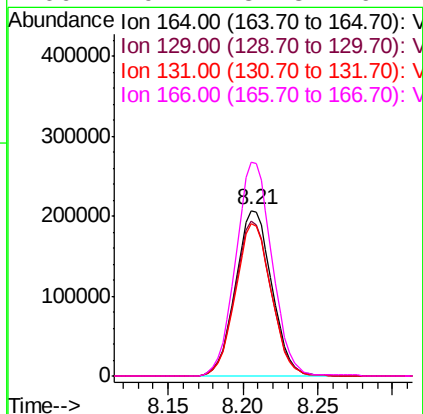
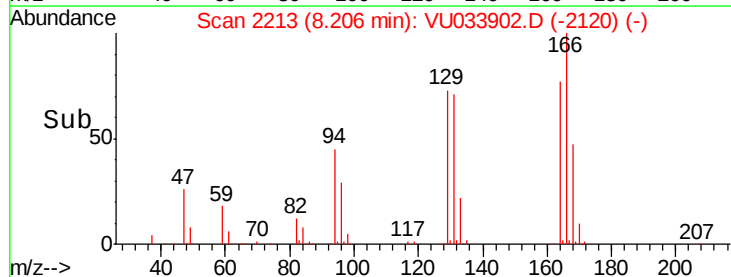
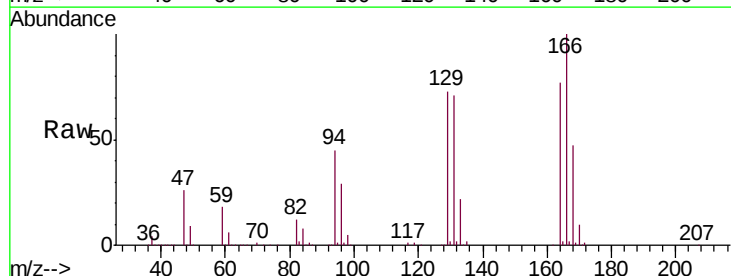
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

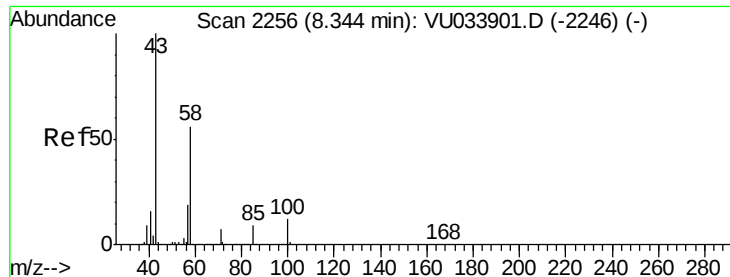
Tgt Ion:	97	Resp:	442622
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.2	82.2
83	88.8	61.2	113.6
85	57.4	39.0	72.4



#46
 Tetrachloroethene
 Concen: 90.444 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion:	164	Resp:	349482
Ion	Ratio	Lower	Upper
164	100		
129	93.9	63.9	118.7
131	92.1	62.5	116.1
166	129.2	87.3	162.1

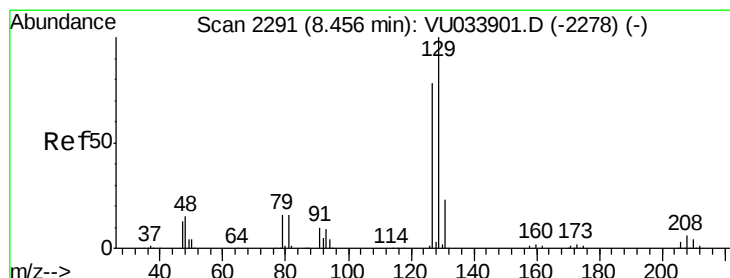
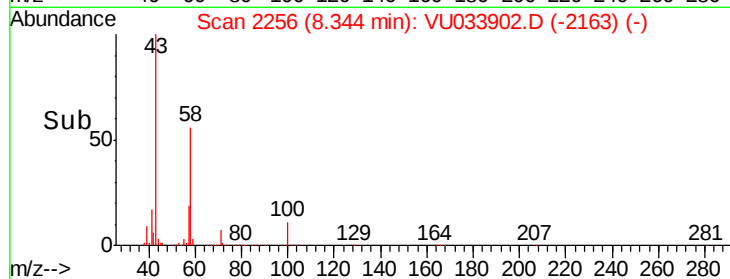
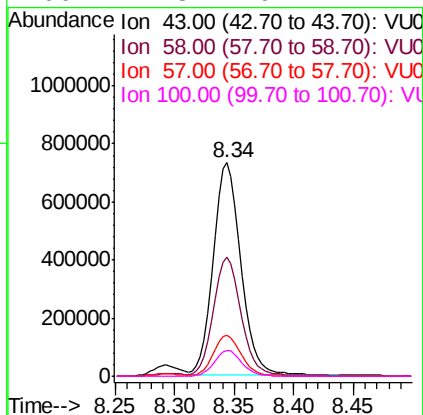
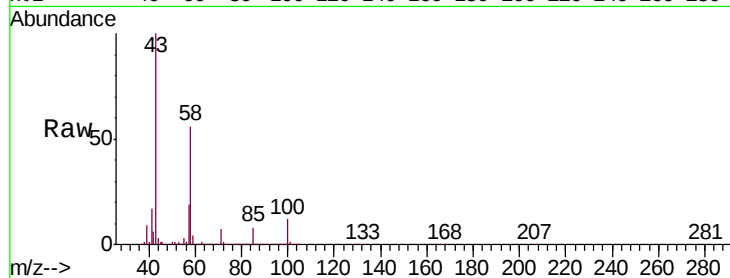




#48
2-Hexanone
Concen: 248.230 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

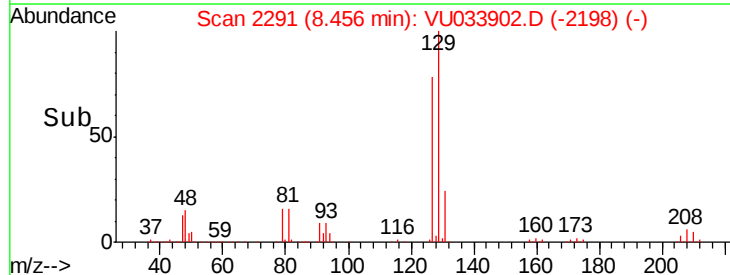
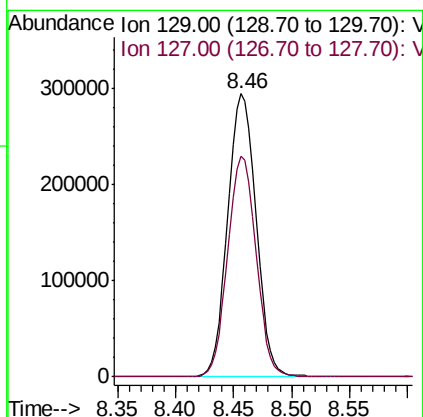
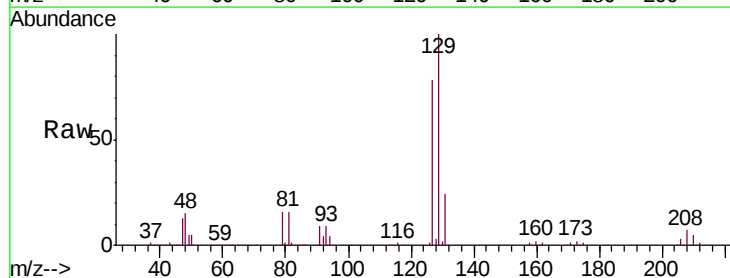
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

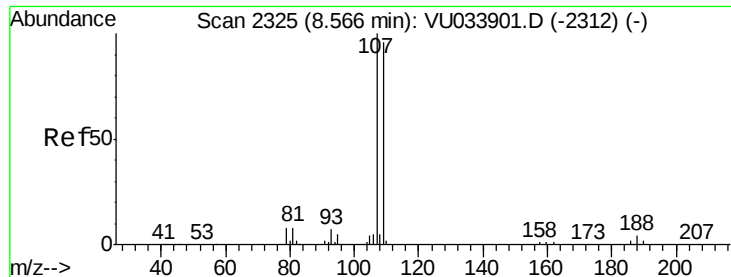
Tgt Ion: 43 Resp: 1182957
Ion Ratio Lower Upper
43 100
58 55.7 44.3 66.5
57 18.9 15.3 22.9
100 12.3 9.4 14.2



#49
Dibromochloromethane
Concen: 95.374 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Tgt Ion: 129 Resp: 500253
Ion Ratio Lower Upper
129 100
127 78.1 54.5 101.3

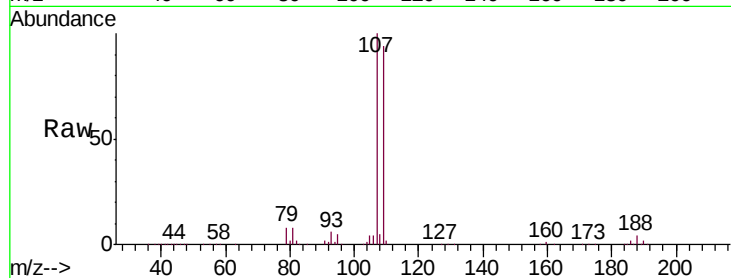




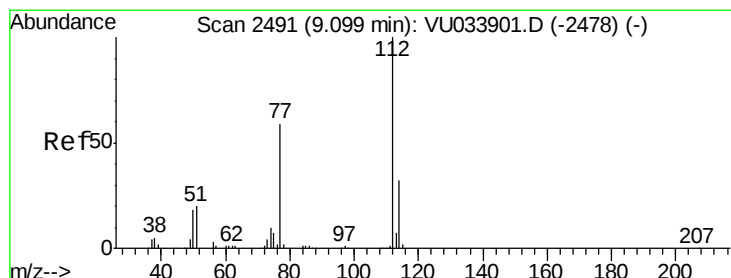
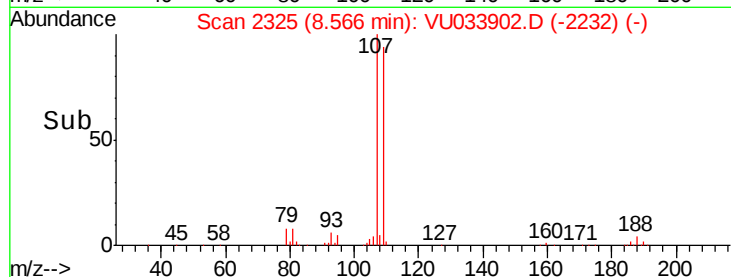
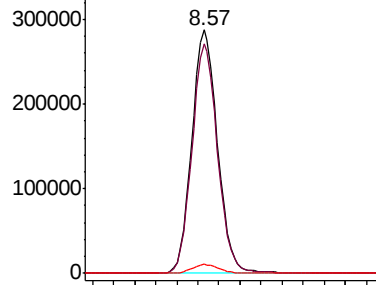
#50
1,2-Dibromoethane
Concen: 97.710 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.9	124.3
188	3.7	3.0	4.4

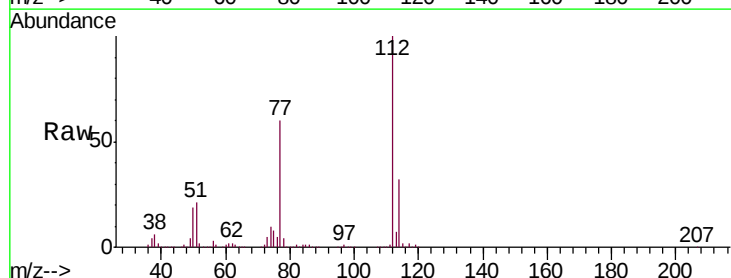


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

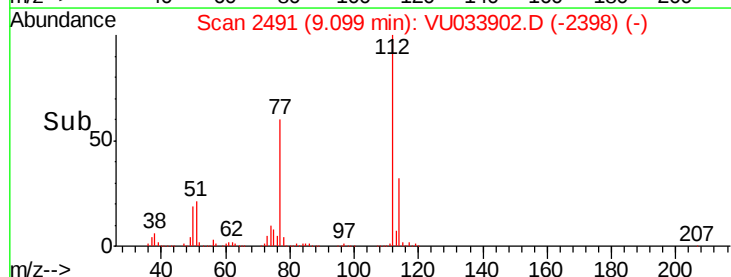
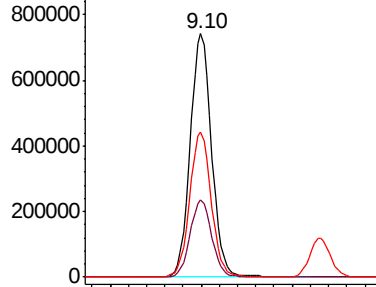


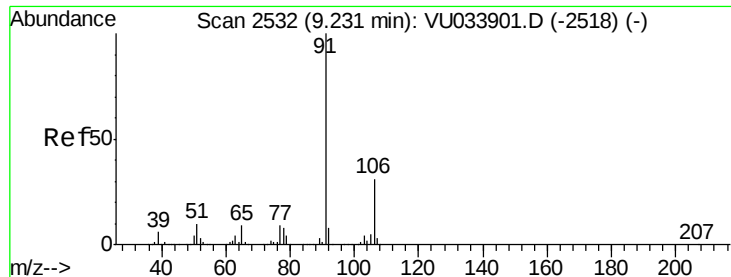
#51
Chlorobenzene
Concen: 95.569 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033902.D
Acq: 22 Aug 2019 16:00

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.7
77	59.6	47.3	70.9



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





#52

Ethylbenzene

Concen: 103.490 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

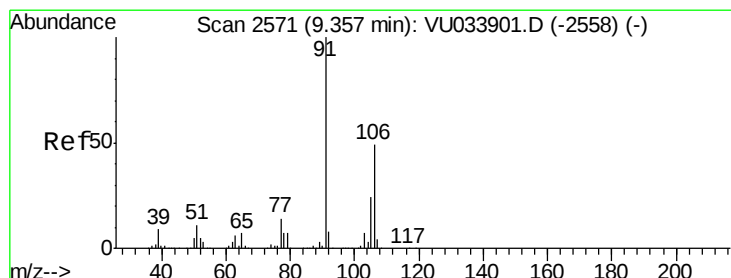
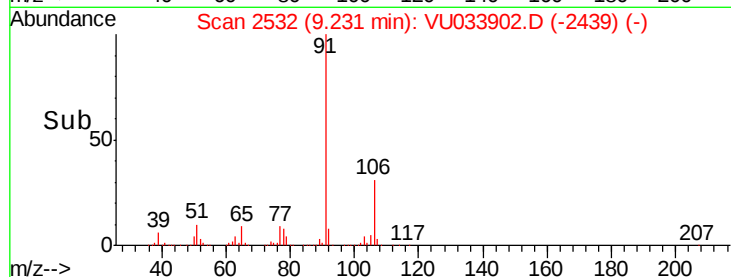
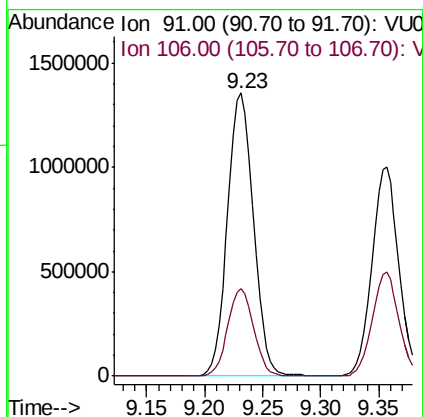
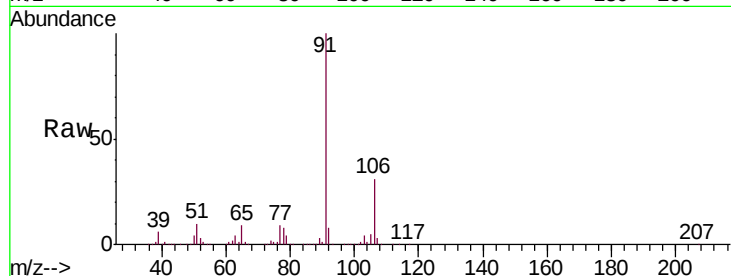
VSTD10032

Tgt Ion: 91 Resp: 2112102

Ion Ratio Lower Upper

91 100

106 30.8 21.4 39.8



#53

m,p-Xylene

Concen: 104.147 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033902.D

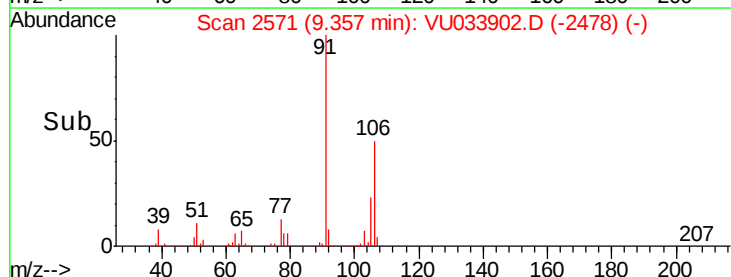
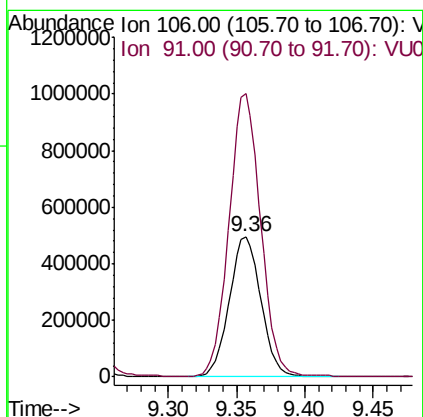
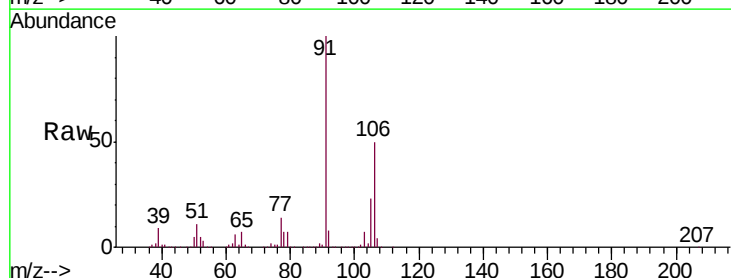
Acq: 22 Aug 2019 16:00

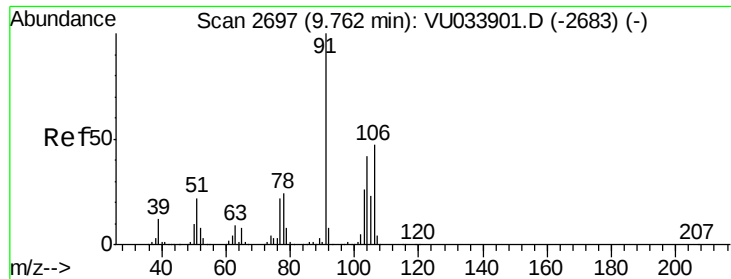
Tgt Ion: 106 Resp: 792996

Ion Ratio Lower Upper

106 100

91 201.3 142.2 264.0





#54

o-xylene

Concen: 106.100 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

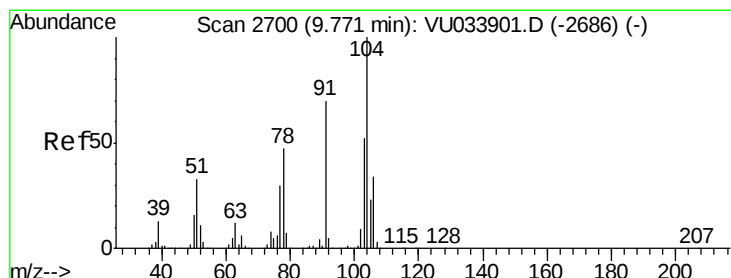
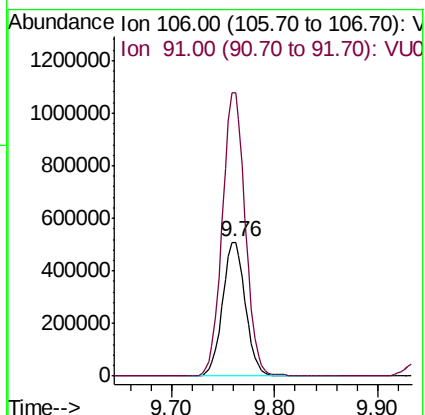
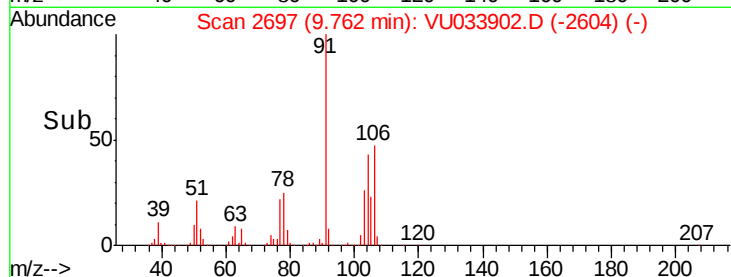
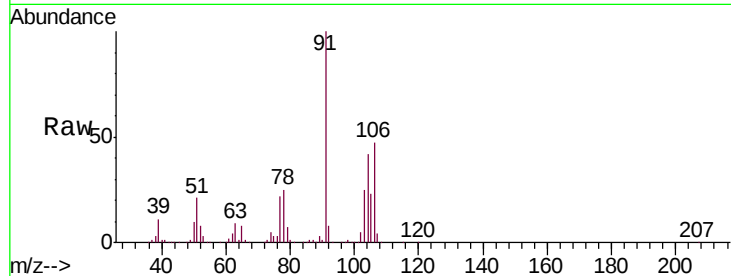
VSTD10032

Tgt Ion:106 Resp: 784630

Ion Ratio Lower Upper

106 100

91 211.8 148.6 276.0



#55

Styrene

Concen: 107.632 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033902.D

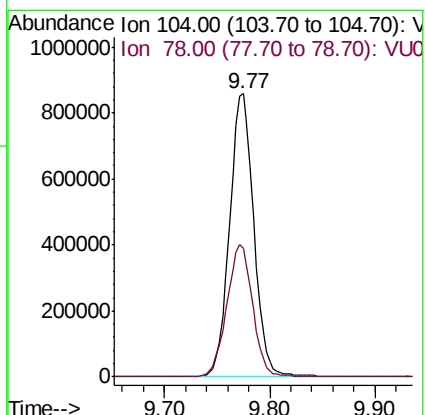
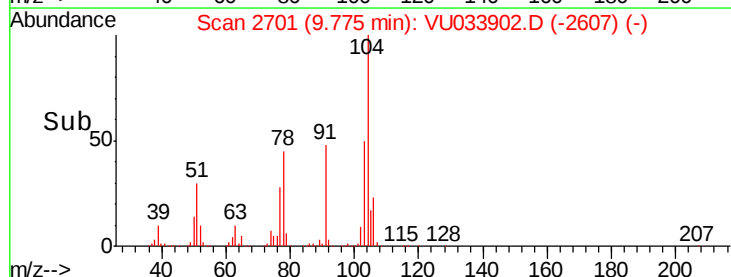
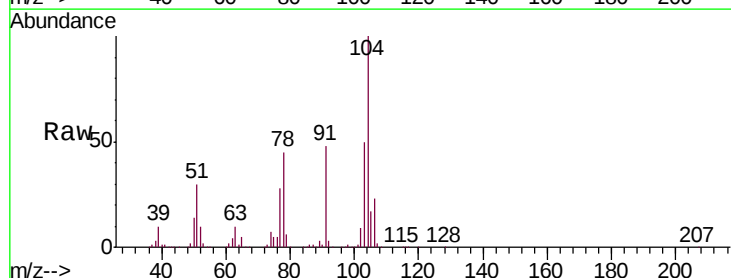
Acq: 22 Aug 2019 16:00

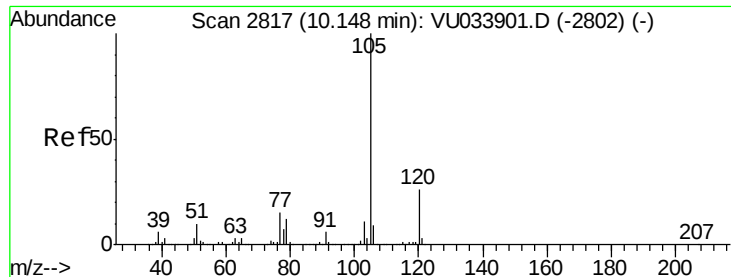
Tgt Ion:104 Resp: 1361819

Ion Ratio Lower Upper

104 100

78 45.3 32.8 61.0





#56

Isopropylbenzene

Concen: 106.562 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

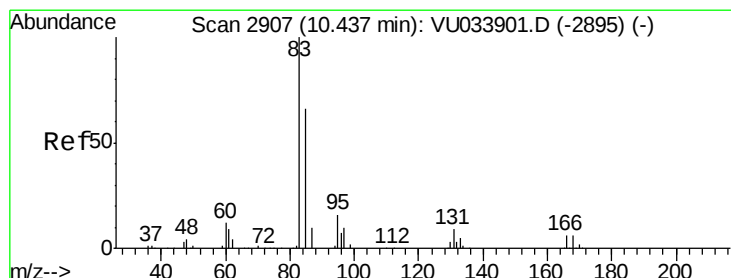
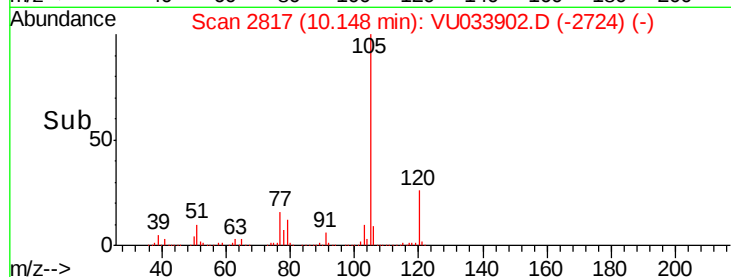
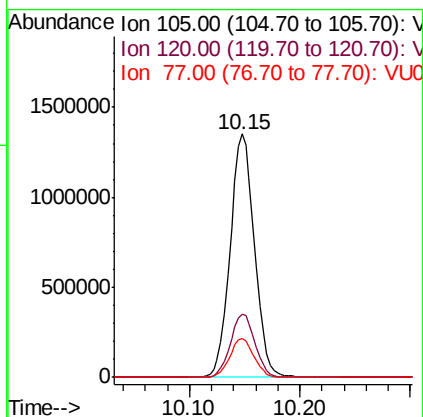
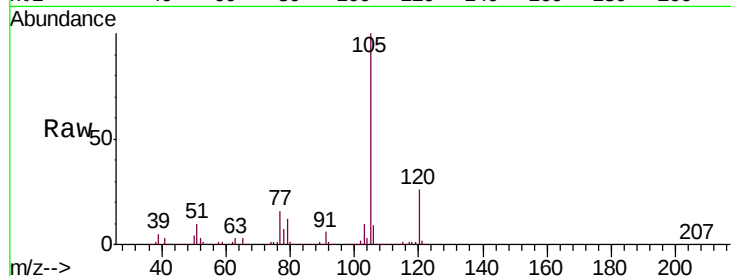
Tgt Ion:105 Resp: 2059096

Ion Ratio Lower Upper

105 100

120 26.3 21.2 31.8

77 15.9 12.6 18.8



#58

1,1,2,2-Tetrachloroethane

Concen: 103.213 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

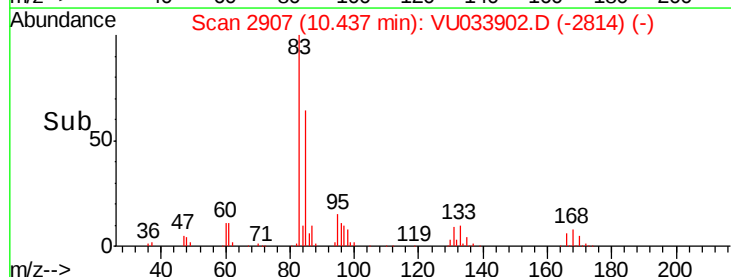
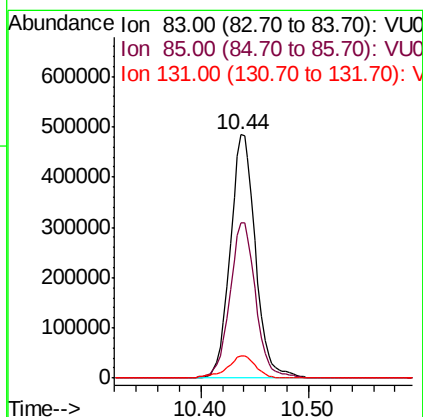
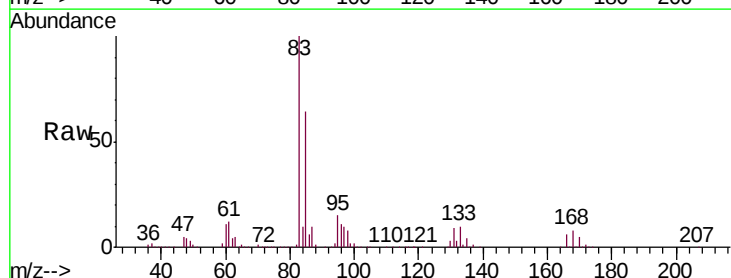
Tgt Ion: 83 Resp: 788971

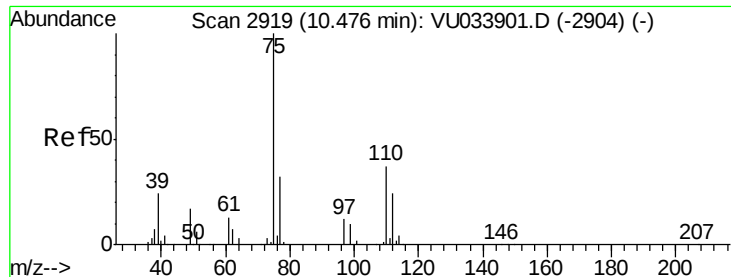
Ion Ratio Lower Upper

83 100

85 64.0 46.3 85.9

131 9.2 7.9 11.9





#59

1,2,3-Trichloropropane

Concen: 102.332 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

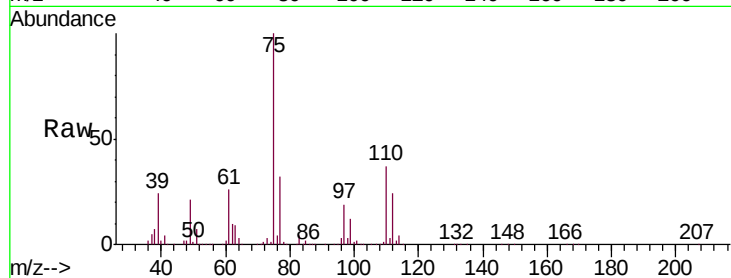
VSTD10032

Tgt Ion: 75 Resp: 624222

Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU033901.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU033901.D (-2904) (-)

10.48

400000

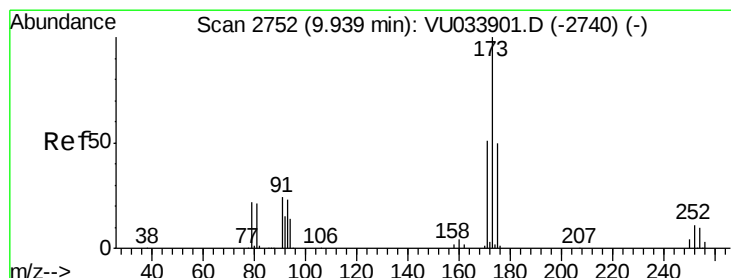
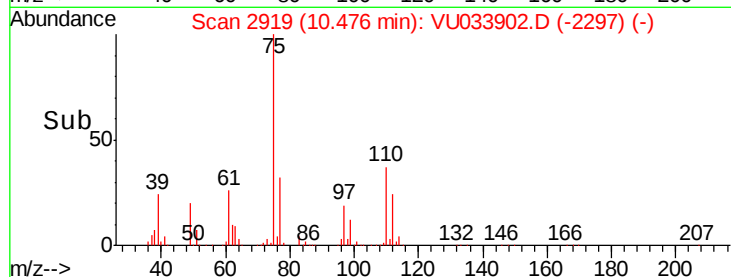
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 97.879 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

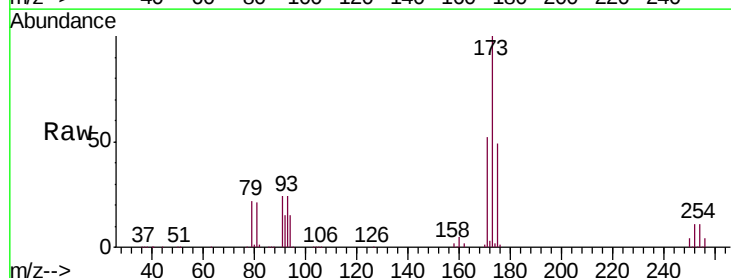
Tgt Ion: 173 Resp: 385009

Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.2

254 10.9 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): VU033901.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033901.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033901.D (-2740) (-)

9.94

300000

250000

200000

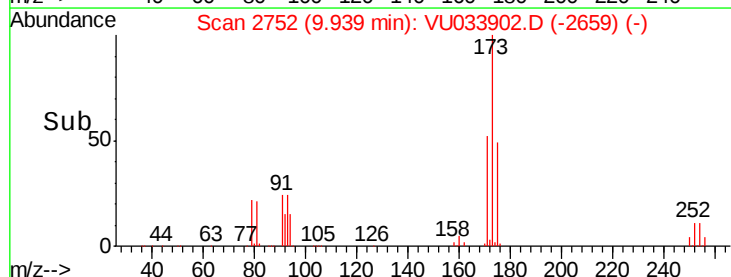
150000

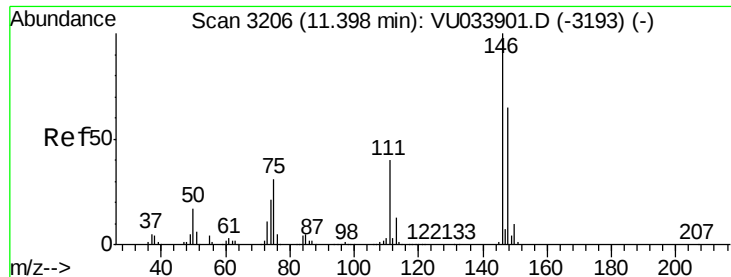
100000

50000

0

Time-->

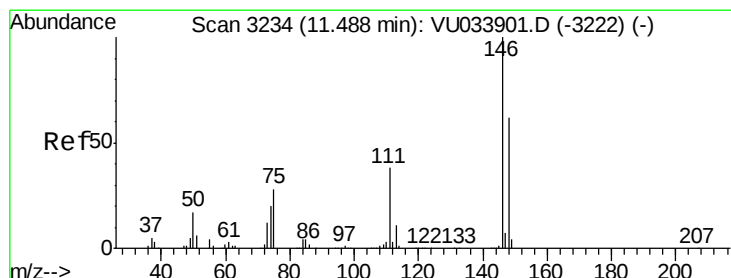
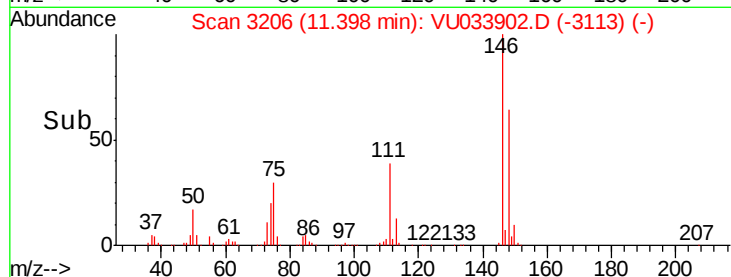
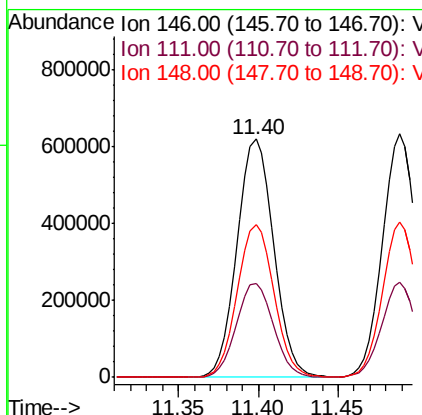
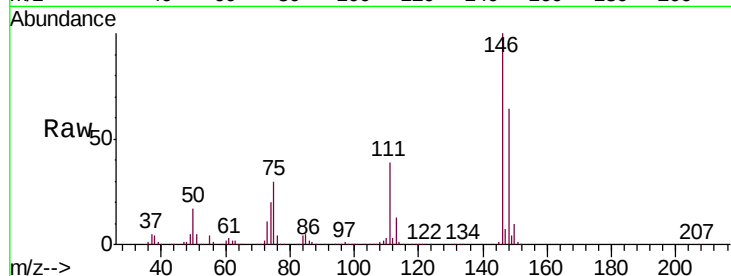




#62
 1,3-Dichlorobenzene
 Concen: 97.861 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

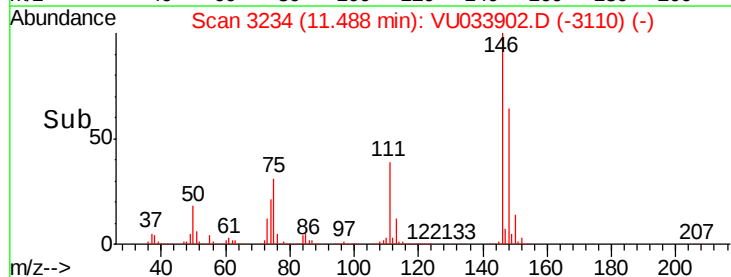
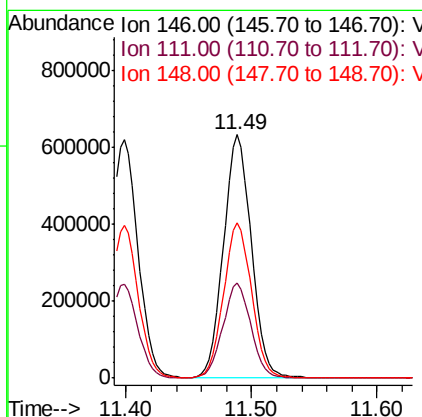
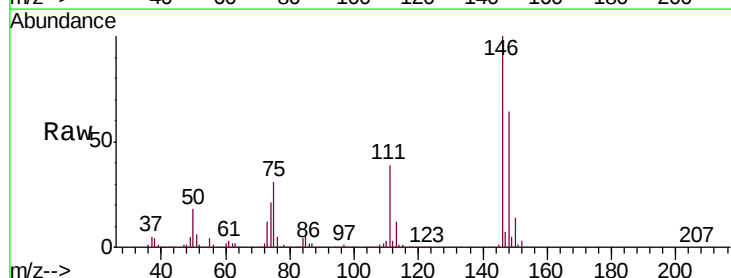
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

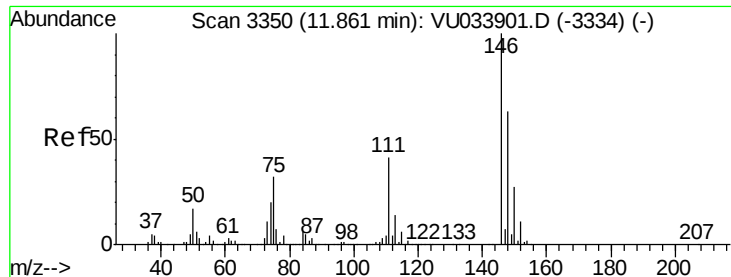
Tgt Ion:146 Resp: 966432
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.8 51.6
 148 64.2 45.1 83.9



#63
 1,4-Dichlorobenzene
 Concen: 94.971 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion:146 Resp: 970764
 Ion Ratio Lower Upper
 146 100
 111 39.0 26.7 49.5
 148 64.0 43.5 80.9

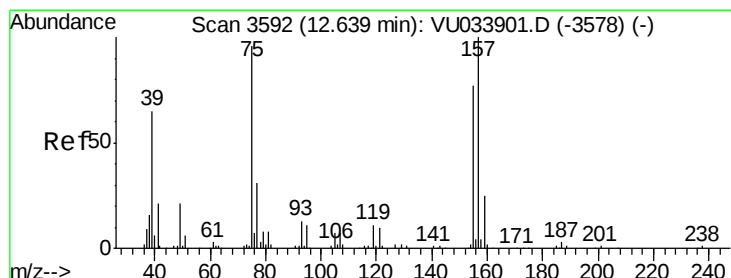
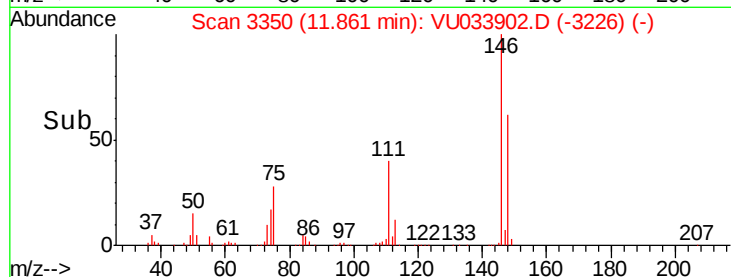
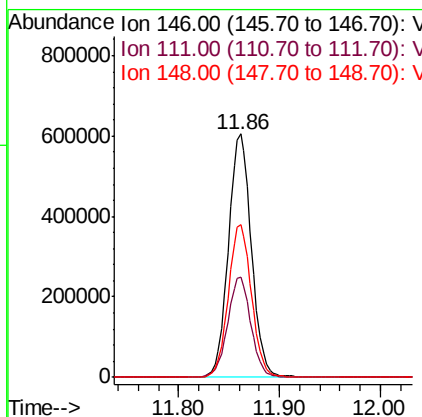
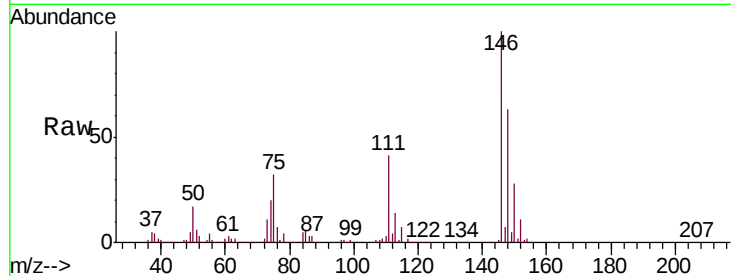




#65
 1,2-Dichlorobenzene
 Concen: 97.119 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

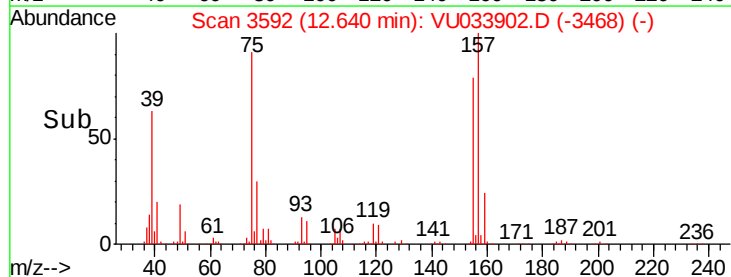
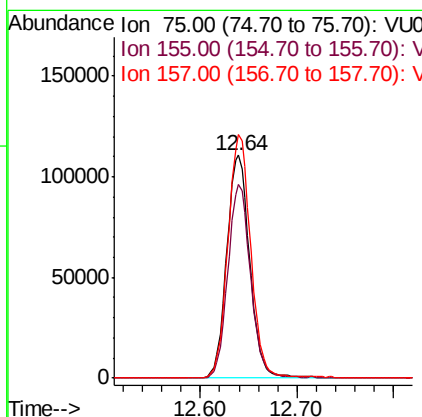
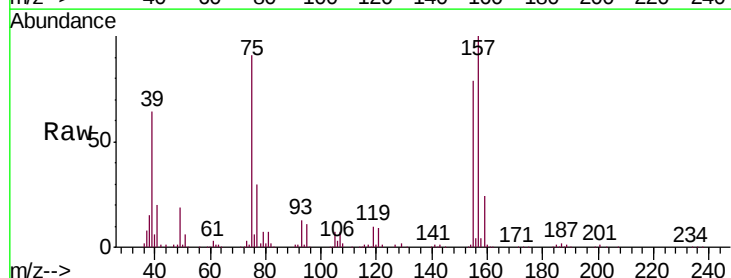
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

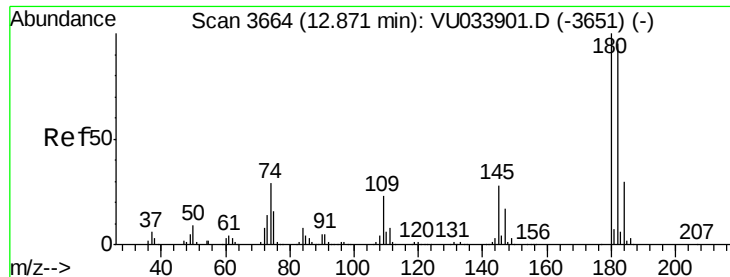
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	33.1	49.7
148	62.6	50.8	76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 108.502 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.8	64.3	96.5
157	109.3	83.4	125.2

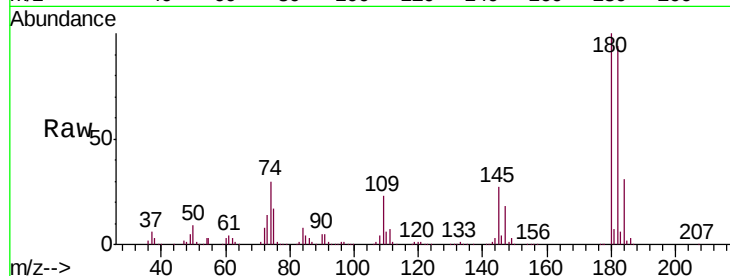




#67
 1,3,5-Trichlorobenzene
 Concen: 99.400 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.4	114.6
184	30.4	24.1	36.1
145	27.7	22.4	33.6



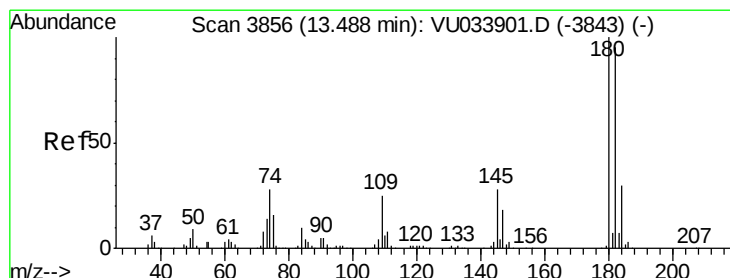
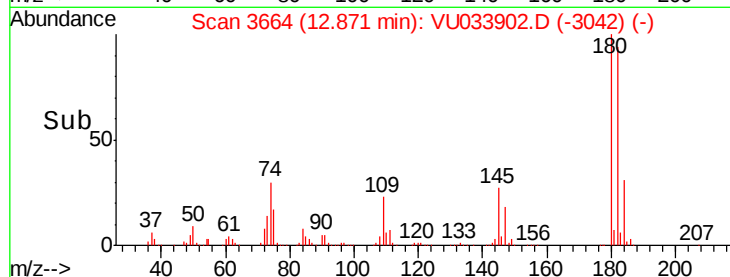
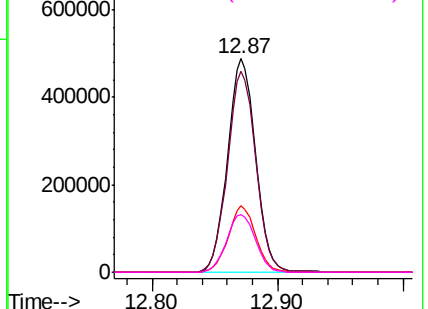
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

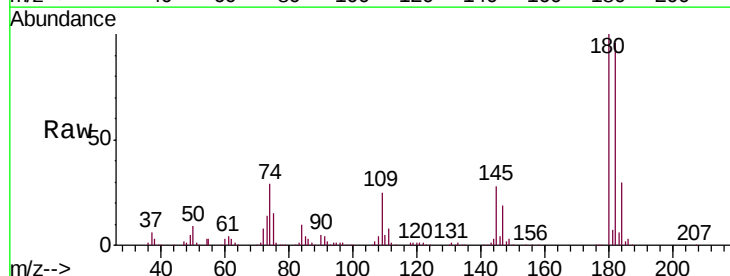
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 107.643 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033902.D
 Acq: 22 Aug 2019 16:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	28.9	22.8	34.2

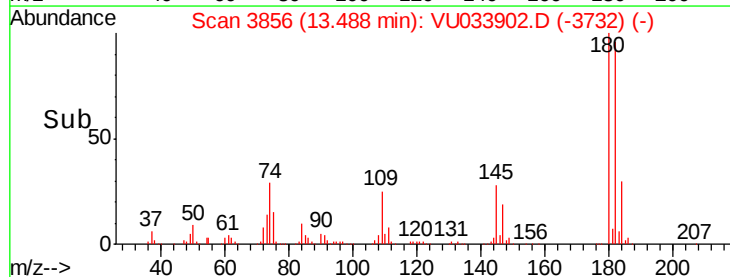
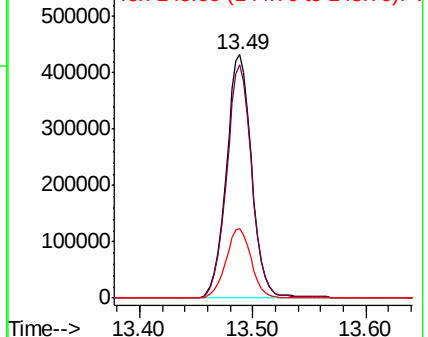


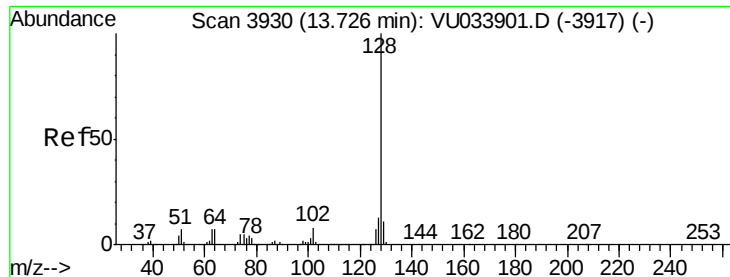
Abundance

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: 123.430 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

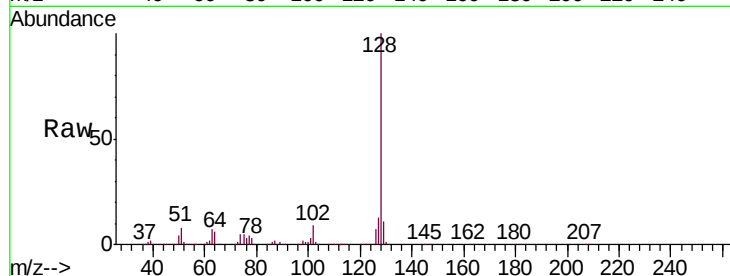
Tgt Ion:128 Resp: 2164464

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

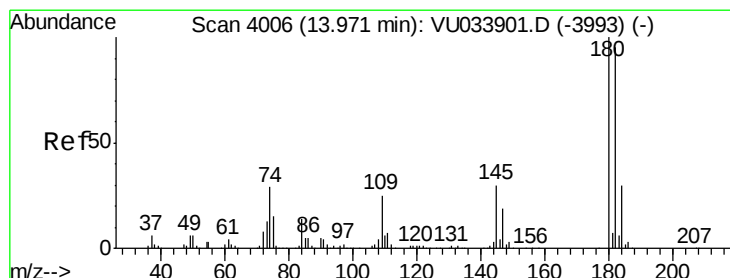
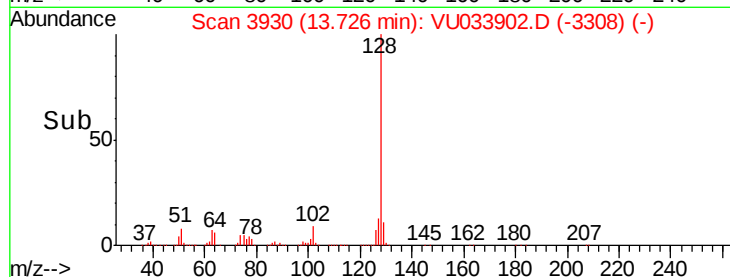
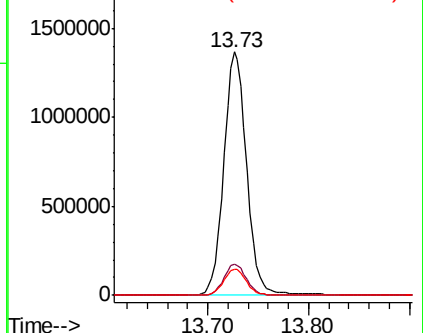
129 10.8 8.3 12.5



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: 106.772 ug/L

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU033902.D

Acq: 22 Aug 2019 16:00

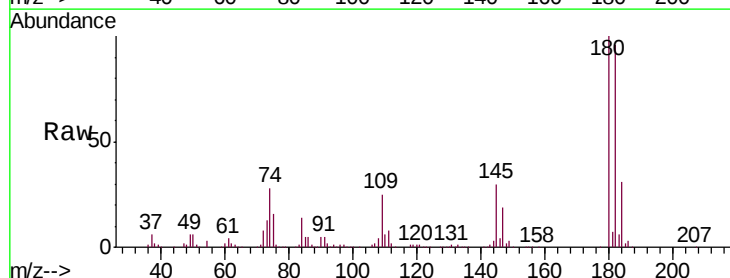
Tgt Ion:180 Resp: 691116

Ion Ratio Lower Upper

180 100

182 95.1 76.7 115.1

145 30.3 23.9 35.9



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

