

Data File : VU029974.D
Acq On : 11 Mar 2019 18:23
Operator : JC/SP
Sample : VSTD01044
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01044

Quant Time: Mar 12 05:45:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 12 05:42:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	528043	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	504848	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	249726	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	33935	10.34	ug/L	0.00
7) Chloroethane-d5	1.68	69	27151	9.92	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	61405	10.06	ug/L	0.00
21) 2-Butanone-d5	4.18	46	47394	18.86	ug/L	0.00
24) Chloroform-d	4.65	84	59851	9.53	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	35005	9.56	ug/L	0.00
32) Benzene-d6	5.34	84	124851	9.82	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	38501	9.99	ug/L	0.00
41) Toluene-d8	7.56	98	113279	9.34	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	16927	9.06	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	39466	18.85	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	58245	9.68	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	47489	9.68	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	34215	8.816 ug/L	99
3) Chloromethane	1.33	50	37407	7.528 ug/L	98
5) Vinyl chloride	1.40	62	41803	10.327 ug/L	100
6) Bromomethane	1.63	94	25866	18.806 ug/L	97
8) Chloroethane	1.70	64	26085	10.447 ug/L	93
9) Trichlorofluoromethane	1.89	101	55110	10.253 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	35635	10.656 ug/L	98
12) 1,1-Dichloroethene	2.28	96	33075	10.247 ug/L	97
13) Acetone	2.32	43	66796	24.333 ug/L	99
14) Carbon disulfide	2.48	76	102345	10.177 ug/L	99
15) Methyl Acetate	2.62	43	38943	10.402 ug/L	100
16) Methylene chloride	2.70	84	40188	10.586 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	35757	10.366 ug/L	94
18) Methyl tert-butyl Ether	3.00	73	107821	11.989 ug/L	99
19) 1,1-Dichloroethane	3.45	63	62853	10.599 ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	41500	10.543 ug/L	98
22) 2-Butanone	4.26	43	70851	22.487 ug/L	97
23) Bromochloromethane	4.55	128	21598	10.855 ug/L	92
25) Chloroform	4.68	83	64719	10.137 ug/L	96
27) 1,2-Dichloroethane	5.41	62	47553	10.501 ug/L	100
29) Cyclohexane	4.99	56	55356	10.649 ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	56872	11.192 ug/L	99
31) Carbon tetrachloride	5.13	117	48961	10.848 ug/L	98
33) Benzene	5.39	78	148138	10.978 ug/L	100
34) Trichloroethene	6.19	95	38511	10.571 ug/L	98
35) Methylcyclohexane	6.41	83	58906	10.153 ug/L	96
37) 1,2-Dichloropropane	6.43	63	37989	10.744 ug/L	97
38) Bromodichloromethane	6.76	83	47263	10.711 ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	56504	10.436 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	101614	21.449 ug/L	99

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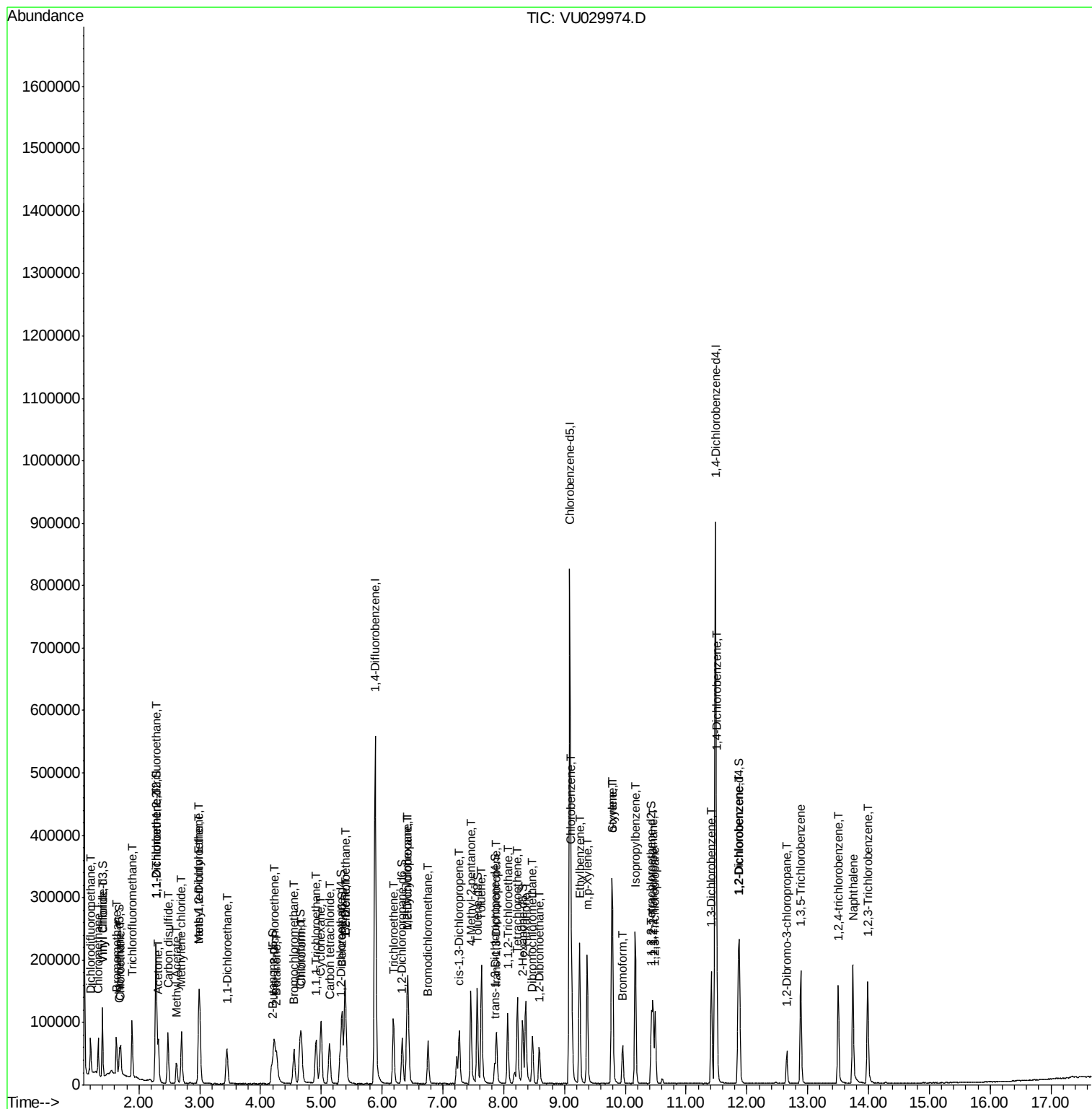
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	157494	10.674	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	50668	10.492	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	37467	10.453	ug/L	95
46) Tetrachloroethene	8.22	164	33500	10.698	ug/L	99
48) 2-Hexanone	8.36	43	87623	21.790	ug/L	99
49) Dibromochloromethane	8.47	129	41180	10.427	ug/L	99
50) 1,2-Dibromoethane	8.59	107	41746	10.799	ug/L	100
51) Chlorobenzene	9.12	112	106124	10.637	ug/L	100
52) Ethylbenzene	9.25	91	170098	10.416	ug/L	99
53) m,p-Xylene	9.37	106	63558	10.103	ug/L	94
54) o-xylene	9.78	106	63840	10.256	ug/L	96
55) Styrene	9.79	104	106468	10.400	ug/L	99
56) Isopropylbenzene	10.16	105	167542	10.382	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	63740	10.294	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	49774	10.667	ug/L	99
61) Bromoform	9.95	173	29869	10.237	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	81322	10.661	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	82414	10.551	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	83417	10.721	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	13370	10.802	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	63455	10.894	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	55942	10.724	ug/L	99
69) Naphthalene	13.74	128	181054	11.019	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	59664	10.853	ug/L	96

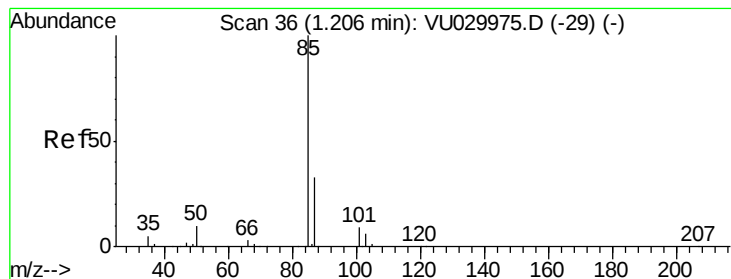
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 8.816 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

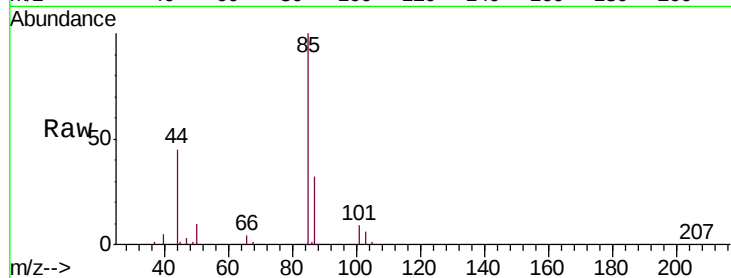
VSTD01044

Tgt Ion: 85 Resp: 34215

Ion Ratio Lower Upper

85 100

87 32.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU029975.D (-29) (-)

Ion 87.00 (86.70 to 87.70): VU029975.D (-29) (-)

1.21

30000

20000

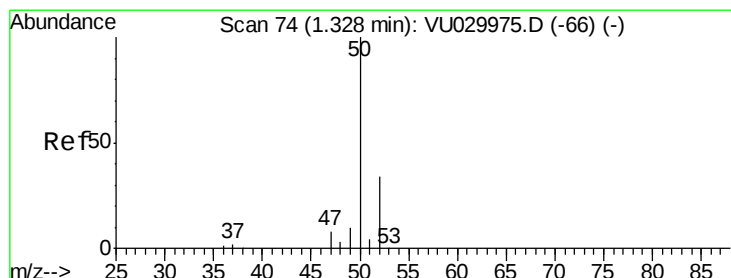
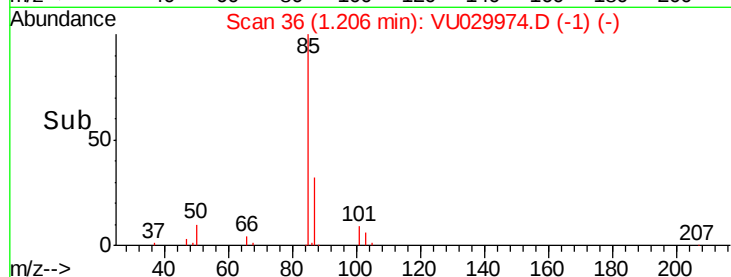
10000

0

Time-->

1.20

1.25



#3

Chloromethane

Concen: 7.528 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU029974.D

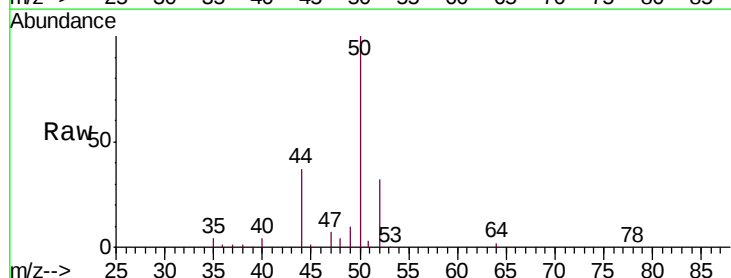
Acq: 11 Mar 2019 18:23

Tgt Ion: 50 Resp: 37407

Ion Ratio Lower Upper

50 100

52 32.4 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU029975.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU029975.D (-66) (-)

1.33

40000

30000

20000

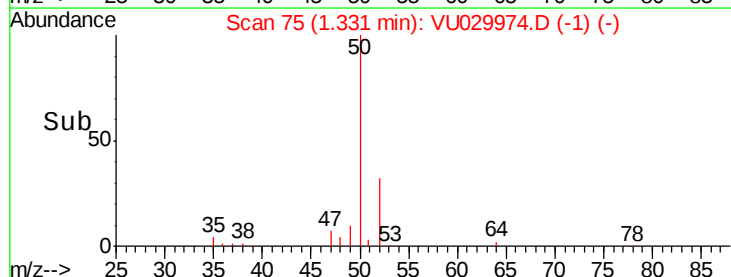
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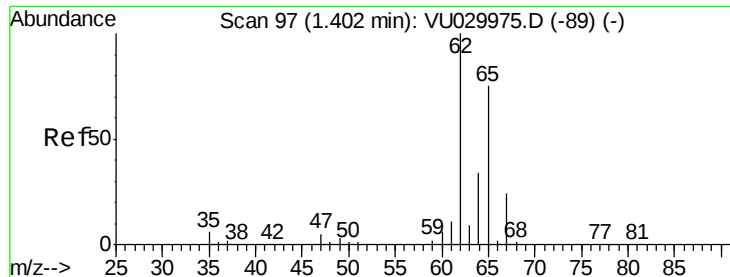
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Time-->

1.30

1.35





#5

Vinyl chloride

Concen: 10.327 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

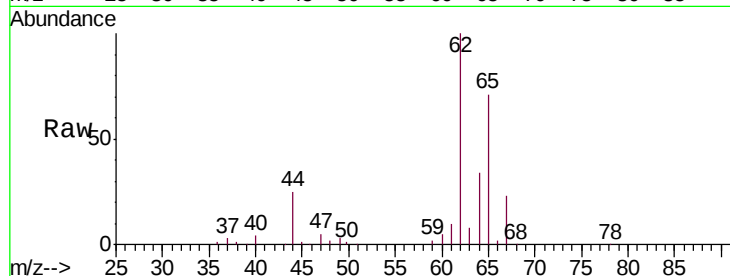
VSTD01044

Tgt Ion: 62 Resp: 41803

Ion Ratio Lower Upper

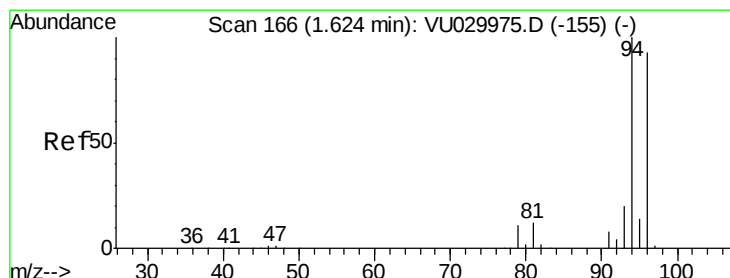
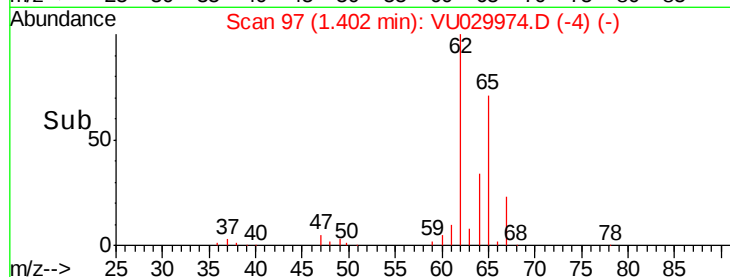
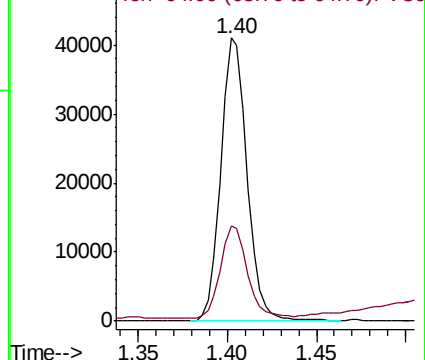
62 100

64 33.6 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 18.806 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU029974.D

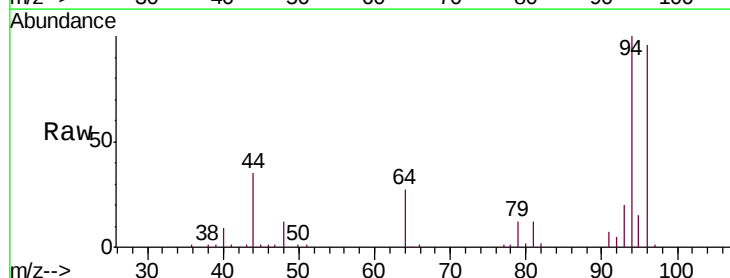
Acq: 11 Mar 2019 18:23

Tgt Ion: 94 Resp: 25866

Ion Ratio Lower Upper

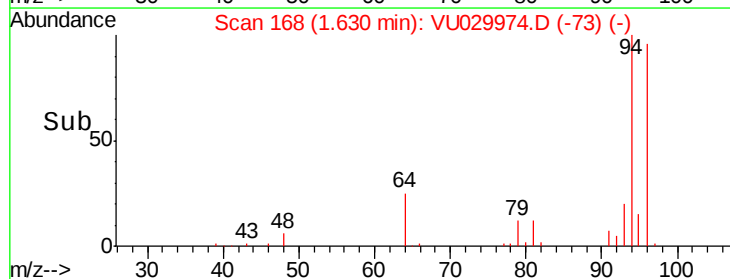
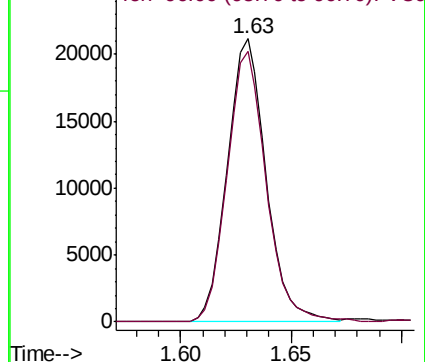
94 100

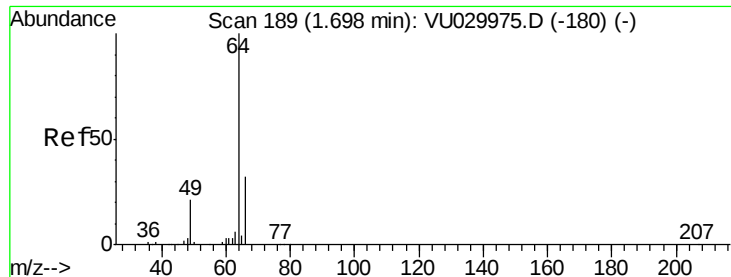
96 95.5 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 10.447 ug/L

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

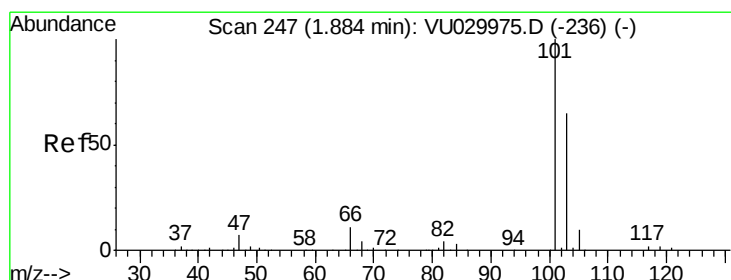
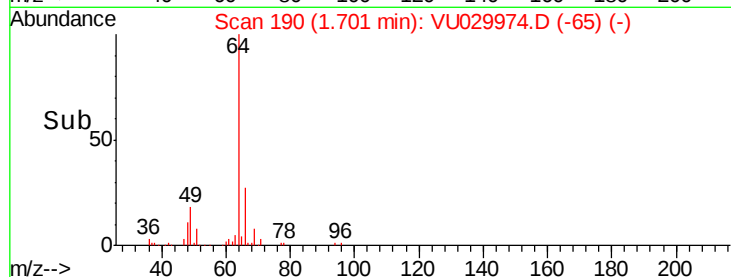
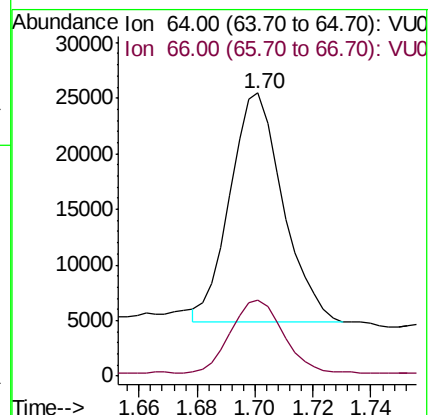
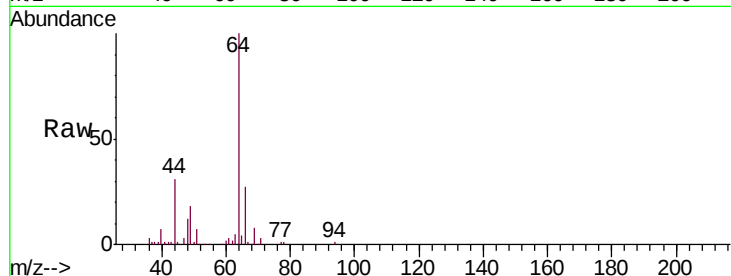
VSTD01044

Tgt Ion: 64 Resp: 26085

Ion Ratio Lower Upper

64 100

66 26.7 21.3 39.6



#9

Trichlorofluoromethane

Concen: 10.253 ug/L

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU029974.D

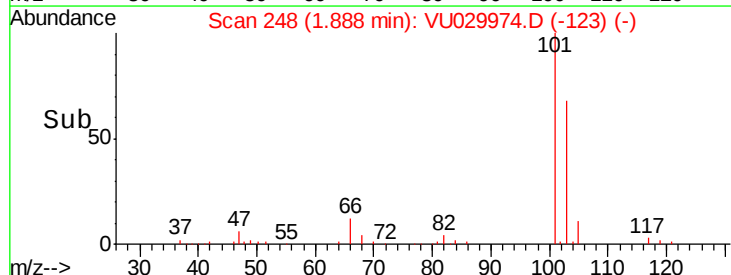
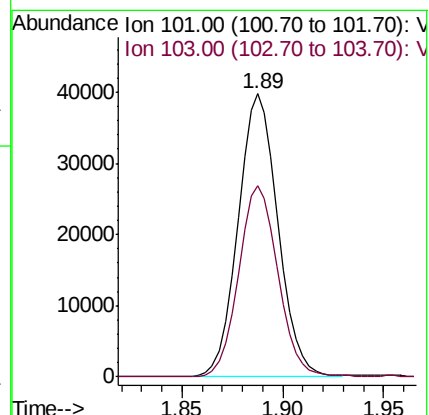
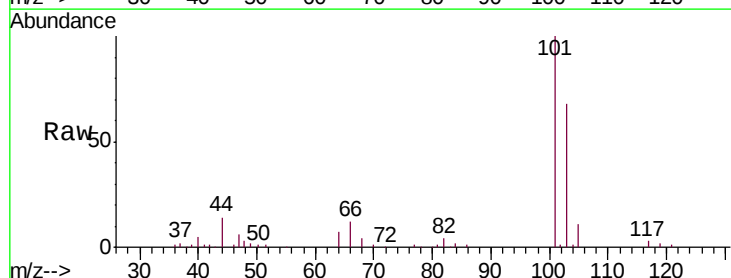
Acq: 11 Mar 2019 18:23

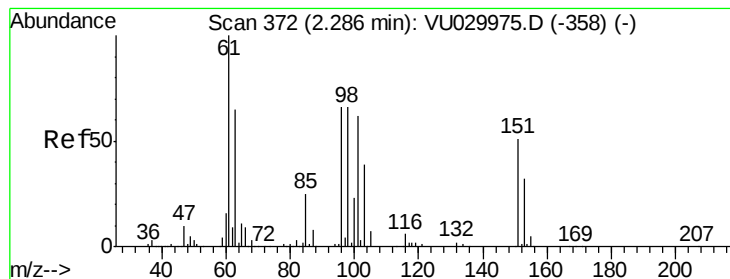
Tgt Ion: 101 Resp: 55110

Ion Ratio Lower Upper

101 100

103 66.7 52.5 78.7





#10

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

Concen: 10.656 ug/L

RT: 2.29 min Scan# 373

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

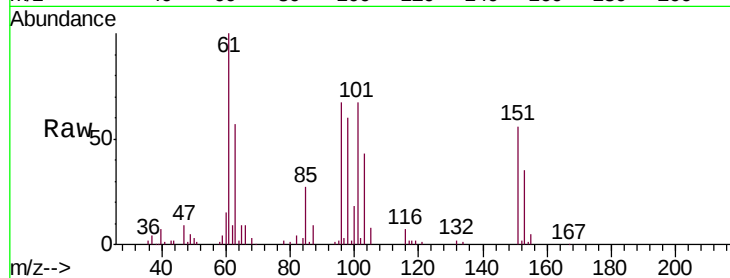
Tgt Ion: 101 Resp: 35635

Ion Ratio Lower Upper

101 100

85 39.8 33.0 49.4

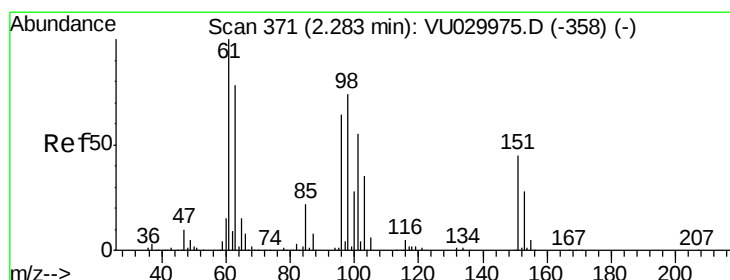
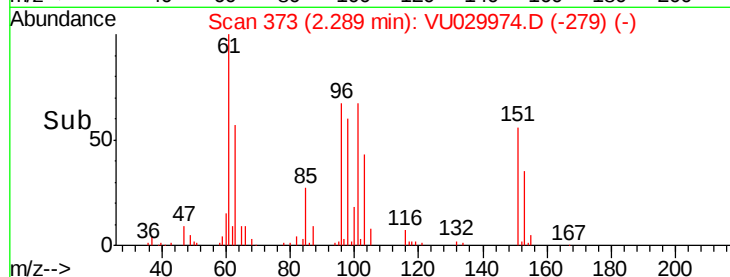
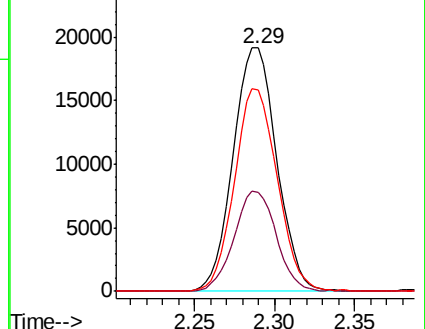
151 81.5 66.1 99.1



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: 10.247 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

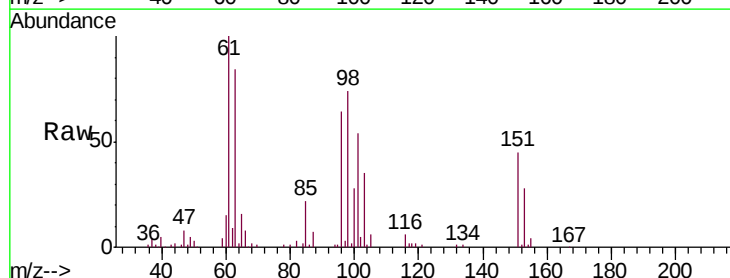
Tgt Ion: 96 Resp: 33075

Ion Ratio Lower Upper

96 100

61 156.7 110.4 205.0

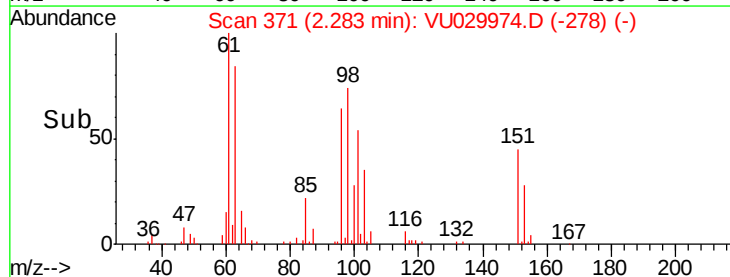
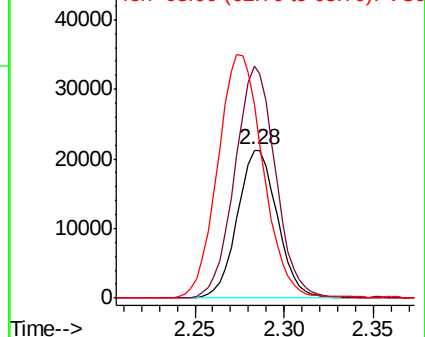
63 131.2 86.5 160.7

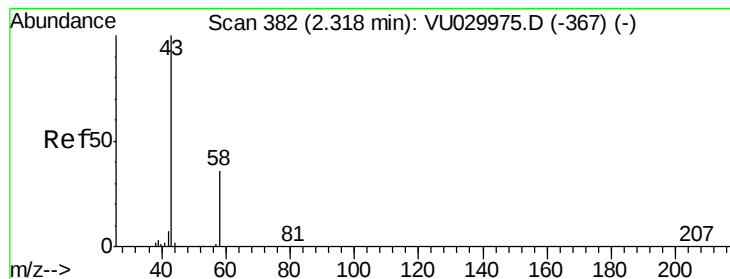


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 24.333 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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ClientSampleId :

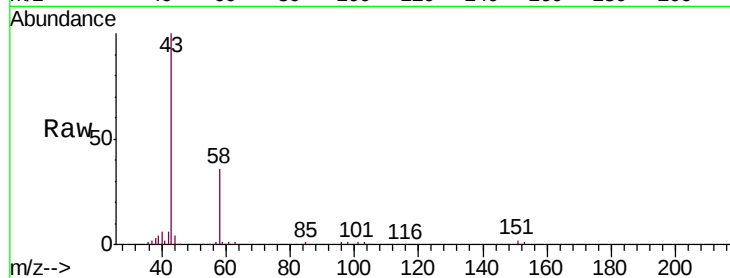
VSTD01044

Tgt Ion: 43 Resp: 66796

Ion Ratio Lower Upper

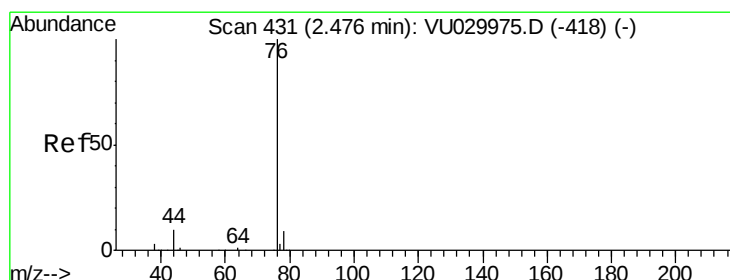
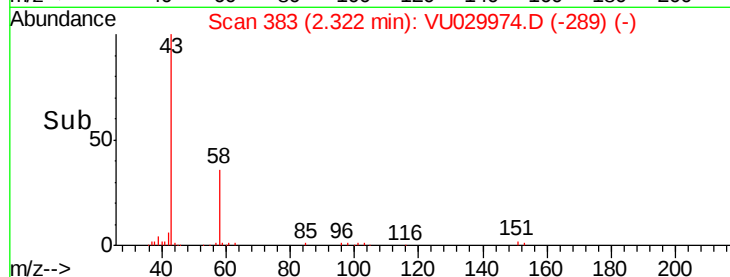
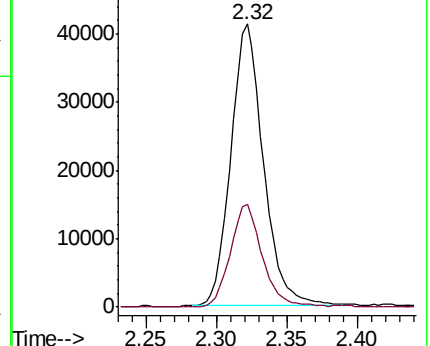
43 100

58 35.8 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU029975.D (-367) (-)

Ion 58.00 (57.70 to 58.70): VU029975.D (-367) (-)



#14

Carbon disulfide

Concen: 10.177 ug/L

RT: 2.48 min Scan# 432

Delta R.T. 0.00 min

Lab File: VU029974.D

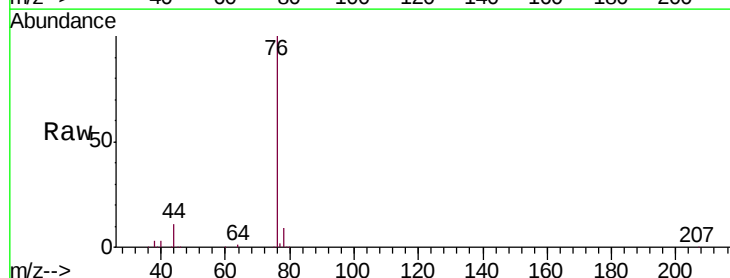
Acq: 11 Mar 2019 18:23

Tgt Ion: 76 Resp: 102345

Ion Ratio Lower Upper

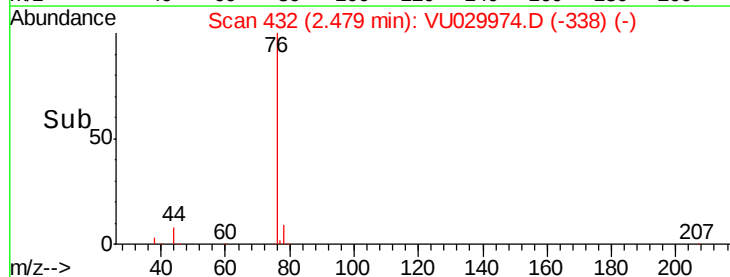
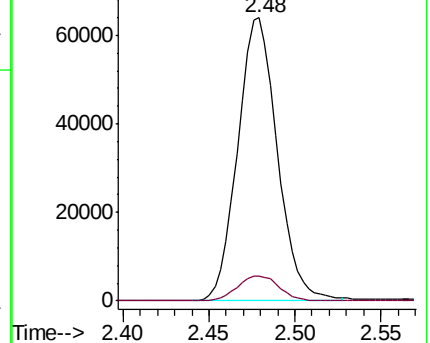
76 100

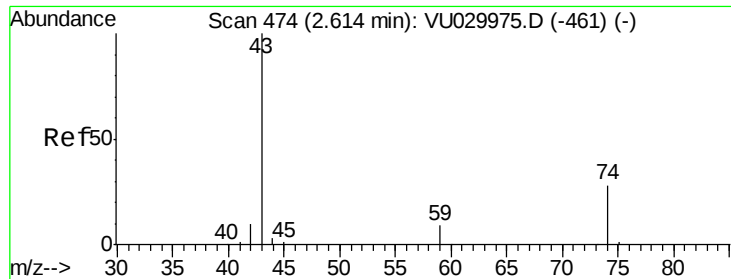
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU029975.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU029975.D (-418) (-)

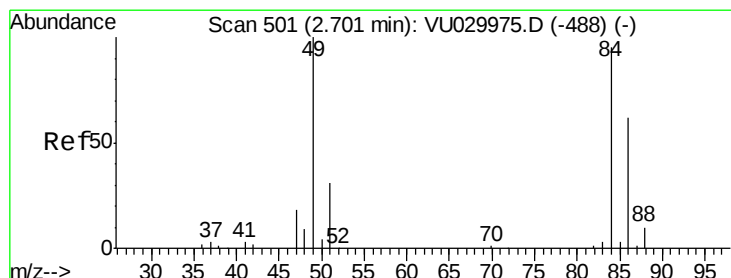
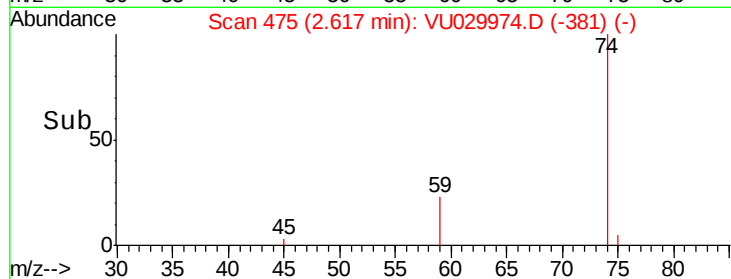
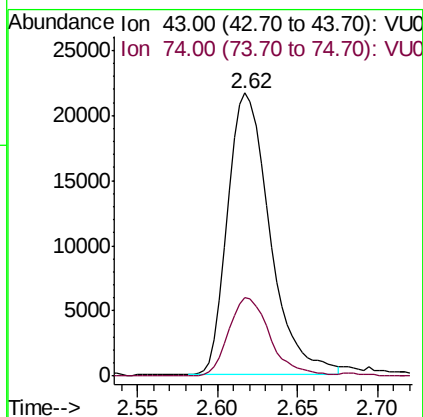
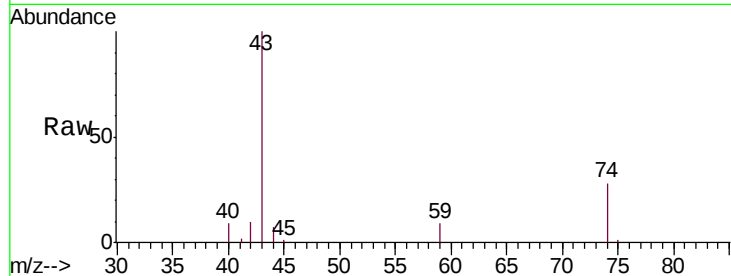




#15
Methyl Acetate
Concen: 10.402 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

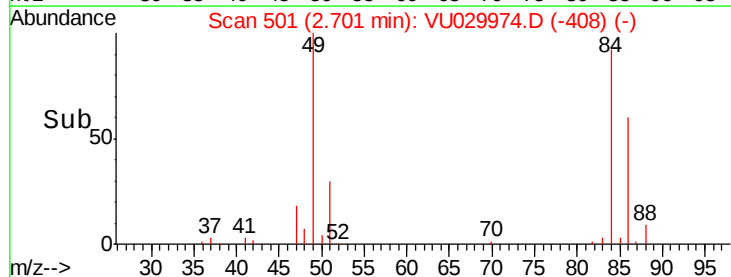
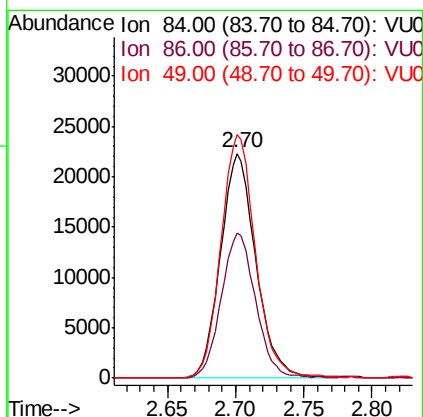
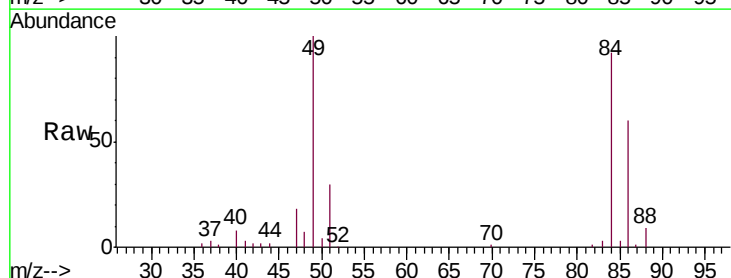
Instrument :
MSVOA_U
ClientSampleId :
VSTD01044

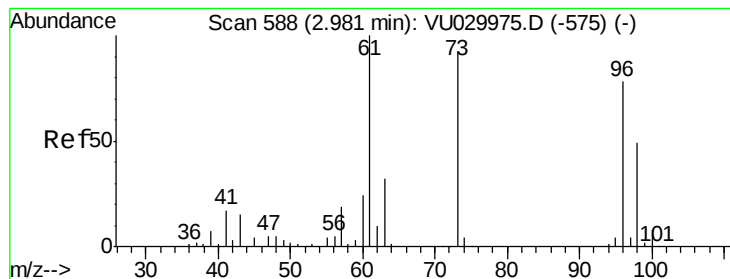
Tgt Ion: 43 Resp: 38943
Ion Ratio Lower Upper
43 100
74 27.4 21.9 32.9



#16
Methylene chloride
Concen: 10.586 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

Tgt Ion: 84 Resp: 40188
Ion Ratio Lower Upper
84 100
86 64.7 45.2 84.0
49 108.2 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 10.366 ug/L

RT: 2.98 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

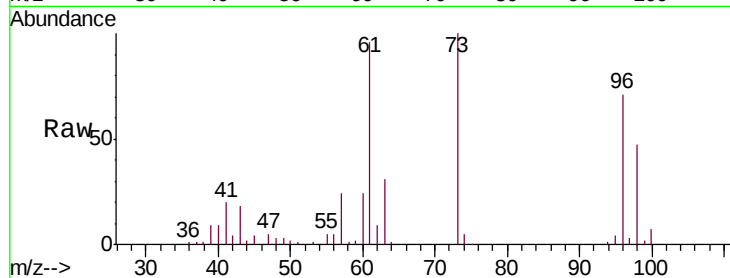
Tgt Ion: 96 Resp: 35757

Ion Ratio Lower Upper

96 100

61 135.3 89.4 166.0

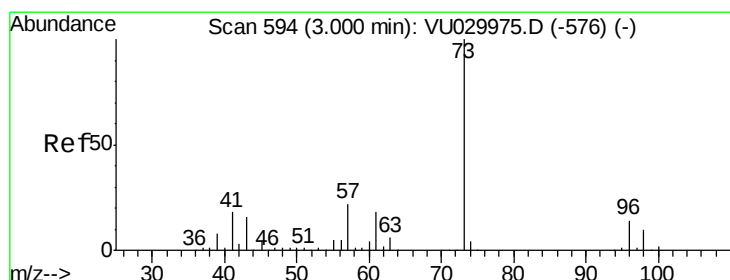
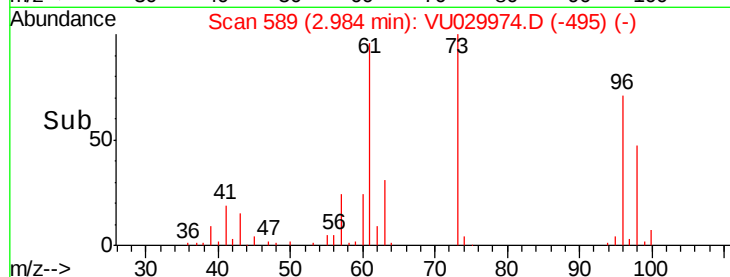
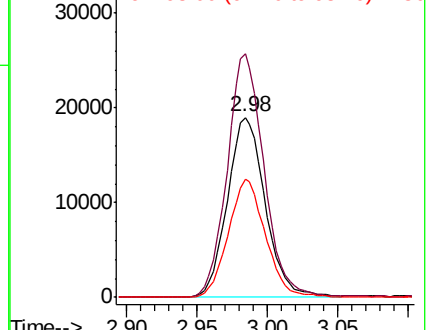
98 65.6 43.3 80.5



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: 11.989 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

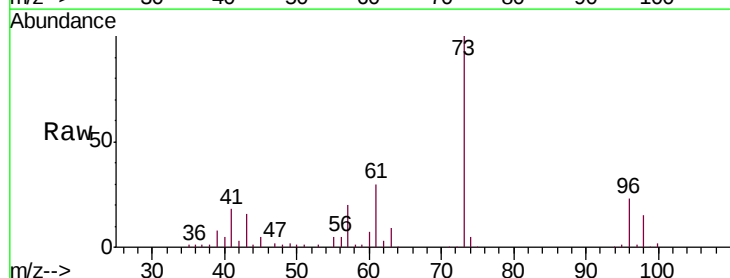
Tgt Ion: 73 Resp: 107821

Ion Ratio Lower Upper

73 100

43 16.7 13.1 19.7

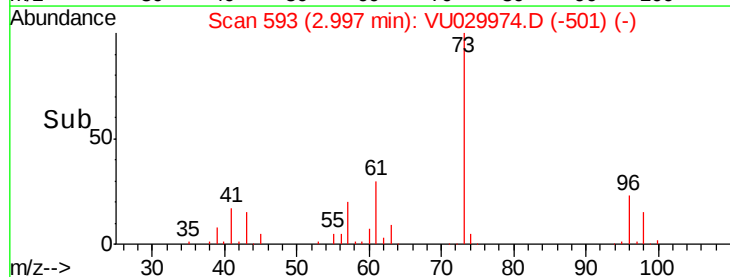
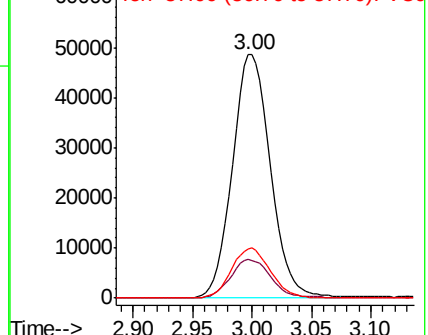
57 21.0 17.1 25.7

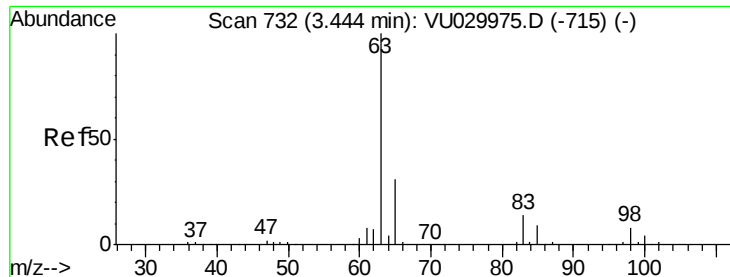


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

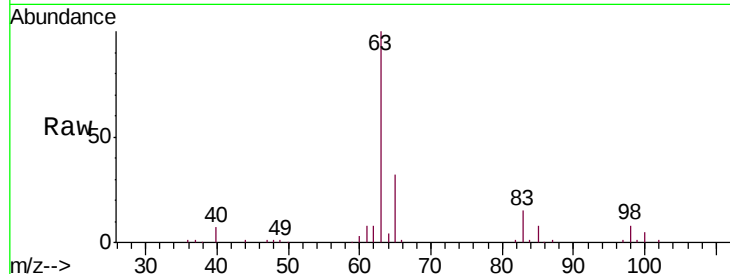




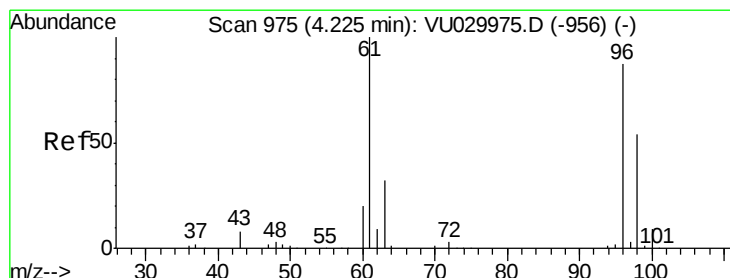
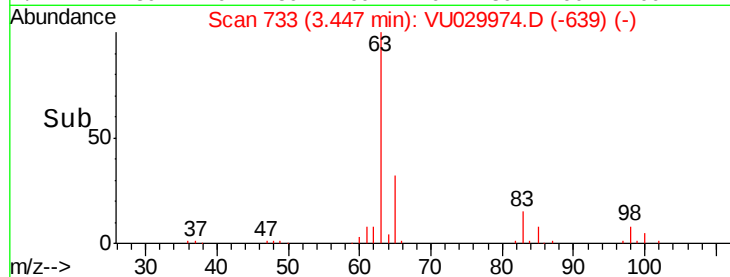
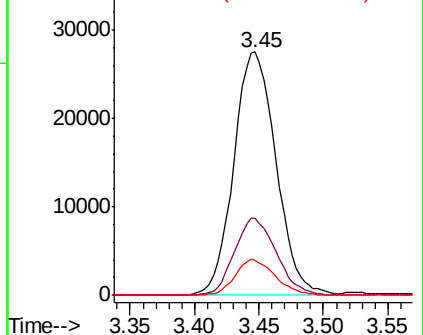
#19
 1,1-Dichloroethane
 Concen: 10.599 ug/L
 RT: 3.45 min Scan# 733
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

Tgt Ion: 63 Resp: 62853
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.0 41.0
 83 14.6 9.7 18.1

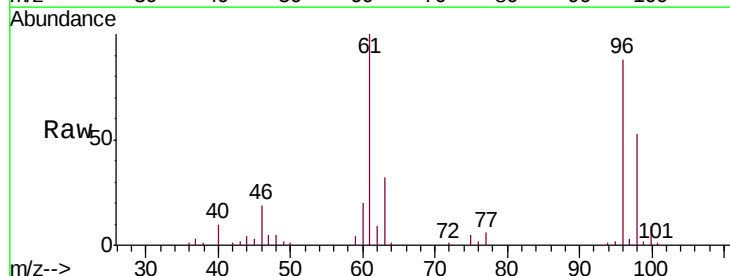


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

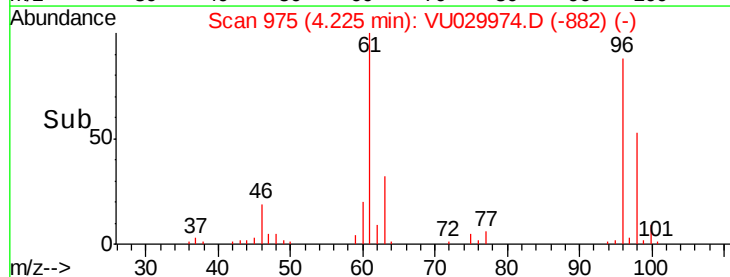
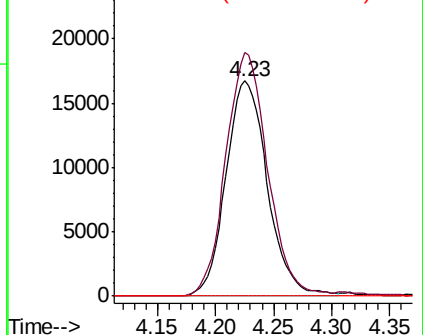


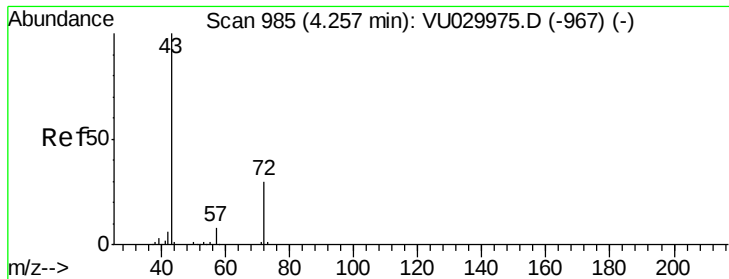
#20
 cis-1,2-Dichloroethene
 Concen: 10.543 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion: 96 Resp: 41500
 Ion Ratio Lower Upper
 96 100
 61 113.2 80.8 150.2
 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: 22.487 ug/L

RT: 4.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

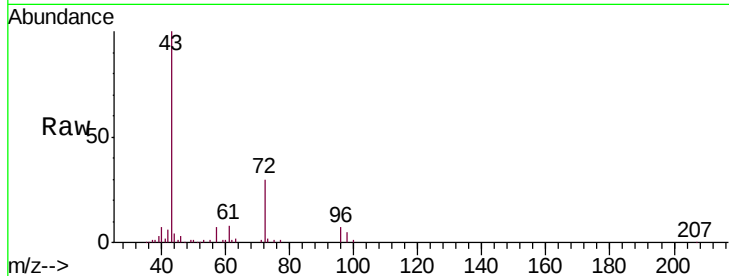
VSTD01044

Tgt Ion: 43 Resp: 70851

Ion Ratio Lower Upper

43 100

72 29.2 15.3 45.9

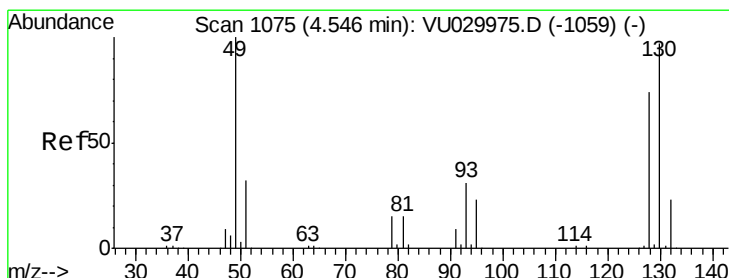
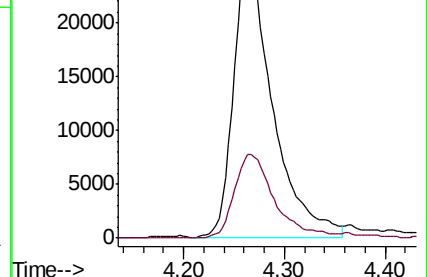
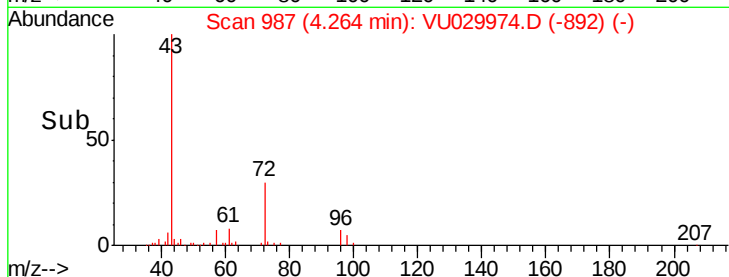


Abundance Ion 43.00 (42.70 to 43.70): VU029975.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU029975.D (-967) (-)

4.26

Time-->



#23

Bromochloromethane

Concen: 10.855 ug/L

RT: 4.55 min Scan# 1077

Delta R.T. 0.01 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Tgt Ion: 128 Resp: 21598

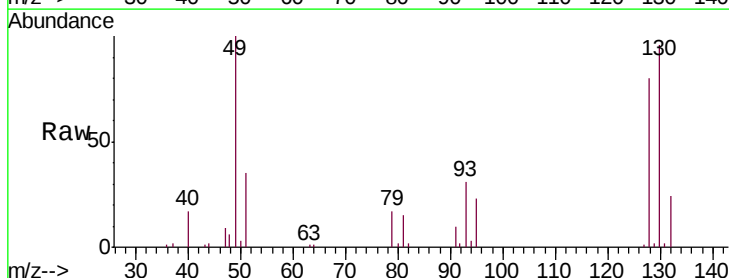
Ion Ratio Lower Upper

128 100

49 124.8 94.5 175.5

130 119.7 91.4 169.8

51 44.2 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU029975.D (-1059) (-)

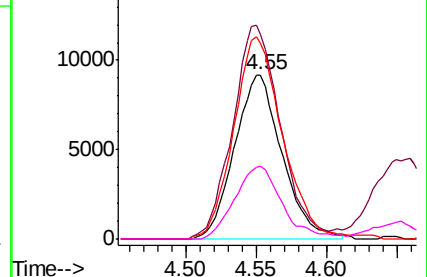
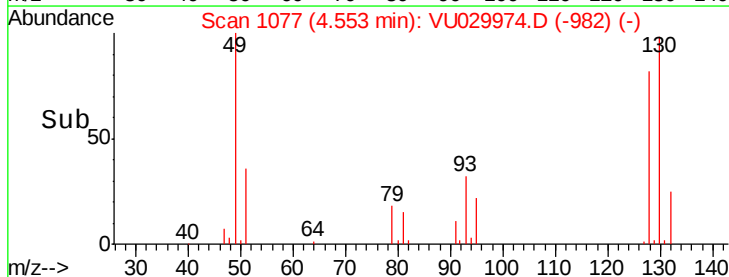
Ion 49.00 (48.70 to 49.70): VU029975.D (-1059) (-)

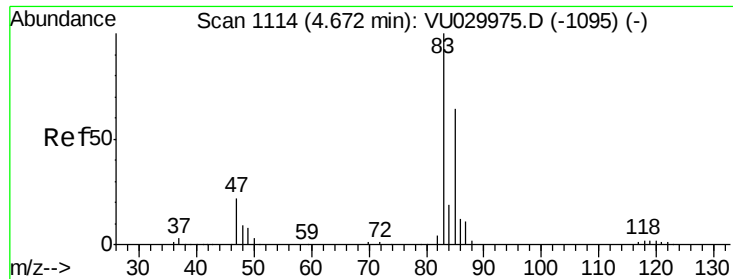
Ion 130.00 (129.70 to 130.70): VU029975.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU029975.D (-1059) (-)

4.55

Time-->

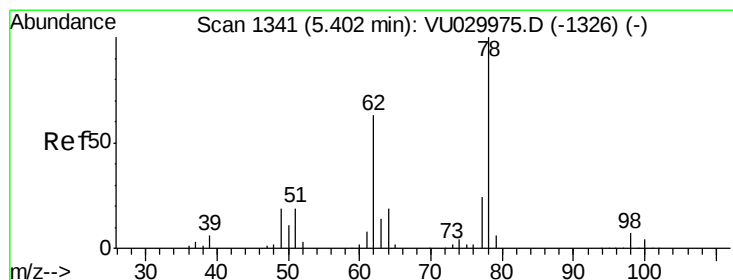
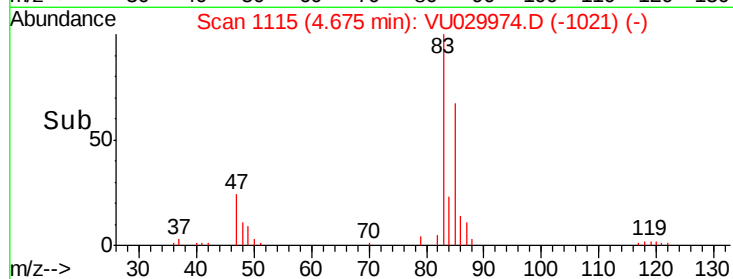
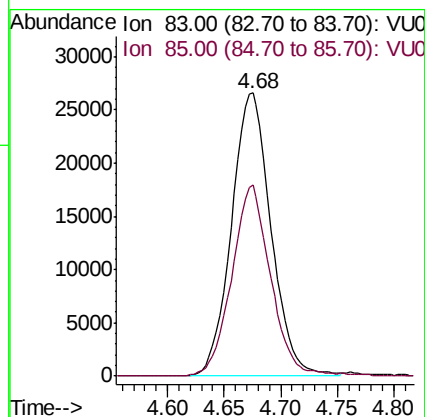
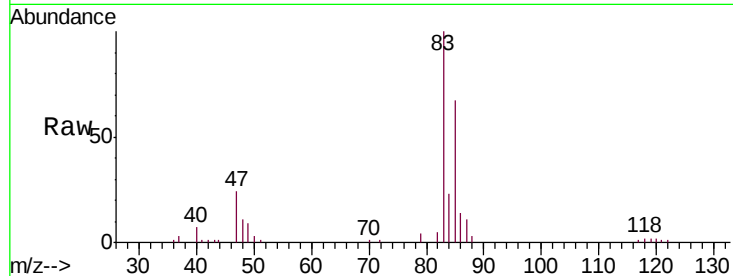




#25
Chloroform
Concen: 10.137 ug/L
RT: 4.68 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

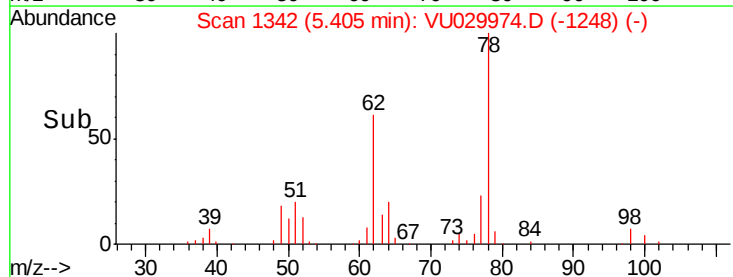
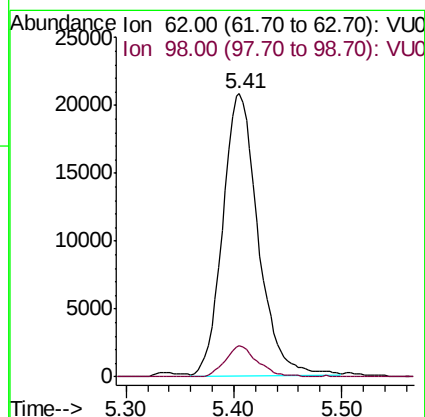
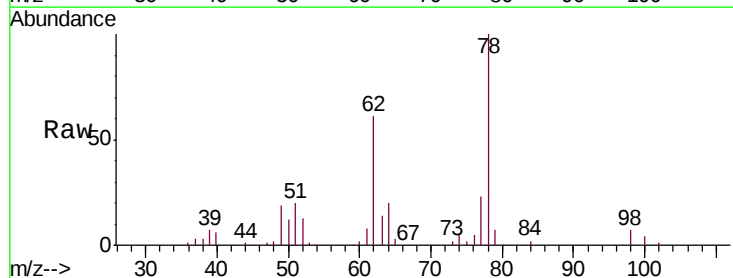
Instrument :
MSVOA_U
ClientSampleId :
VSTD01044

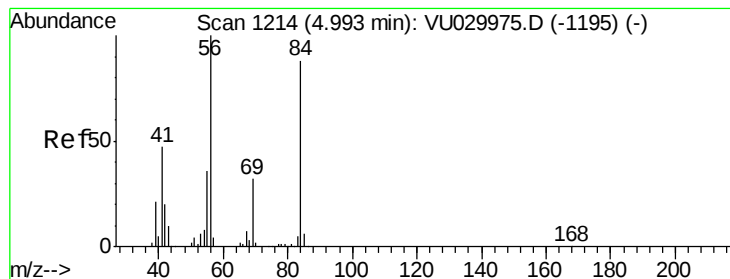
Tgt Ion: 83 Resp: 64719
Ion Ratio Lower Upper
83 100
85 67.4 44.9 83.5



#27
1,2-Dichloroethane
Concen: 10.501 ug/L
RT: 5.41 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

Tgt Ion: 62 Resp: 47553
Ion Ratio Lower Upper
62 100
98 11.1 8.8 13.2





#29

Cyclohexane

Concen: 10.649 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

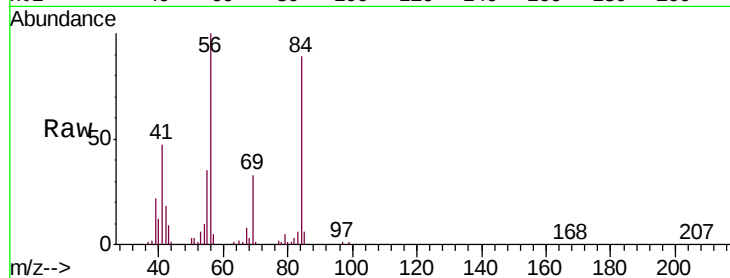
Tgt Ion: 56 Resp: 55356

Ion Ratio Lower Upper

56 100

69 32.7 25.3 37.9

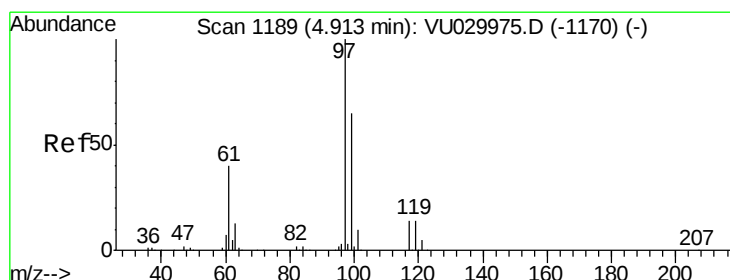
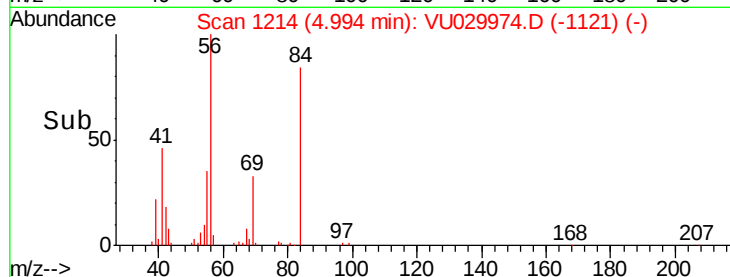
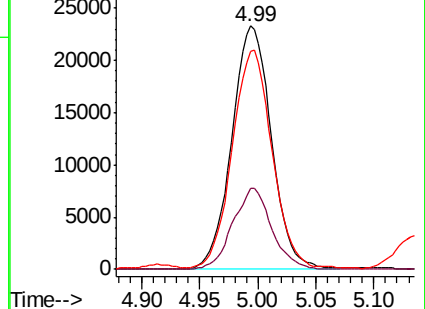
84 89.5 73.5 110.3



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 11.192 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

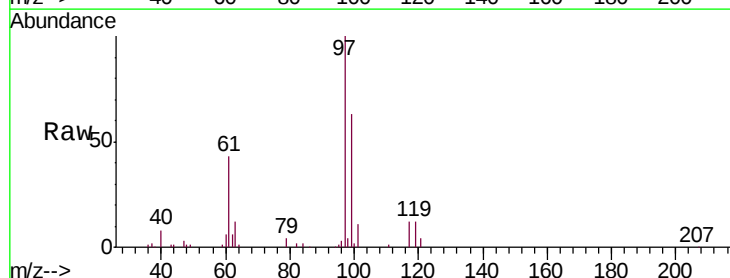
Tgt Ion: 97 Resp: 56872

Ion Ratio Lower Upper

97 100

99 64.0 52.2 78.2

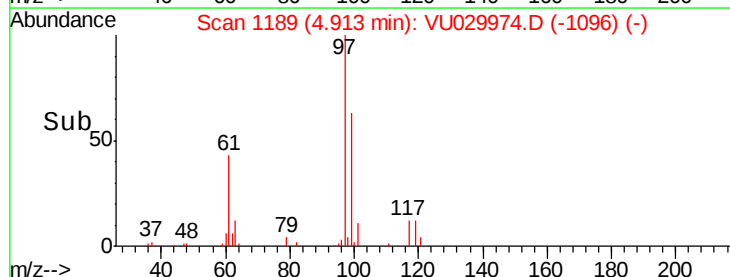
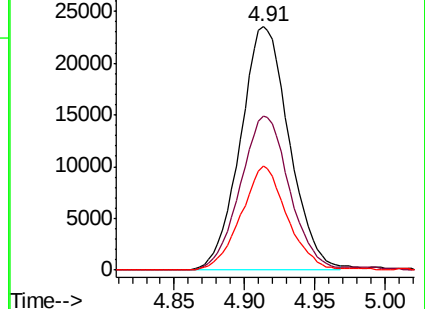
61 40.4 32.2 48.4

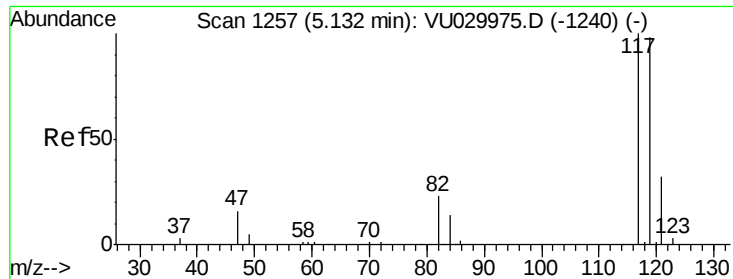


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 10.848 ug/L

RT: 5.13 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

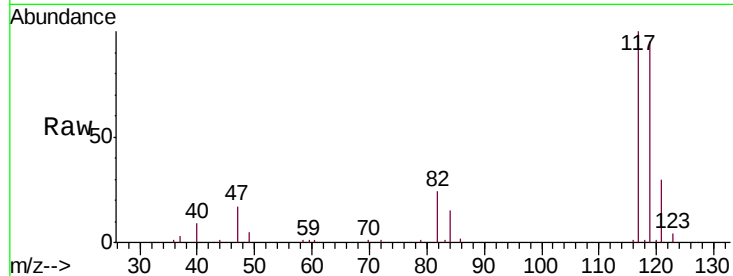
VSTD01044

Tgt Ion:117 Resp: 48961

Ion Ratio Lower Upper

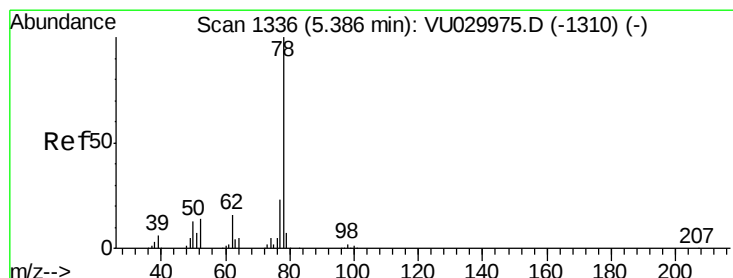
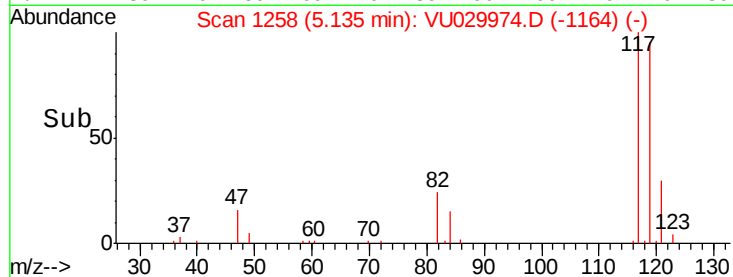
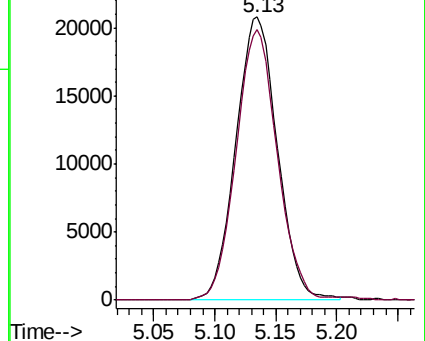
117 100

119 94.7 77.3 115.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 10.978 ug/L

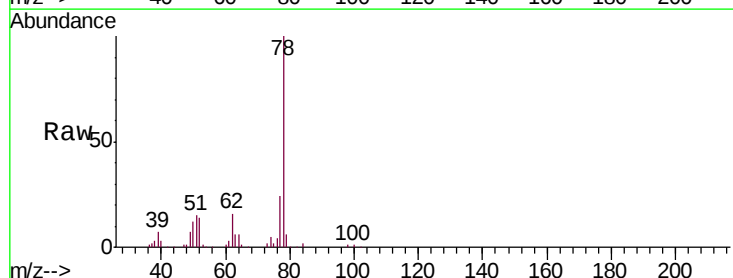
RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

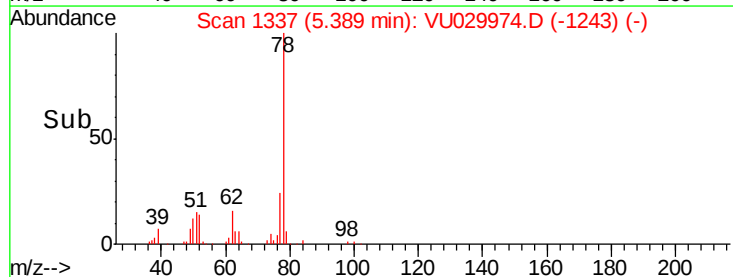
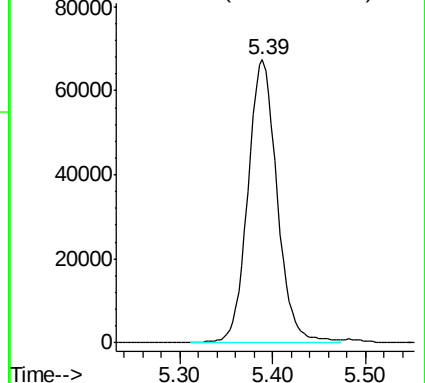
Lab File: VU029974.D

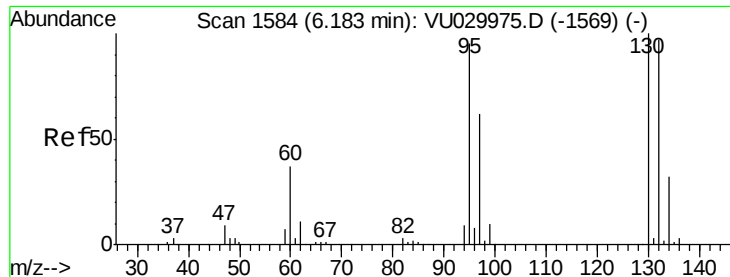
Acq: 11 Mar 2019 18:23

Tgt Ion: 78 Resp: 148138



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 10.571 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

Tgt Ion: 95 Resp: 38511

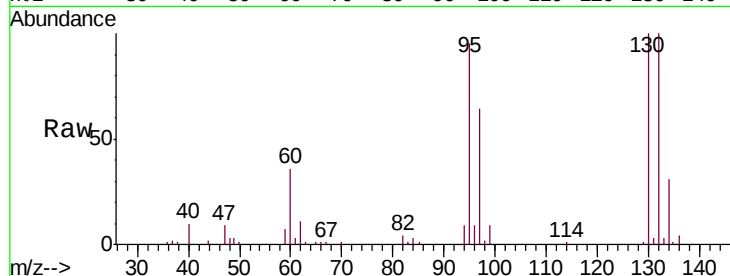
Ion Ratio Lower Upper

95 100

97 67.0 45.5 84.5

132 104.8 71.5 132.7

130 104.4 73.5 136.5

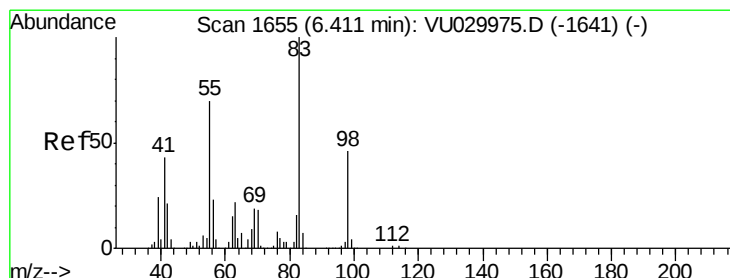
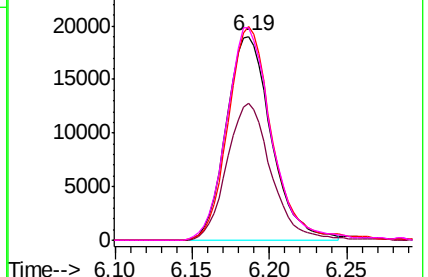
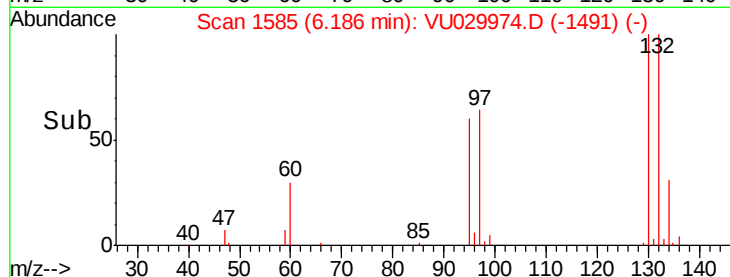


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 10.153 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

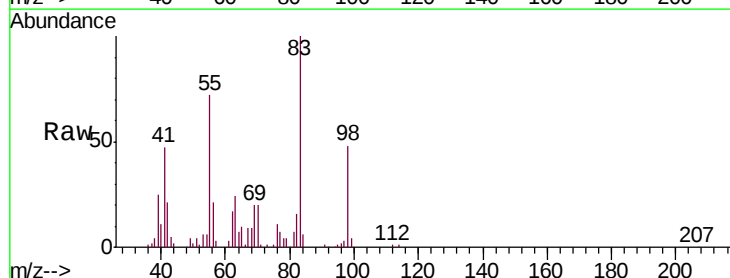
Tgt Ion: 83 Resp: 58906

Ion Ratio Lower Upper

83 100

55 74.8 56.6 84.8

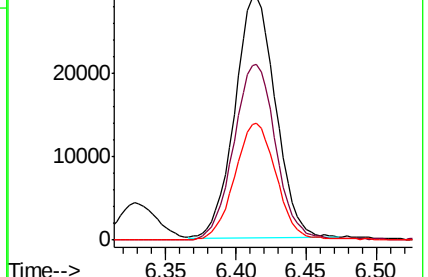
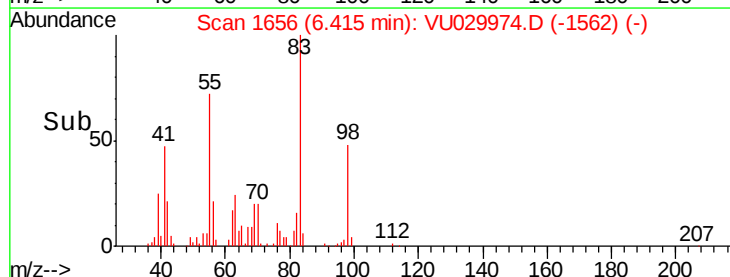
98 49.5 37.8 56.6

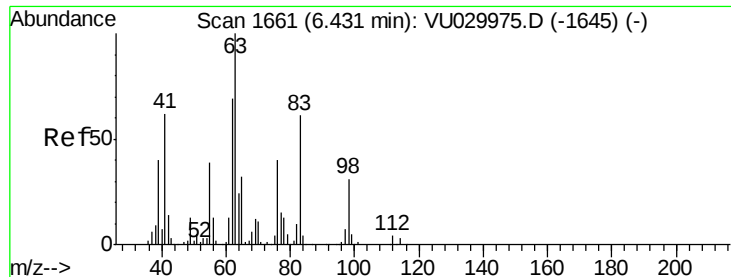


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 10.744 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

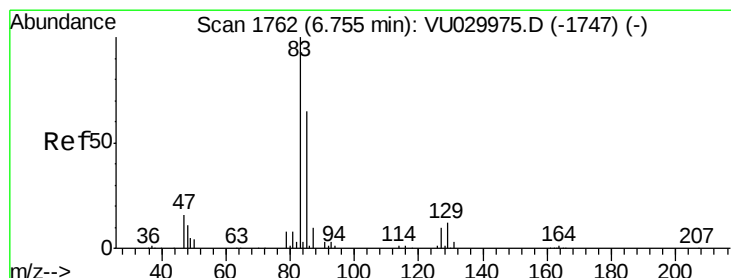
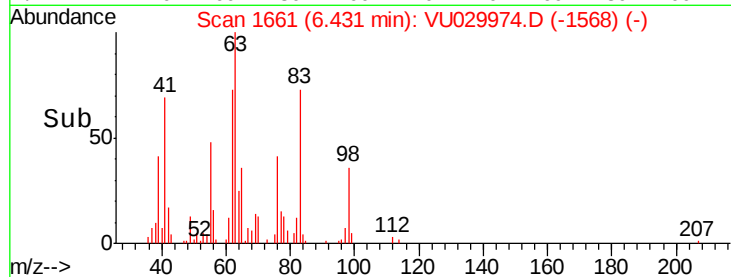
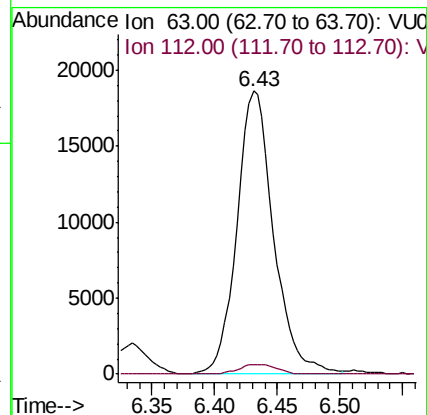
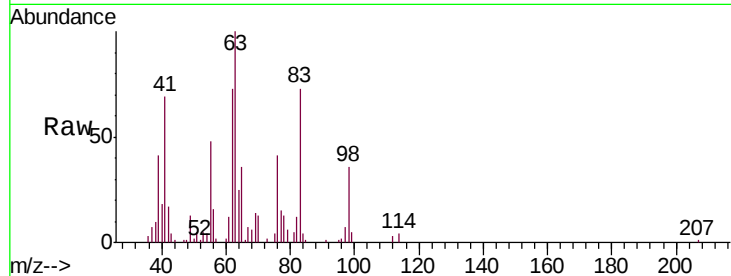
VSTD01044

Tgt Ion: 63 Resp: 37989

Ion Ratio Lower Upper

63 100

112 3.5 3.4 5.2



#38

Bromodichloromethane

Concen: 10.711 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

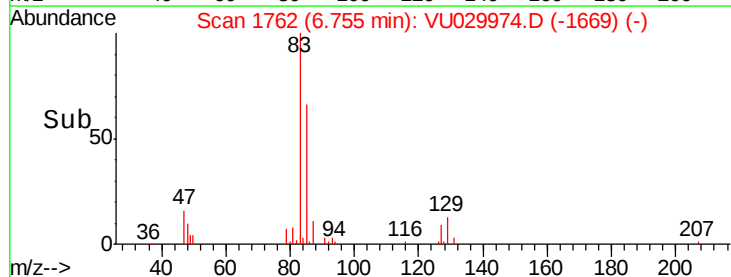
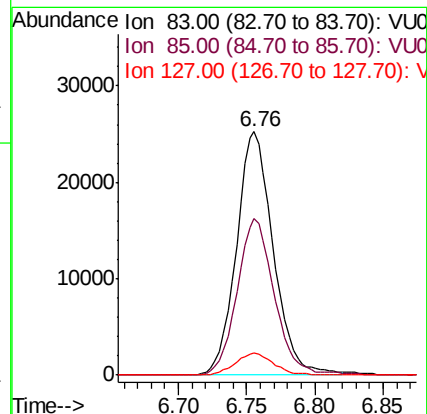
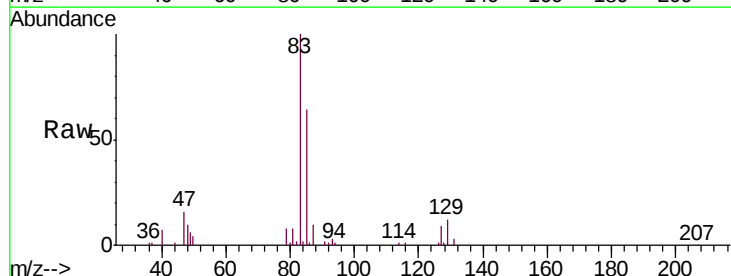
Tgt Ion: 83 Resp: 47263

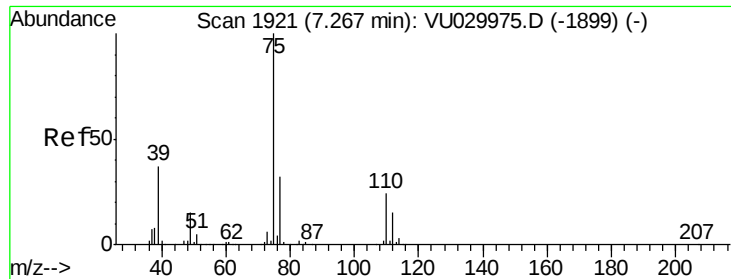
Ion Ratio Lower Upper

83 100

85 64.2 45.7 84.9

127 8.9 7.7 11.5

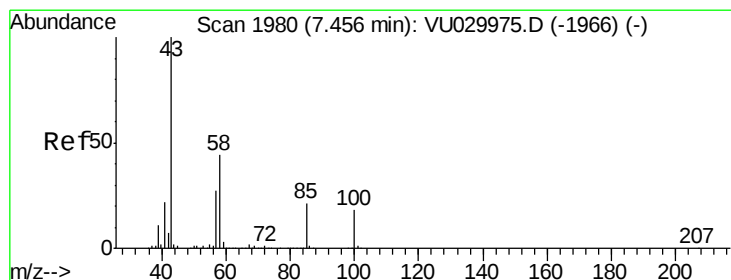
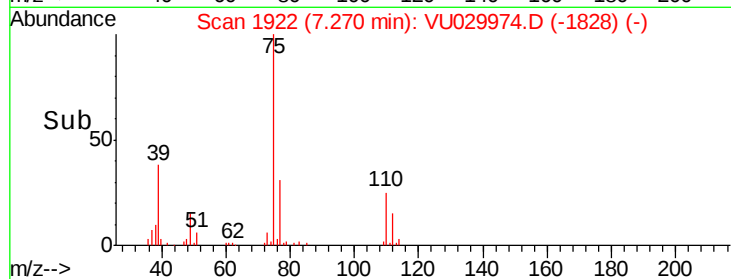
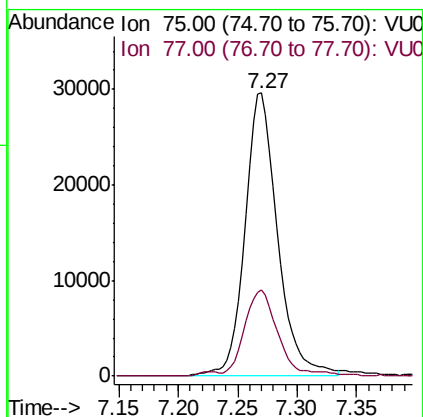
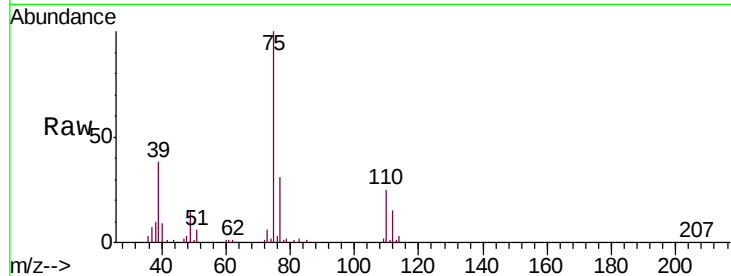




#39
 cis-1,3-Dichloropropene
 Concen: 10.436 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

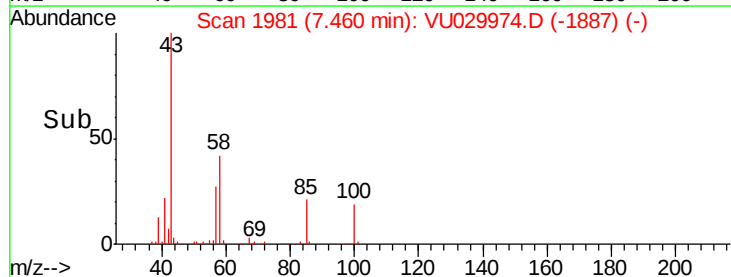
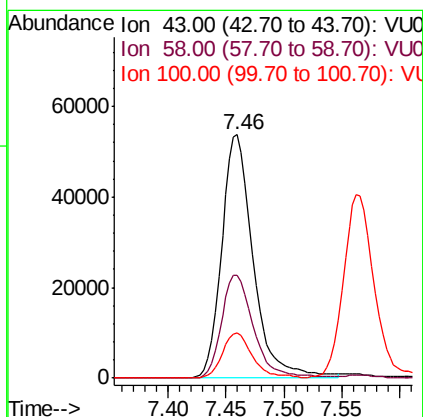
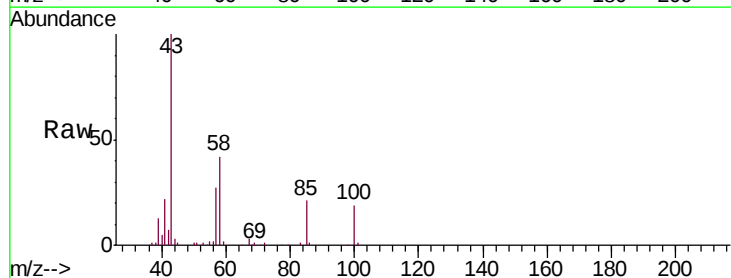
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

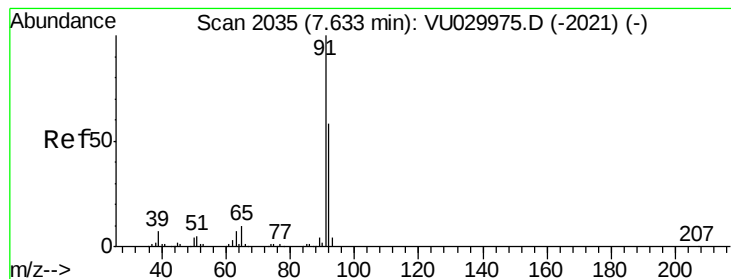
Tgt Ion: 75 Resp: 56504
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 21.449 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion: 43 Resp: 101614
 Ion Ratio Lower Upper
 43 100
 58 43.1 35.1 52.7
 100 17.8 14.4 21.6





#42

Toluene

Concen: 10.674 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

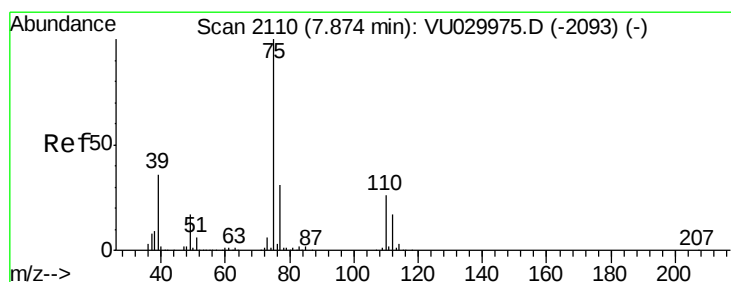
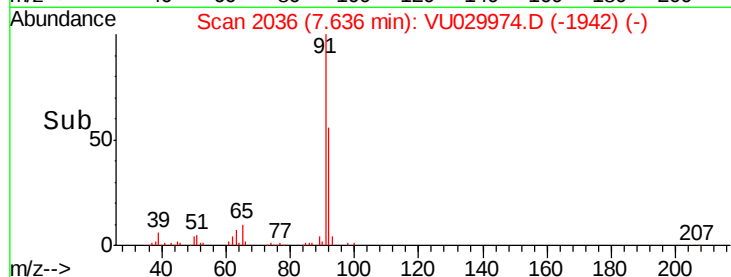
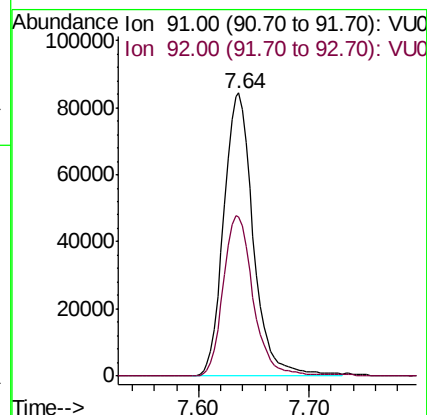
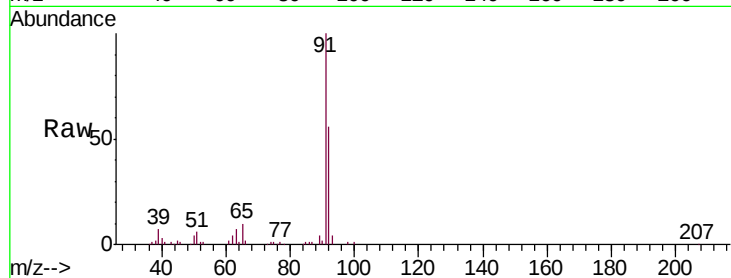
VSTD01044

Tgt Ion: 91 Resp: 157494

Ion Ratio Lower Upper

91 100

92 56.5 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 10.492 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU029974.D

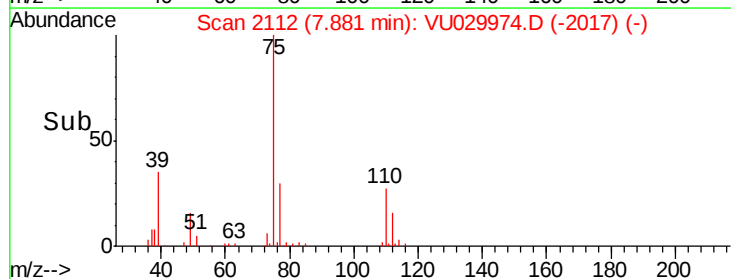
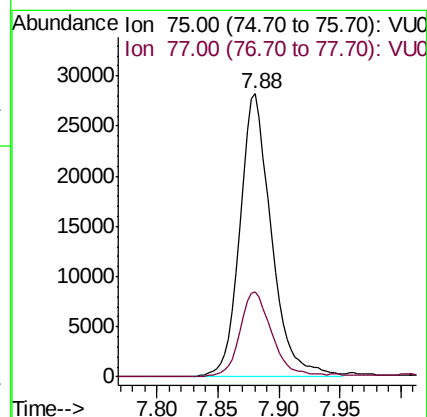
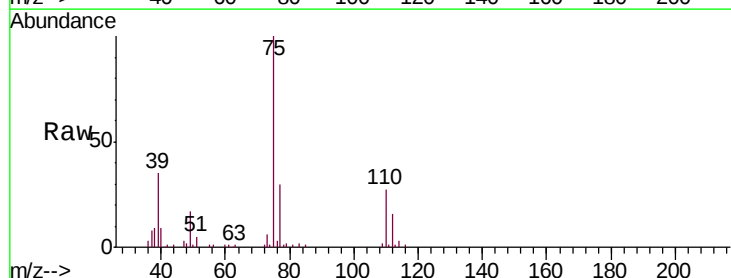
Acq: 11 Mar 2019 18:23

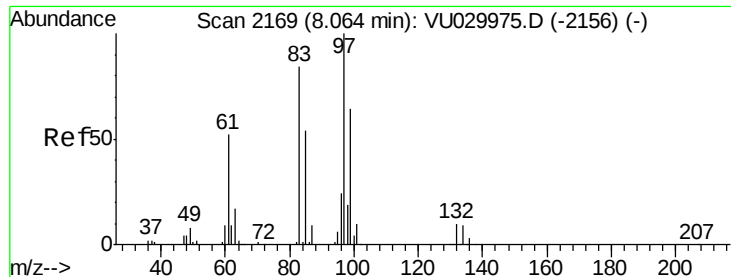
Tgt Ion: 75 Resp: 50668

Ion Ratio Lower Upper

75 100

77 30.2 21.9 40.7

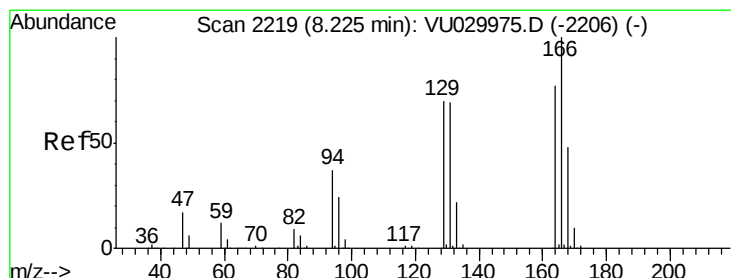
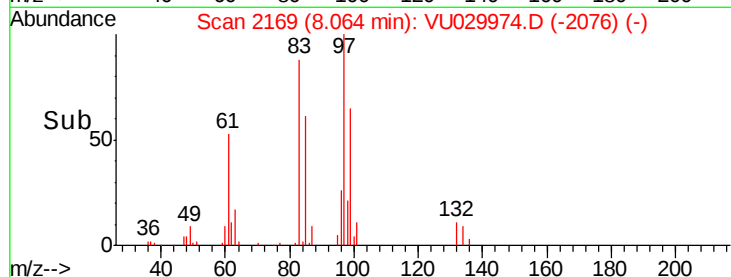
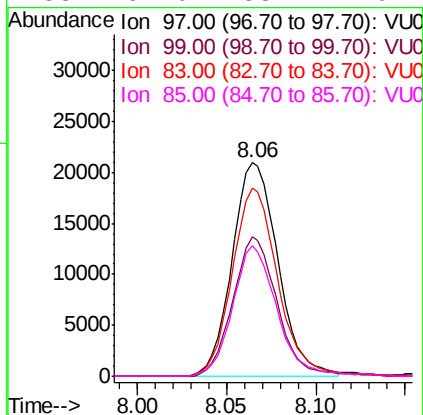
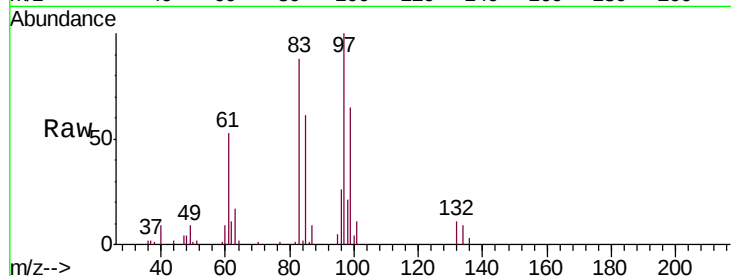




#45
 1,1,2-Trichloroethane
 Concen: 10.453 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

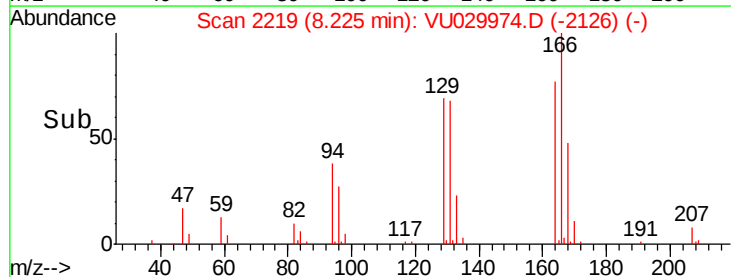
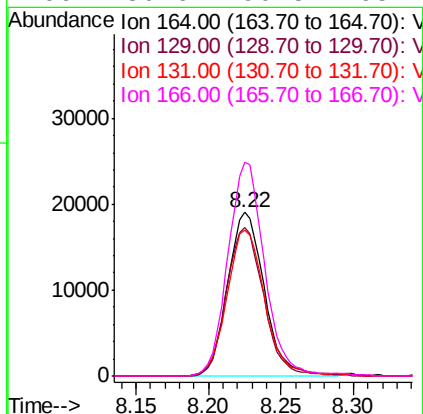
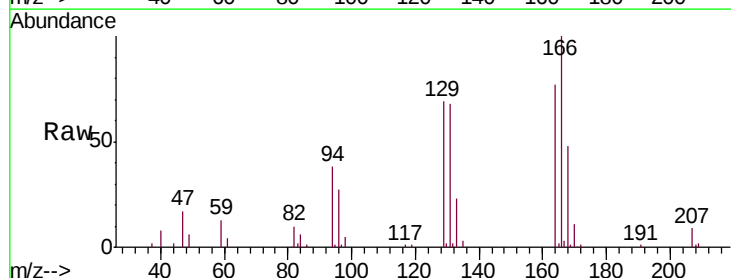
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

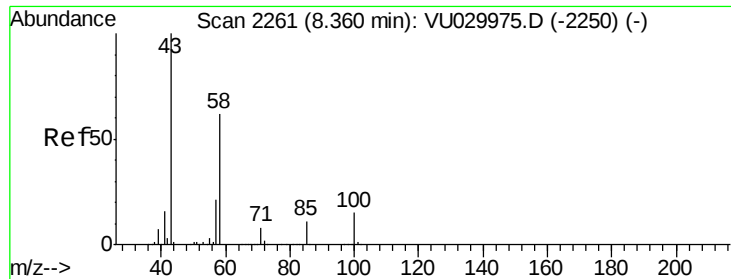
Tgt Ion:	97	Resp:	37467
Ion	Ratio	Lower	Upper
97	100		
99	65.4	44.7	82.9
83	88.0	58.6	108.8
85	61.0	38.1	70.7



#46
 Tetrachloroethene
 Concen: 10.698 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion:	164	Resp:	33500
Ion	Ratio	Lower	Upper
164	100		
129	90.6	63.3	117.7
131	89.0	62.0	115.2
166	130.6	90.5	168.1

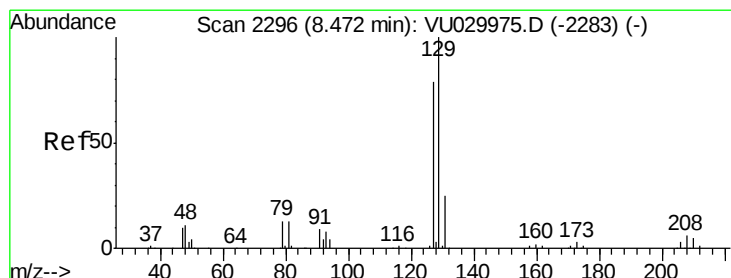
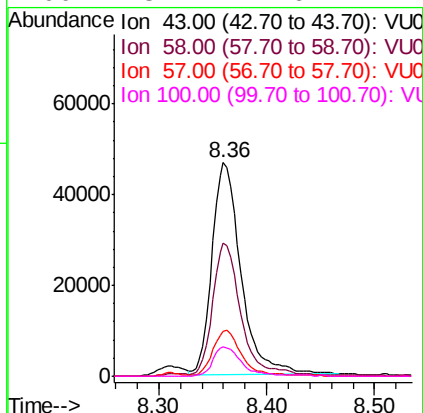
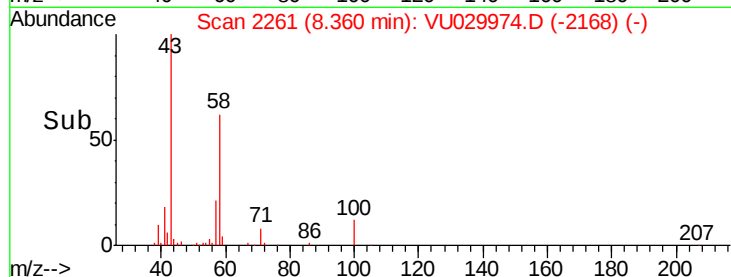
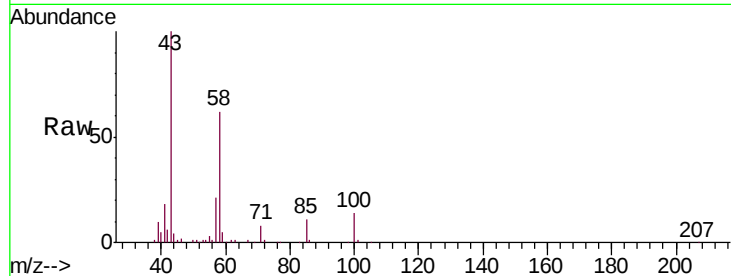




#48
2-Hexanone
Concen: 21.790 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

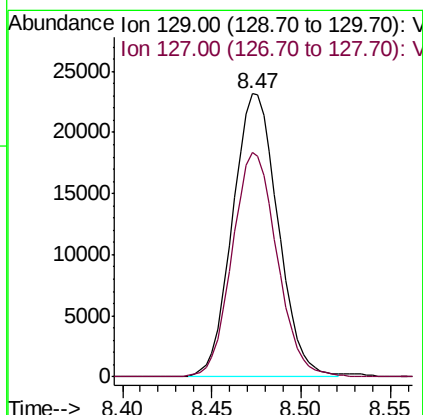
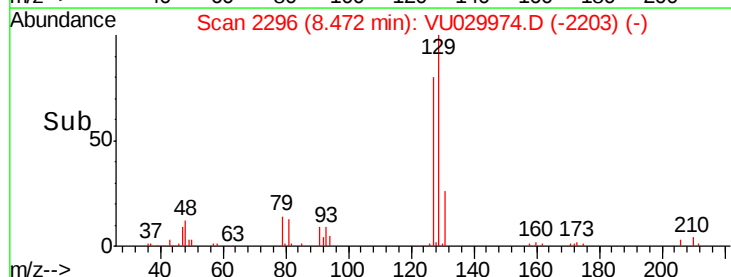
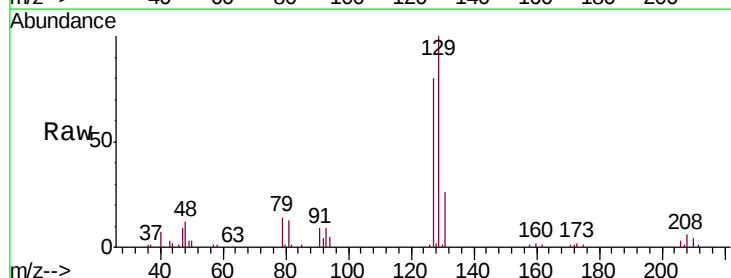
Instrument :
MSVOA_U
ClientSampleId :
VSTD01044

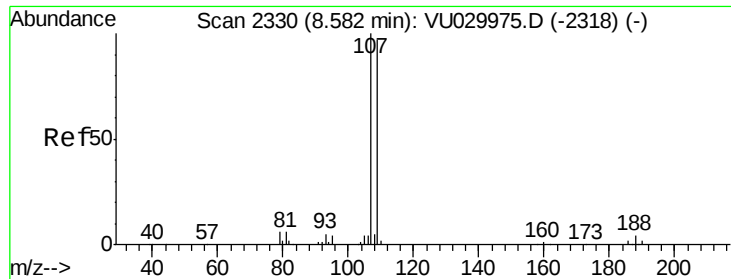
Tgt Ion: 43 Resp: 87623
Ion Ratio Lower Upper
43 100
58 61.5 48.6 72.8
57 21.1 16.1 24.1
100 13.7 11.6 17.4



#49
Dibromochloromethane
Concen: 10.427 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

Tgt Ion: 129 Resp: 41180
Ion Ratio Lower Upper
129 100
127 79.5 55.2 102.4

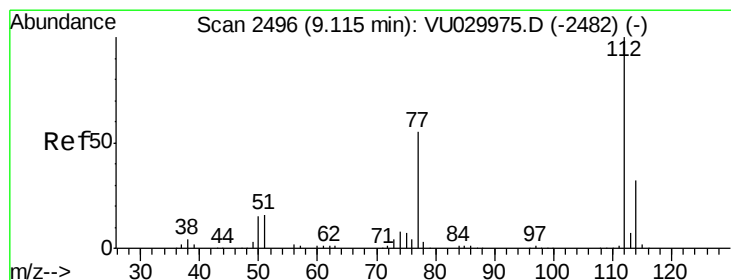
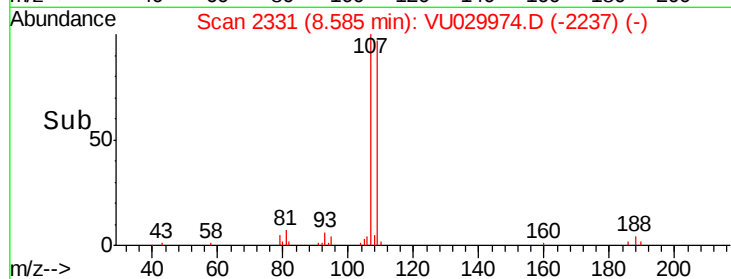
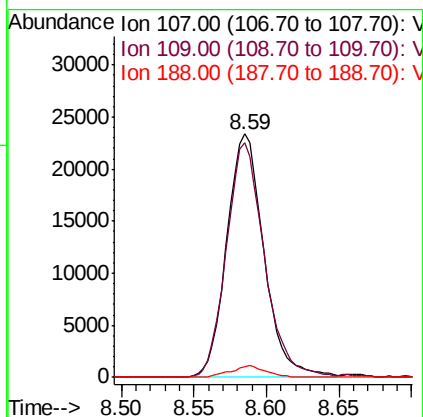
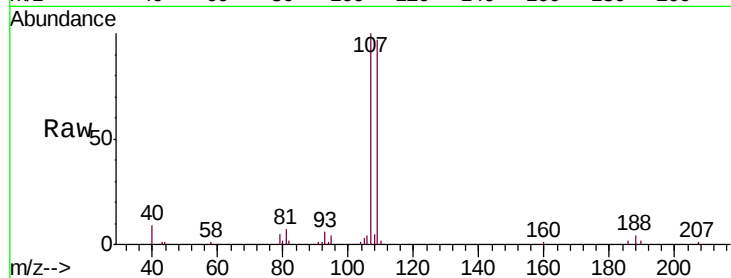




#50
1,2-Dibromoethane
Concen: 10.799 ug/L
RT: 8.59 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

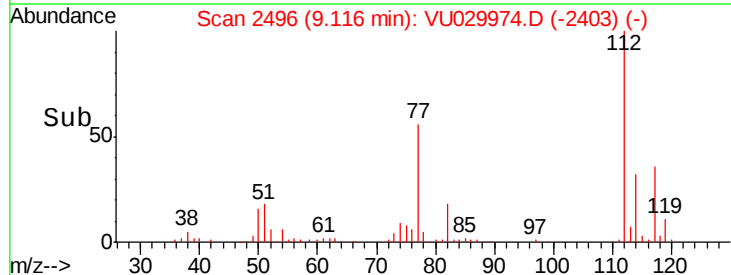
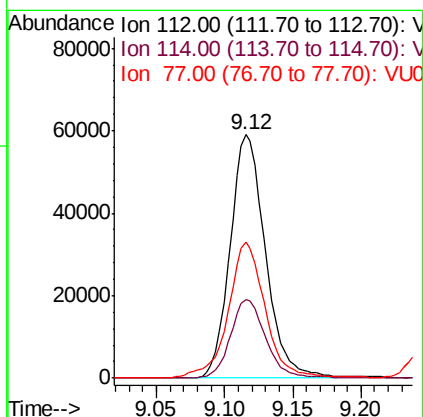
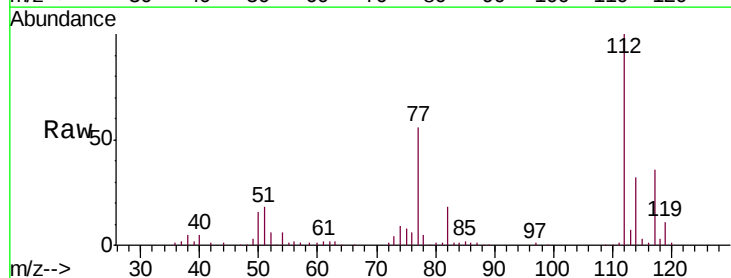
Instrument :
MSVOA_U
ClientSampleId :
VSTD01044

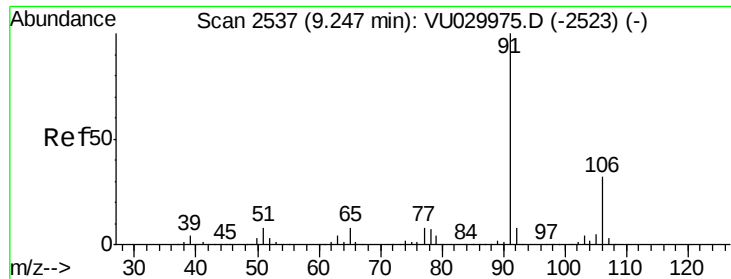
Tgt Ion:107 Resp: 41746
Ion Ratio Lower Upper
107 100
109 96.6 67.8 126.0
188 4.4 3.2 4.8



#51
Chlorobenzene
Concen: 10.637 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029974.D
Acq: 11 Mar 2019 18:23

Tgt Ion:112 Resp: 106124
Ion Ratio Lower Upper
112 100
114 32.2 22.5 41.9
77 55.8 44.6 66.8





#52

Ethylbenzene

Concen: 10.416 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

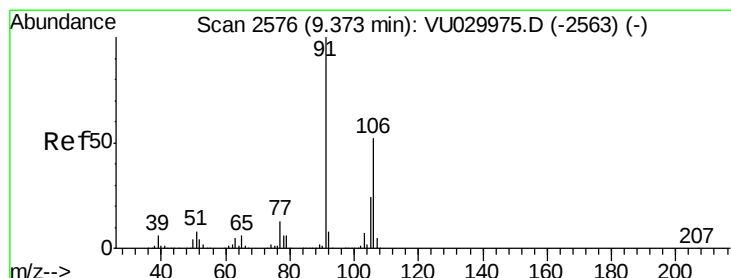
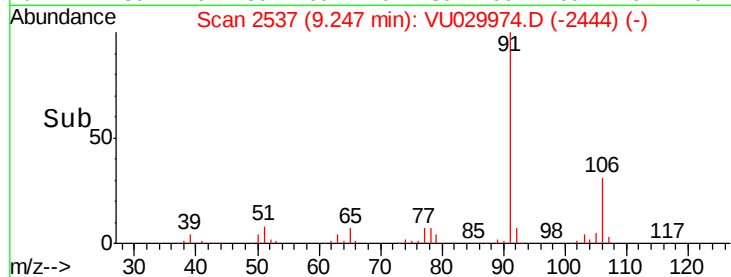
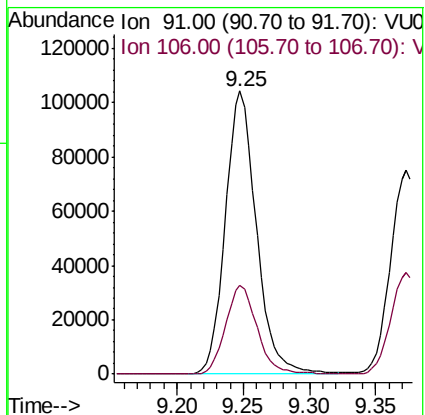
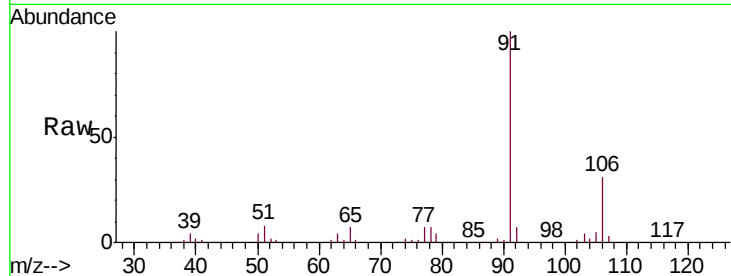
VSTD01044

Tgt Ion: 91 Resp: 170098

Ion Ratio Lower Upper

91 100

106 31.4 22.5 41.9



#53

m,p-Xylene

Concen: 10.103 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029974.D

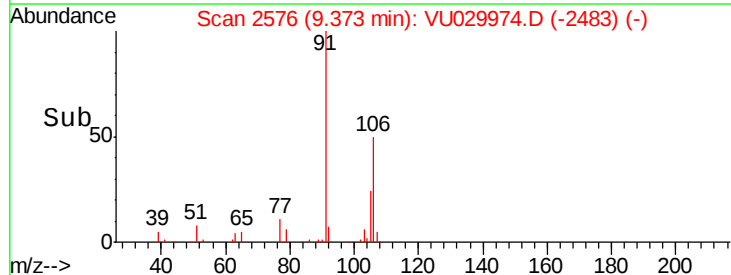
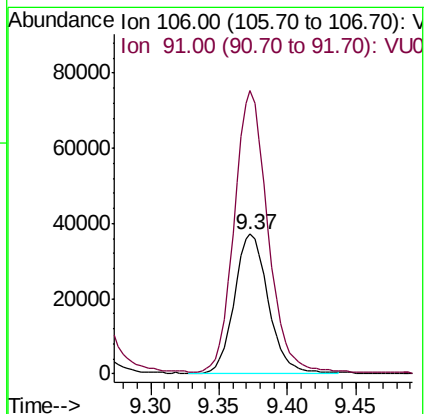
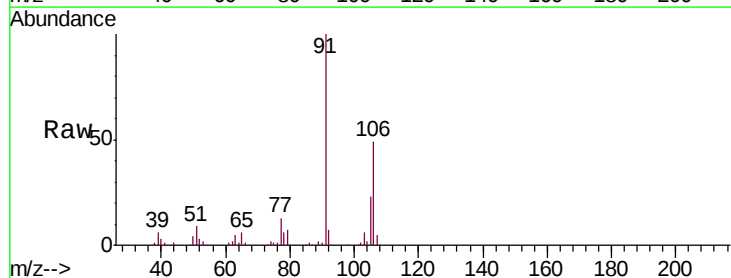
Acq: 11 Mar 2019 18:23

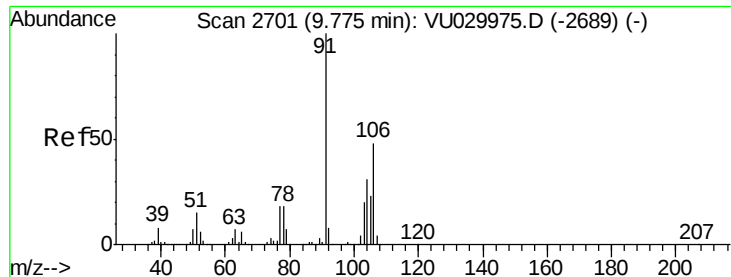
Tgt Ion: 106 Resp: 63558

Ion Ratio Lower Upper

106 100

91 202.3 135.1 250.9





#54

o-xylene

Concen: 10.256 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

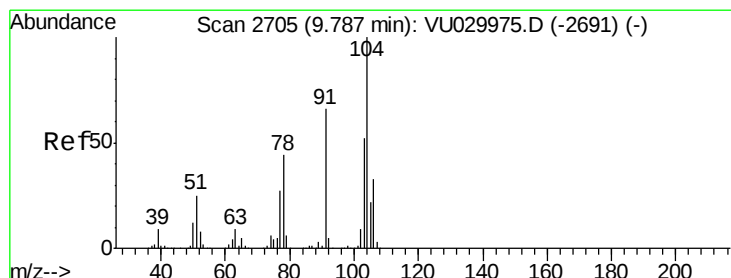
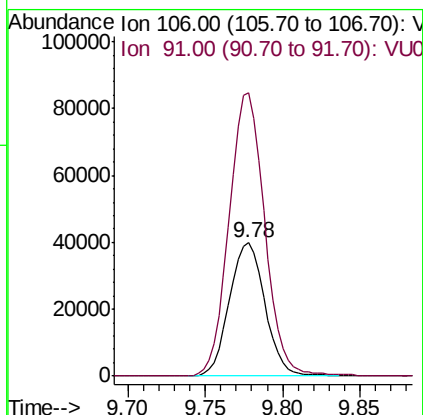
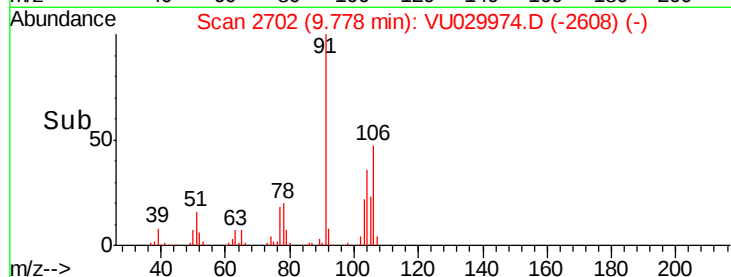
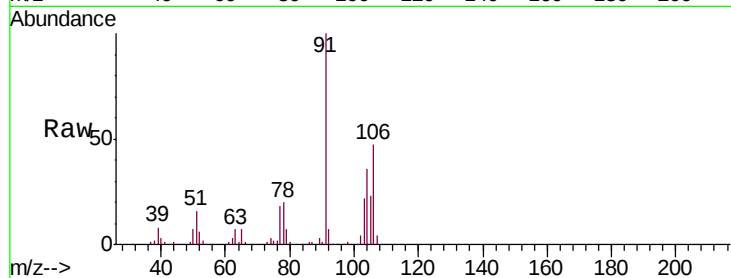
VSTD01044

Tgt Ion:106 Resp: 63840

Ion Ratio Lower Upper

106 100

91 212.6 144.5 268.4



#55

Styrene

Concen: 10.400 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029974.D

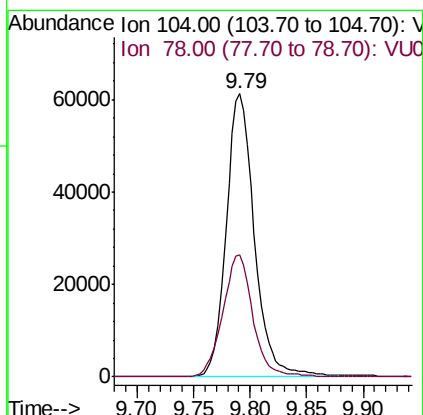
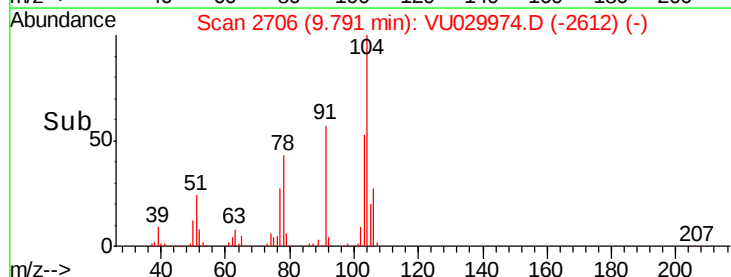
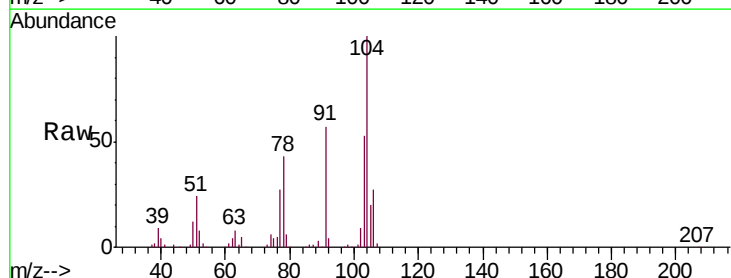
Acq: 11 Mar 2019 18:23

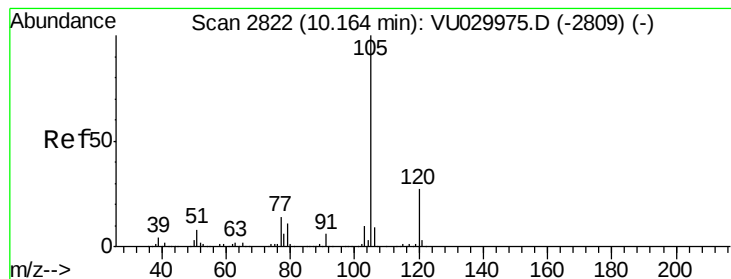
Tgt Ion:104 Resp: 106468

Ion Ratio Lower Upper

104 100

78 43.0 30.6 56.8





#56

Isopropylbenzene

Concen: 10.382 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

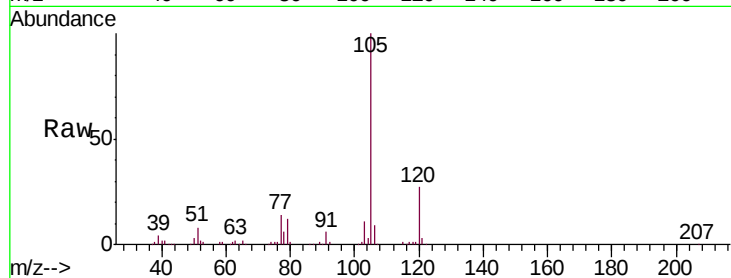
Tgt Ion: 105 Resp: 167542

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

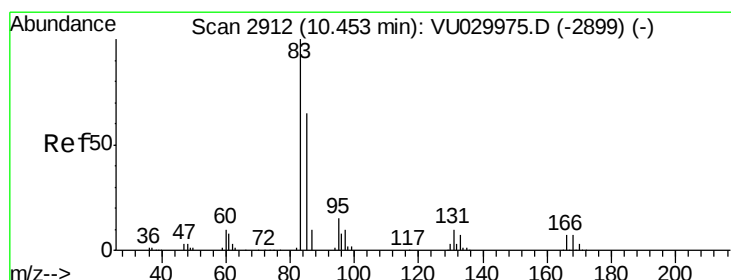
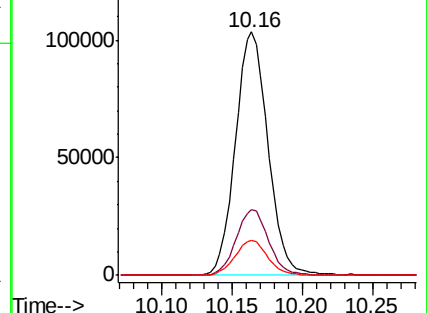
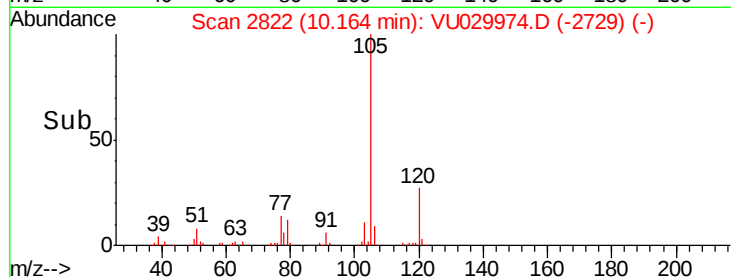
77 14.4 11.1 16.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.294 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

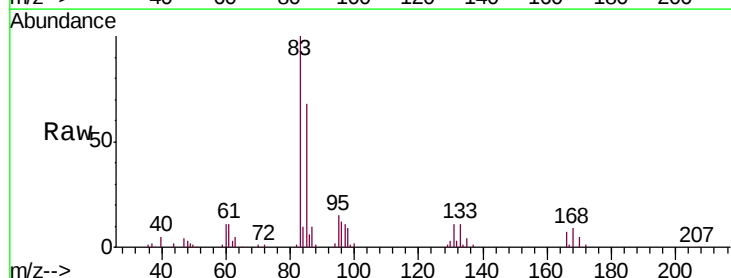
Tgt Ion: 83 Resp: 63740

Ion Ratio Lower Upper

83 100

85 67.7 45.9 85.3

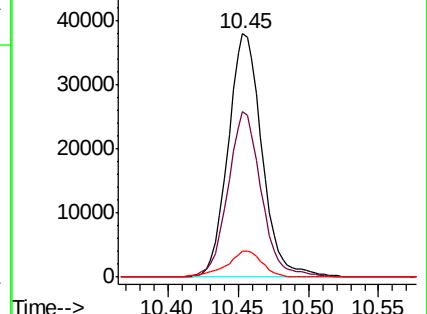
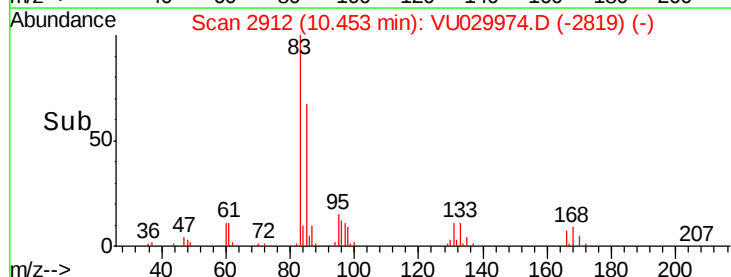
131 10.6 8.5 12.7

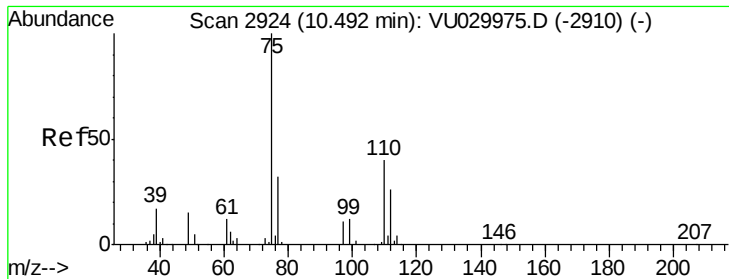


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.667 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

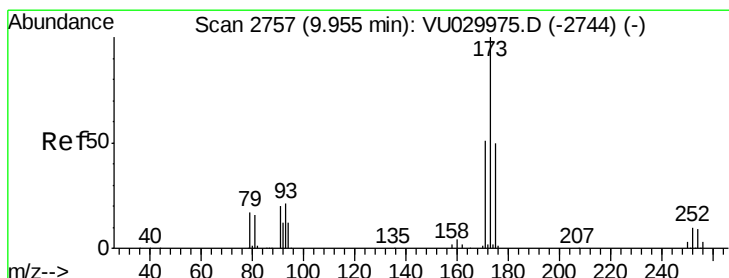
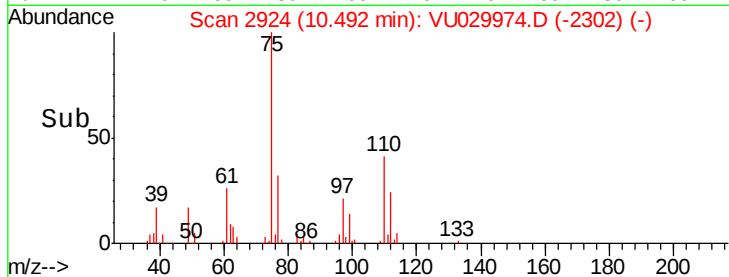
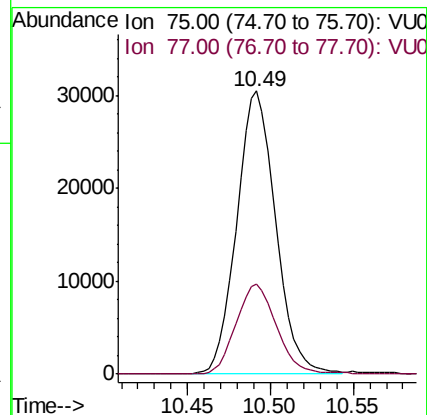
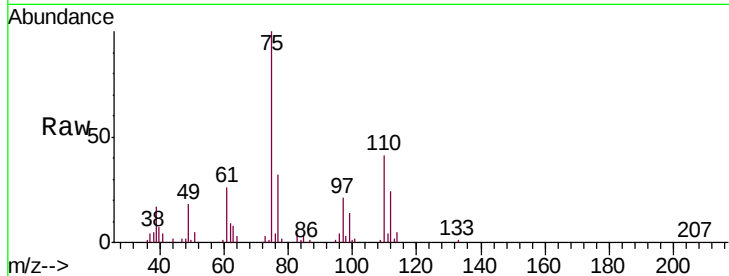
VSTD01044

Tgt Ion: 75 Resp: 49774

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.8



#61

Bromoform

Concen: 10.237 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

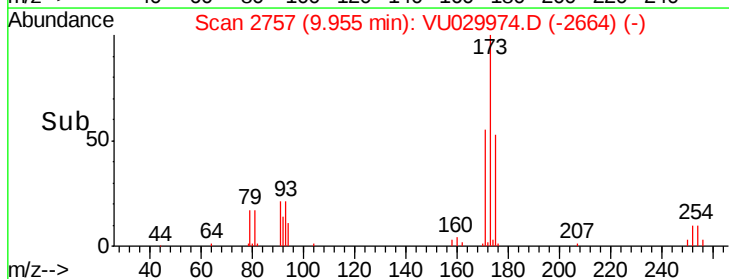
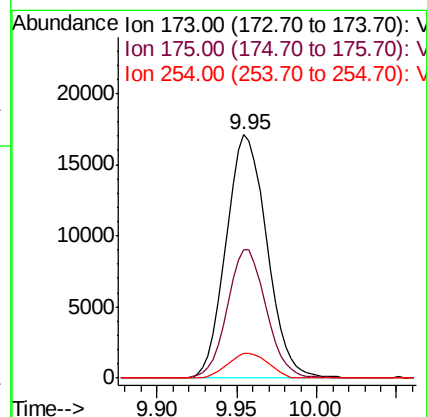
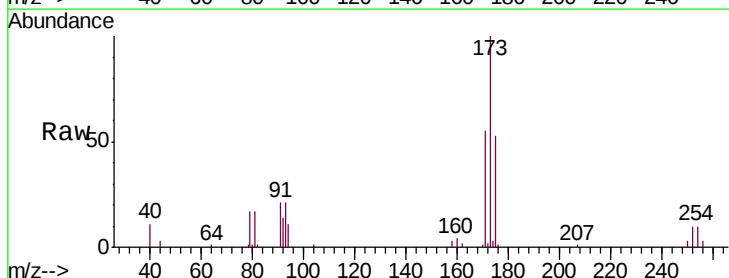
Tgt Ion: 173 Resp: 29869

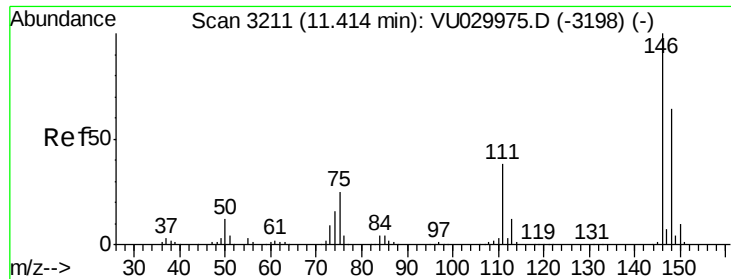
Ion Ratio Lower Upper

173 100

175 50.2 39.0 58.6

254 9.9 7.4 11.0

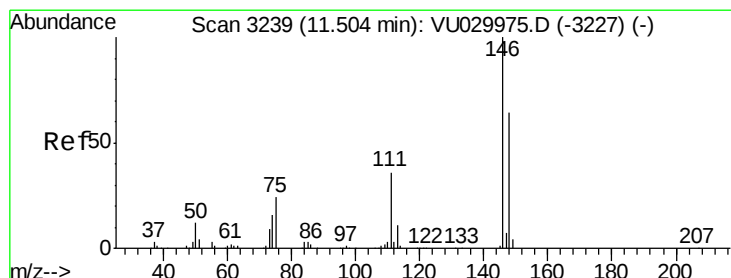
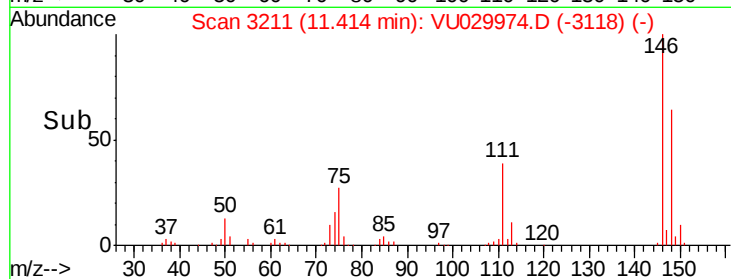
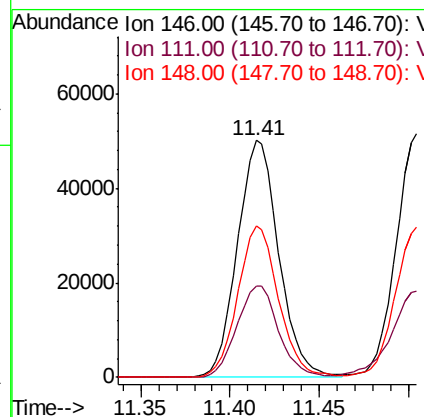
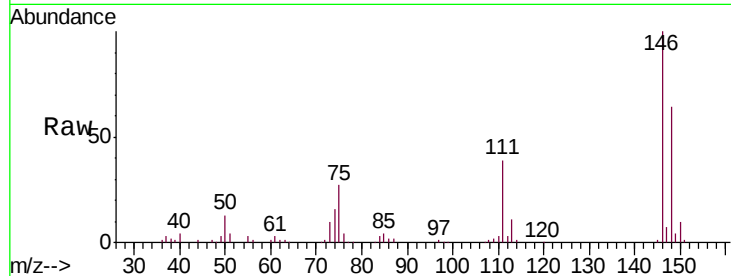




#62
 1,3-Dichlorobenzene
 Concen: 10.661 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

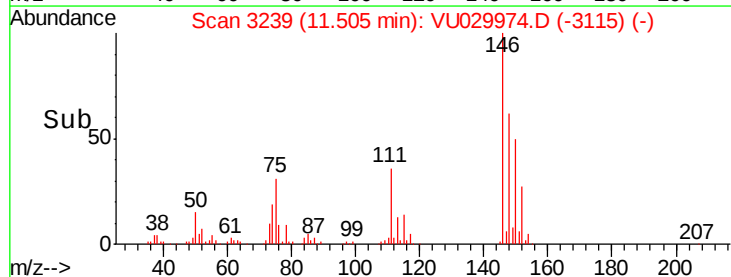
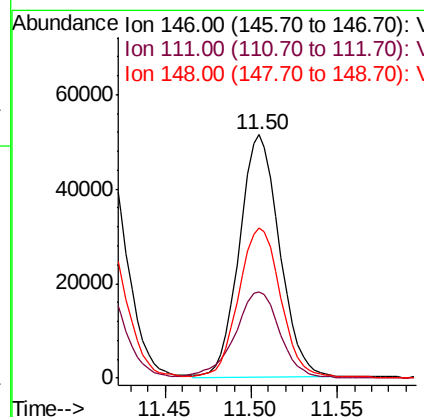
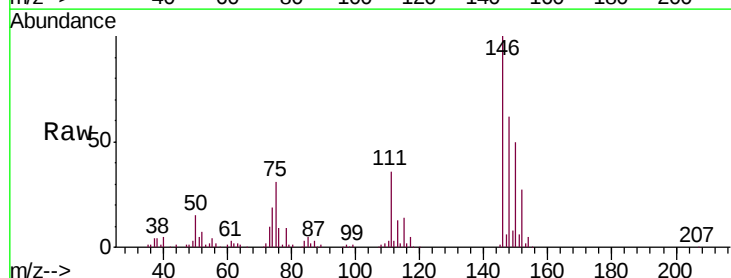
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

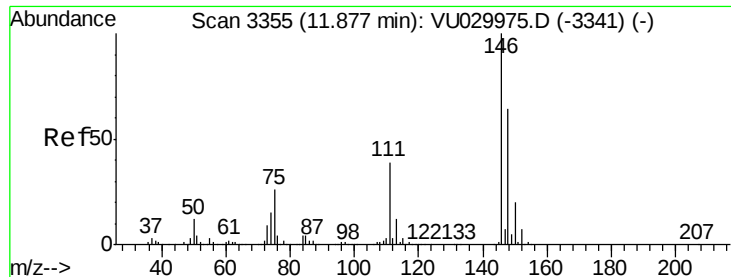
Tgt Ion:146 Resp: 81322
 Ion Ratio Lower Upper
 146 100
 111 38.8 26.7 49.5
 148 63.8 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 10.551 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion:146 Resp: 82414
 Ion Ratio Lower Upper
 146 100
 111 35.6 25.5 47.3
 148 61.7 45.0 83.6

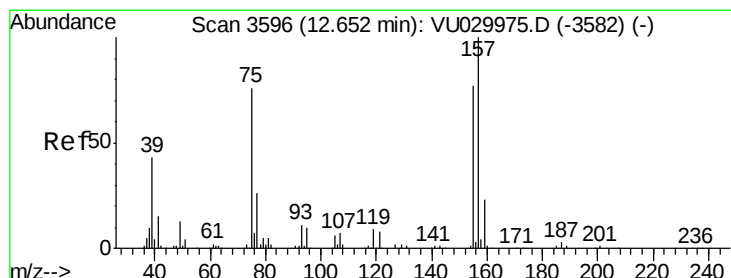
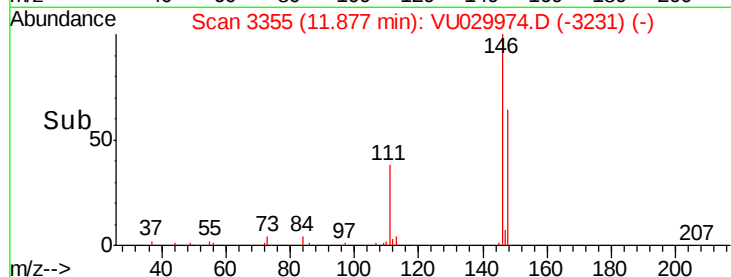
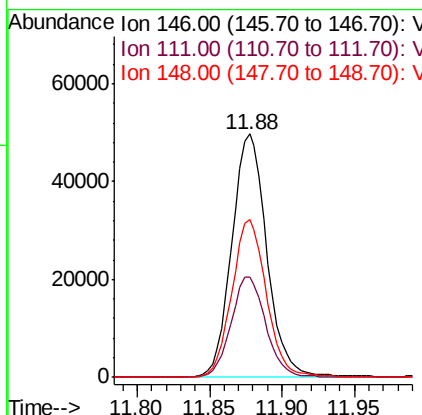
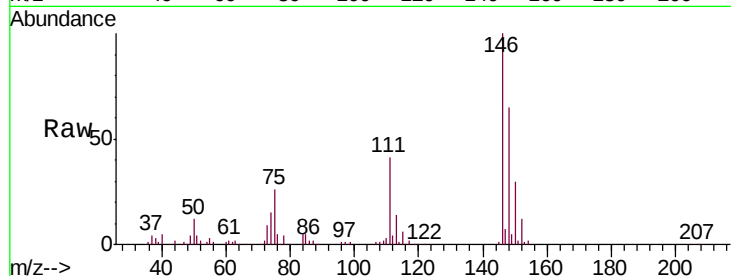




#65
 1,2-Dichlorobenzene
 Concen: 10.721 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

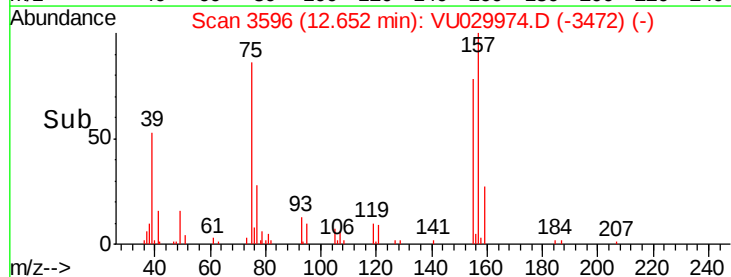
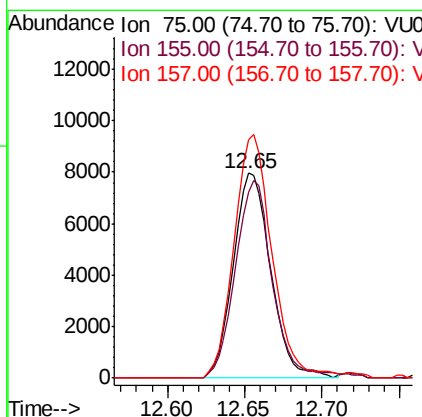
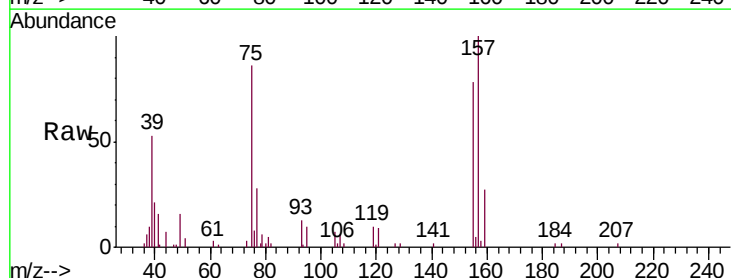
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

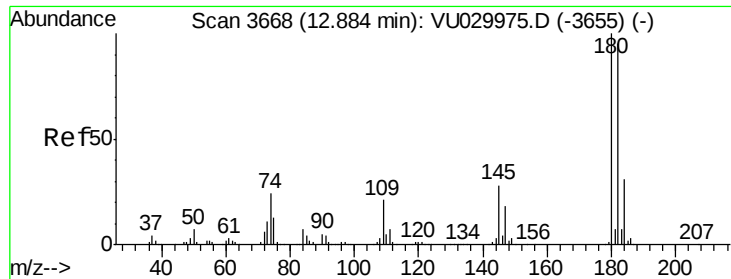
Tgt Ion: 146 Resp: 83417
 Ion Ratio Lower Upper
 146 100
 111 41.2 30.9 46.3
 148 64.6 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 10.802 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion: 75 Resp: 13370
 Ion Ratio Lower Upper
 75 100
 155 90.5 80.9 121.3
 157 116.6 104.6 156.8

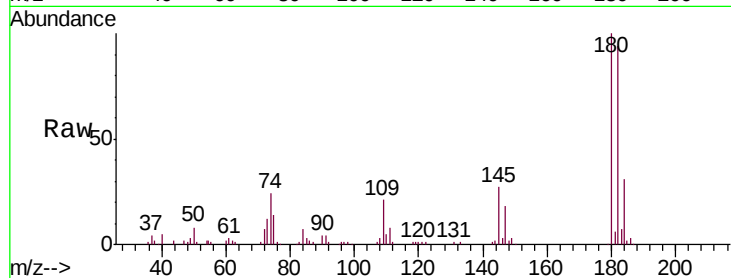




#67
 1,3,5-Trichlorobenzene
 Concen: 10.894 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01044

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.3	114.5
184	30.7	24.7	37.1
145	26.8	22.3	33.5



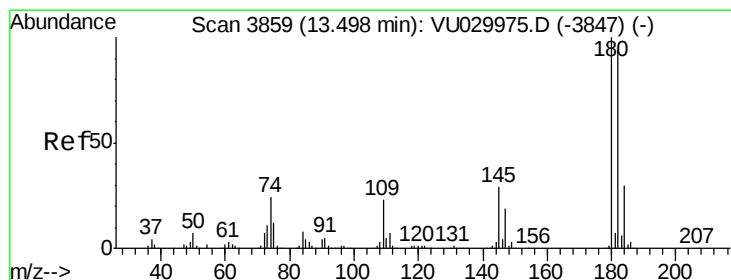
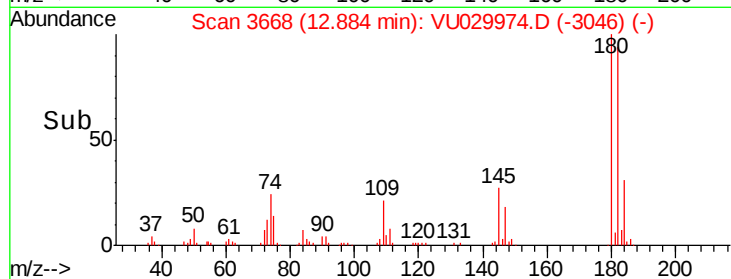
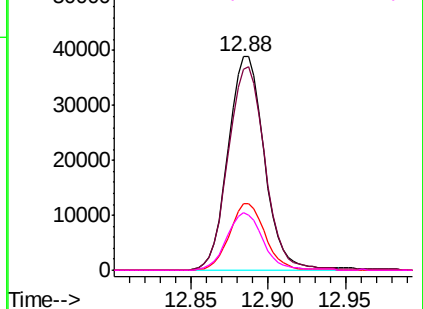
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

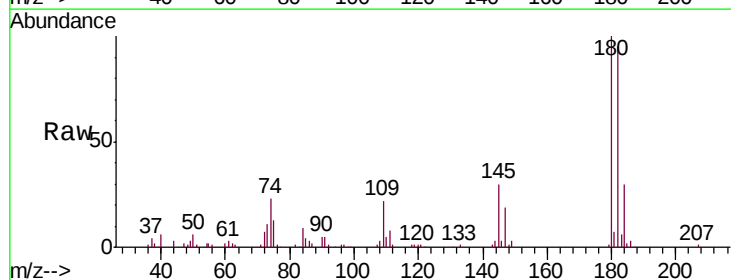
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 10.724 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029974.D
 Acq: 11 Mar 2019 18:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.1	114.1
145	29.0	23.0	34.4

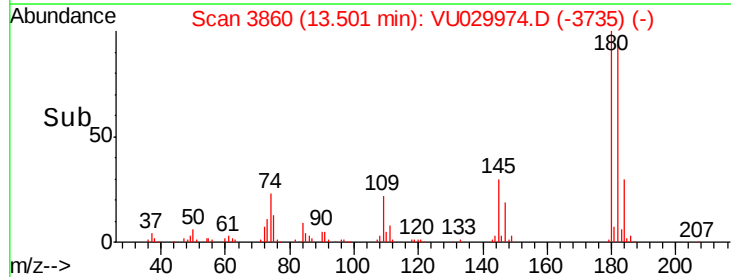
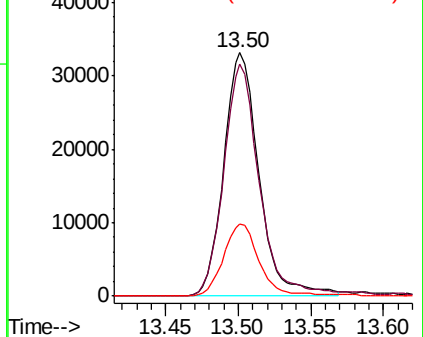


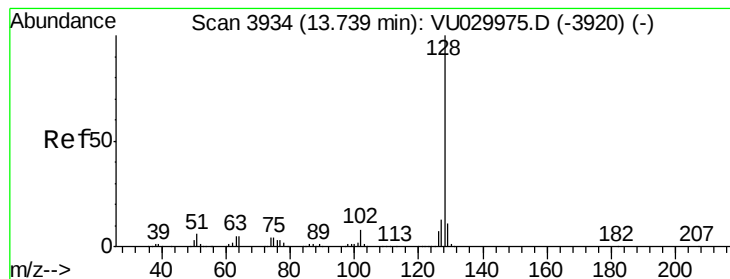
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 11.019 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01044

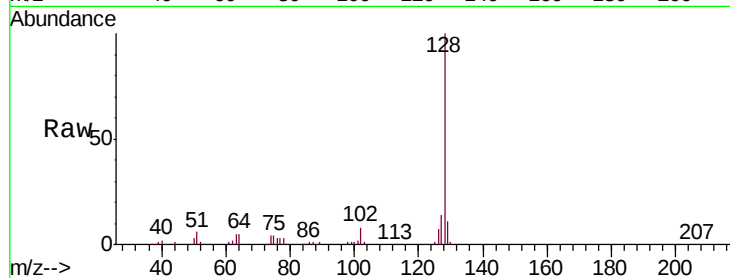
Tgt Ion:128 Resp: 181054

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

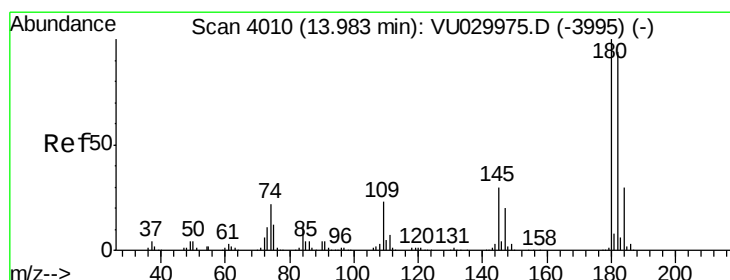
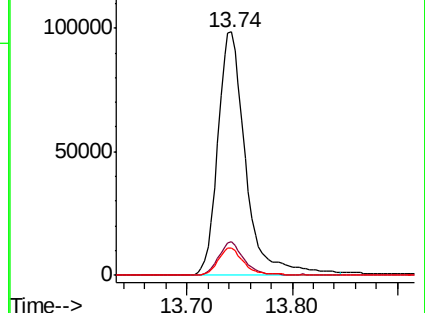
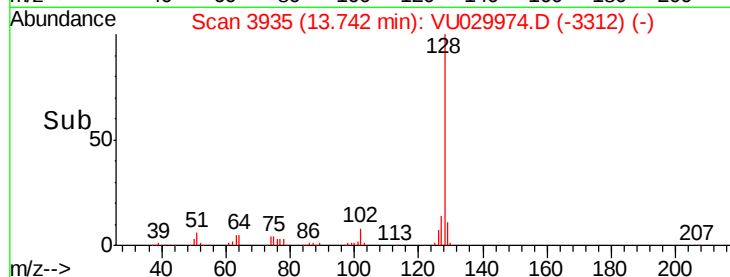
129 10.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 10.853 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029974.D

Acq: 11 Mar 2019 18:23

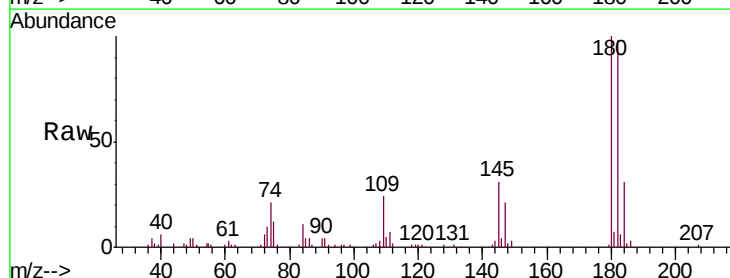
Tgt Ion:180 Resp: 59664

Ion Ratio Lower Upper

180 100

182 99.3 75.9 113.9

145 30.4 24.0 36.0



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

