

Data File : VU030131.D
Acq On : 15 Mar 2019 23:29
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Quant Time: Mar 16 00:58:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Mar 16 00:52:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	528160	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	516638	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	268259	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	156122	44.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.38%
7) Chloroethane-d5	1.68	69	131272	46.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.10%
11) 1,1-Dichloroethene-d2	2.27	63	288276	45.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.44%
21) 2-Butanone-d5	4.18	46	276811	105.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.76%
24) Chloroform-d	4.65	84	310091	49.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.96%
26) 1,2-Dichloroethane-d4	5.31	65	177085	48.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.82%
32) Benzene-d6	5.34	84	636730	47.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.76%
36) 1,2-Dichloropropane-d6	6.33	67	199132	48.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.84%
41) Toluene-d8	7.56	98	588390	47.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.50%
43) trans-1,3-Dichloropropene-	7.85	79	92779	47.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.12%
47) 2-Hexanone-d5	8.31	63	235834	103.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.55%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	316418	50.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.18%
64) 1,2-Dichlorobenzene-d4	11.86	152	249174	47.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	142242	42.623	ug/L	100
3) Chloromethane	1.33	50	154846	42.057	ug/L	100
5) Vinyl chloride	1.40	62	181069	44.864	ug/L	100
6) Bromomethane	1.62	94	58540	23.414	ug/L	98
8) Chloroethane	1.69	64	115554	43.683	ug/L	98
9) Trichlorofluoromethane	1.88	101	249085	46.019	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	154589	44.552	ug/L	99
12) 1,1-Dichloroethene	2.28	96	150352	45.418	ug/L	91
13) Acetone	2.32	43	172280	56.294	ug/L	99
14) Carbon disulfide	2.48	76	428909	41.803	ug/L	99
15) Methyl Acetate	2.61	43	200891	50.808	ug/L	98
16) Methylene chloride	2.70	84	182806	46.766	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	161273	44.735	ug/L	94
18) Methyl tert-butyl Ether	3.00	73	511067	47.799	ug/L	99
19) 1,1-Dichloroethane	3.44	63	302783	48.917	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	193105	47.052	ug/L	96
22) 2-Butanone	4.26	43	283810	81.459	ug/L	99

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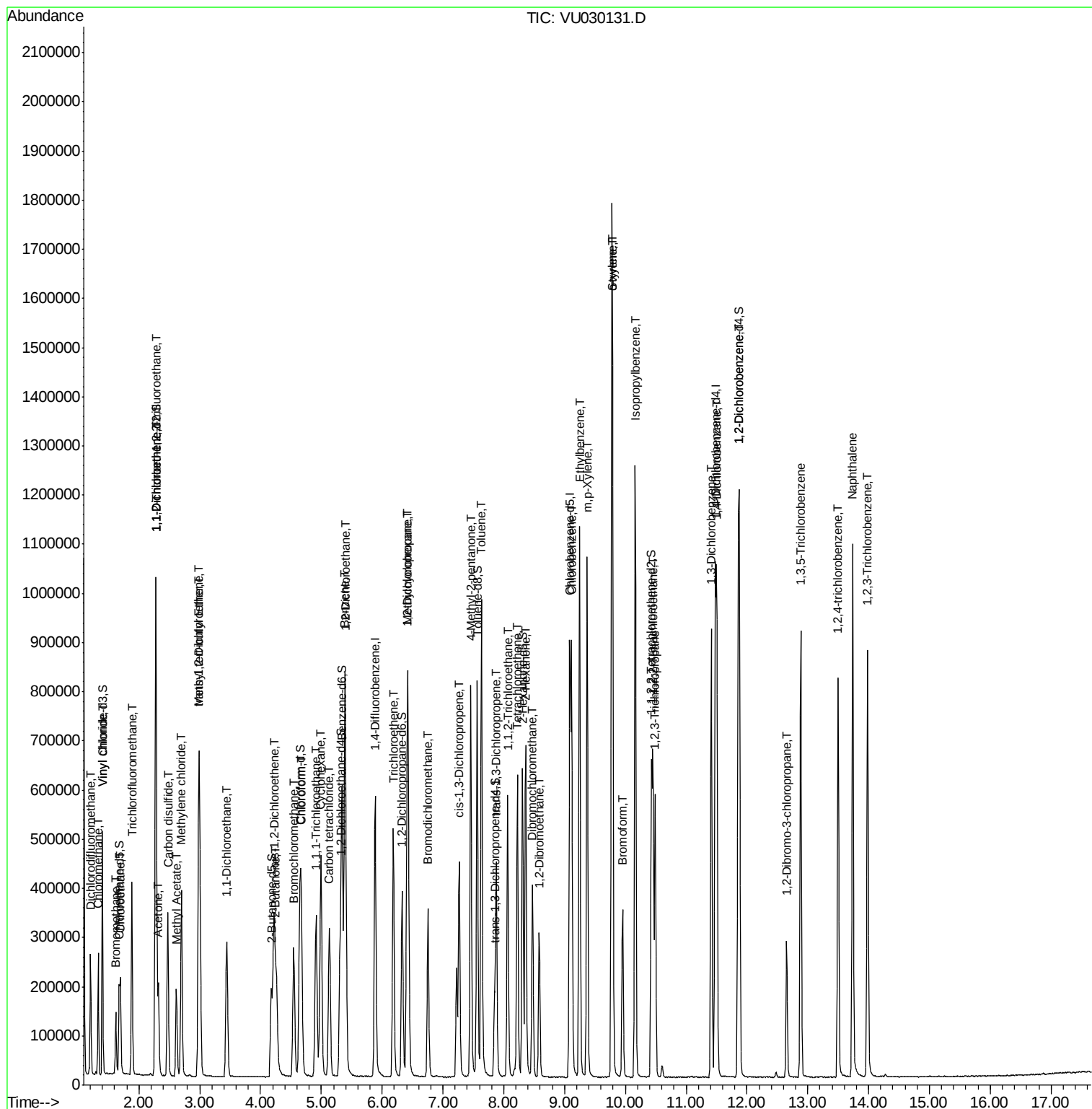
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	98634	46.395	ug/L	98
25) Chloroform	4.67	83	314648	48.434	ug/L	97
27) 1,2-Dichloroethane	5.40	62	228940	49.017	ug/L	99
29) Cyclohexane	4.99	56	248603	43.628	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	265871	47.139	ug/L	99
31) Carbon tetrachloride	5.13	117	229058	45.992	ug/L	100
33) Benzene	5.39	78	703812	47.607	ug/L	100
34) Trichloroethene	6.18	95	179083	46.219	ug/L	100
35) Methylcyclohexane	6.41	83	270819	43.103	ug/L	99
37) 1,2-Dichloropropane	6.43	63	190939	49.101	ug/L	100
38) Bromodichloromethane	6.76	83	236441	48.895	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	279563	46.197	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	510439	97.214	ug/L	100
42) Toluene	7.63	91	764348	47.553	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	256516	46.425	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	190503	48.985	ug/L	99
46) Tetrachloroethene	8.22	164	151449	44.664	ug/L	99
48) 2-Hexanone	8.36	43	405495	90.524	ug/L	99
49) Dibromochloromethane	8.47	129	209797	48.284	ug/L	97
50) 1,2-Dibromoethane	8.58	107	206669	48.212	ug/L	97
51) Chlorobenzene	9.12	112	505635	46.660	ug/L	99
52) Ethylbenzene	9.25	91	822760	46.497	ug/L	100
53) m,p-Xylene	9.37	106	324424	47.388	ug/L	99
54) o-xylene	9.78	106	321030	47.741	ug/L	99
55) Styrene	9.79	104	554986	48.471	ug/L	100
56) Isopropylbenzene	10.16	105	833212	47.330	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	325257	48.729	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	247776	48.925	ug/L	99
61) Bromoform	9.95	173	167365	50.122	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	402517	46.462	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	411893	46.758	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	418356	47.975	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	70878	50.017	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	308389	45.862	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	277780	45.162	ug/L	99
69) Naphthalene	13.74	128	909682	45.520	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	293585	45.946	ug/L	98

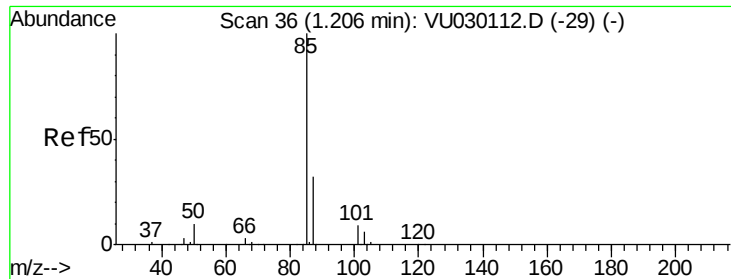
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 42.623 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

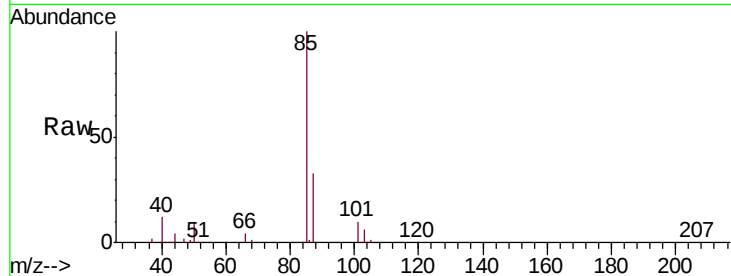
VSTD05040

Tgt Ion: 85 Resp: 142242

Ion Ratio Lower Upper

85 100

87 32.9 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030131.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030131.D (-1) (-)

1.21

150000

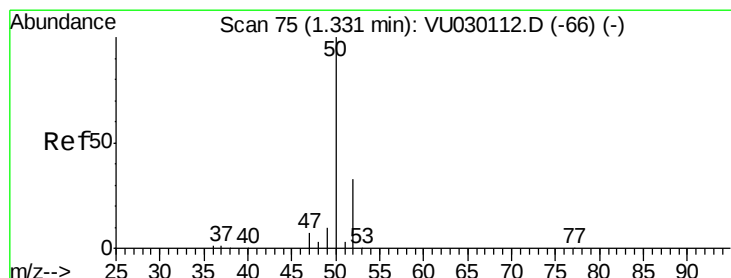
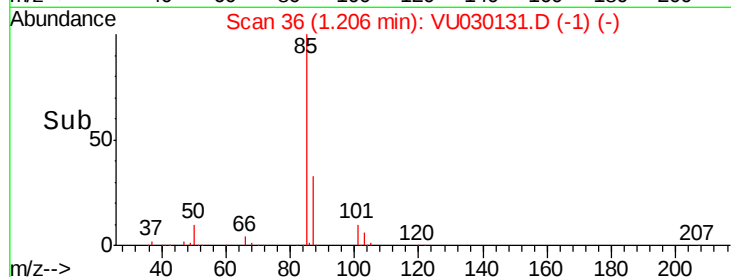
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 42.057 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030131.D

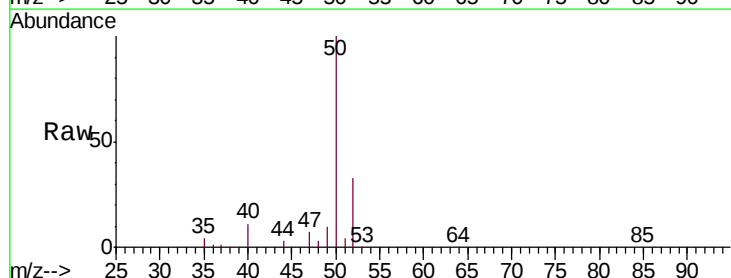
Acq: 15 Mar 2019 23:29

Tgt Ion: 50 Resp: 154846

Ion Ratio Lower Upper

50 100

52 33.4 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030131.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU030131.D (-1) (-)

1.33

150000

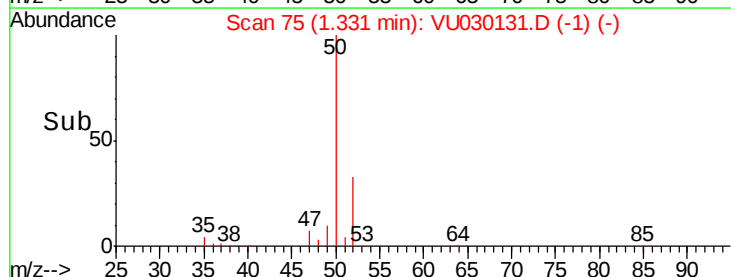
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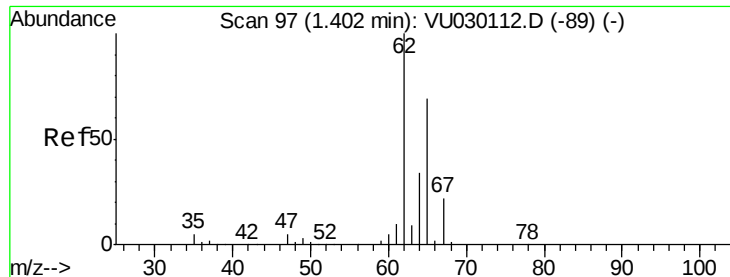
50000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 44.864 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

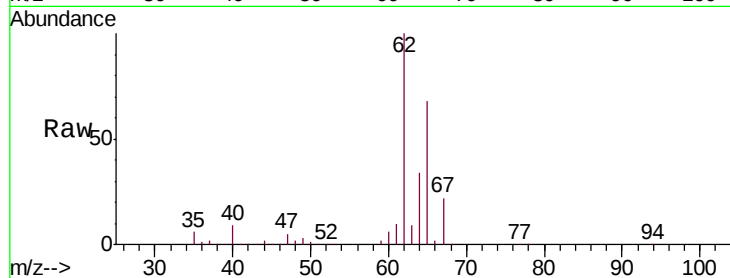
VSTD05040

Tgt Ion: 62 Resp: 181069

Ion Ratio Lower Upper

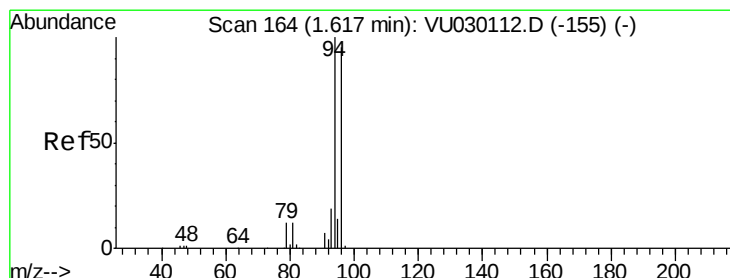
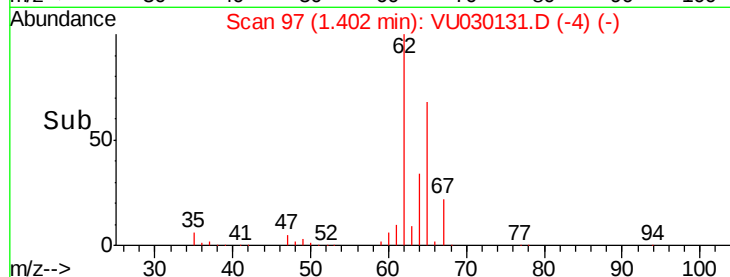
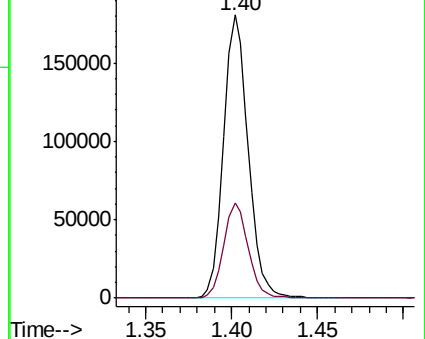
62 100

64 33.6 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU030131.D (-4) (-)

Ion 64.00 (63.70 to 64.70): VU030131.D (-4) (-)



#6

Bromomethane

Concen: 23.414 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU030131.D

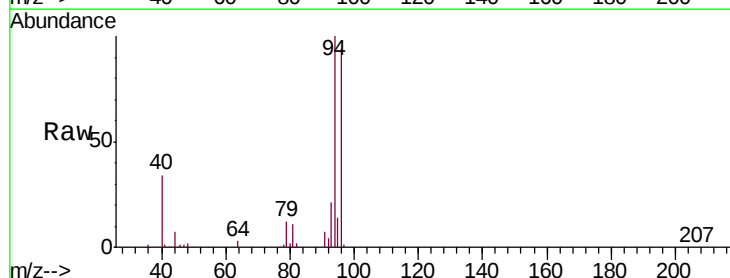
Acq: 15 Mar 2019 23:29

Tgt Ion: 94 Resp: 58540

Ion Ratio Lower Upper

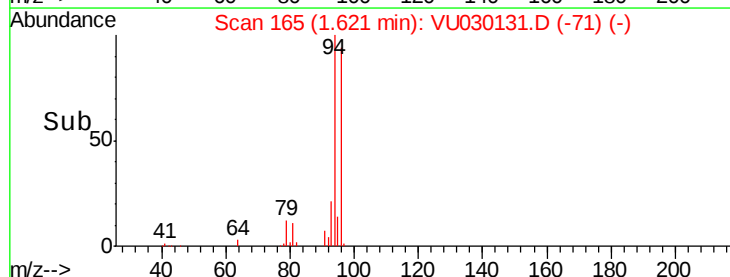
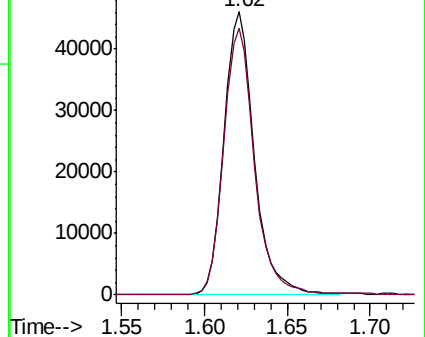
94 100

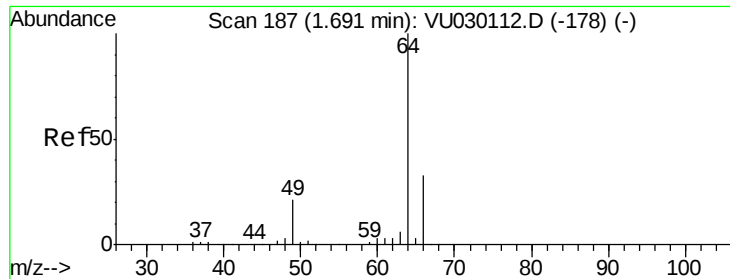
96 94.4 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU030131.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU030131.D (-71) (-)

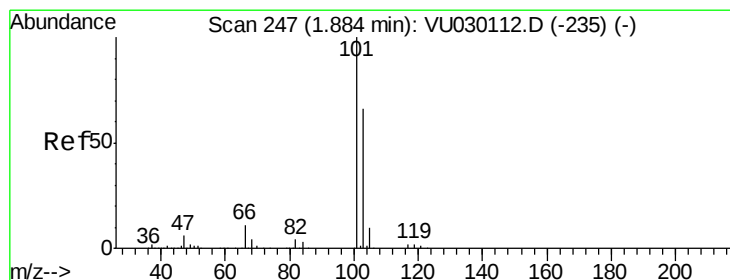
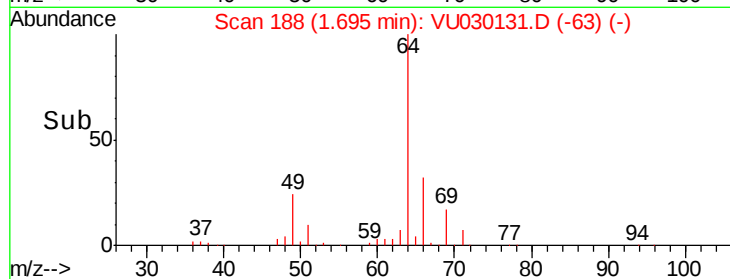
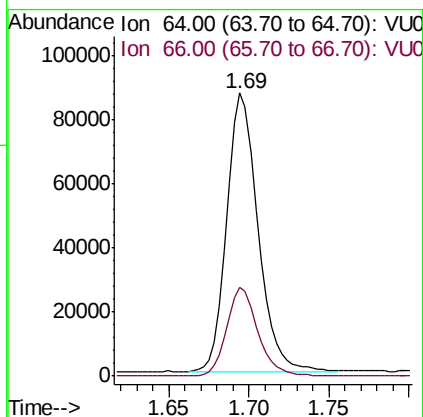
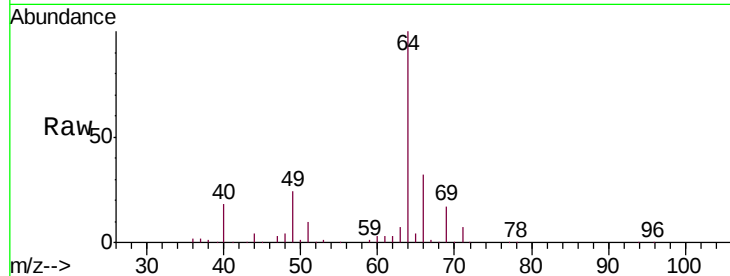




#8
Chloroethane
Concen: 43.683 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

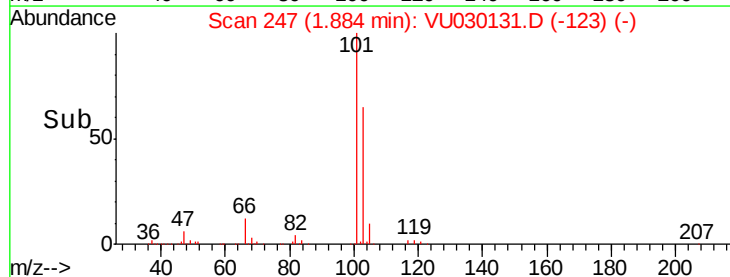
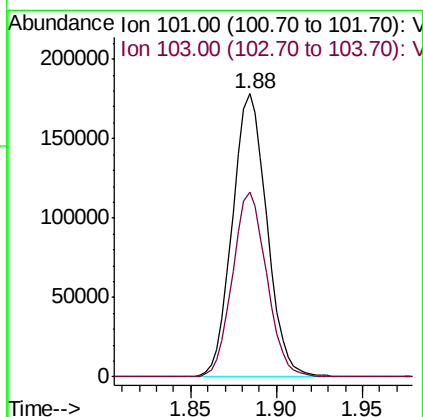
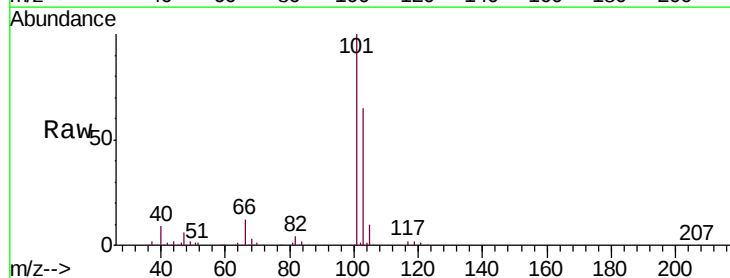
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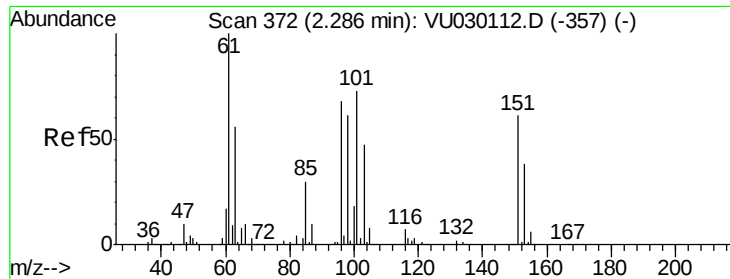
Tgt Ion: 64 Resp: 11554
Ion Ratio Lower Upper
64 100
66 31.5 21.3 39.6



#9
Trichlorofluoromethane
Concen: 46.019 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion: 101 Resp: 249085
Ion Ratio Lower Upper
101 100
103 64.8 52.5 78.7





#10

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

Concen: 44.552 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

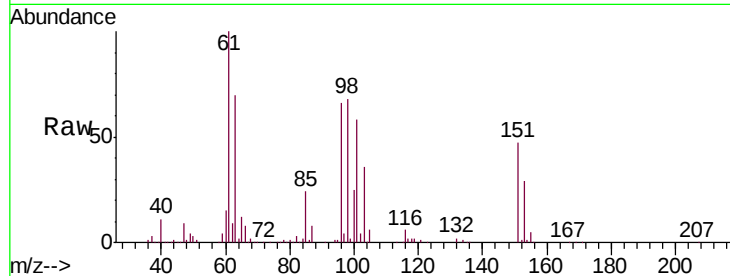
Tgt Ion:101 Resp: 154589

Ion Ratio Lower Upper

101 100

85 41.6 33.0 49.4

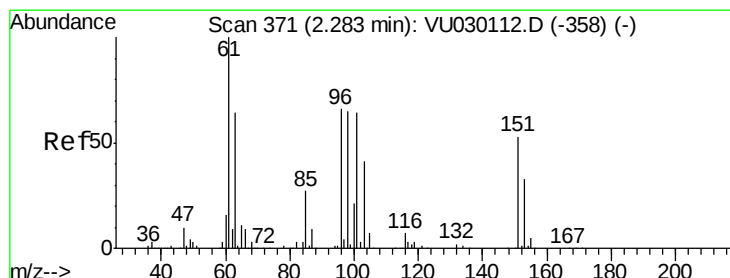
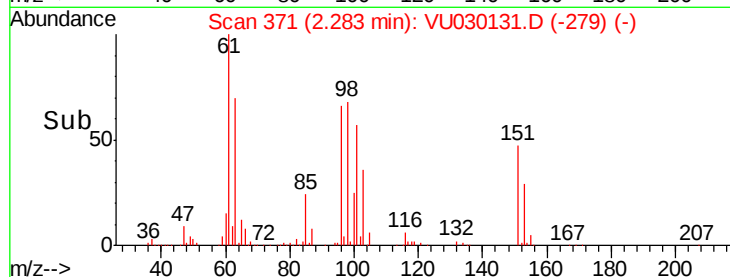
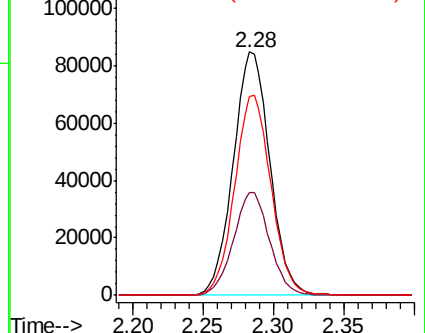
151 81.5 66.1 99.1



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: 45.418 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

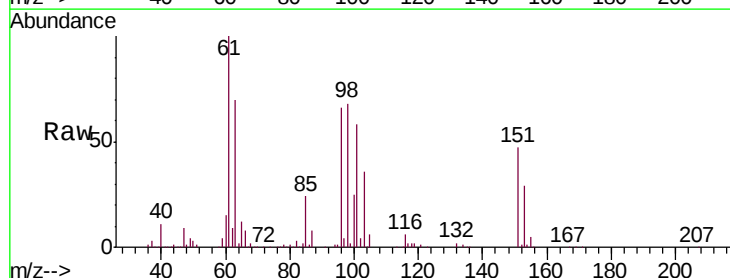
Tgt Ion: 96 Resp: 150352

Ion Ratio Lower Upper

96 100

61 152.4 110.4 205.0

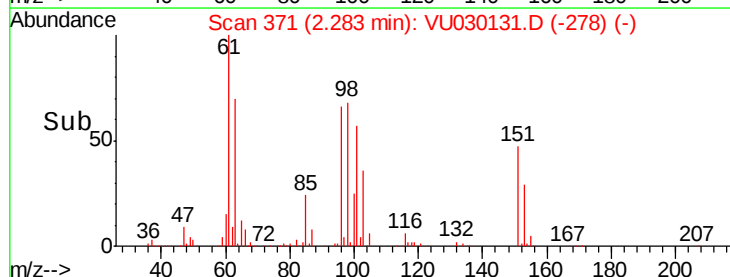
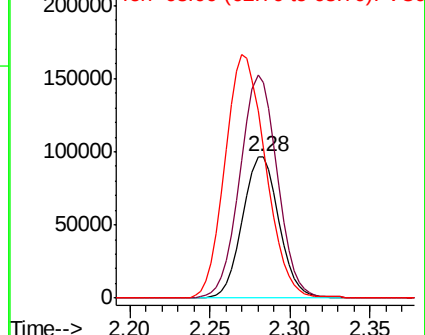
63 106.0 86.5 160.7

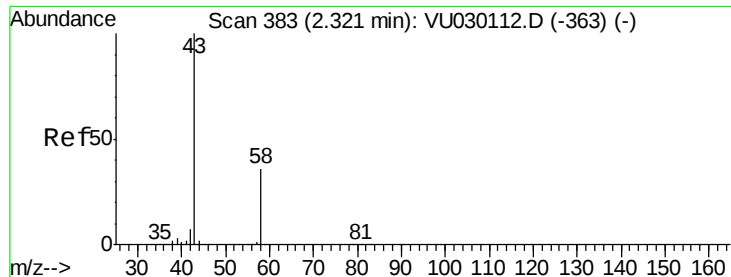


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 56.294 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

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ClientSampleId :

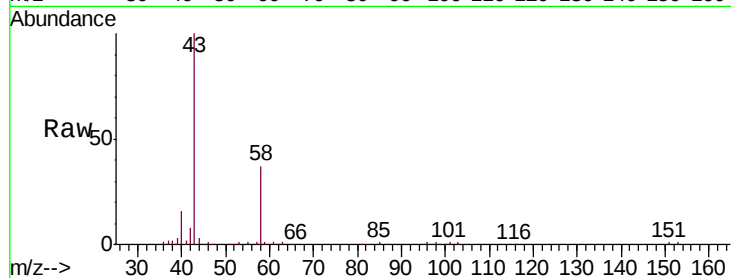
VSTD05040

Tgt Ion: 43 Resp: 172280

Ion Ratio Lower Upper

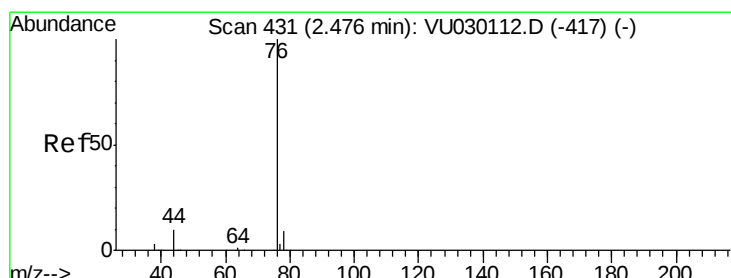
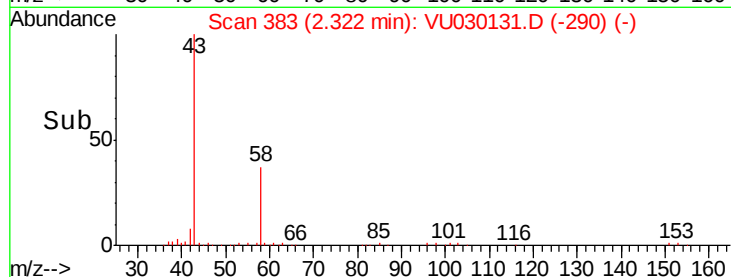
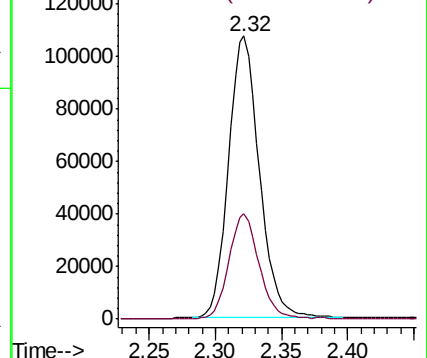
43 100

58 36.9 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 41.803 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030131.D

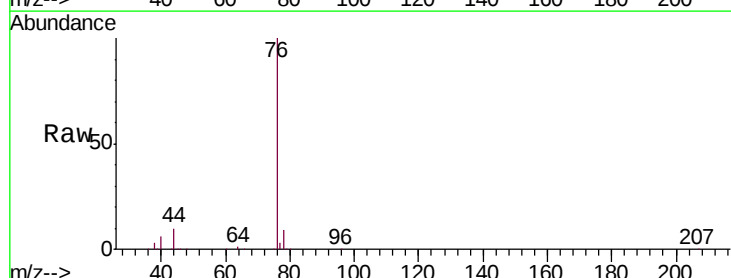
Acq: 15 Mar 2019 23:29

Tgt Ion: 76 Resp: 428909

Ion Ratio Lower Upper

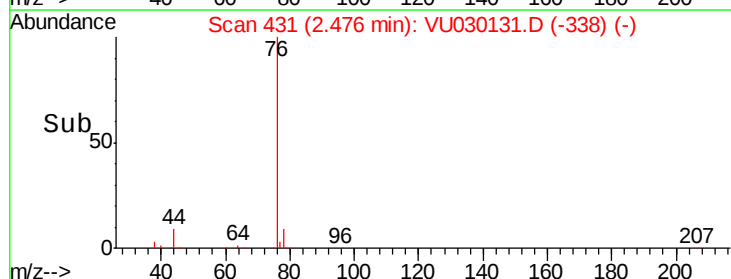
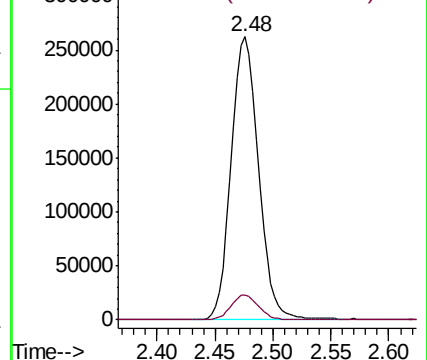
76 100

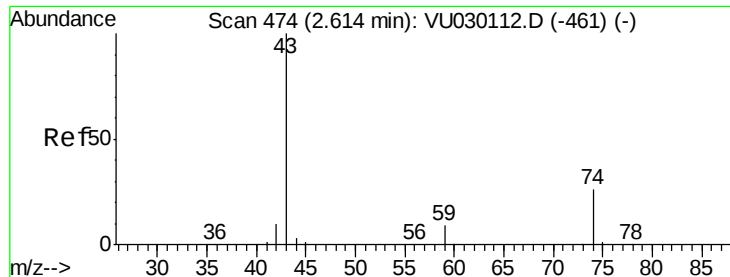
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

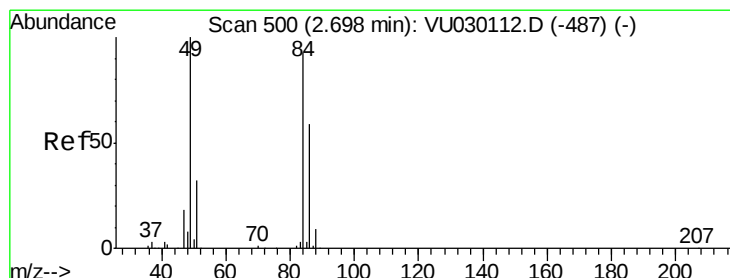
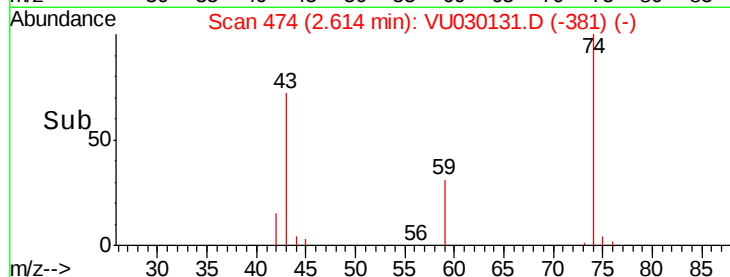
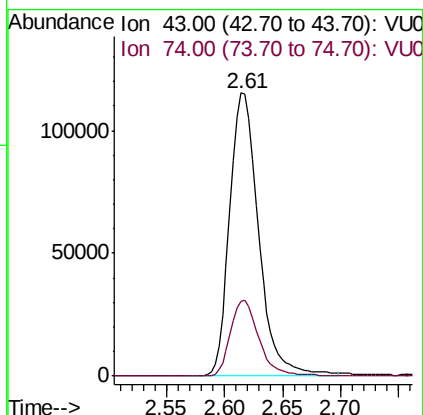
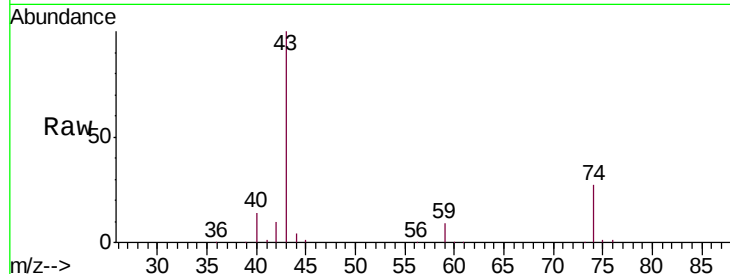




#15
Methyl Acetate
Concen: 50.808 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

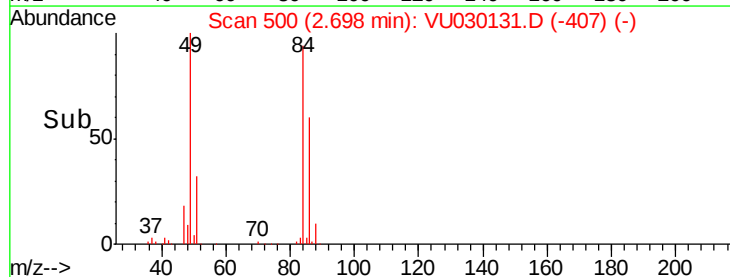
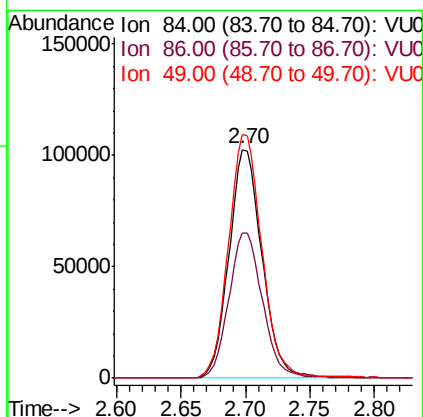
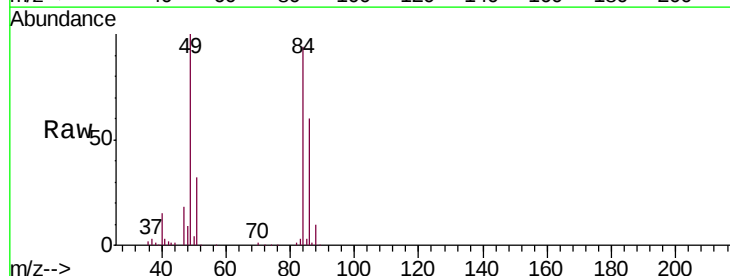
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

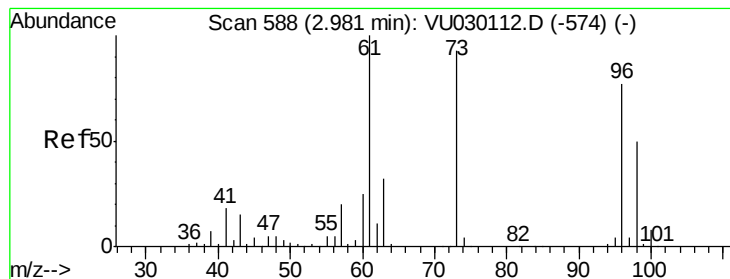
Tgt Ion: 43 Resp: 200891
Ion Ratio Lower Upper
43 100
74 26.2 21.9 32.9



#16
Methylene chloride
Concen: 46.766 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion: 84 Resp: 182806
Ion Ratio Lower Upper
84 100
86 63.5 45.2 84.0
49 106.5 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 44.735 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

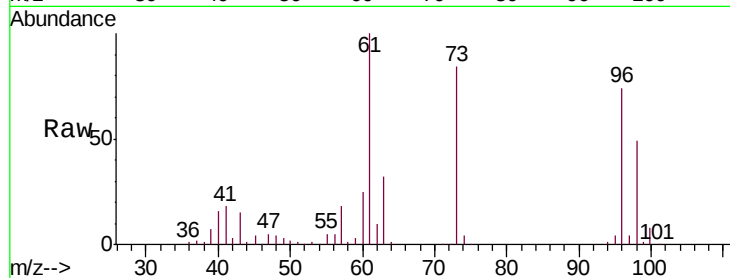
Tgt Ion: 96 Resp: 161273

Ion Ratio Lower Upper

96 100

61 134.7 89.4 166.0

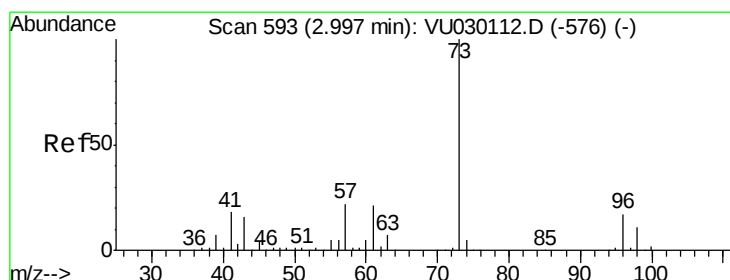
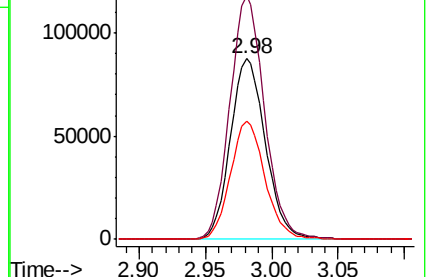
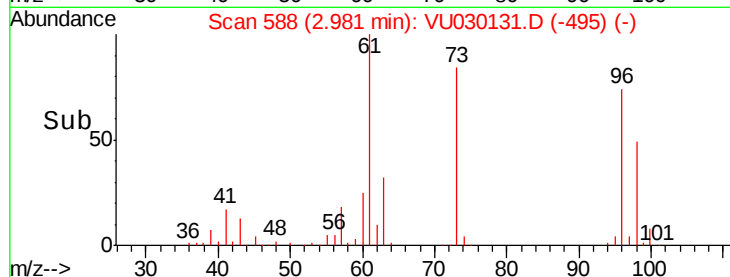
98 65.3 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU030131.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU030131.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU030131.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 47.799 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

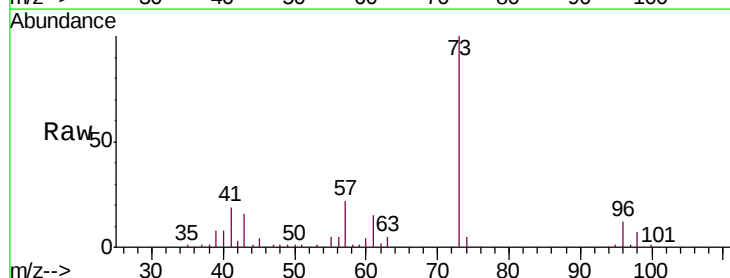
Tgt Ion: 73 Resp: 511067

Ion Ratio Lower Upper

73 100

43 16.4 13.1 19.7

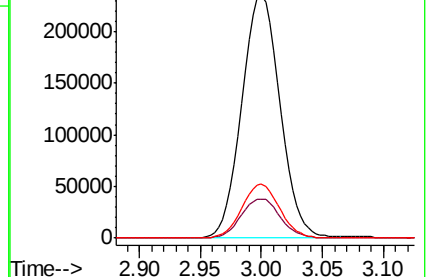
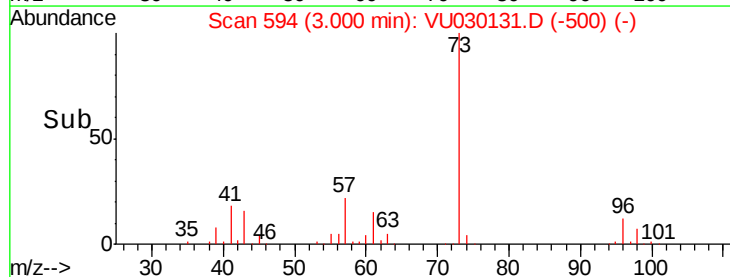
57 21.9 17.1 25.7

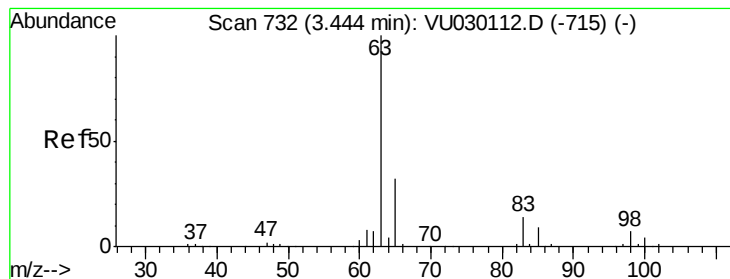


Abundance Ion 73.00 (72.70 to 73.70): VU030131.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU030131.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU030131.D (-500) (-)





#19

1,1-Dichloroethane

Concen: 48.917 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

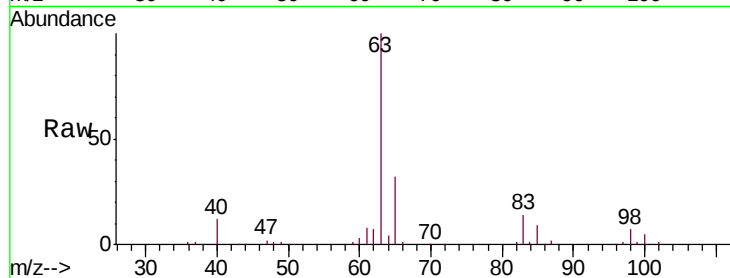
Tgt Ion: 63 Resp: 302783

Ion Ratio Lower Upper

63 100

65 31.6 22.0 41.0

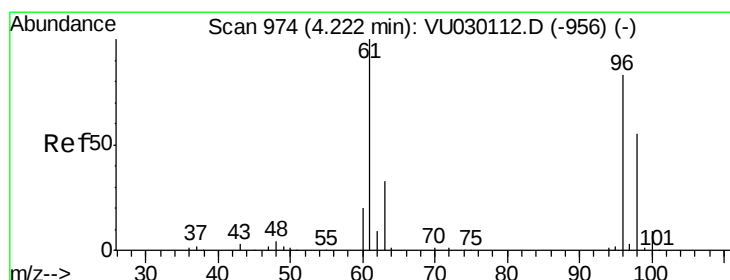
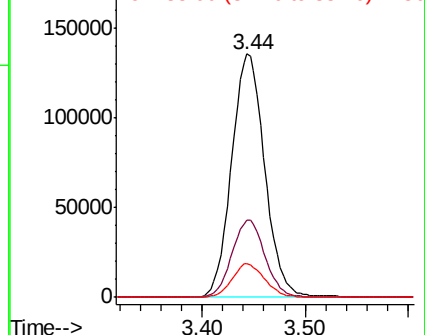
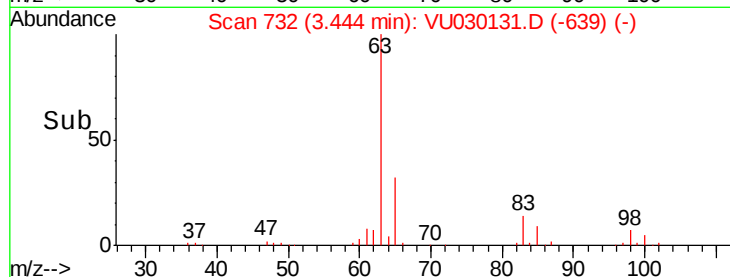
83 14.0 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU030131.D (-639) (-)

Ion 65.00 (64.70 to 65.70): VU030131.D (-639) (-)

Ion 83.00 (82.70 to 83.70): VU030131.D (-639) (-)



#20

cis-1,2-Dichloroethene

Concen: 47.052 ug/L

RT: 4.22 min Scan# 975

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

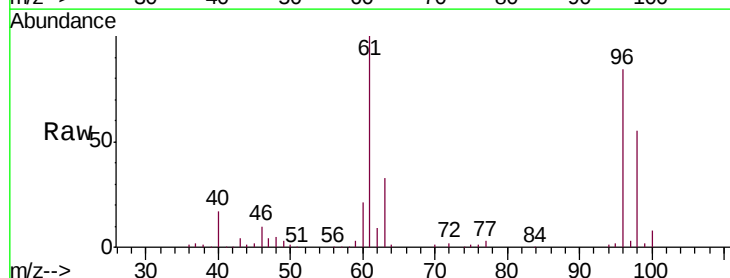
Tgt Ion: 96 Resp: 193105

Ion Ratio Lower Upper

96 100

61 119.7 80.8 150.2

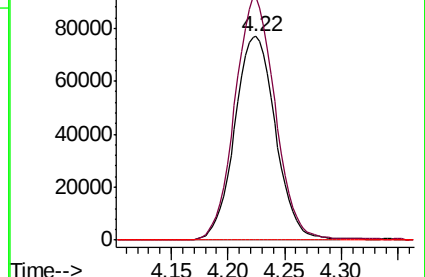
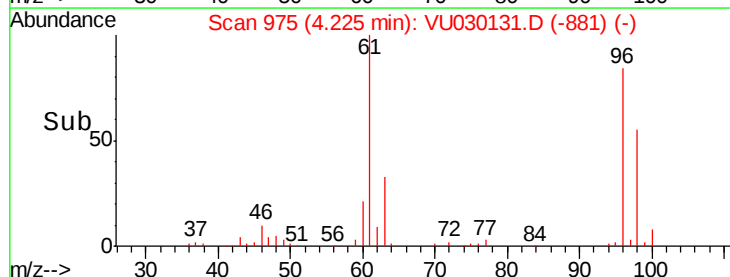
68 0.0 0.0 0.0

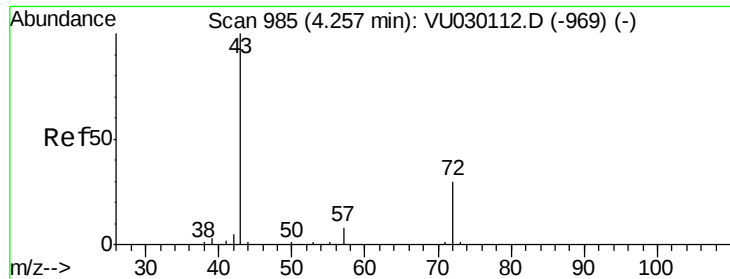


Abundance Ion 96.00 (95.70 to 96.70): VU030131.D (-881) (-)

Ion 61.00 (60.70 to 61.70): VU030131.D (-881) (-)

Ion 68.00 (67.70 to 68.70): VU030131.D (-881) (-)





#22

2-Butanone

Concen: 81.459 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

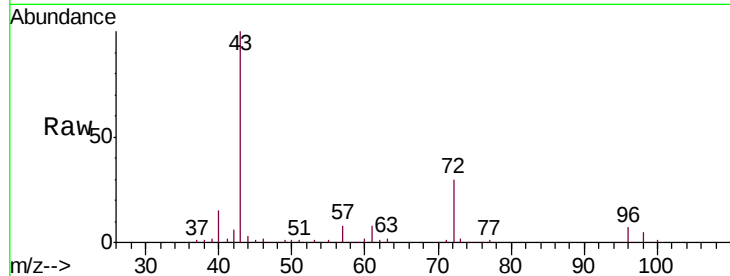
VSTD05040

Tgt Ion: 43 Resp: 283810

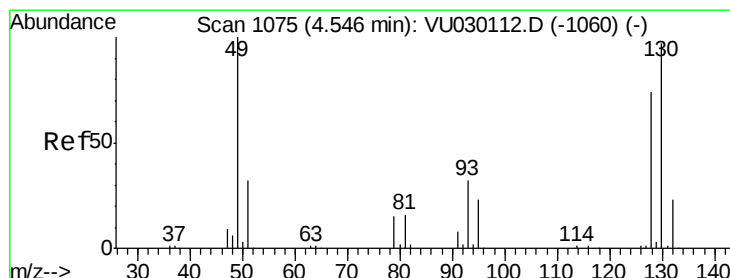
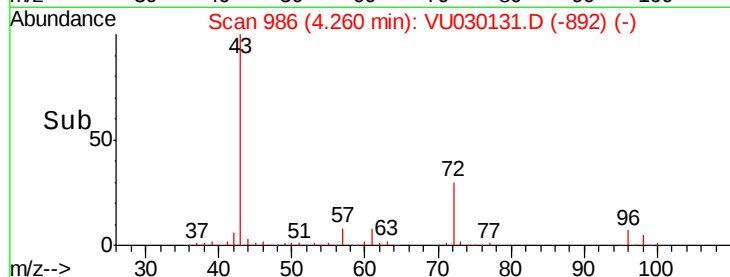
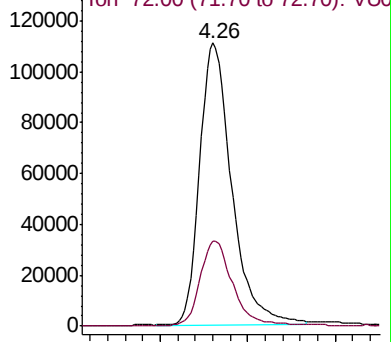
Ion Ratio Lower Upper

43 100

72 31.0 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030131.D (-986) (-)



#23

Bromochloromethane

Concen: 46.395 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Tgt Ion: 128 Resp: 98634

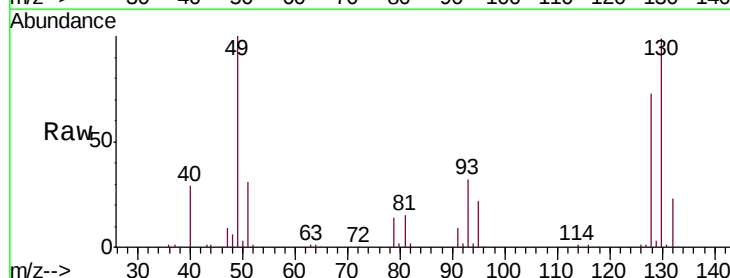
Ion Ratio Lower Upper

128 100

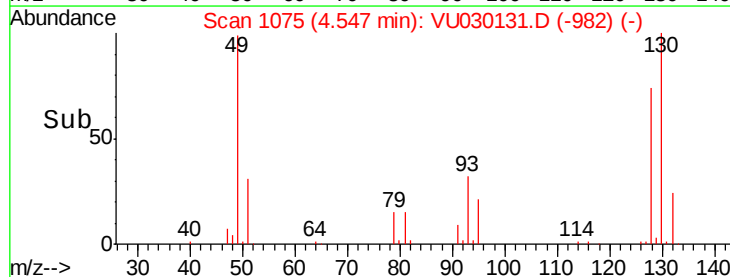
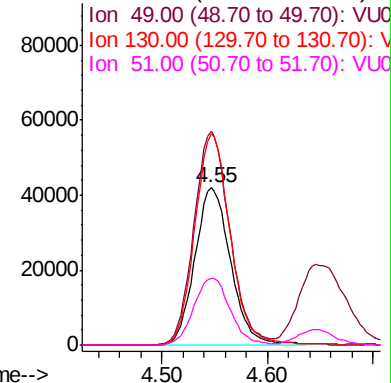
49 136.1 94.5 175.5

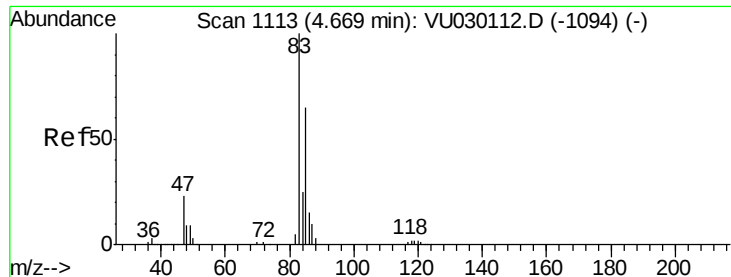
130 134.5 91.4 169.8

51 42.6 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030131.D (-1075) (-)





#25

Chloroform

Concen: 48.434 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

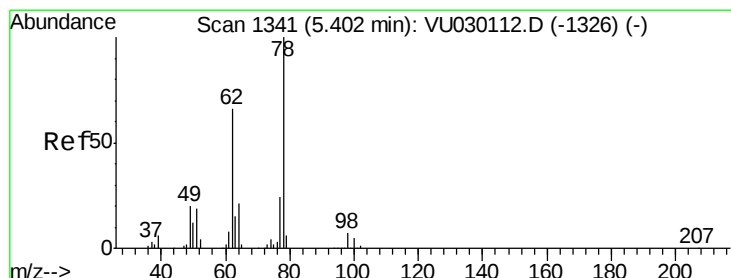
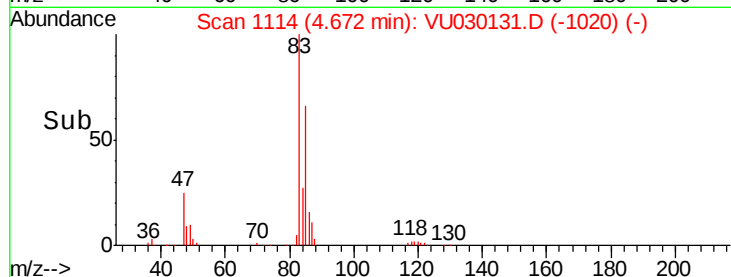
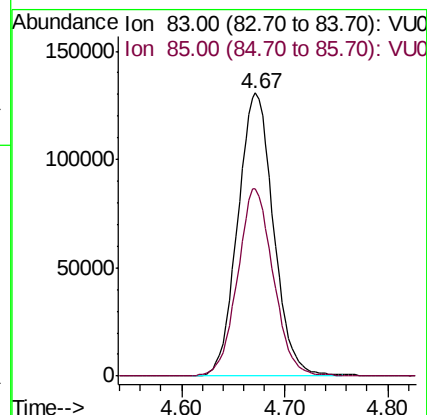
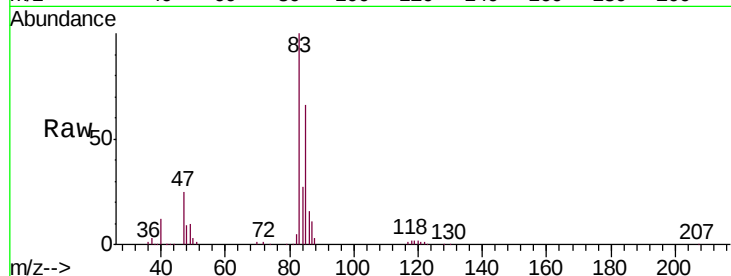
VSTD05040

Tgt Ion: 83 Resp: 314648

Ion Ratio Lower Upper

83 100

85 66.3 44.9 83.5



#27

1,2-Dichloroethane

Concen: 49.017 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030131.D

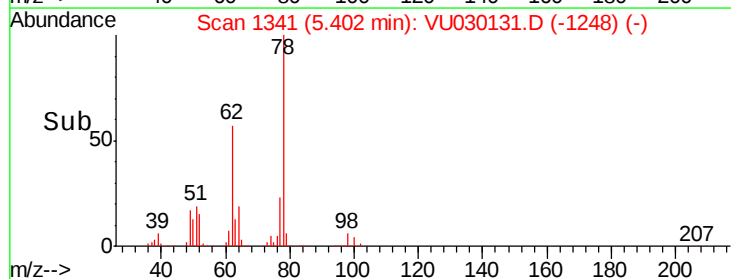
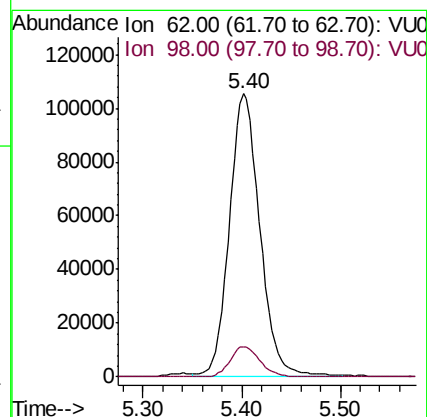
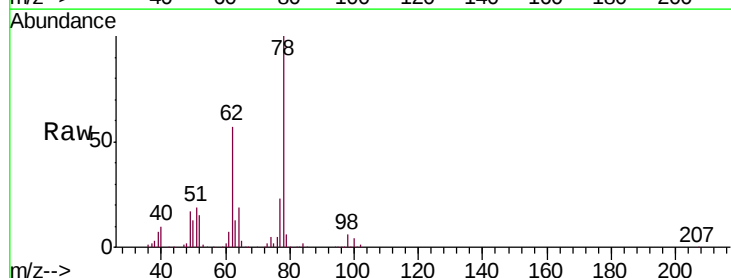
Acq: 15 Mar 2019 23:29

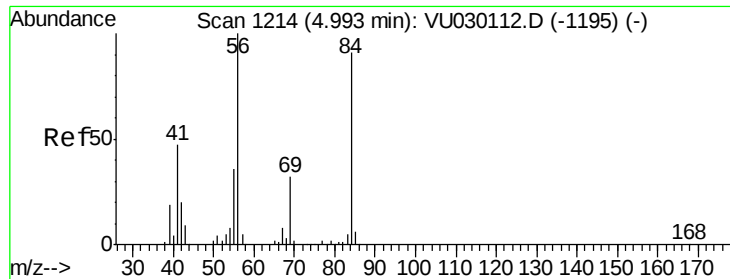
Tgt Ion: 62 Resp: 228940

Ion Ratio Lower Upper

62 100

98 10.6 8.8 13.2

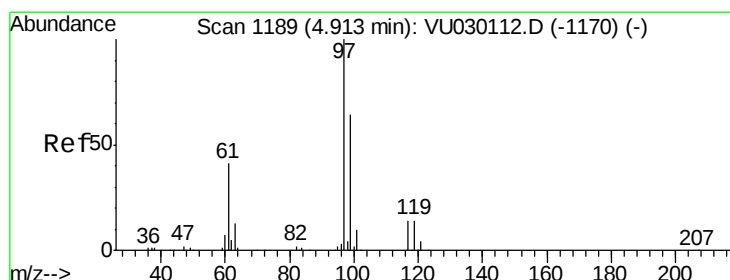
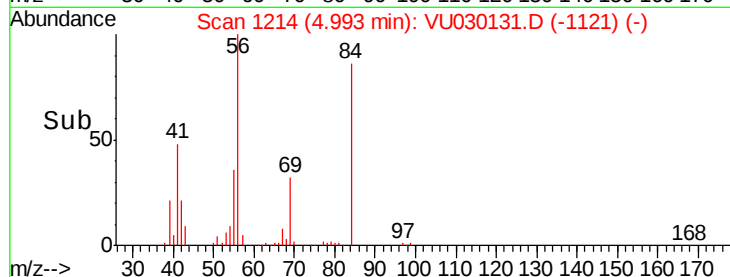
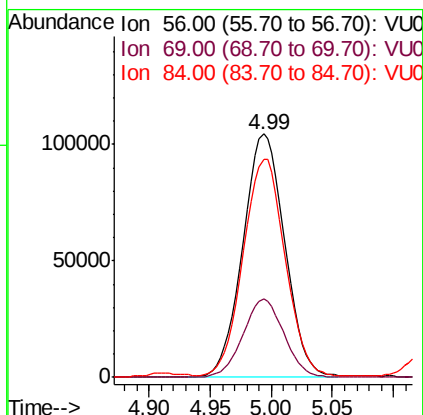
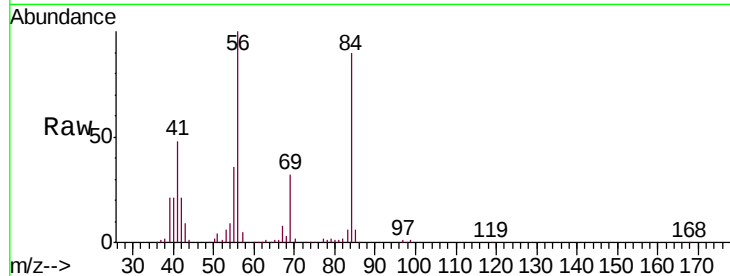




#29
Cyclohexane
Concen: 43.628 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

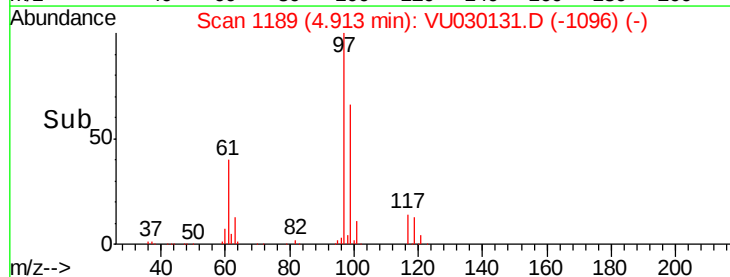
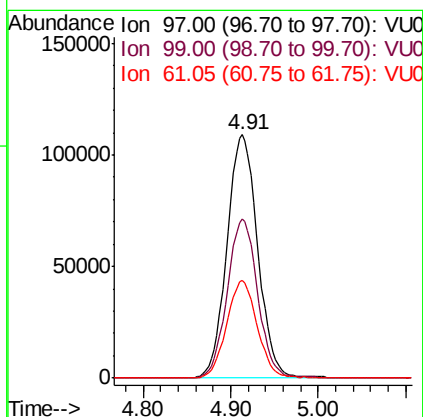
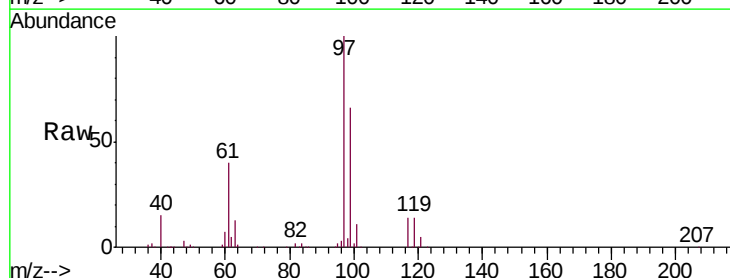
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

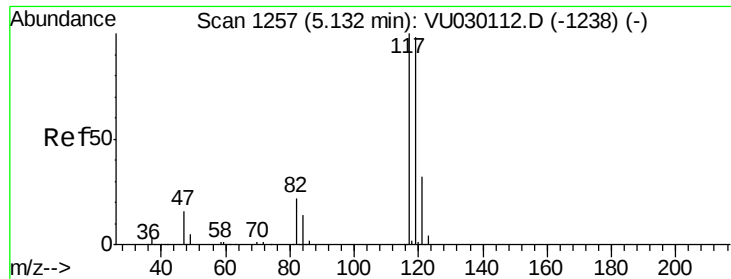
Tgt Ion: 56 Resp: 248603
Ion Ratio Lower Upper
56 100
69 31.5 25.3 37.9
84 90.4 73.5 110.3



#30
1,1,1-Trichloroethane
Concen: 47.139 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion: 97 Resp: 265871
Ion Ratio Lower Upper
97 100
99 64.4 52.2 78.2
61 39.9 32.2 48.4

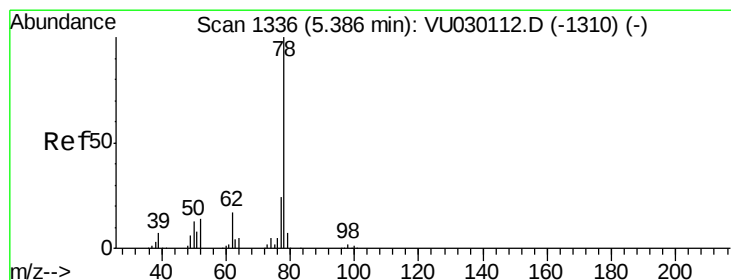
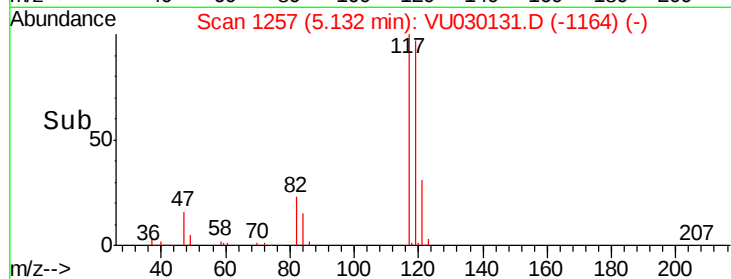
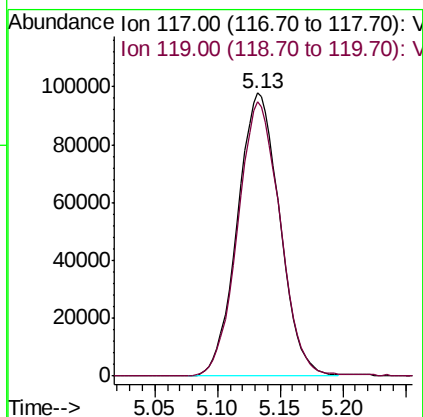
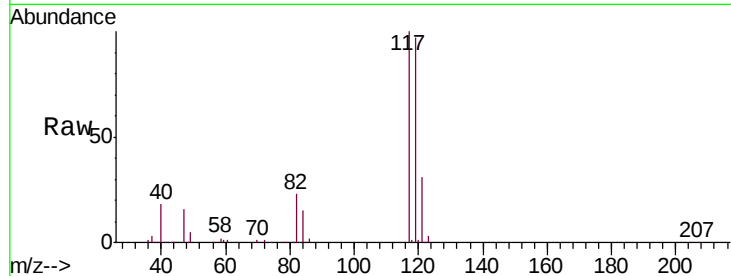




#31
Carbon tetrachloride
Concen: 45.992 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

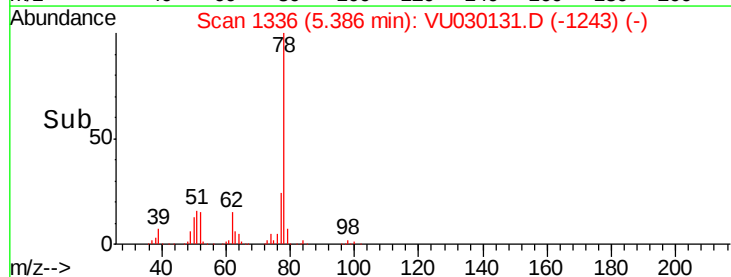
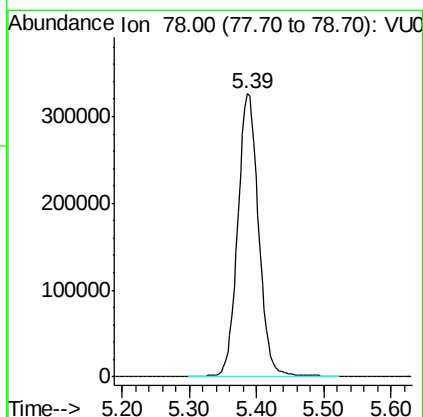
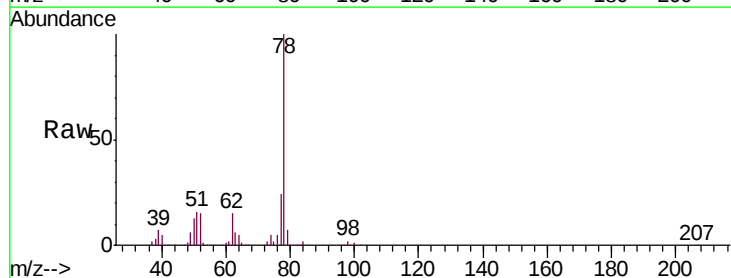
Instrument :
MSVOA_U
ClientSampled :
VSTD05040

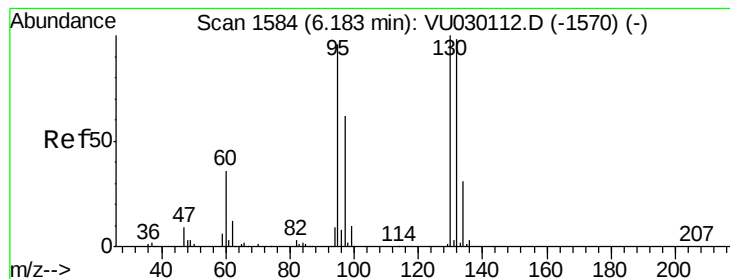
Tgt Ion:117 Resp: 229058
Ion Ratio Lower Upper
117 100
119 97.0 77.3 115.9



#33
Benzene
Concen: 47.607 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion: 78 Resp: 703812





#34

Trichloroethene

Concen: 46.219 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

Tgt Ion: 95 Resp: 179083

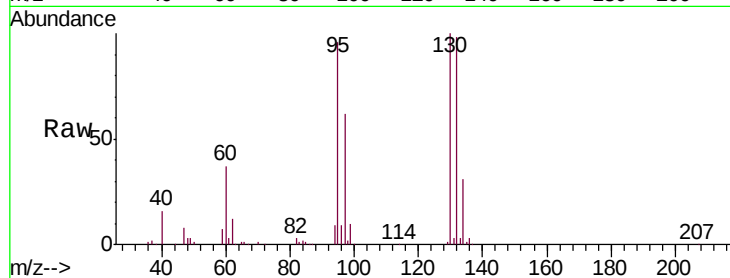
Ion Ratio Lower Upper

95 100

97 64.5 45.5 84.5

132 102.2 71.5 132.7

130 104.6 73.5 136.5

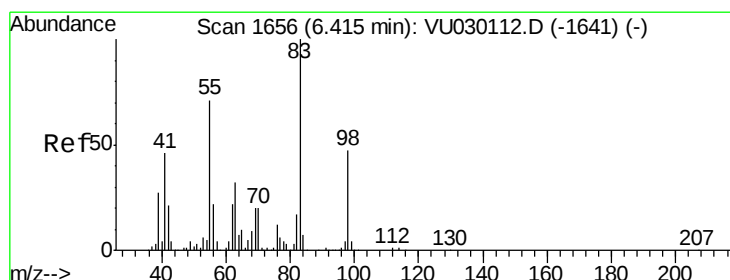
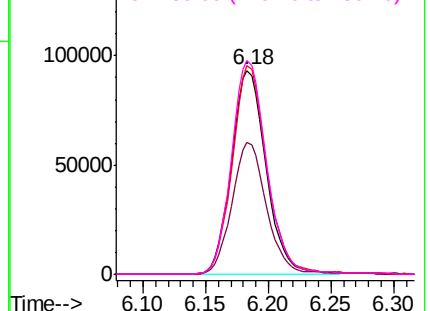
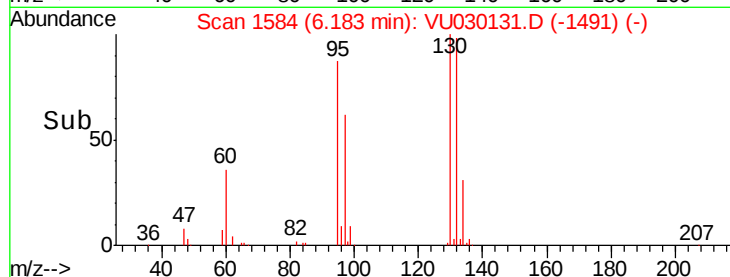


Abundance Ion 95.00 (94.70 to 95.70): VU030131.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU030131.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU030131.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU030131.D (-1570) (-)



#35

Methylcyclohexane

Concen: 43.103 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

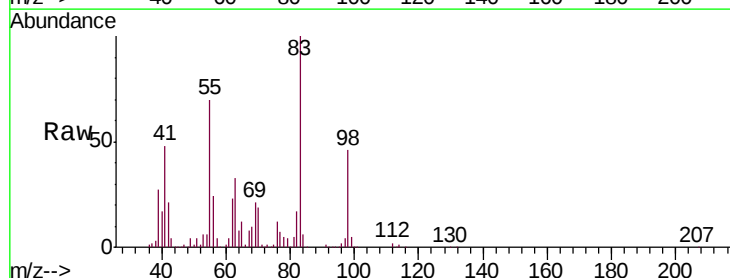
Tgt Ion: 83 Resp: 270819

Ion Ratio Lower Upper

83 100

55 70.9 56.6 84.8

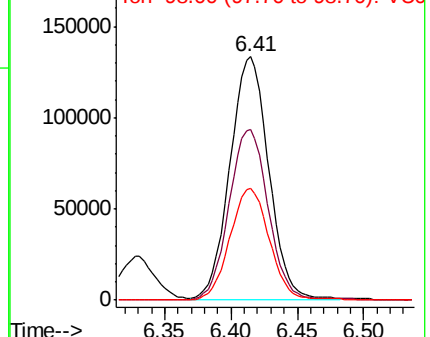
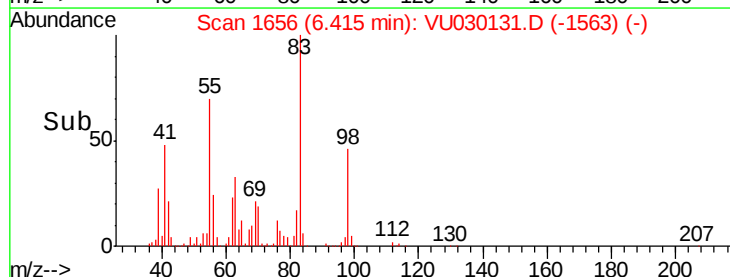
98 46.2 37.8 56.6

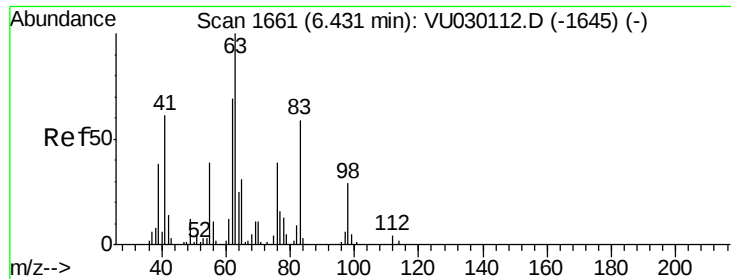


Abundance Ion 83.00 (82.70 to 83.70): VU030131.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030131.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030131.D (-1641) (-)





#37

1,2-Dichloropropane

Concen: 49.101 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

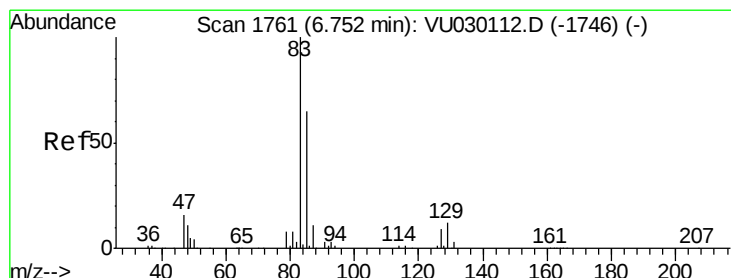
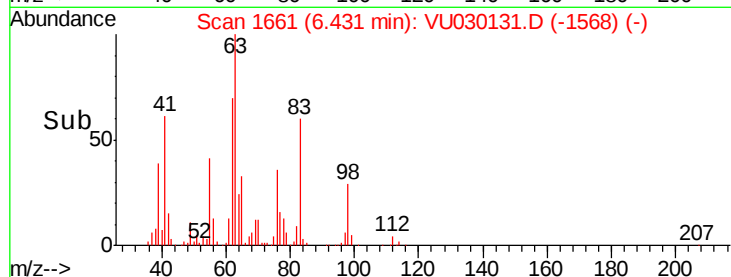
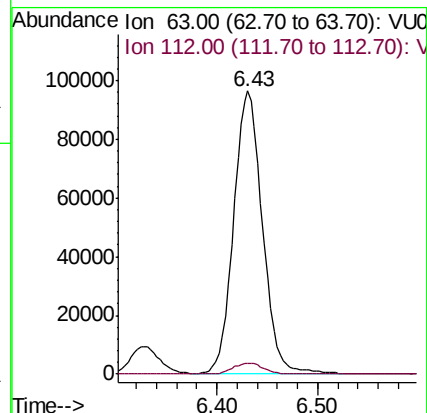
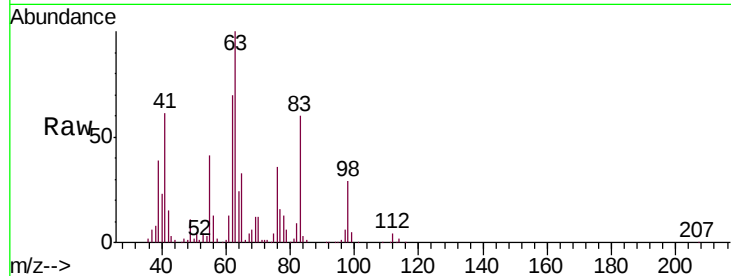
VSTD05040

Tgt Ion: 63 Resp: 190939

Ion Ratio Lower Upper

63 100

112 4.2 3.4 5.2



#38

Bromodichloromethane

Concen: 48.895 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

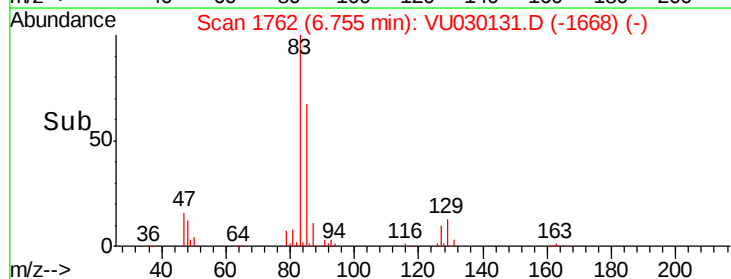
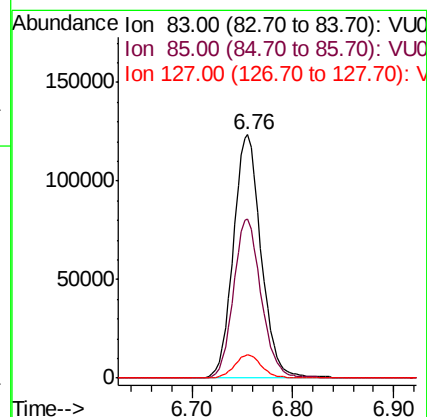
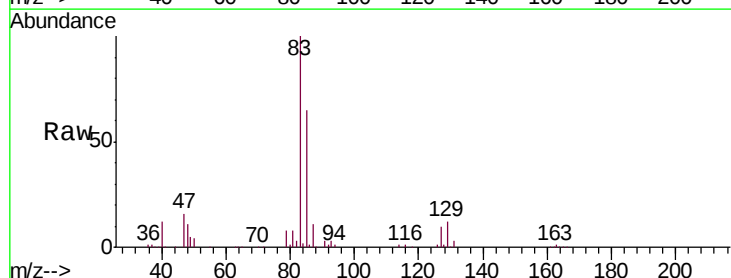
Tgt Ion: 83 Resp: 236441

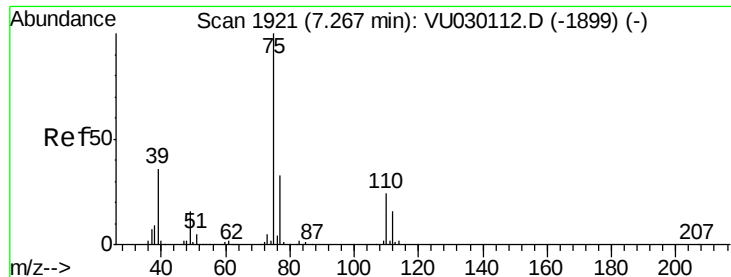
Ion Ratio Lower Upper

83 100

85 65.1 45.7 84.9

127 9.6 7.7 11.5

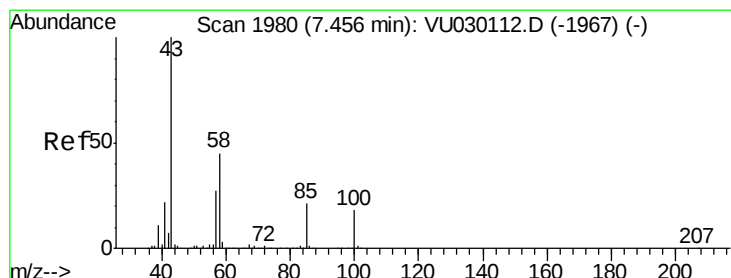
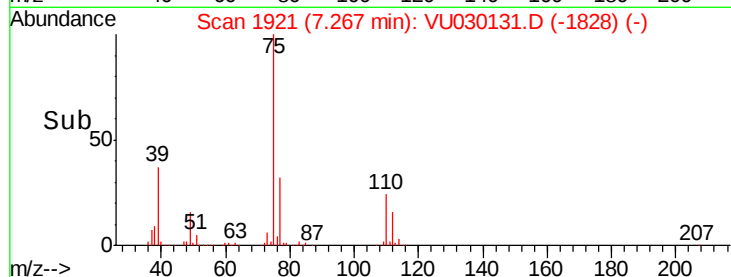
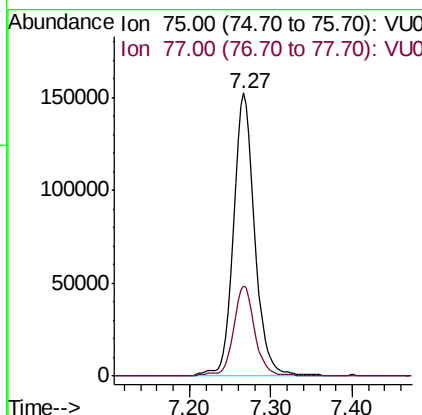
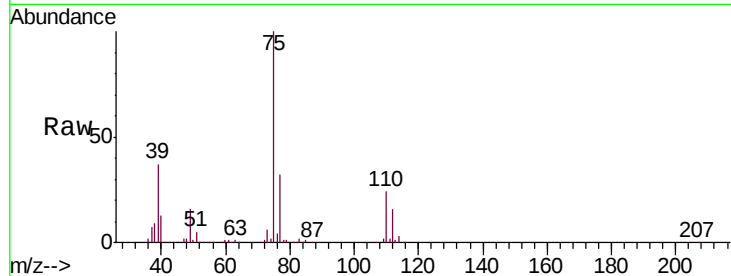




#39
 cis-1,3-Dichloropropene
 Concen: 46.197 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

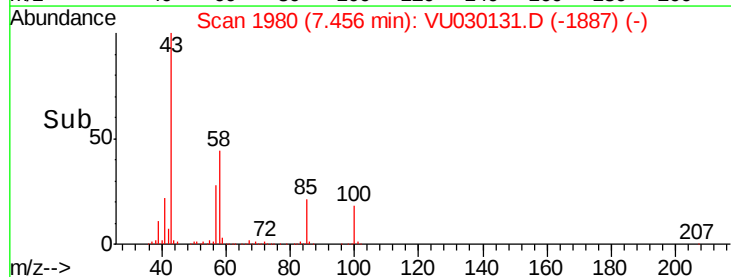
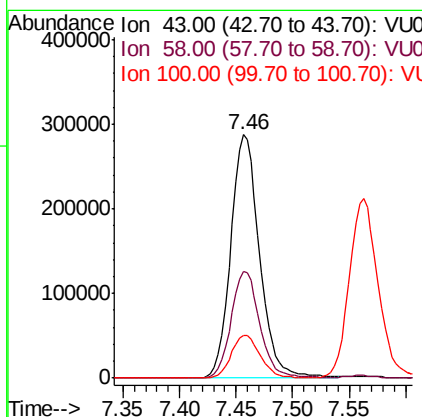
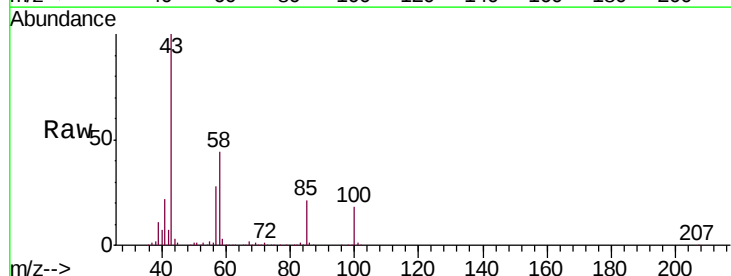
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

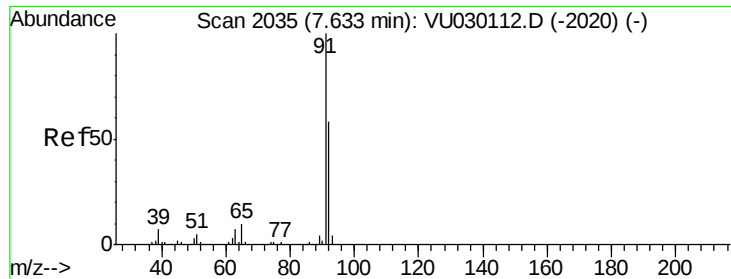
Tgt Ion: 75 Resp: 279563
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 97.214 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Tgt Ion: 43 Resp: 510439
 Ion Ratio Lower Upper
 43 100
 58 43.6 35.1 52.7
 100 17.9 14.4 21.6





#42

Toluene

Concen: 47.553 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

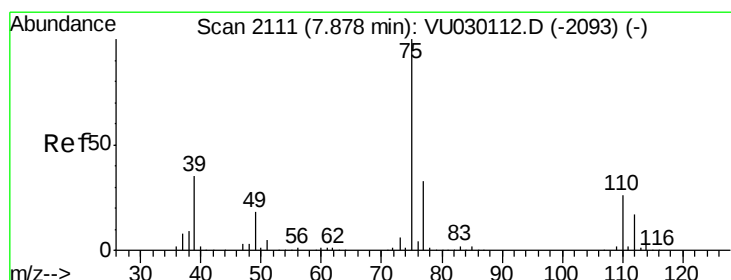
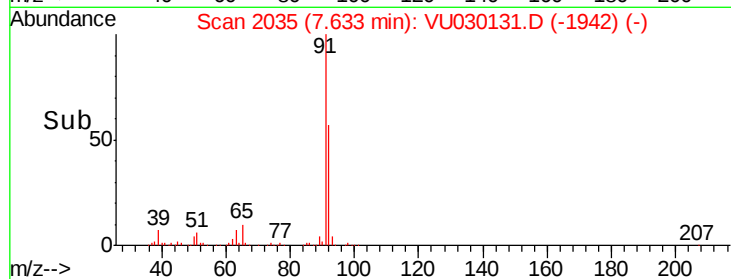
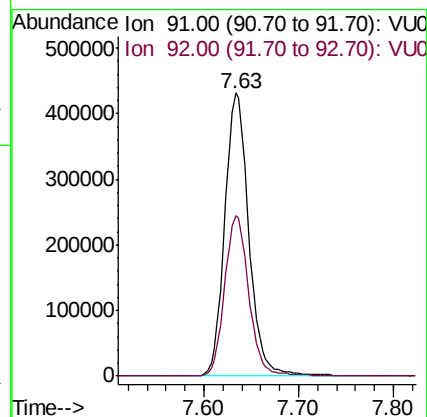
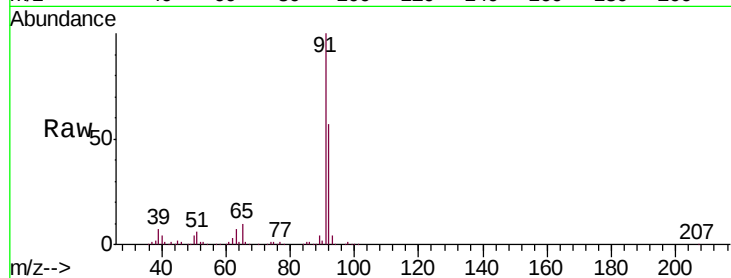
VSTD05040

Tgt Ion: 91 Resp: 764348

Ion Ratio Lower Upper

91 100

92 56.5 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 46.425 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030131.D

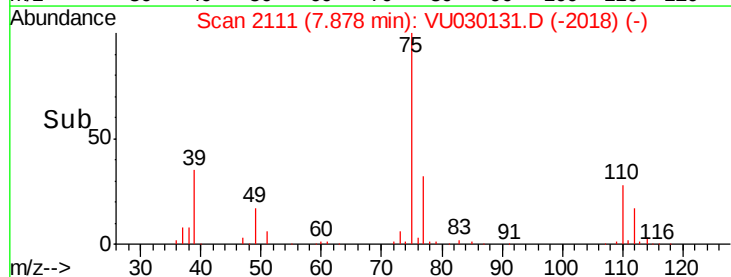
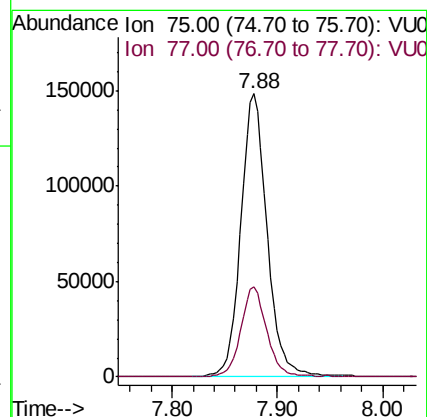
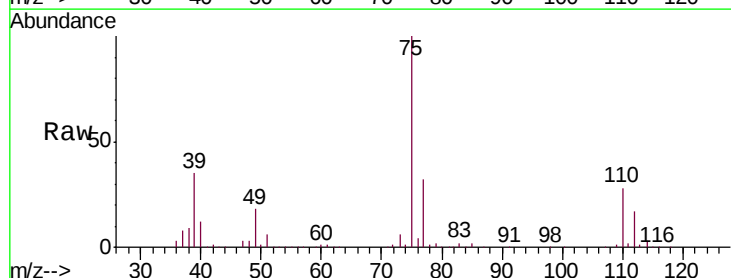
Acq: 15 Mar 2019 23:29

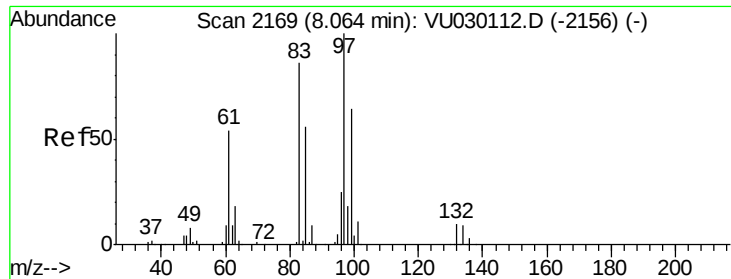
Tgt Ion: 75 Resp: 256516

Ion Ratio Lower Upper

75 100

77 31.9 21.9 40.7

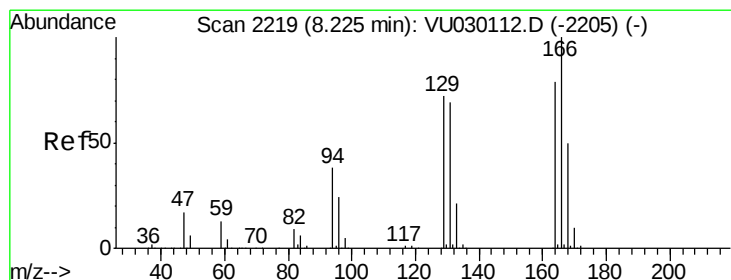
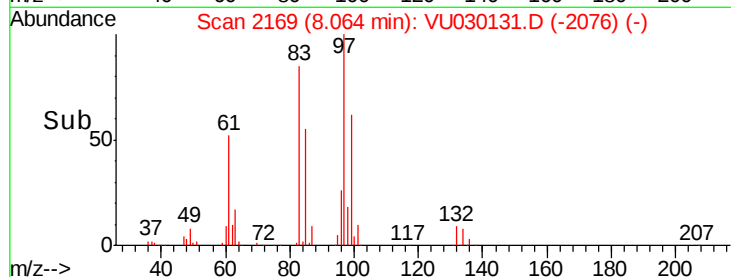
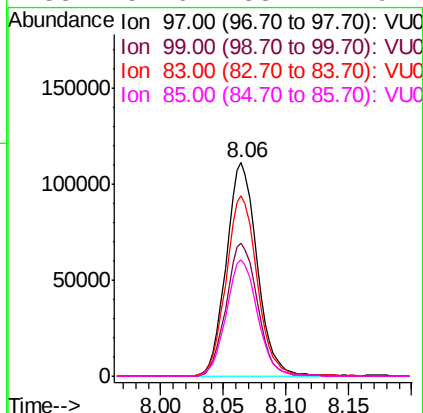
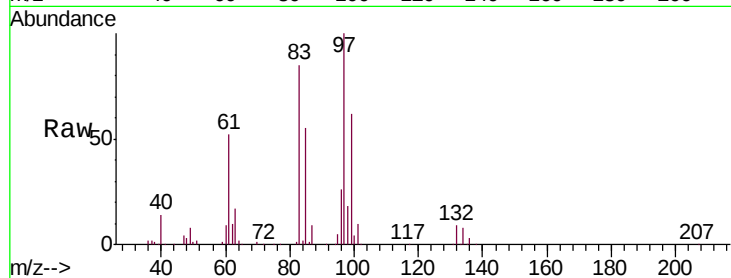




#45
 1,1,2-Trichloroethane
 Concen: 48.985 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

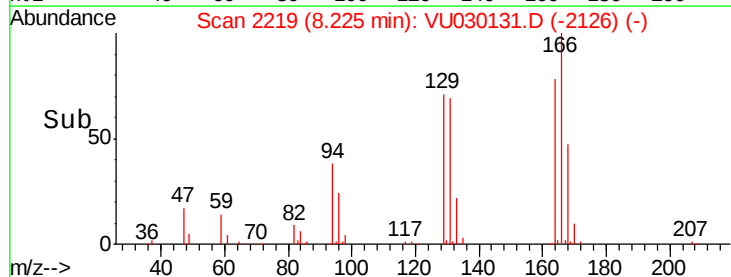
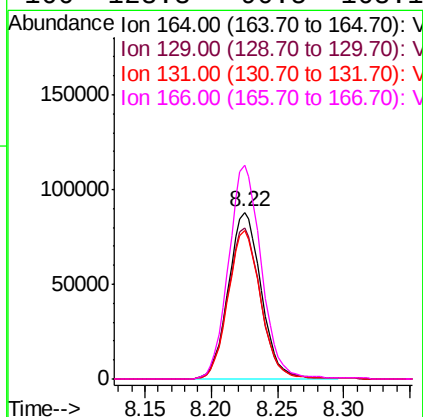
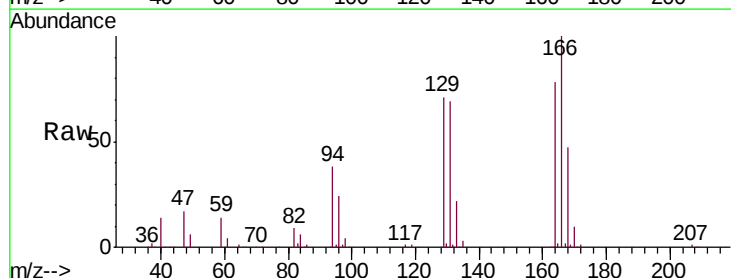
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

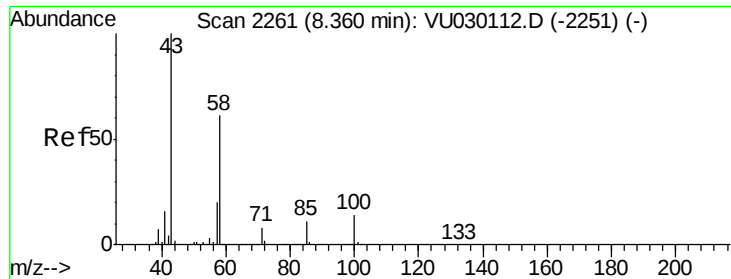
Tgt Ion:	97	Resp:	190503
Ion	Ratio	Lower	Upper
97	100		
99	62.2	44.7	82.9
83	84.8	58.6	108.8
85	54.6	38.1	70.7



#46
 Tetrachloroethene
 Concen: 44.664 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Tgt Ion:	164	Resp:	151449
Ion	Ratio	Lower	Upper
164	100		
129	91.1	63.3	117.7
131	89.0	62.0	115.2
166	128.3	90.5	168.1

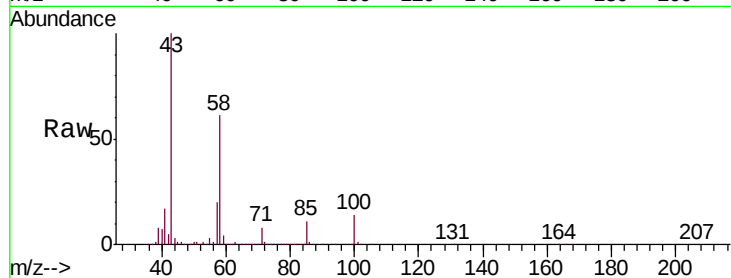




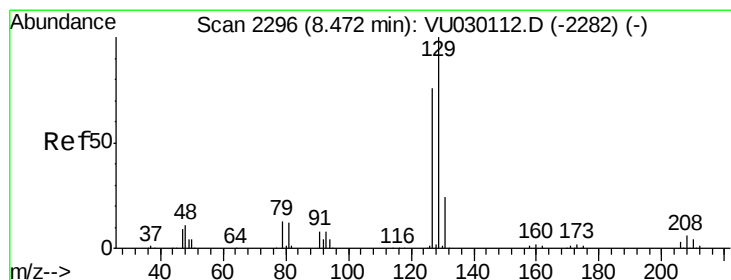
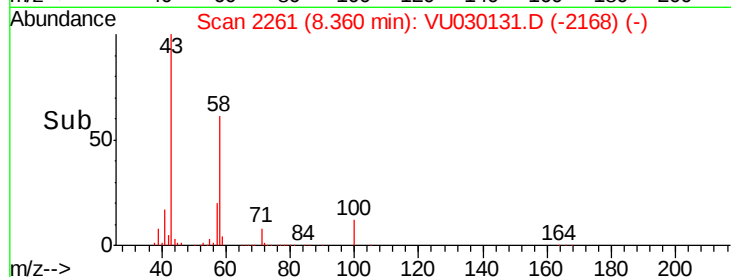
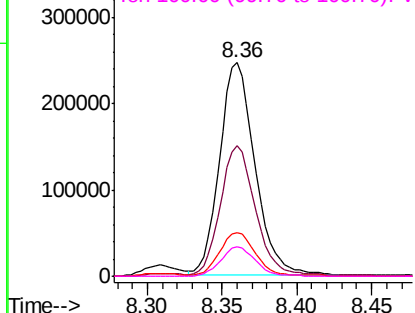
#48
2-Hexanone
Concen: 90.524 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Tgt Ion:	43	Resp:	405495
Ion	Ratio	Lower	Upper
43	100		
58	60.8	48.6	72.8
57	21.3	16.1	24.1
100	13.7	11.6	17.4

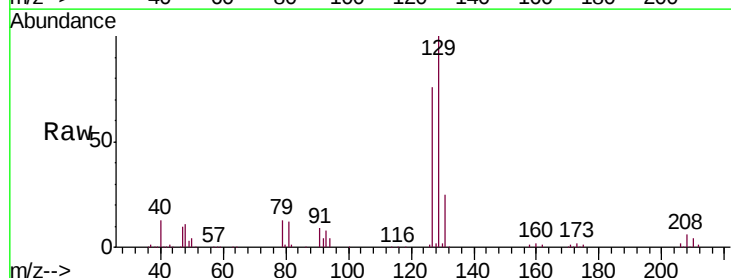


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

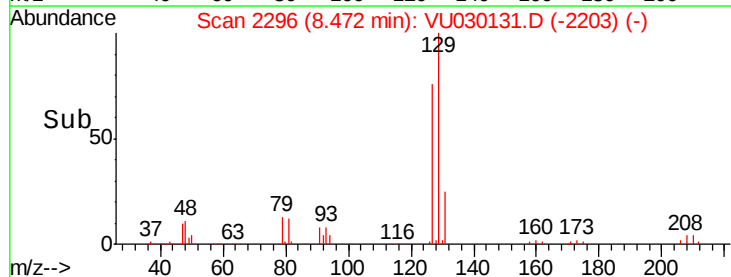
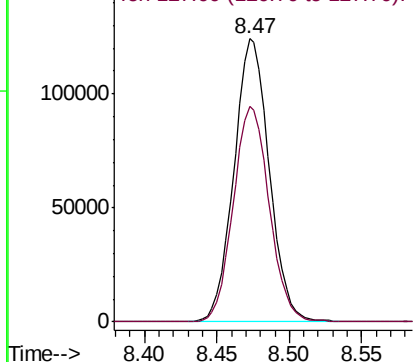


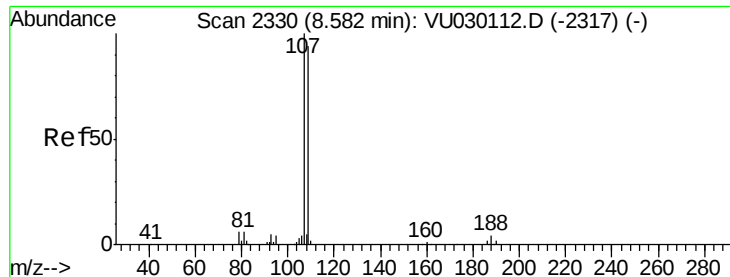
#49
Dibromochloromethane
Concen: 48.284 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion:	129	Resp:	209797
Ion	Ratio	Lower	Upper
129	100		
127	76.0	55.2	102.4



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

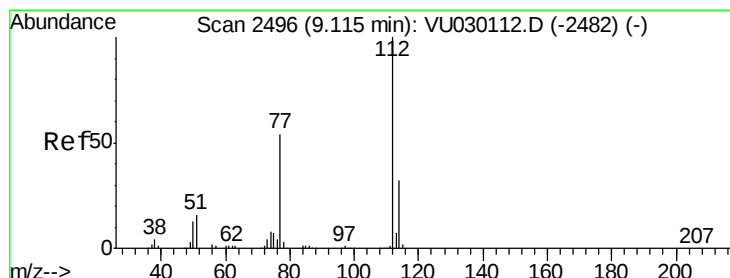
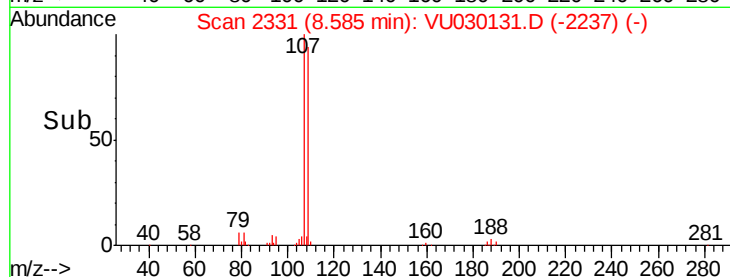
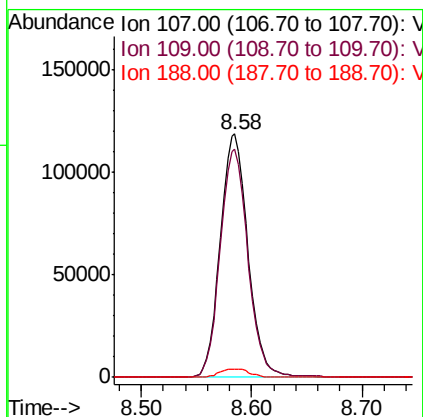
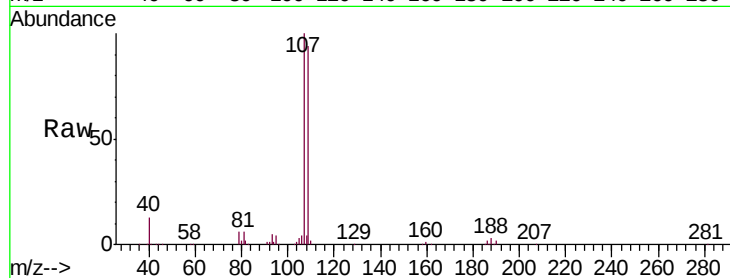




#50
1,2-Dibromoethane
Concen: 48.212 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

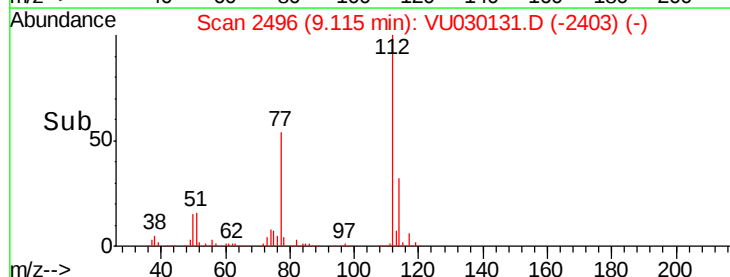
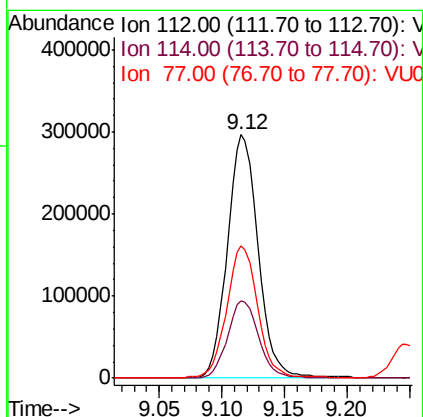
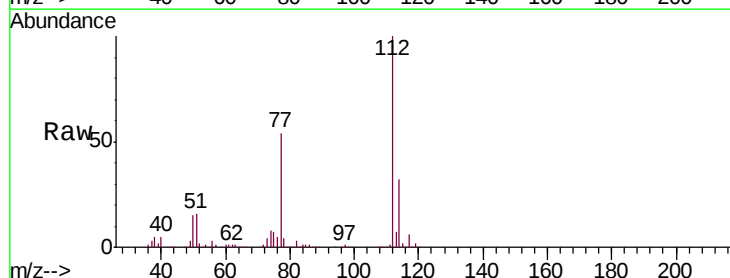
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

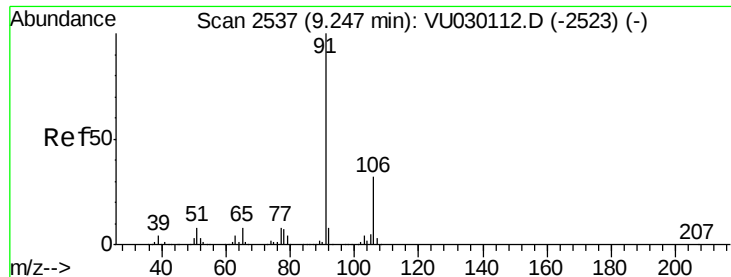
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	67.8	126.0
188	3.4	3.2	4.8



#51
Chlorobenzene
Concen: 46.660 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030131.D
Acq: 15 Mar 2019 23:29

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	54.4	44.6	66.8





#52

Ethylbenzene

Concen: 46.497 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

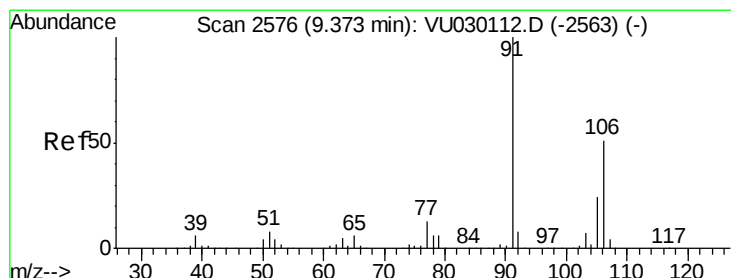
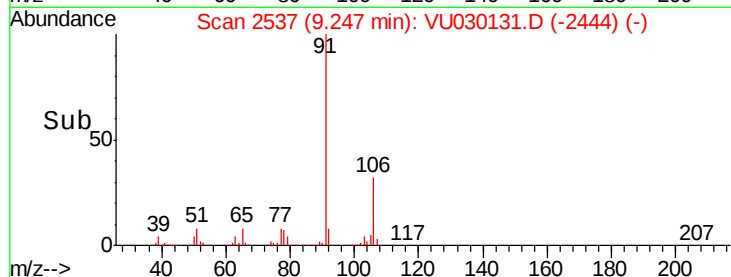
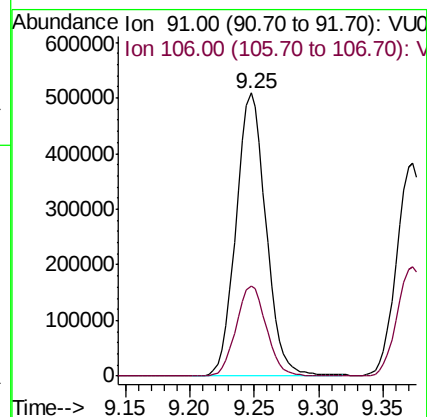
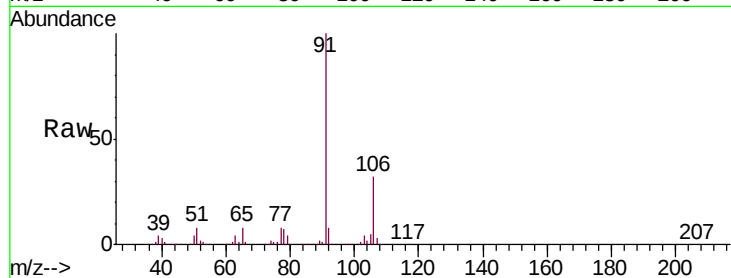
VSTD05040

Tgt Ion: 91 Resp: 822760

Ion Ratio Lower Upper

91 100

106 32.0 22.5 41.9



#53

m,p-Xylene

Concen: 47.388 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030131.D

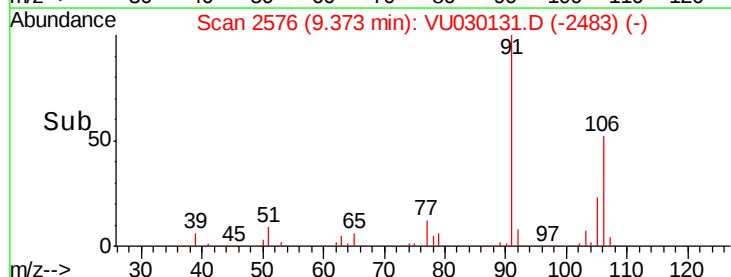
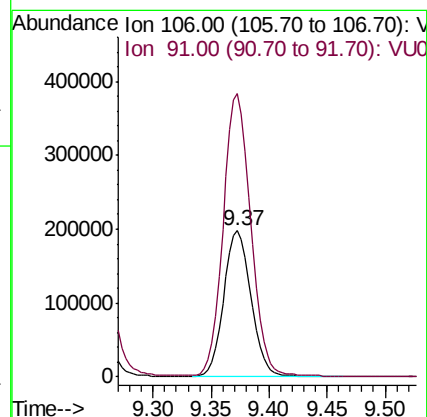
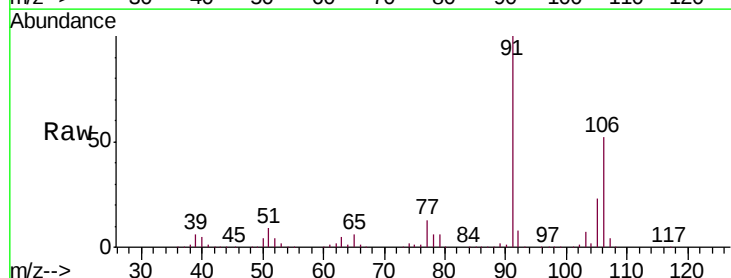
Acq: 15 Mar 2019 23:29

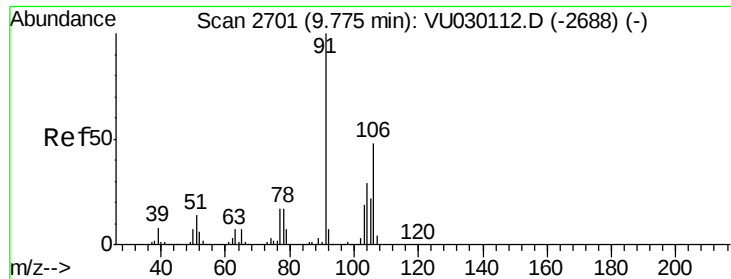
Tgt Ion: 106 Resp: 324424

Ion Ratio Lower Upper

106 100

91 194.1 135.1 250.9





#54

o-xylene

Concen: 47.741 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

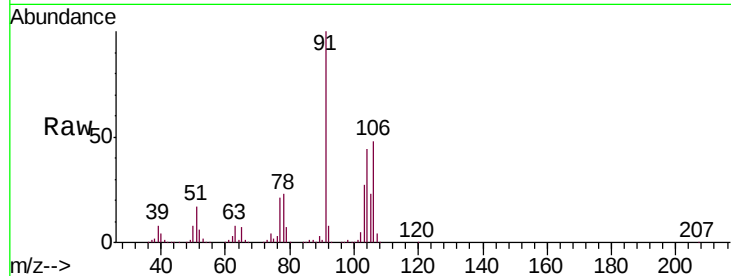
VSTD05040

Tgt Ion:106 Resp: 321030

Ion Ratio Lower Upper

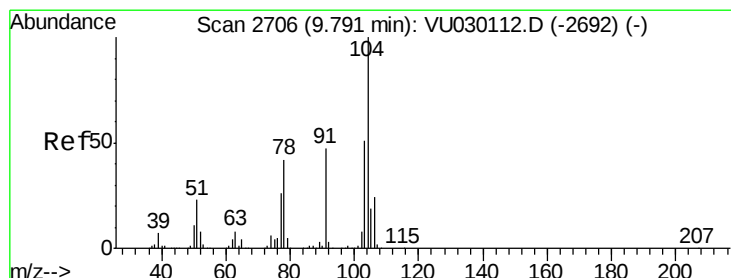
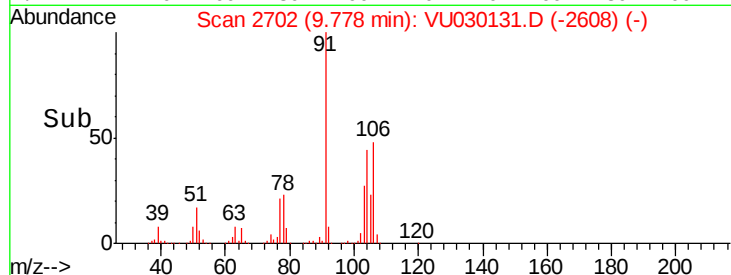
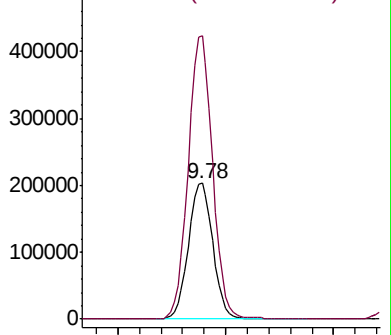
106 100

91 208.1 144.5 268.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.471 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030131.D

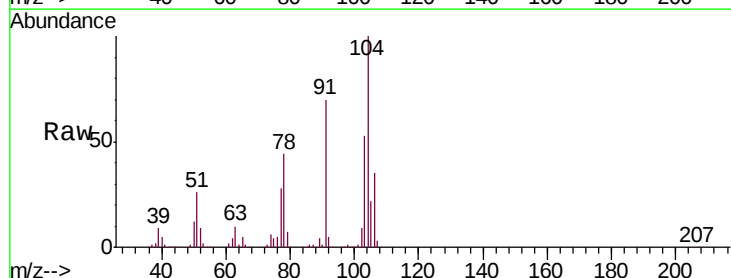
Acq: 15 Mar 2019 23:29

Tgt Ion:104 Resp: 554986

Ion Ratio Lower Upper

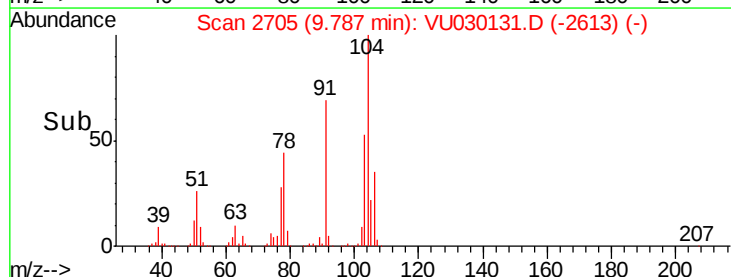
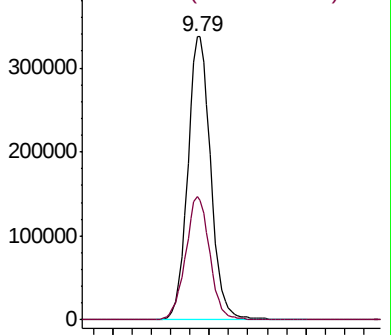
104 100

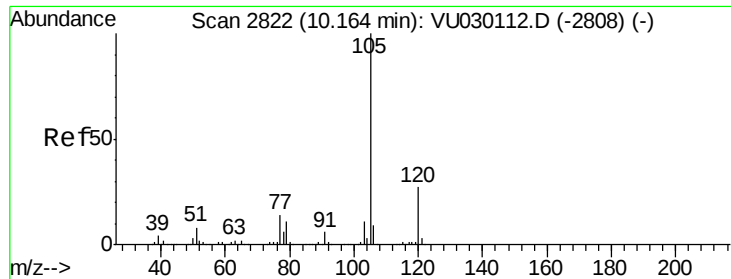
78 43.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.330 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

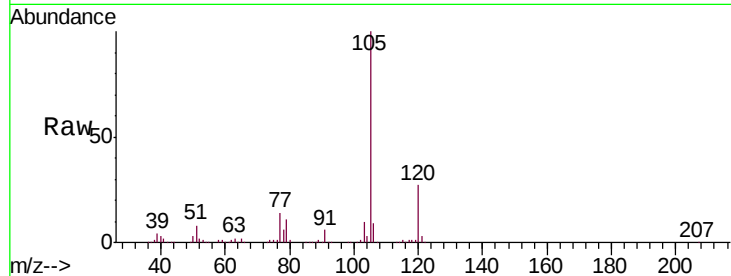
Tgt Ion:105 Resp: 833212

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

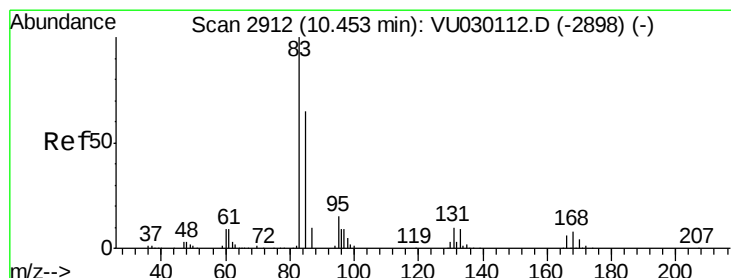
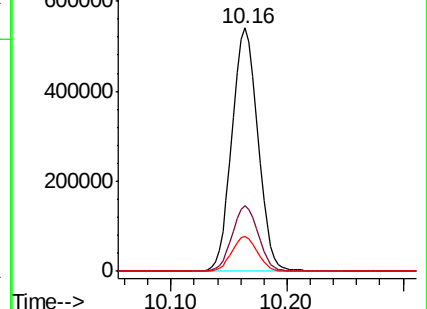
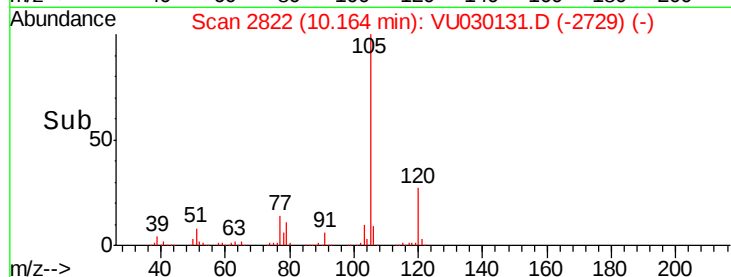
77 14.4 11.1 16.7



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: 48.729 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

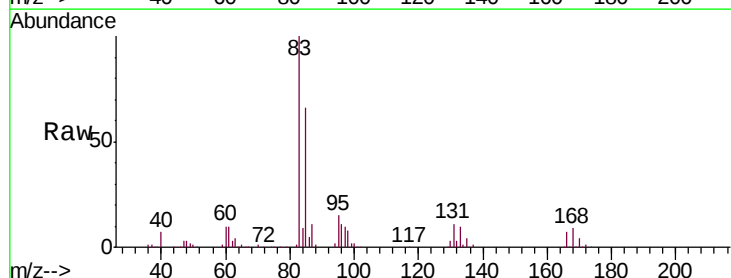
Tgt Ion: 83 Resp: 325257

Ion Ratio Lower Upper

83 100

85 66.1 45.9 85.3

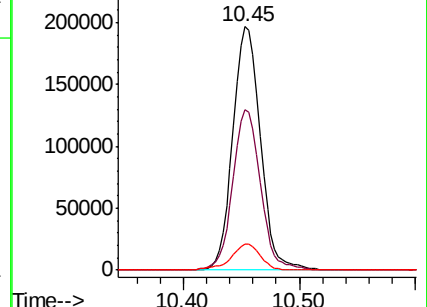
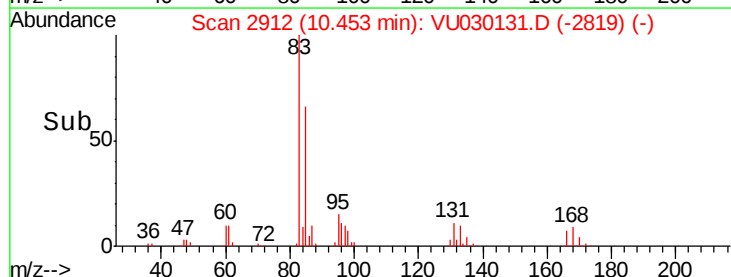
131 10.6 8.5 12.7

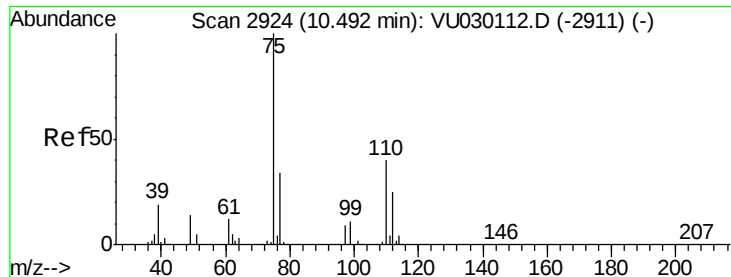


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

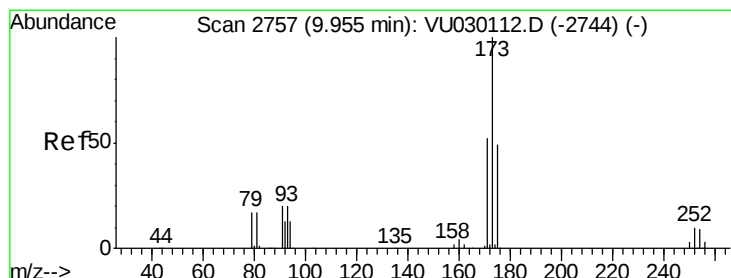
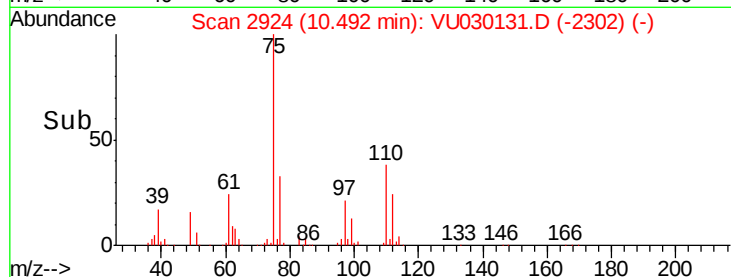
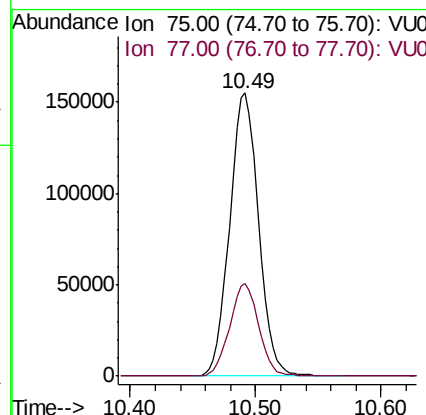
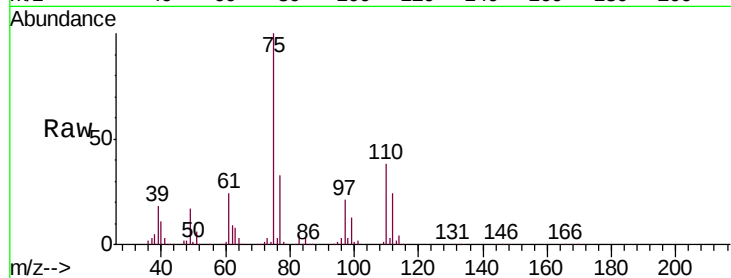




#59
 1,2,3-Trichloropropane
 Concen: 48.925 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

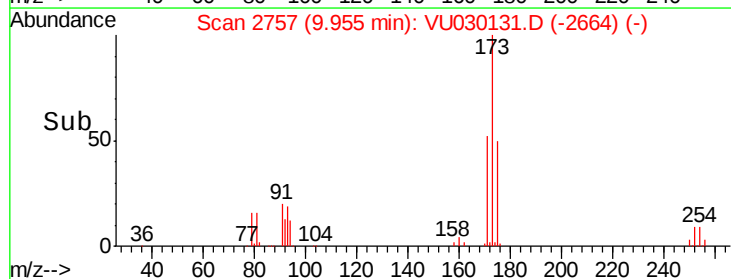
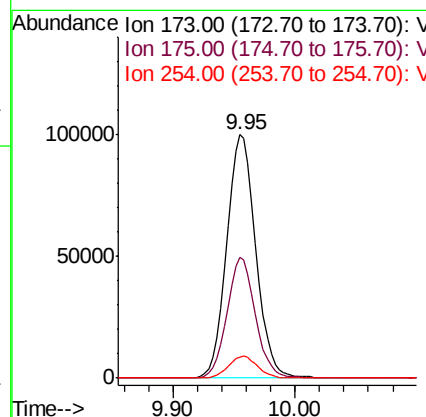
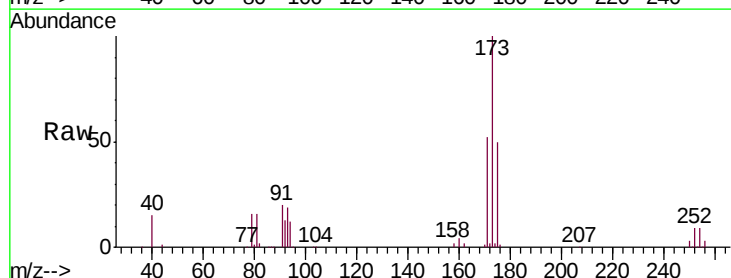
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

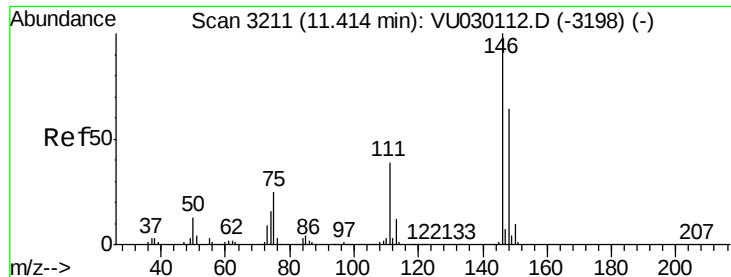
Tgt Ion: 75 Resp: 247776
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.8 38.8



#61
 Bromoform
 Concen: 50.122 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Tgt Ion: 173 Resp: 167365
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.0 58.6
 254 9.0 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 46.462 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

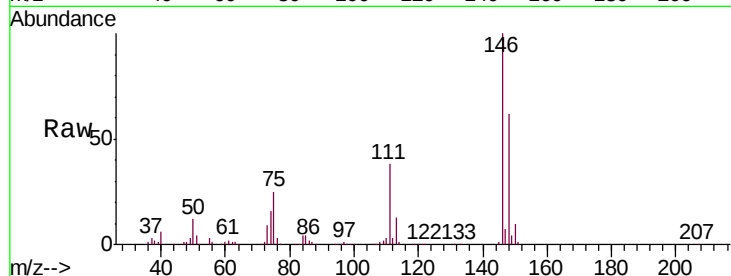
Tgt Ion:146 Resp: 402517

Ion Ratio Lower Upper

146 100

111 37.7 26.7 49.5

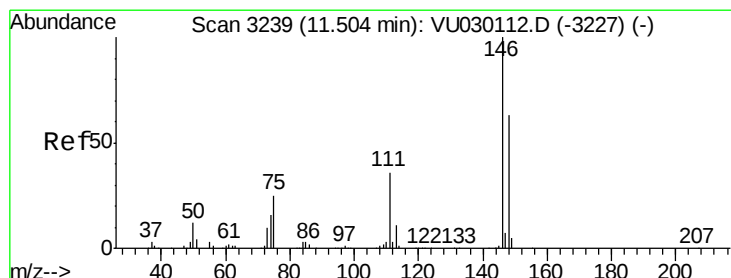
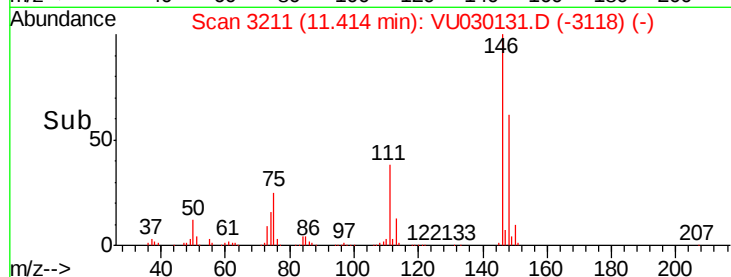
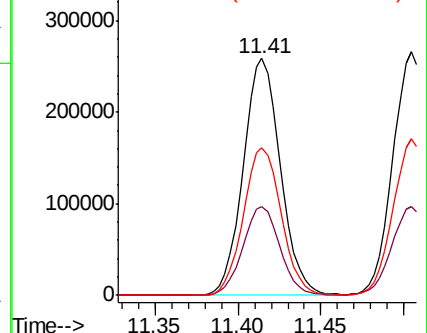
148 62.4 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.758 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

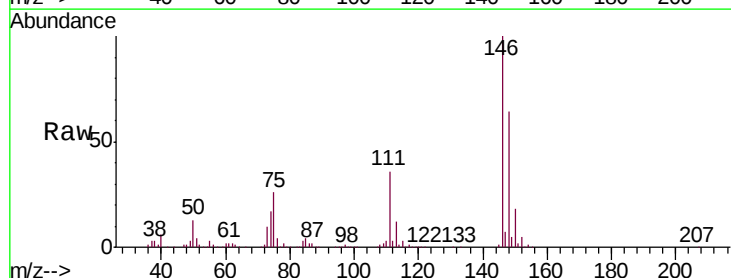
Tgt Ion:146 Resp: 411893

Ion Ratio Lower Upper

146 100

111 36.5 25.5 47.3

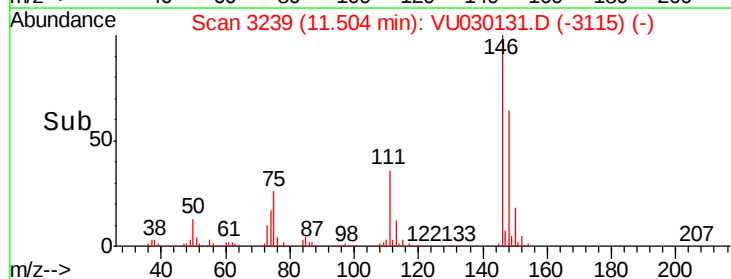
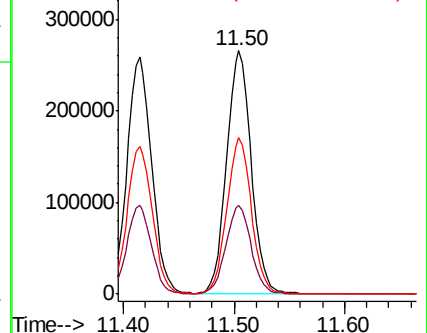
148 64.1 45.0 83.6

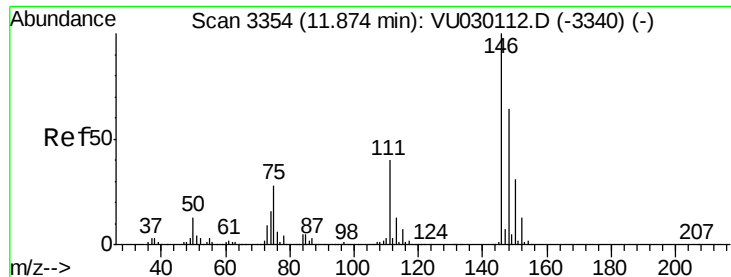


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

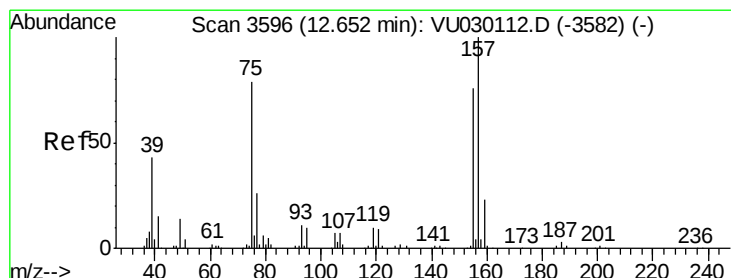
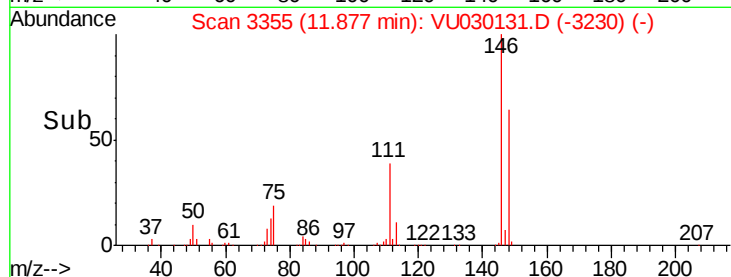
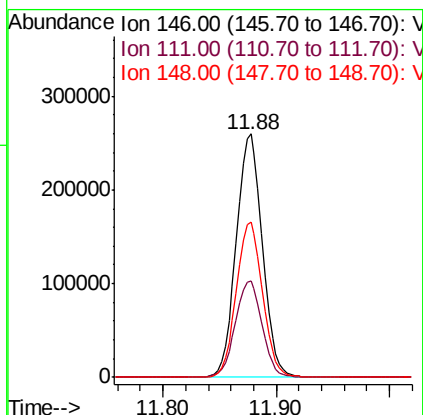
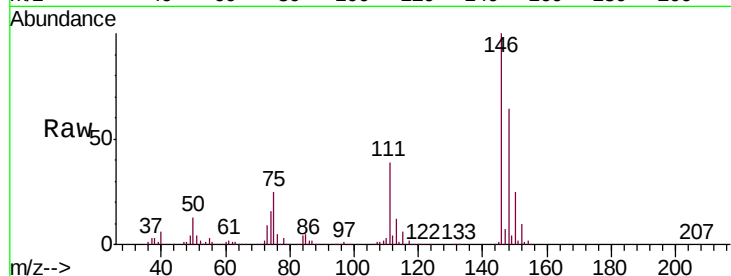




#65
 1,2-Dichlorobenzene
 Concen: 47.975 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

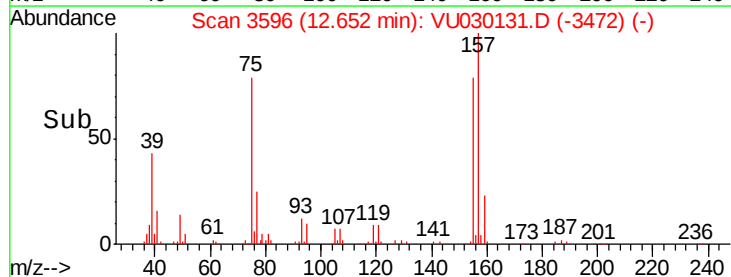
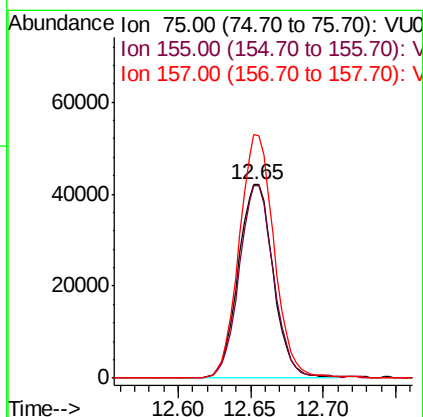
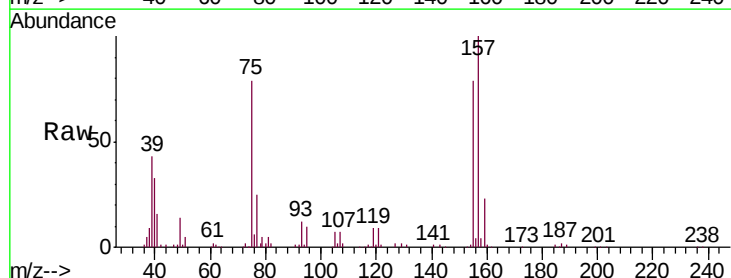
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

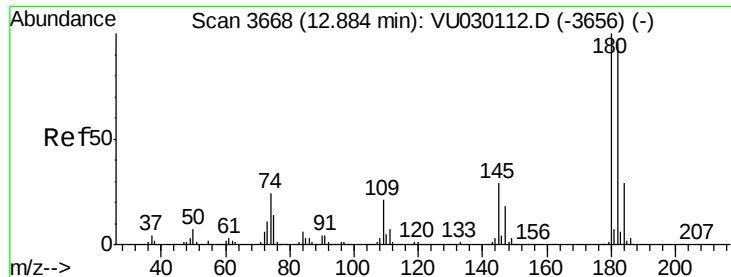
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	30.9	46.3
148	63.7	51.2	76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.017 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.3	80.9	121.3
157	125.8	104.6	156.8

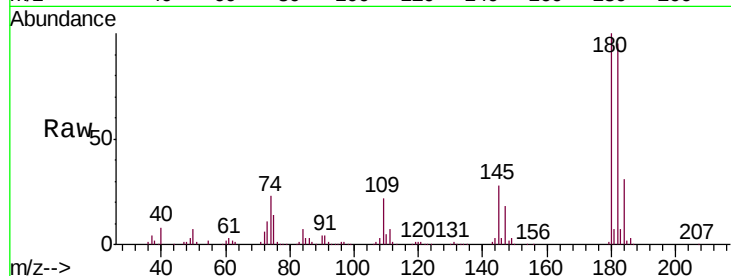




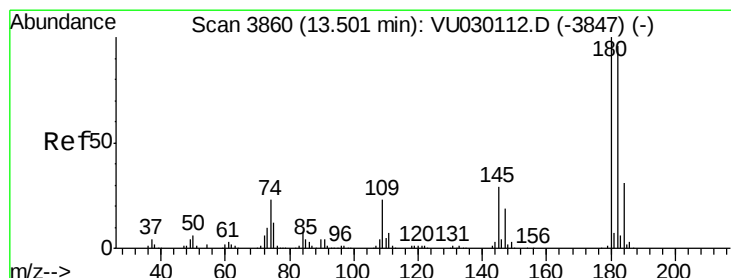
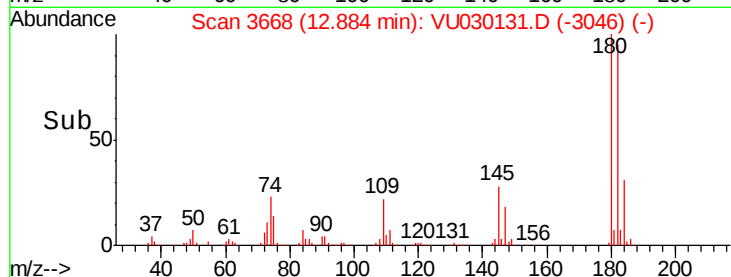
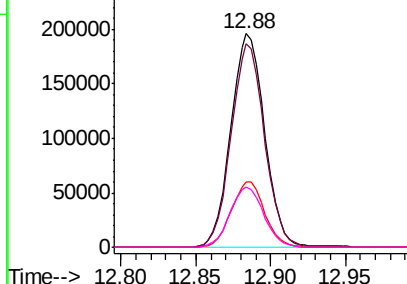
#67
 1,3,5-Trichlorobenzene
 Concen: 45.862 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tgt Ion:	180	Resp:	308389
Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.3	114.5
184	30.3	24.7	37.1
145	28.3	22.3	33.5

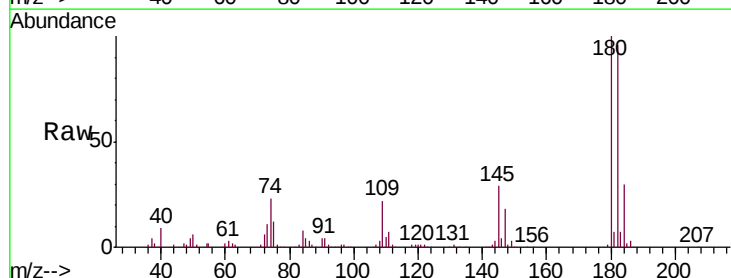


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

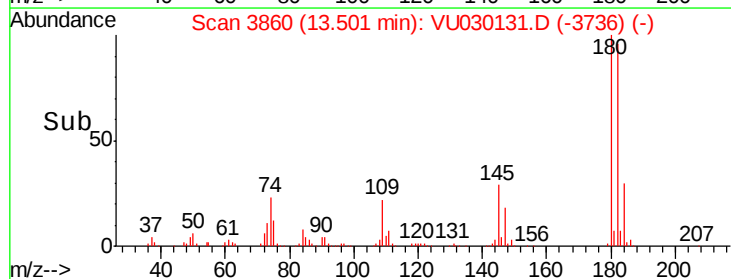
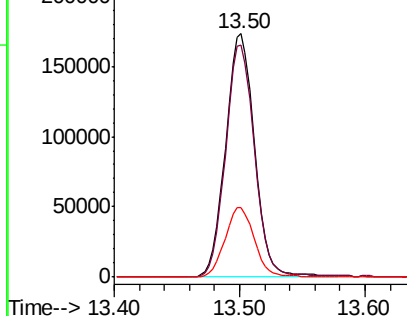


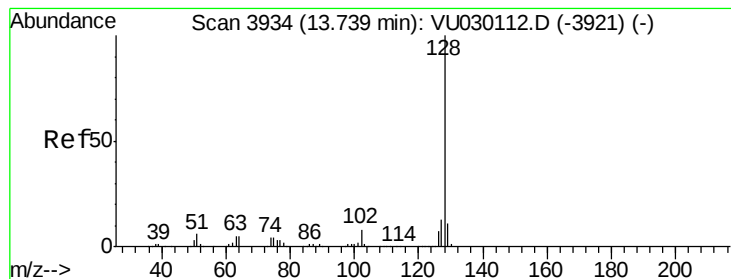
#68
 1,2,4-trichlorobenzene
 Concen: 45.162 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030131.D
 Acq: 15 Mar 2019 23:29

Tgt Ion:	180	Resp:	277780
Ion	Ratio	Lower	Upper
180	100		
182	95.8	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: 45.520 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

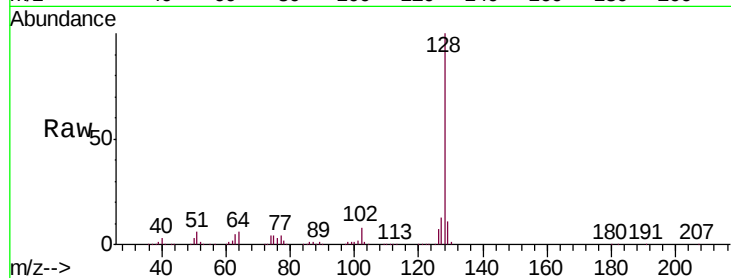
Tgt Ion:128 Resp: 909682

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

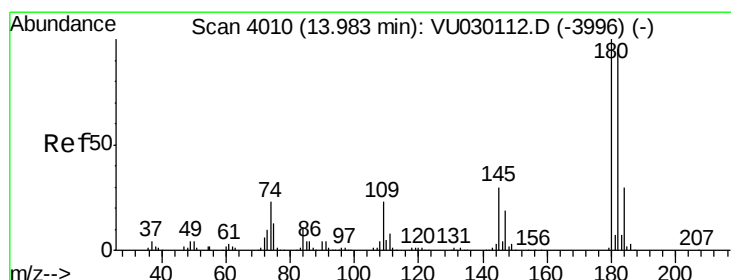
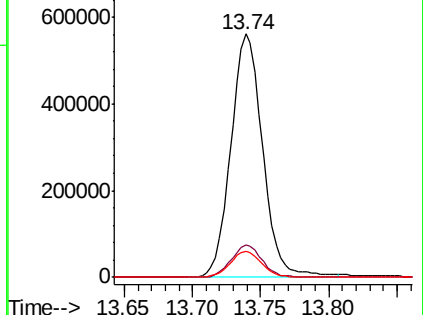
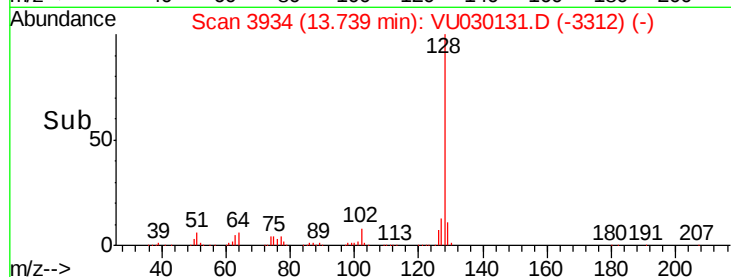
129 10.7 8.7 13.1



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: 45.946 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030131.D

Acq: 15 Mar 2019 23:29

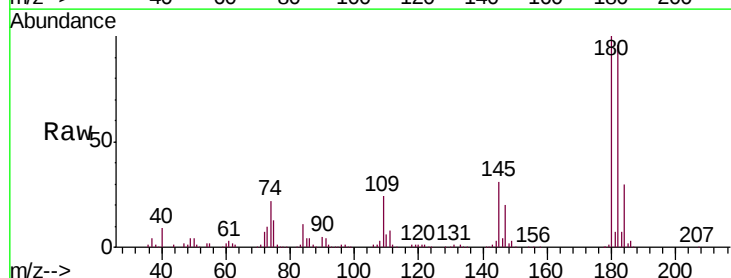
Tgt Ion:180 Resp: 293585

Ion Ratio Lower Upper

180 100

182 96.6 75.9 113.9

145 31.1 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

