

Data File : VU032611.D
Acq On : 11 Jun 2019 15:40
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Quant Time: Jun 12 05:36:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jun 12 05:31:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	179014	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	172063	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	95285	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	56305	48.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.96%
7) Chloroethane-d5	1.67	69	46078	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.74%
11) 1,1-Dichloroethene-d2	2.27	63	113571	49.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.88%
21) 2-Butanone-d5	4.17	46	101958	104.90	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.90%
24) Chloroform-d	4.64	84	113304	52.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.62%
26) 1,2-Dichloroethane-d4	5.30	65	71328	52.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.54%
32) Benzene-d6	5.33	84	218595	48.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.88%
36) 1,2-Dichloropropane-d6	6.32	67	69730	49.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.56%
41) Toluene-d8	7.56	98	208945	49.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.66%
43) trans-1,3-Dichloropropene-	7.85	79	34516	51.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.98%
47) 2-Hexanone-d5	8.31	63	64598	95.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	103682	51.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.18%
64) 1,2-Dichlorobenzene-d4	11.85	152	90762	49.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.46%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	82411	51.065 ug/L	99
3) Chloromethane	1.32	50	73189	46.933 ug/L	99
5) Vinyl chloride	1.40	62	74703	47.955 ug/L	98
6) Bromomethane	1.62	94	39441	42.487 ug/L	99
8) Chloroethane	1.69	64	43014	46.454 ug/L	100
9) Trichlorofluoromethane	1.88	101	107705	51.203 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	58589	53.556 ug/L	99
12) 1,1-Dichloroethene	2.28	96	54426	51.238 ug/L	82
13) Acetone	2.32	43	87700	87.449 ug/L	100
14) Carbon disulfide	2.47	76	156429	48.468 ug/L	99
15) Methyl Acetate	2.61	43	74867	52.287 ug/L	98
16) Methylene chloride	2.69	84	61859	51.037 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	57473	49.930 ug/L	95
18) Methyl tert-butyl Ether	2.99	73	191513	50.644 ug/L	99
19) 1,1-Dichloroethane	3.44	63	107905	51.423 ug/L	96
20) cis-1,2-Dichloroethene	4.22	96	65107	49.979 ug/L	96
22) 2-Butanone	4.25	43	117789	99.376 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	34517	50.960	ug/L	96
25) Chloroform	4.67	83	113237	52.293	ug/L	99
27) 1,2-Dichloroethane	5.40	62	90437	52.830	ug/L	99
29) Cyclohexane	4.99	56	99784	48.756	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	99775	51.224	ug/L	99
31) Carbon tetrachloride	5.13	117	92175	51.632	ug/L	100
33) Benzene	5.38	78	240763	49.802	ug/L	100
34) Trichloroethene	6.18	95	66091	50.249	ug/L	99
35) Methylcyclohexane	6.41	83	104927	49.278	ug/L	100
37) 1,2-Dichloropropane	6.43	63	66159	51.625	ug/L	100
38) Bromodichloromethane	6.75	83	85623	51.888	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	101173	50.037	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	211366	102.520	ug/L	98
42) Toluene	7.63	91	268337	50.682	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	93025	51.833	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	61871	51.054	ug/L	97
46) Tetrachloroethene	8.22	164	55600	51.183	ug/L	98
48) 2-Hexanone	8.36	43	172662	101.963	ug/L	99
49) Dibromochloromethane	8.47	129	74498	52.888	ug/L	98
50) 1,2-Dibromoethane	8.58	107	69954	51.283	ug/L	99
51) Chlorobenzene	9.12	112	173666	50.912	ug/L	99
52) Ethylbenzene	9.24	91	297409	50.395	ug/L	99
53) m,p-Xylene	9.37	106	112152	49.977	ug/L	99
54) o-xylene	9.77	106	110357	49.530	ug/L	100
55) Styrene	9.79	104	189308	50.894	ug/L	99
56) Isopropylbenzene	10.16	105	295573	50.308	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	107468	51.886	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	85361	51.238	ug/L	99
61) Bromoform	9.95	173	58393	51.400	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	143520	49.786	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	145045	49.214	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	145727	50.000	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	25960	52.940	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	115817	51.638	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	102821	54.114	ug/L	99
69) Naphthalene	13.74	128	311217	51.927	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	106501	53.857	ug/L	99

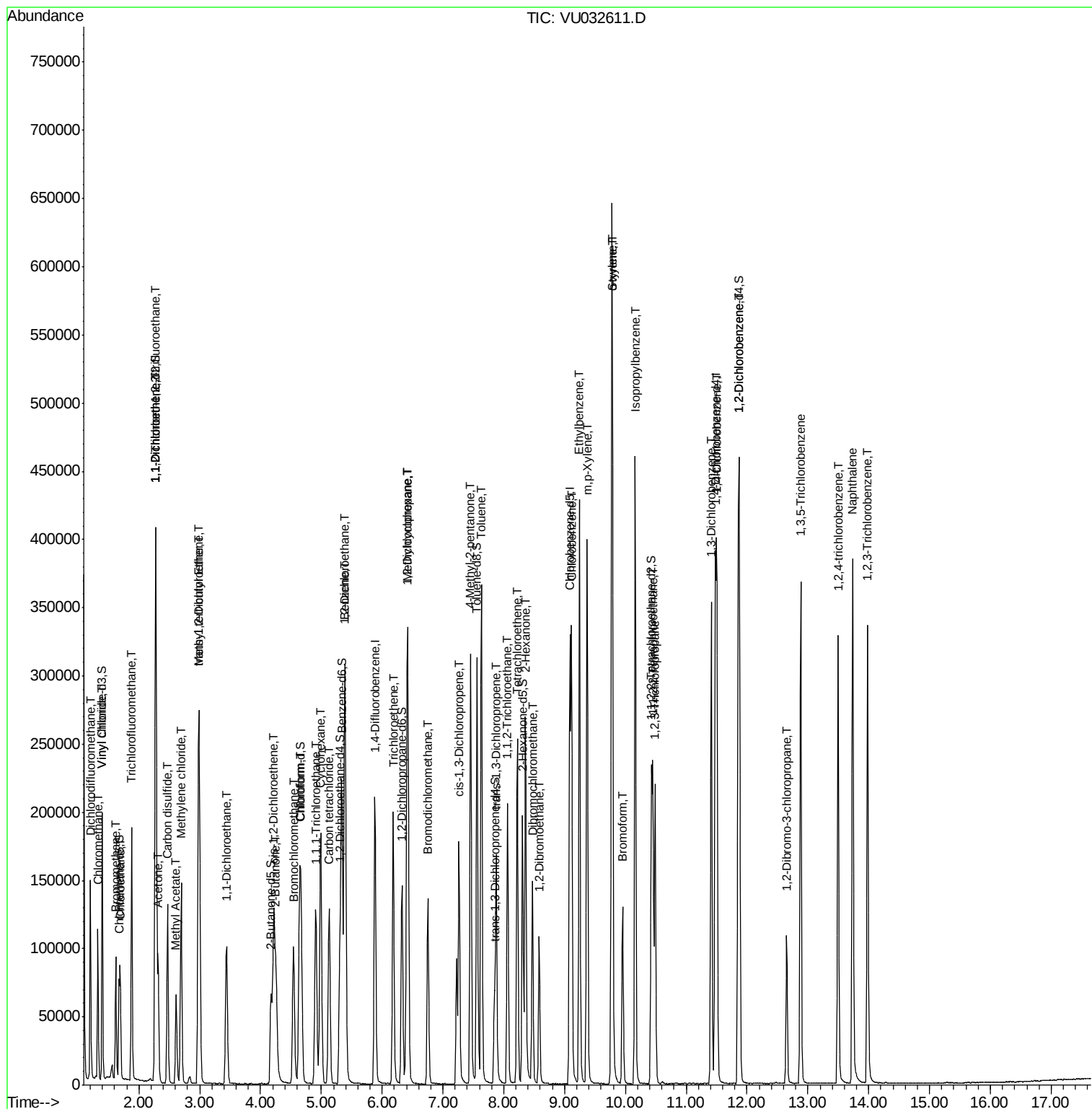
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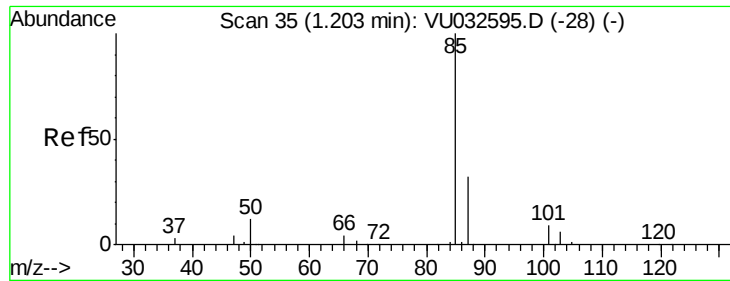
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#2

Dichlorodifluoromethane

Concen: 51.065 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

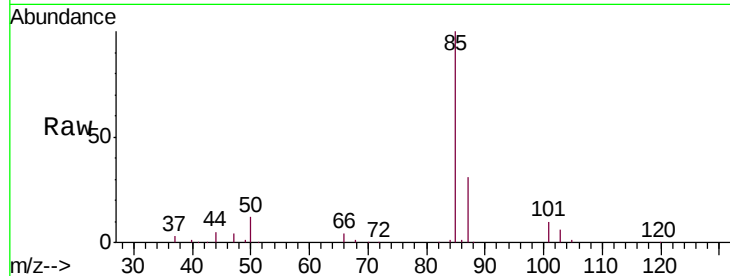
VSTD05044

Tgt Ion: 85 Resp: 82411

Ion Ratio Lower Upper

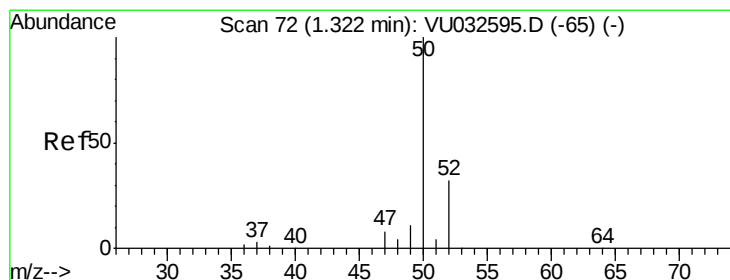
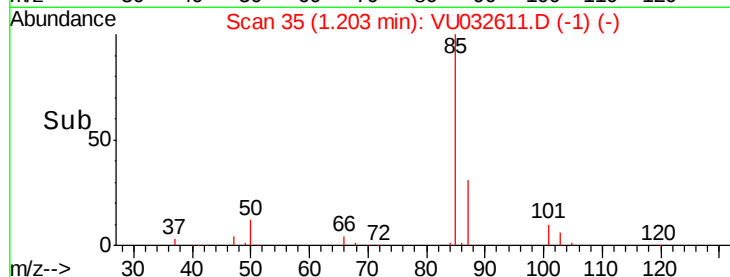
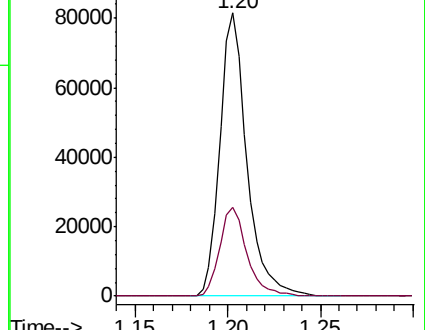
85 100

87 31.8 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU032595.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032595.D (-28) (-)



#3

Chloromethane

Concen: 46.933 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032611.D

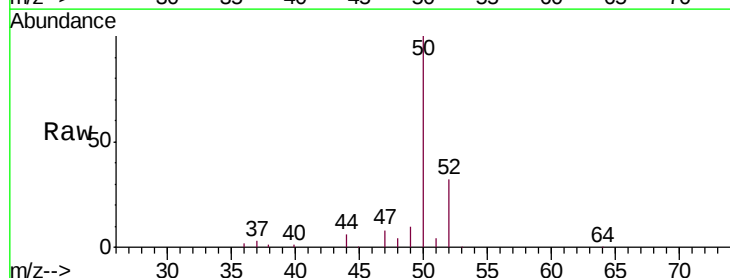
Acq: 11 Jun 2019 15:40

Tgt Ion: 50 Resp: 73189

Ion Ratio Lower Upper

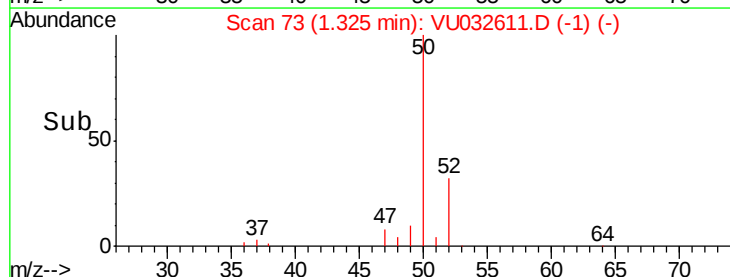
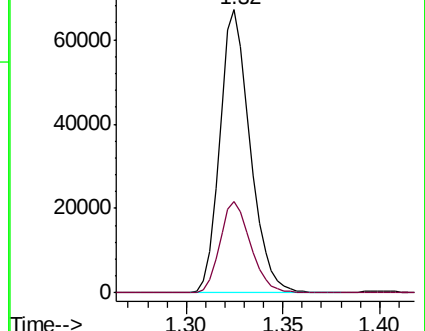
50 100

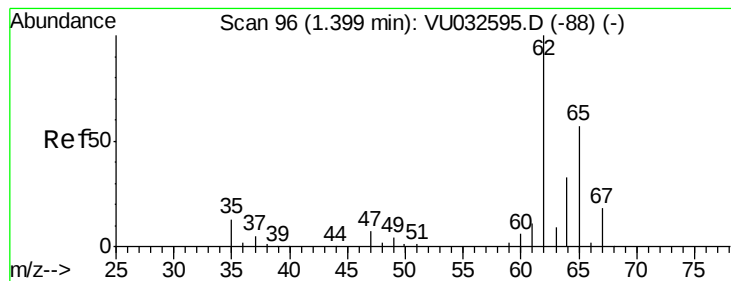
52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032595.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032595.D (-65) (-)





#5

Vinyl chloride

Concen: 47.955 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

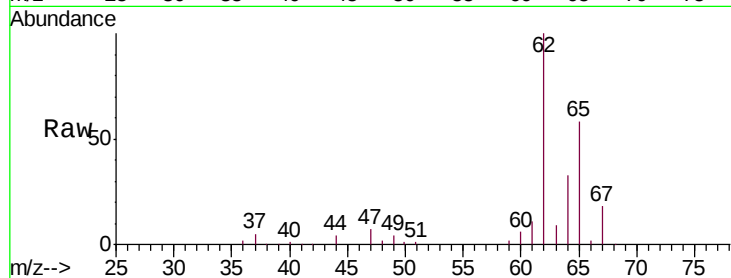
VSTD05044

Tgt Ion: 62 Resp: 74703

Ion Ratio Lower Upper

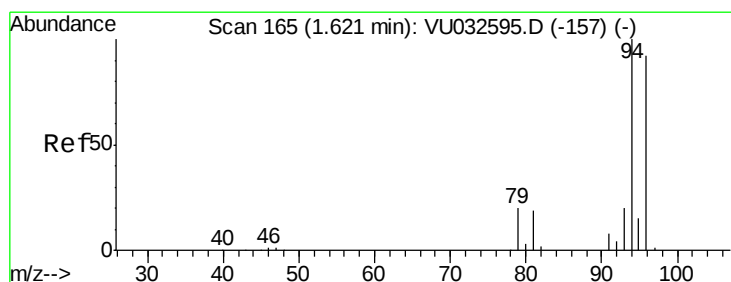
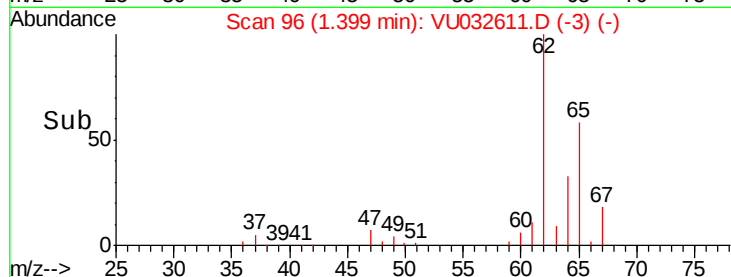
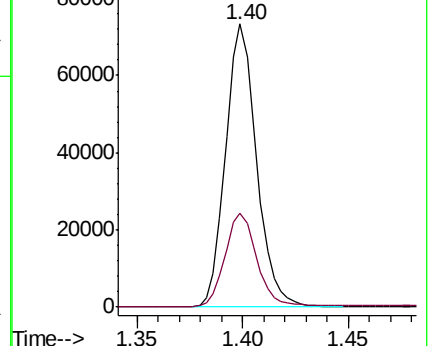
62 100

64 33.4 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU032595.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032595.D (-88) (-)



#6

Bromomethane

Concen: 42.487 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU032611.D

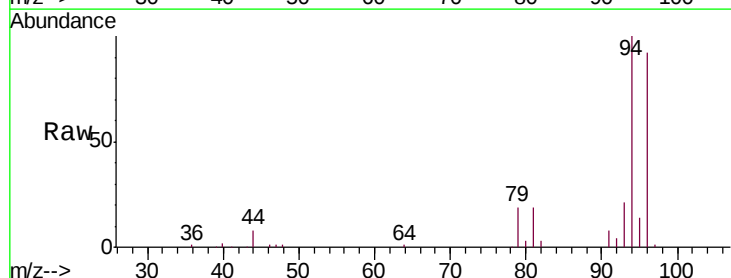
Acq: 11 Jun 2019 15:40

Tgt Ion: 94 Resp: 39441

Ion Ratio Lower Upper

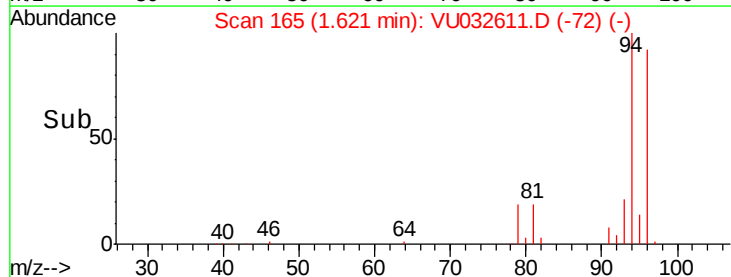
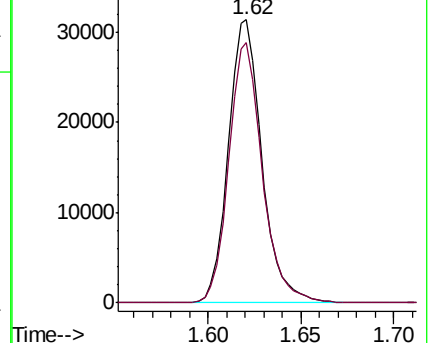
94 100

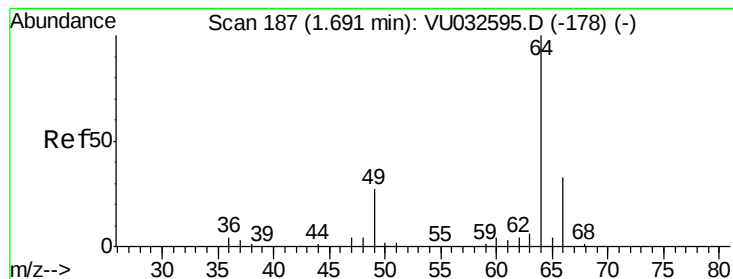
96 91.8 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU032595.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU032595.D (-157) (-)





#8

Chloroethane

Concen: 46.454 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

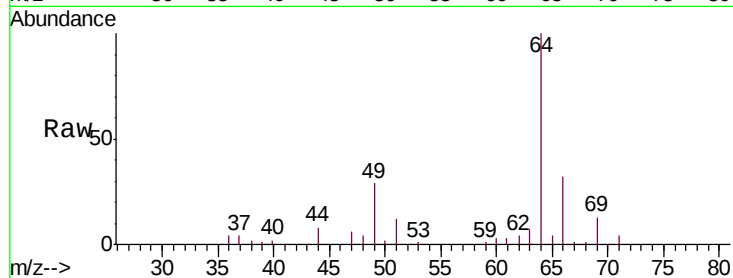
VSTD05044

Tgt Ion: 64 Resp: 43014

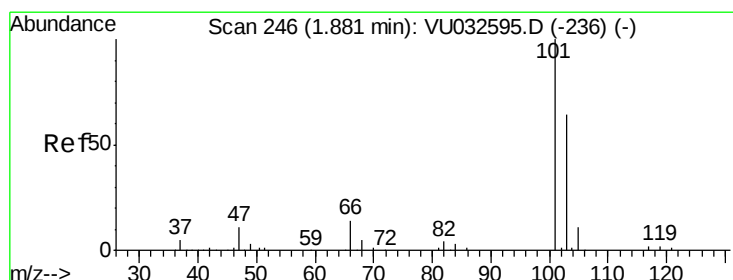
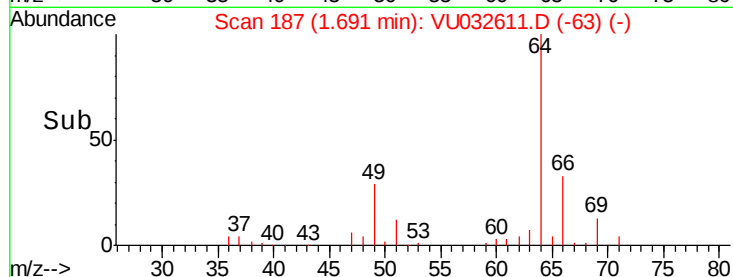
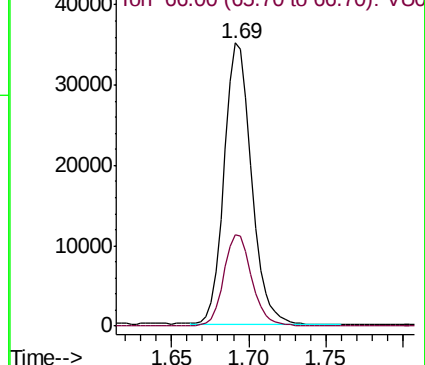
Ion Ratio Lower Upper

64 100

66 32.4 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VU032595.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 51.203 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032611.D

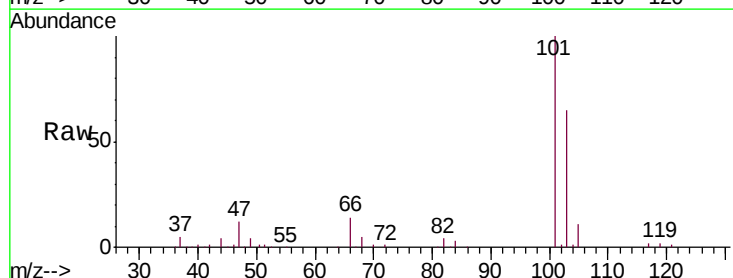
Acq: 11 Jun 2019 15:40

Tgt Ion: 101 Resp: 107705

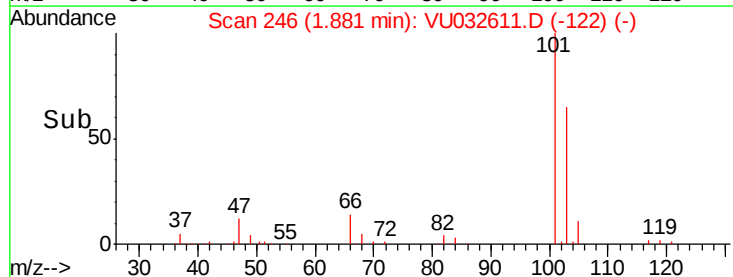
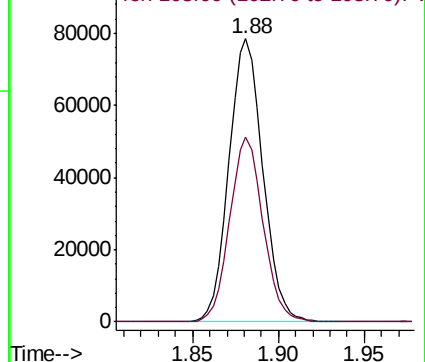
Ion Ratio Lower Upper

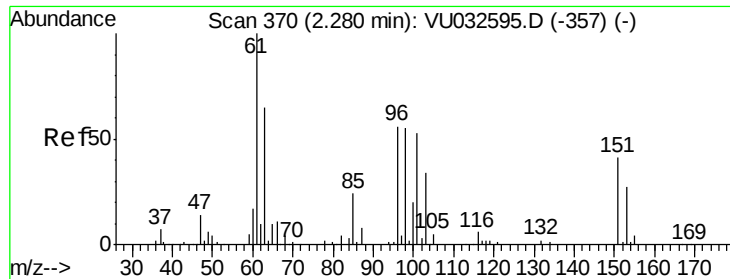
101 100

103 64.2 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032595.D (-236) (-)





#10

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

Concen: 53.556 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

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MSVOA_U

ClientSampleId :

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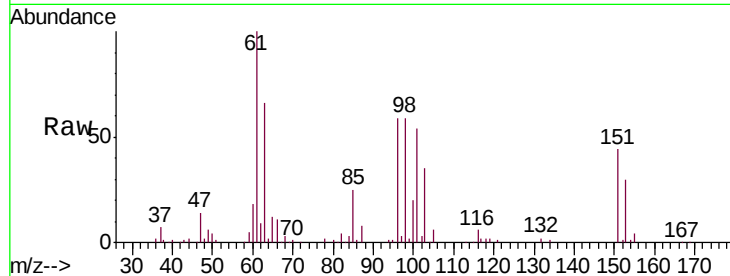
Tgt Ion:101 Resp: 58589

Ion Ratio Lower Upper

101 100

85 45.5 36.1 54.1

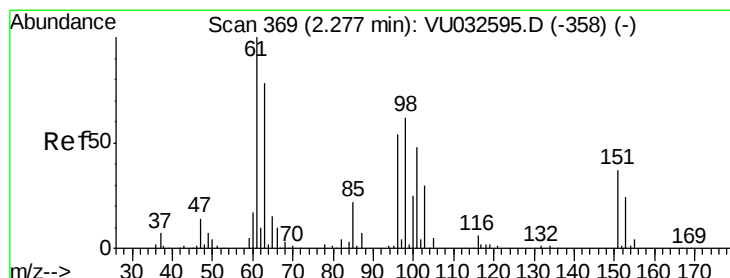
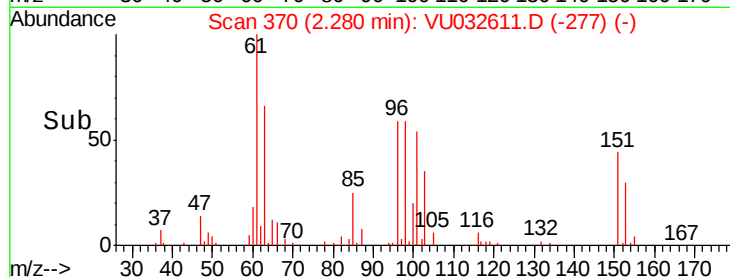
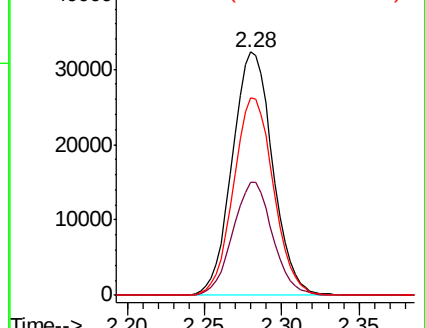
151 80.2 63.0 94.4



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: 51.238 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

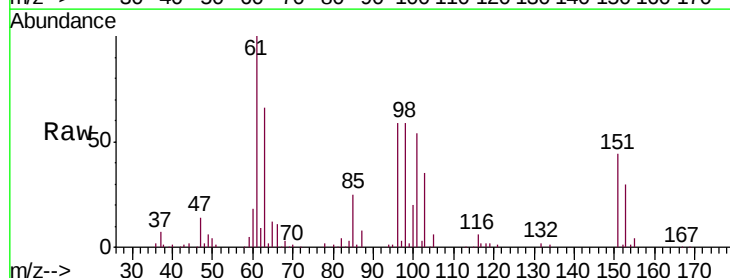
Tgt Ion: 96 Resp: 54426

Ion Ratio Lower Upper

96 100

61 169.5 129.5 240.5

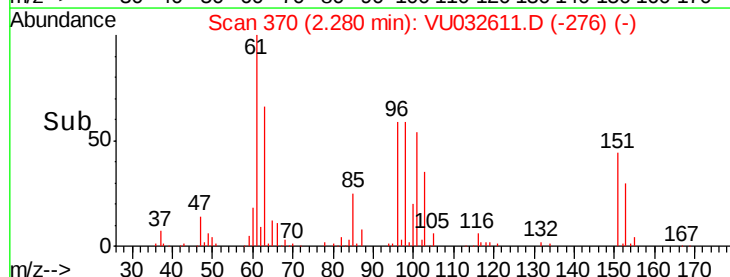
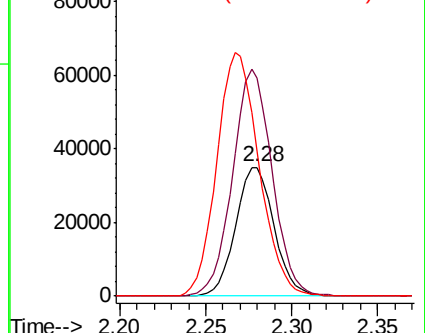
63 112.5 103.4 192.0

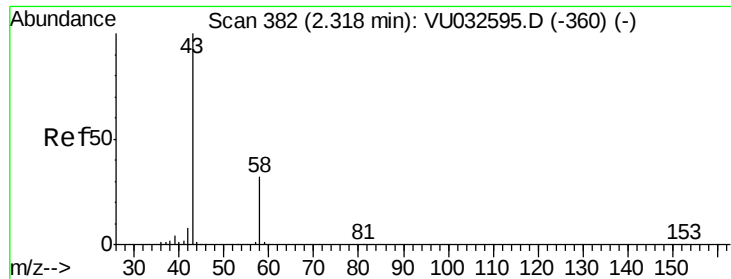


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 87.449 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

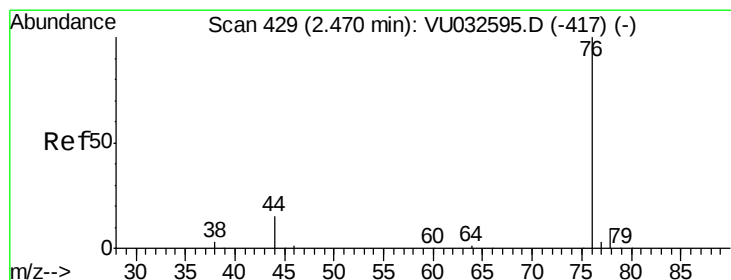
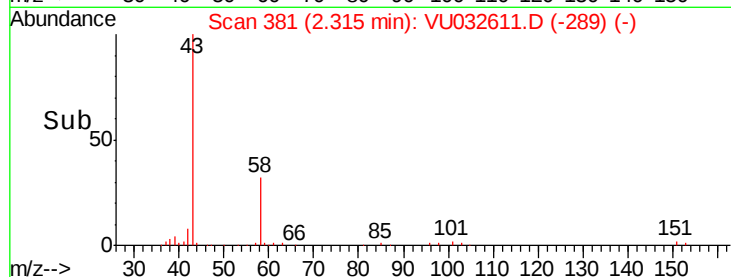
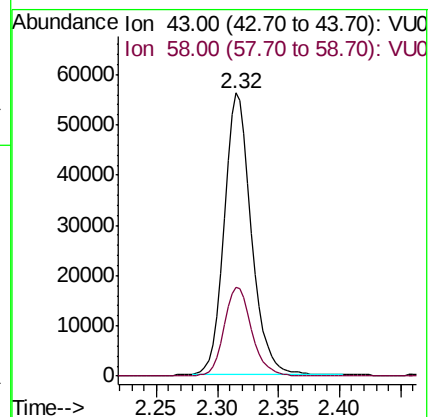
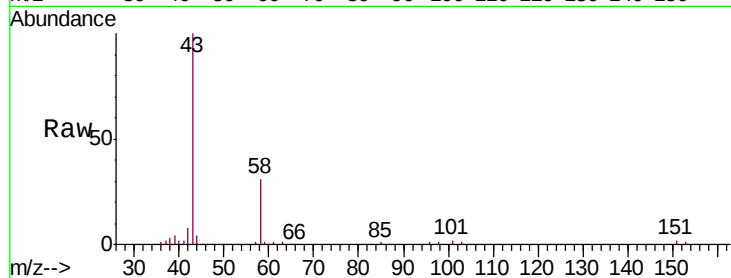
VSTD05044

Tgt Ion: 43 Resp: 87700

Ion Ratio Lower Upper

43 100

58 32.2 0.0 64.0



#14

Carbon disulfide

Concen: 48.468 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032611.D

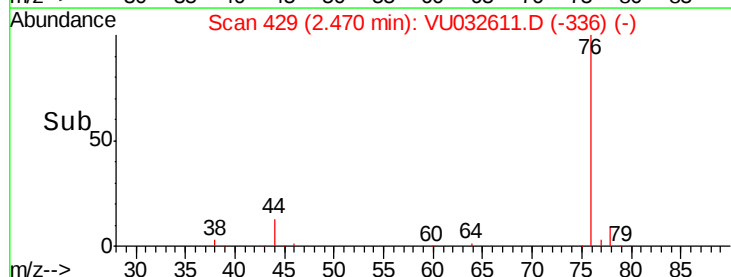
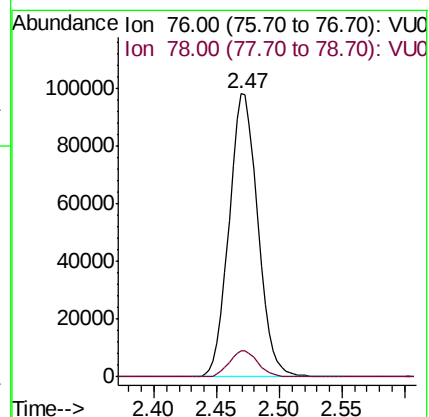
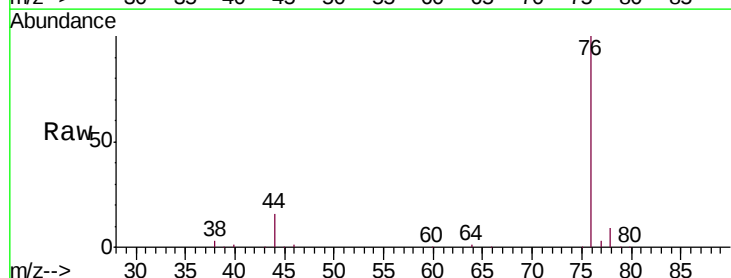
Acq: 11 Jun 2019 15:40

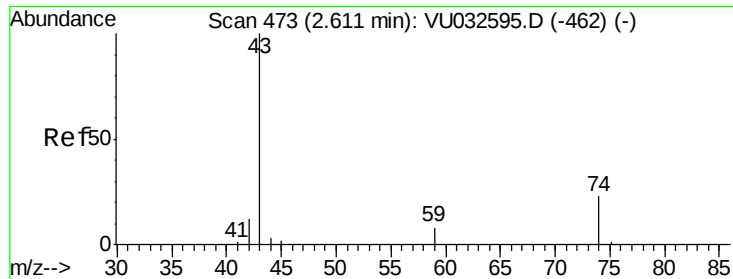
Tgt Ion: 76 Resp: 156429

Ion Ratio Lower Upper

76 100

78 9.1 7.6 11.4

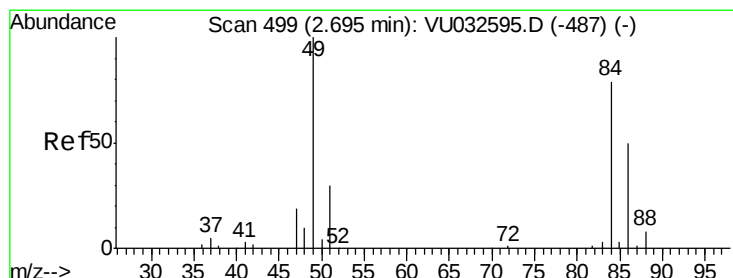
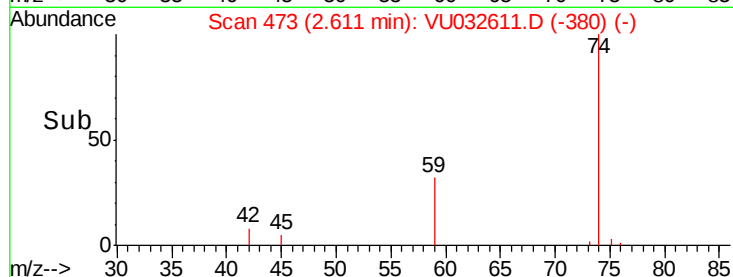
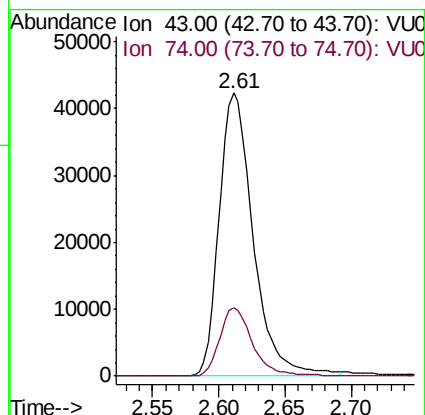
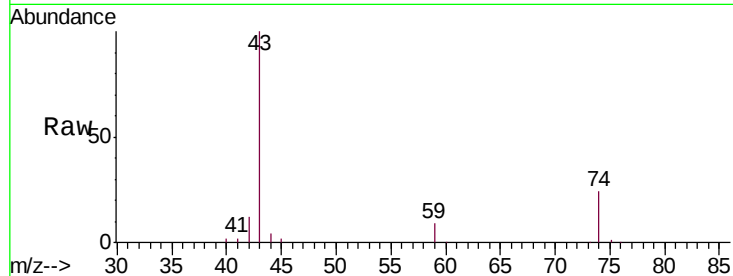




#15
Methyl Acetate
Concen: 52.287 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

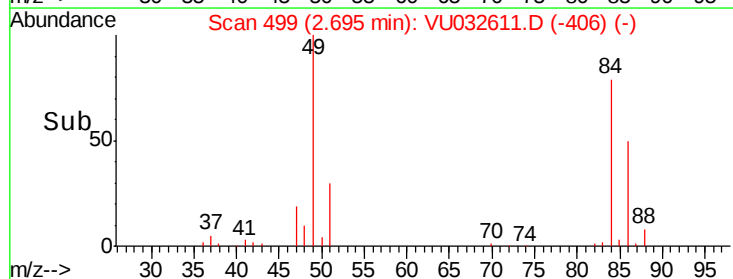
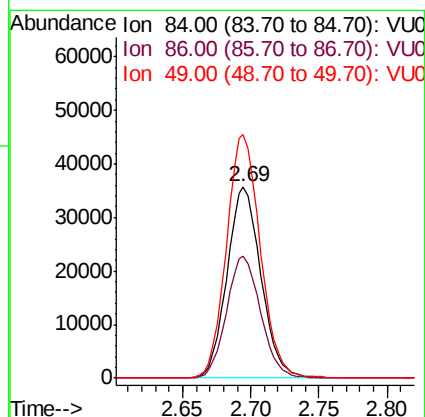
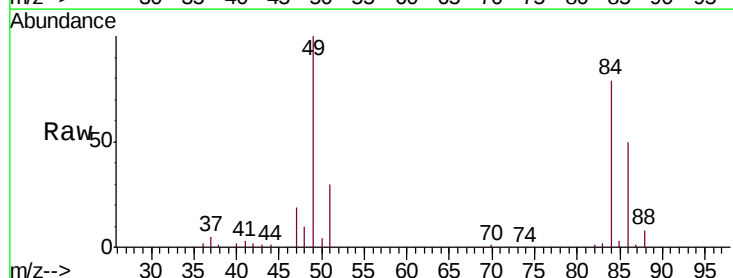
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

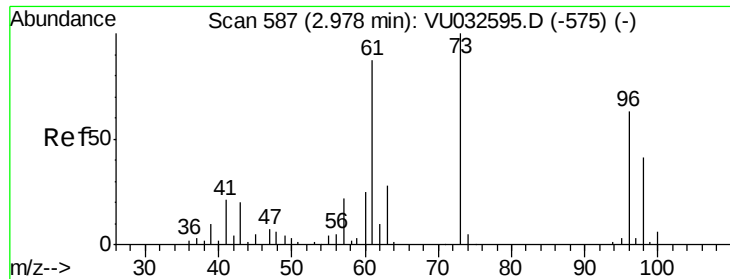
Tgt Ion: 43 Resp: 74867
Ion Ratio Lower Upper
43 100
74 23.7 18.0 27.0



#16
Methylene chloride
Concen: 51.037 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

Tgt Ion: 84 Resp: 61859
Ion Ratio Lower Upper
84 100
86 63.7 44.7 82.9
49 127.2 86.1 159.9





#17

trans-1,2-Dichloroethene

Concen: 49.930 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

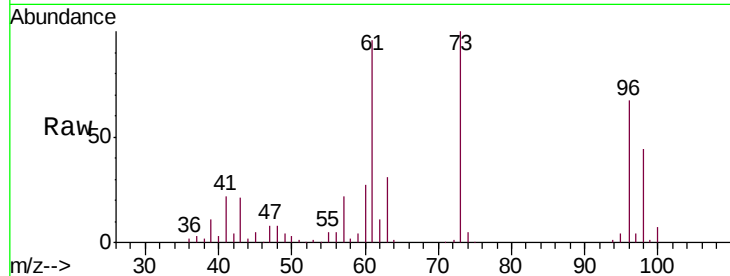
Tgt Ion: 96 Resp: 57473

Ion Ratio Lower Upper

96 100

61 143.6 95.7 177.7

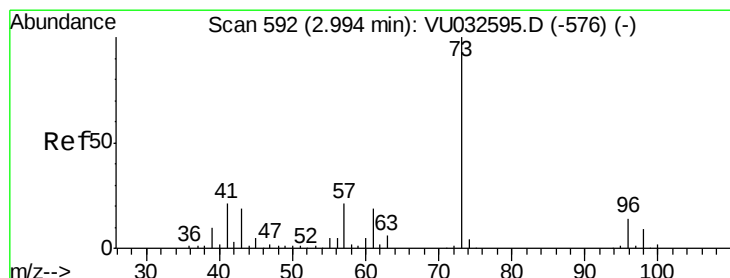
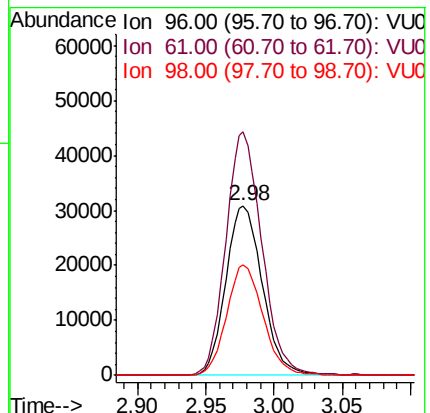
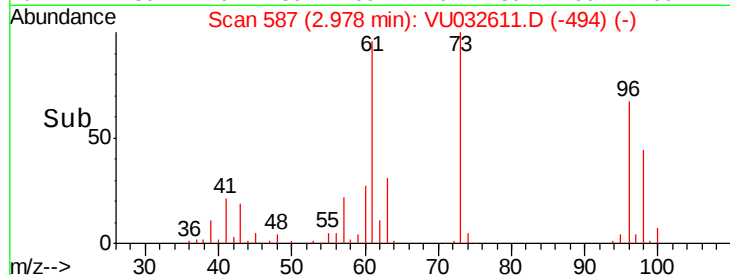
98 65.4 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU032611.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032611.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032611.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 50.644 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

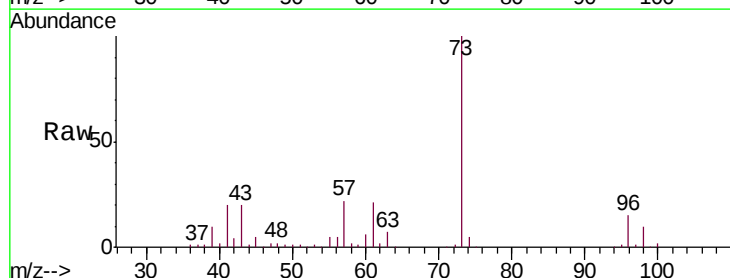
Tgt Ion: 73 Resp: 191513

Ion Ratio Lower Upper

73 100

43 20.5 15.8 23.6

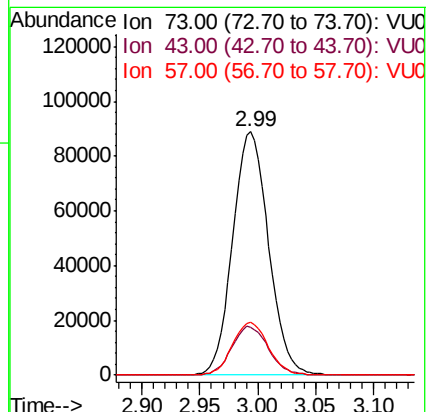
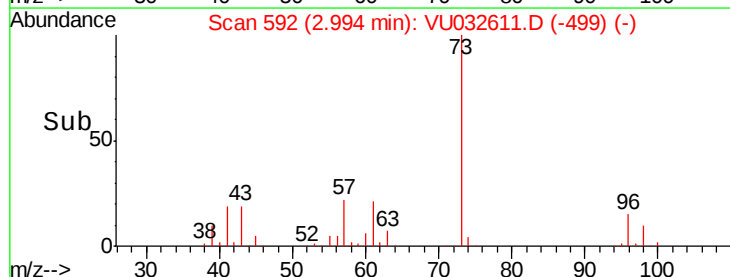
57 21.7 17.6 26.4

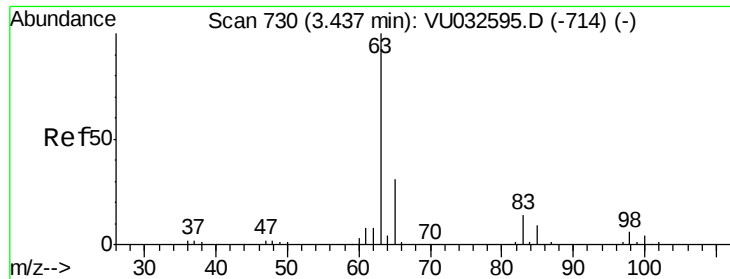


Abundance Ion 73.00 (72.70 to 73.70): VU032611.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU032611.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU032611.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 51.423 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

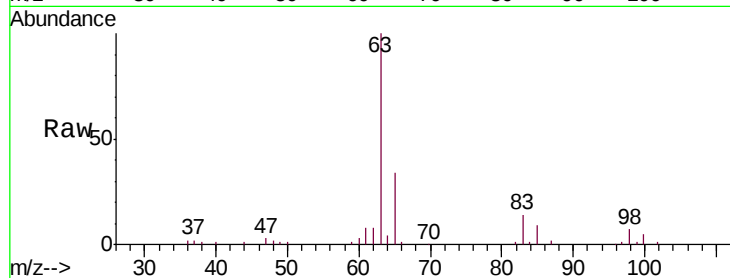
Tgt Ion: 63 Resp: 107905

Ion Ratio Lower Upper

63 100

65 34.1 21.8 40.6

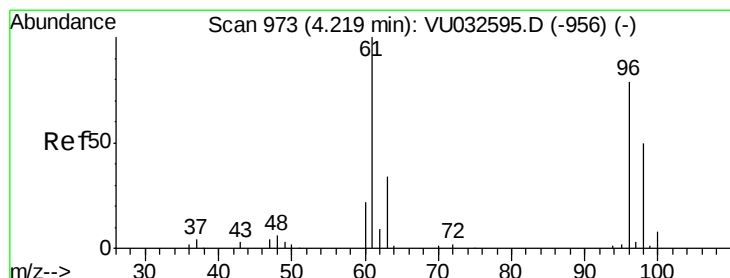
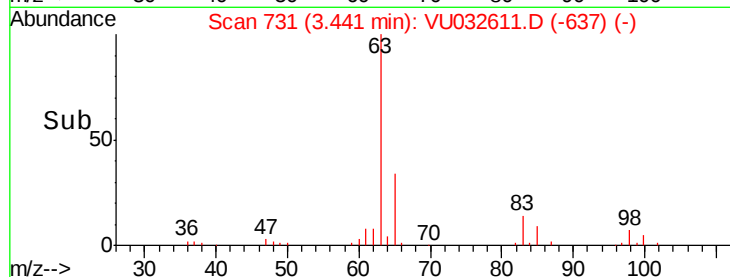
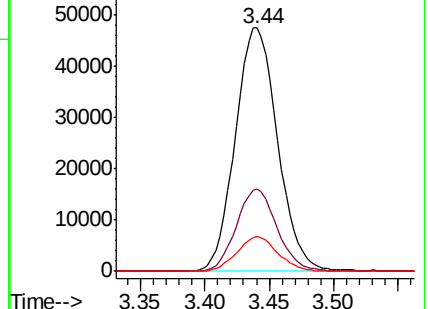
83 14.2 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU032595.D (-714) (-)

Ion 65.00 (64.70 to 65.70): VU032595.D (-714) (-)

Ion 83.00 (82.70 to 83.70): VU032595.D (-714) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.979 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

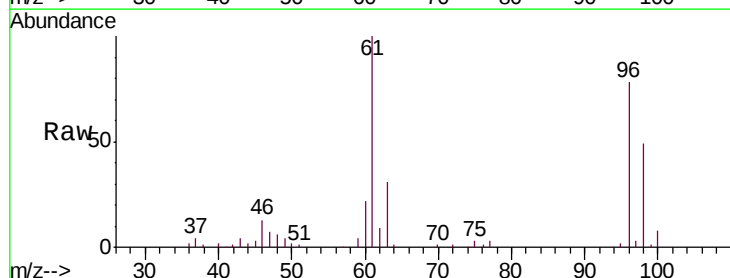
Tgt Ion: 96 Resp: 65107

Ion Ratio Lower Upper

96 100

61 129.0 87.2 162.0

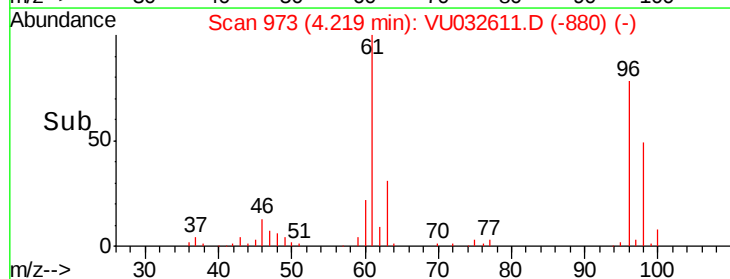
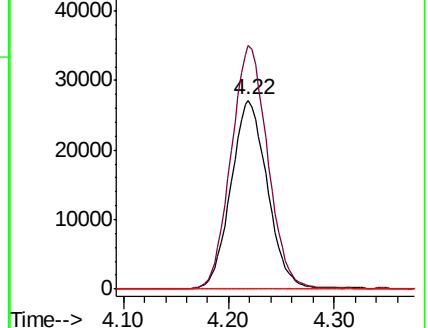
68 0.0 0.0 0.0

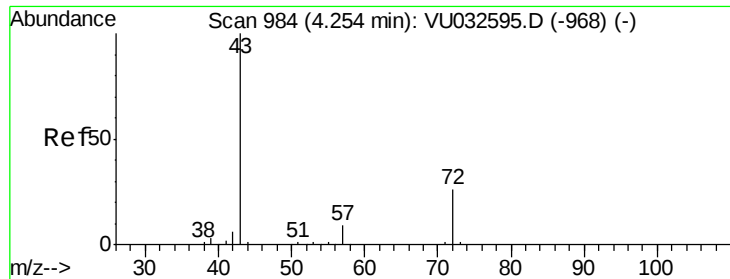


Abundance Ion 96.00 (95.70 to 96.70): VU032595.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU032595.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU032595.D (-956) (-)





#22

2-Butanone

Concen: 99.376 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

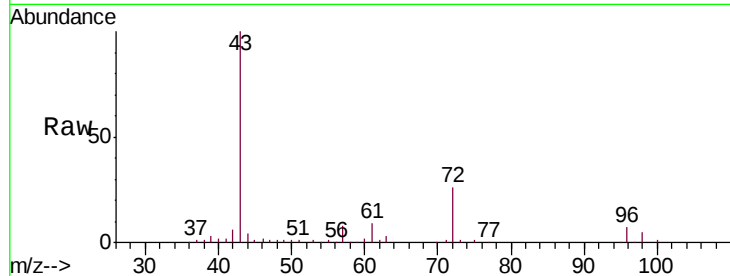
VSTD05044

Tgt Ion: 43 Resp: 117789

Ion Ratio Lower Upper

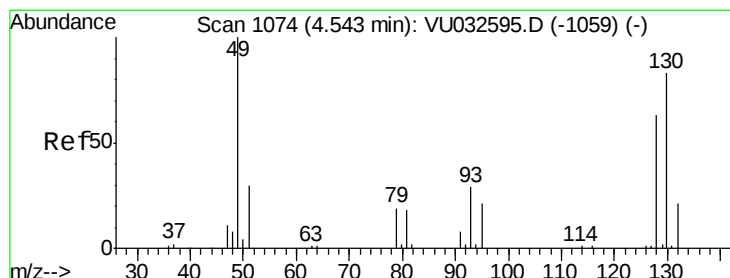
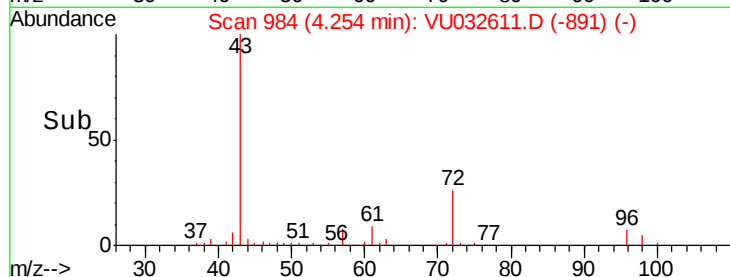
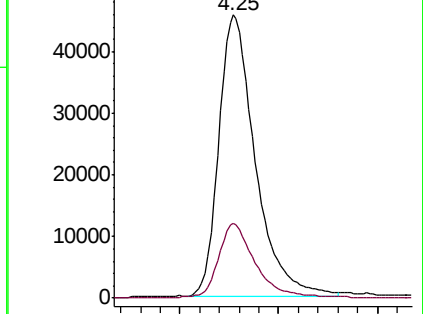
43 100

72 26.8 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032595.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU032595.D (-968) (-)



#23

Bromochloromethane

Concen: 50.960 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Tgt Ion: 128 Resp: 34517

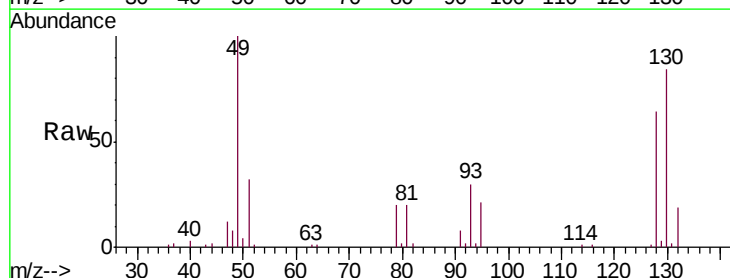
Ion Ratio Lower Upper

128 100

49 156.4 103.7 192.5

130 132.1 92.2 171.2

51 50.6 37.7 56.5

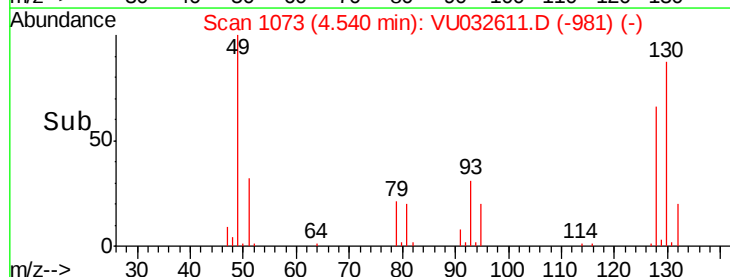
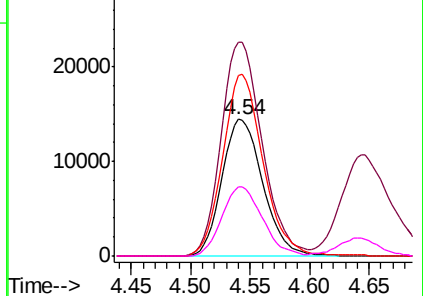


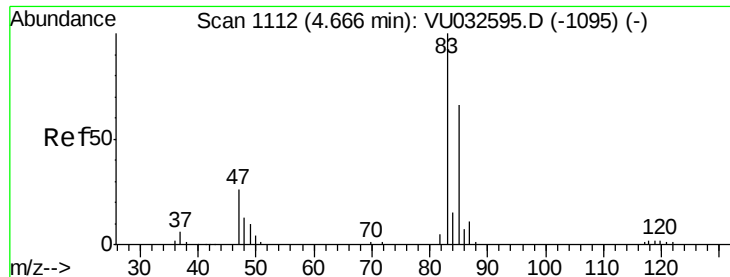
Abundance Ion 128.00 (127.70 to 128.70): VU032595.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032595.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032595.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032595.D (-1059) (-)

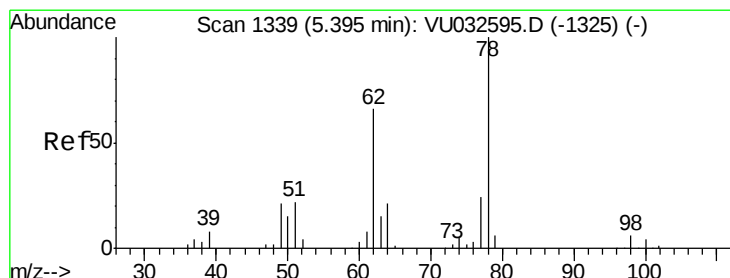
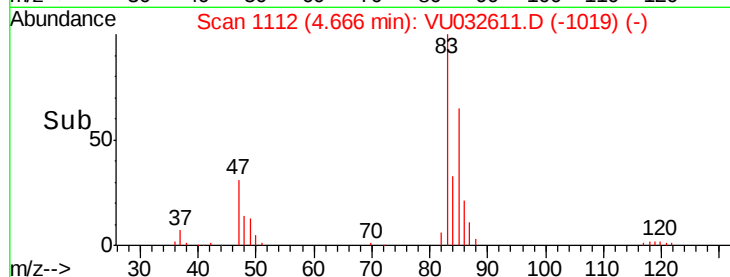
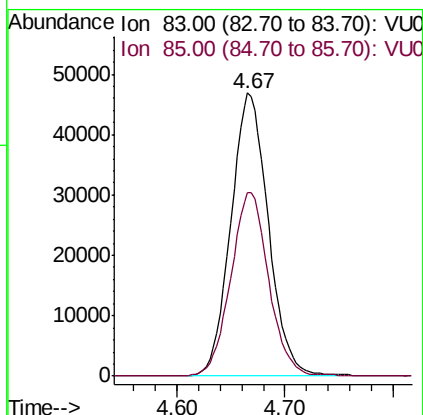
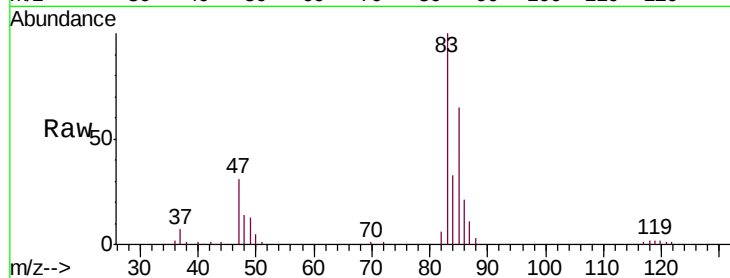




#25
Chloroform
Concen: 52.293 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

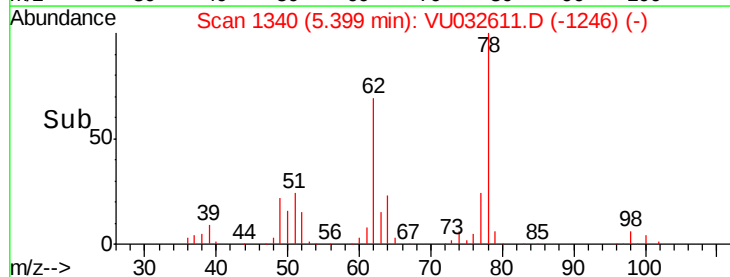
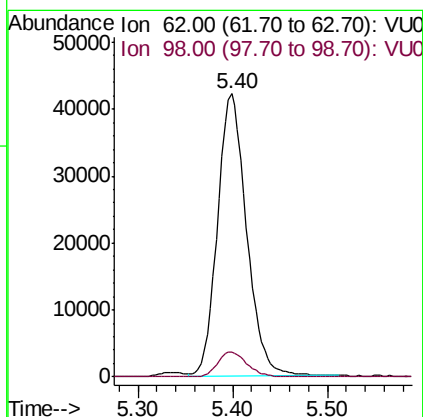
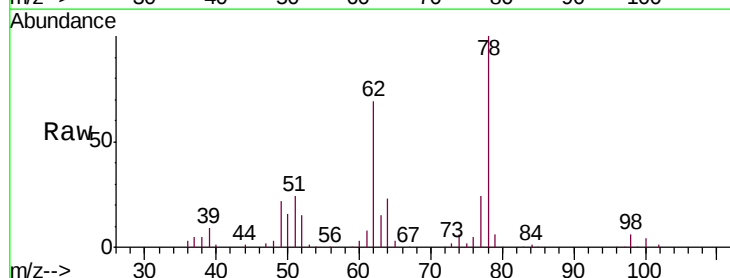
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

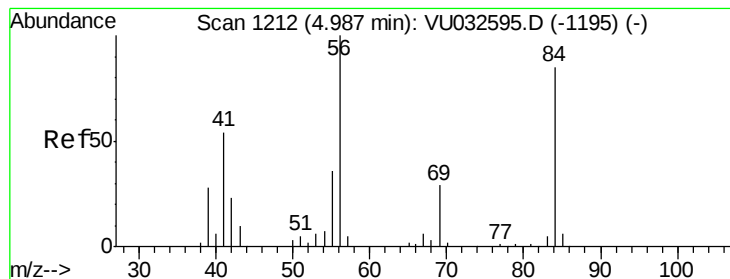
Tgt Ion: 83 Resp: 113237
Ion Ratio Lower Upper
83 100
85 64.7 44.7 82.9



#27
1,2-Dichloroethane
Concen: 52.830 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

Tgt Ion: 62 Resp: 90437
Ion Ratio Lower Upper
62 100
98 8.6 7.2 10.8





#29

Cyclohexane

Concen: 48.756 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

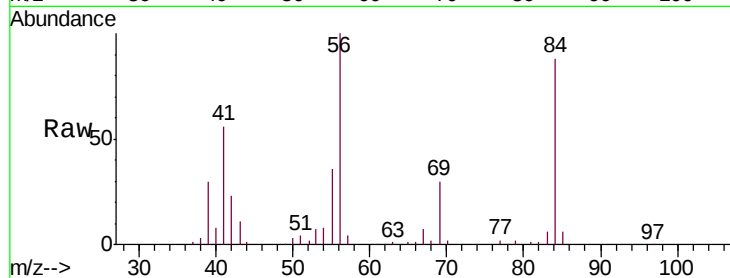
Tgt Ion: 56 Resp: 99784

Ion Ratio Lower Upper

56 100

69 30.0 24.7 37.1

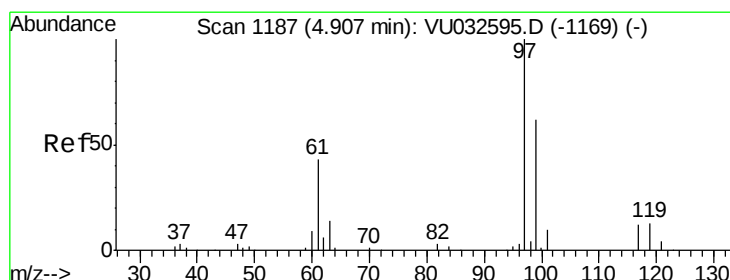
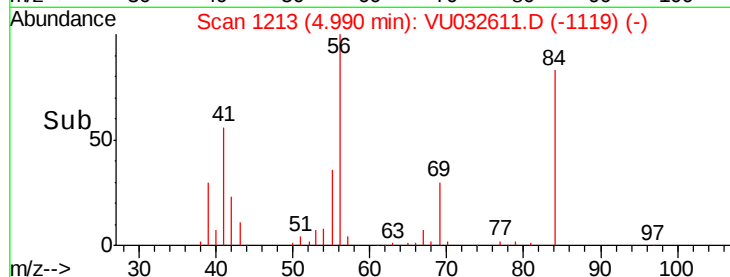
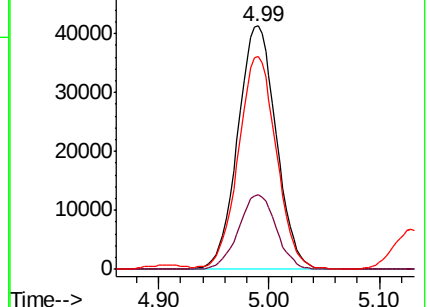
84 86.5 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VU032595.D (-1195) (-)

Ion 69.00 (68.70 to 69.70): VU032595.D (-1195) (-)

Ion 84.00 (83.70 to 84.70): VU032595.D (-1195) (-)



#30

1,1,1-Trichloroethane

Concen: 51.224 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

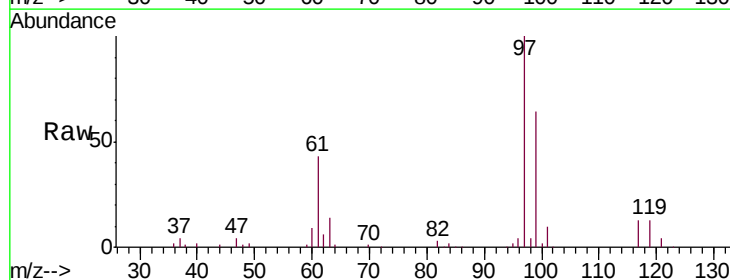
Tgt Ion: 97 Resp: 99775

Ion Ratio Lower Upper

97 100

99 63.8 50.5 75.7

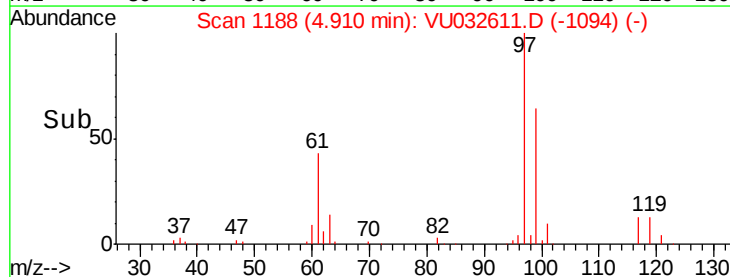
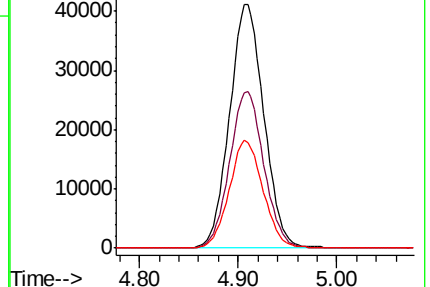
61 43.6 33.8 50.6

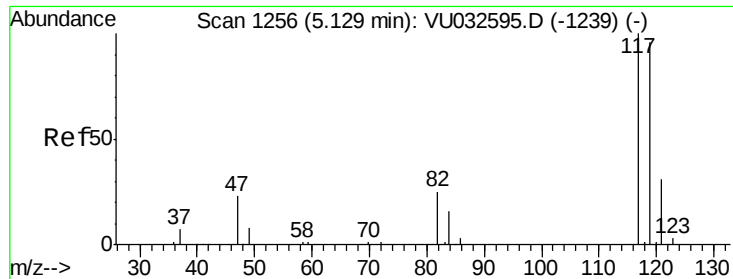


Abundance Ion 97.00 (96.70 to 97.70): VU032595.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032595.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032595.D (-1169) (-)





#31

Carbon tetrachloride

Concen: 51.632 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

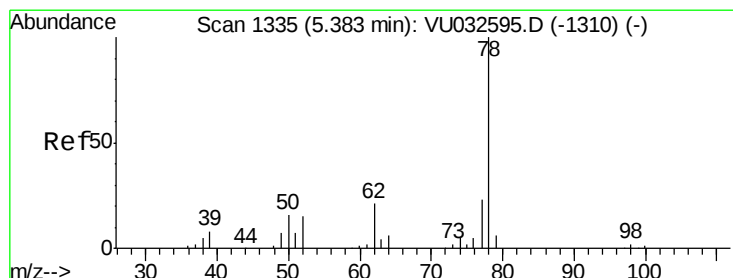
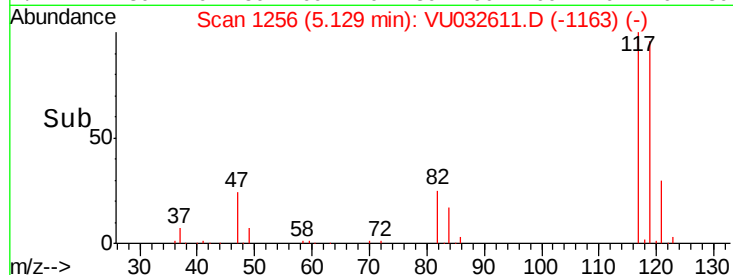
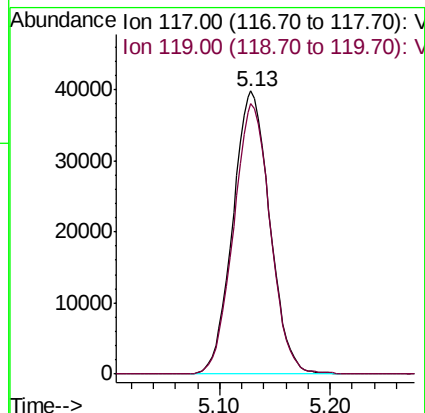
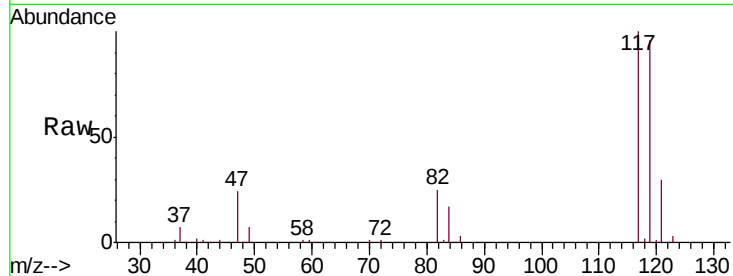
VSTD05044

Tgt Ion:117 Resp: 92175

Ion Ratio Lower Upper

117 100

119 95.3 76.6 114.8



#33

Benzene

Concen: 49.802 ug/L

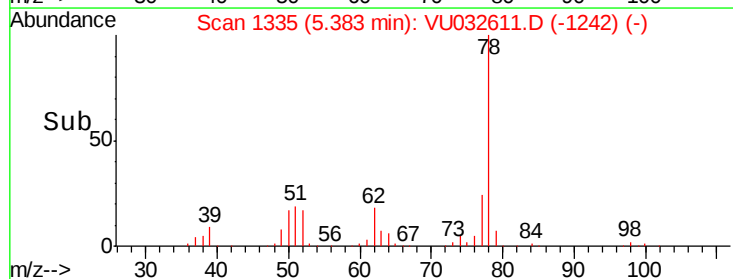
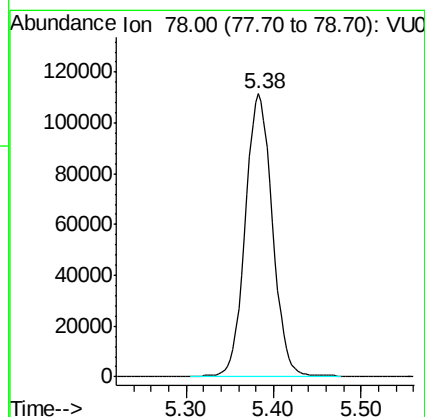
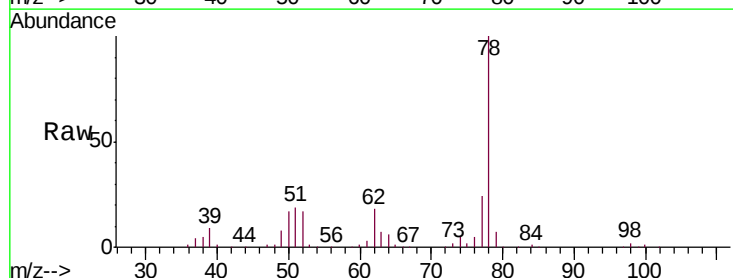
RT: 5.38 min Scan# 1335

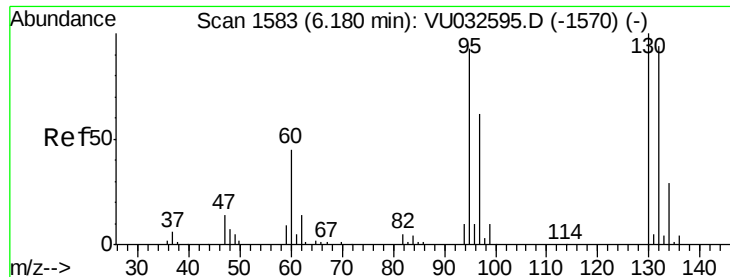
Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Tgt Ion: 78 Resp: 240763





#34

Trichloroethene

Concen: 50.249 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 95 Resp: 66091

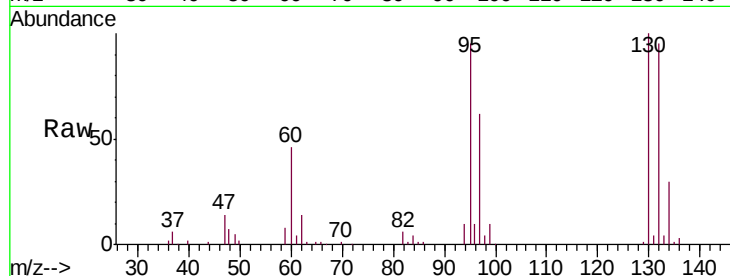
Ion Ratio Lower Upper

95 100

97 65.9 45.8 85.2

132 99.8 71.0 131.8

130 105.6 73.4 136.2

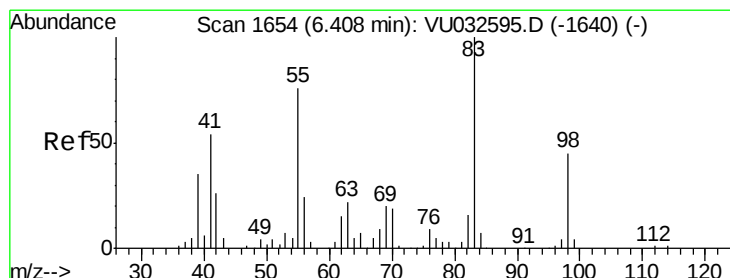
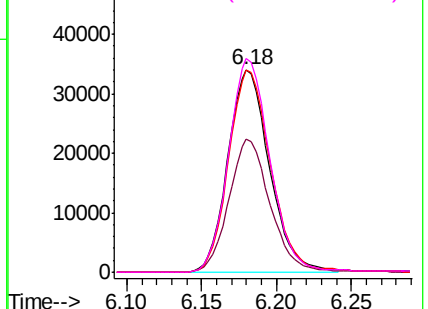
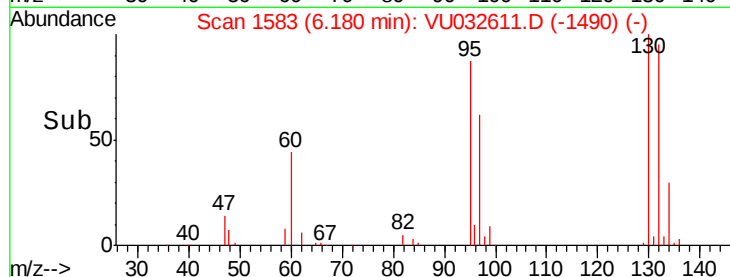


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 49.278 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

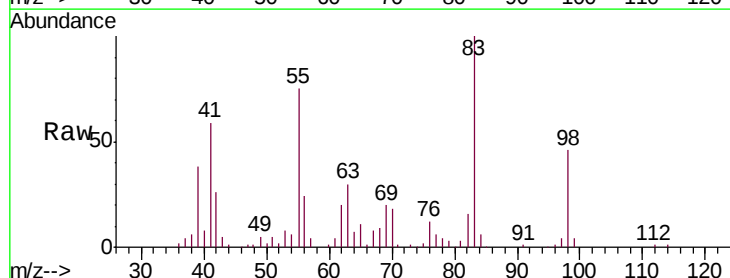
Tgt Ion: 83 Resp: 104927

Ion Ratio Lower Upper

83 100

55 75.2 60.2 90.4

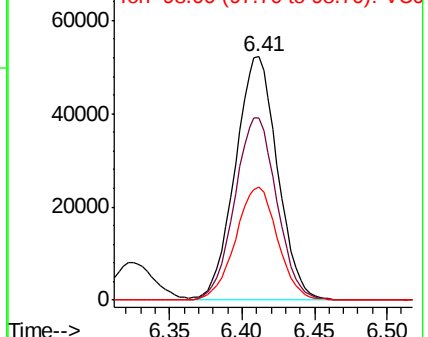
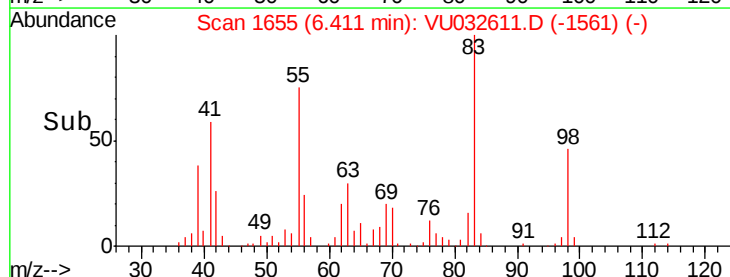
98 46.6 37.4 56.2

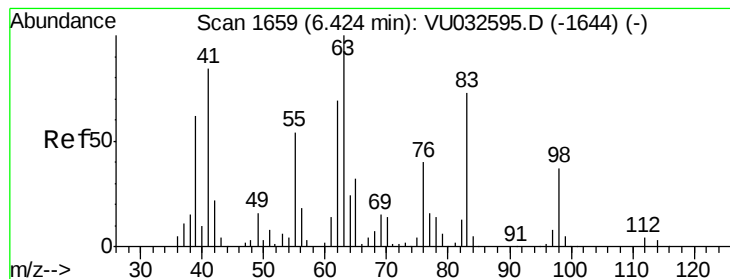


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.625 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

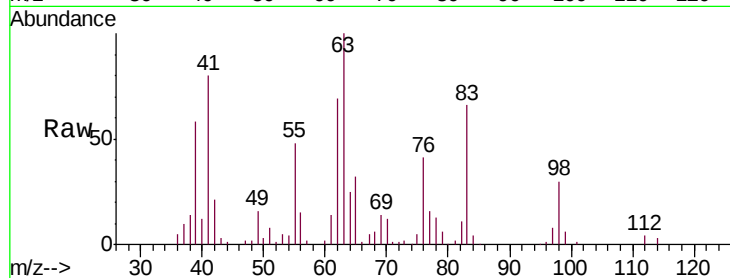
VSTD05044

Tgt Ion: 63 Resp: 66159

Ion Ratio Lower Upper

63 100

112 3.9 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU032595.D (-1644) (-)

Ion 112.00 (111.70 to 112.70): VU032595.D (-1644) (-)

6.43

30000

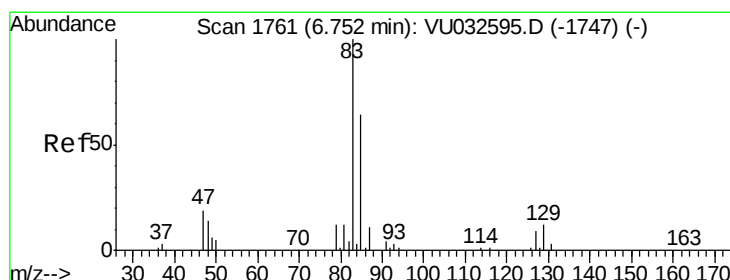
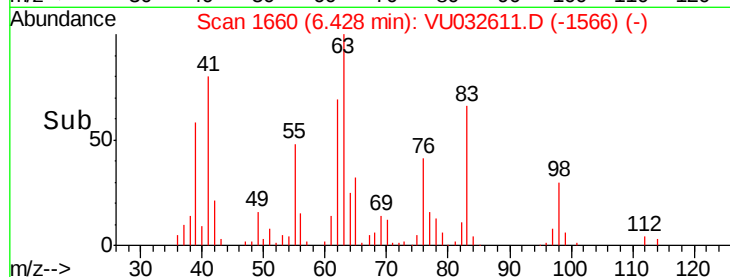
20000

10000

0

6.40 6.50

Time-->



#38

Bromodichloromethane

Concen: 51.888 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

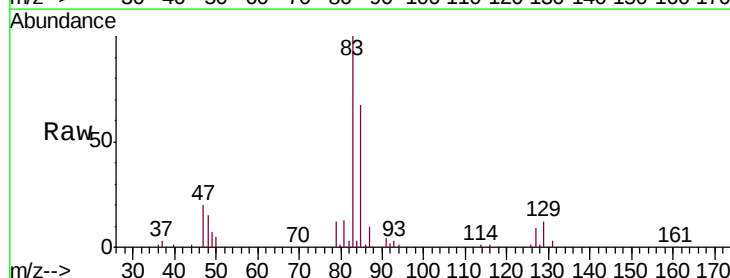
Tgt Ion: 83 Resp: 85623

Ion Ratio Lower Upper

83 100

85 66.9 45.4 84.4

127 9.3 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VU032595.D (-1747) (-)

Ion 85.00 (84.70 to 85.70): VU032595.D (-1747) (-)

Ion 127.00 (126.70 to 127.70): VU032595.D (-1747) (-)

6.75

60000

50000

40000

30000

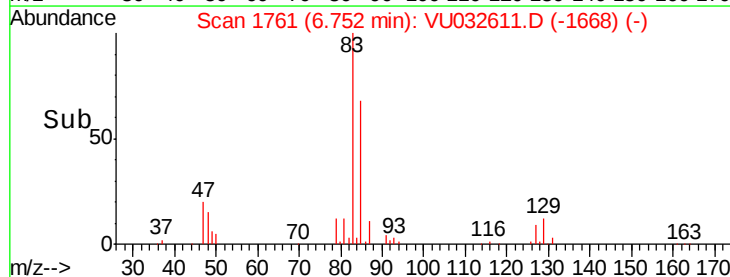
20000

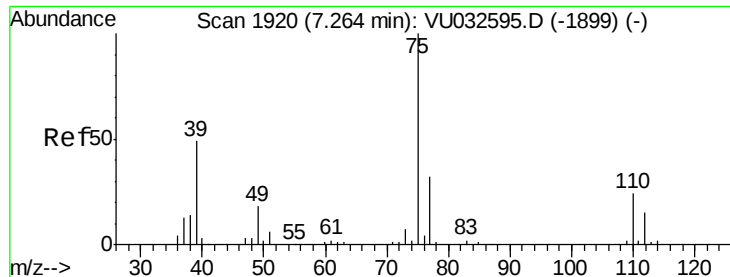
10000

0

6.70 6.75 6.80 6.85

Time-->

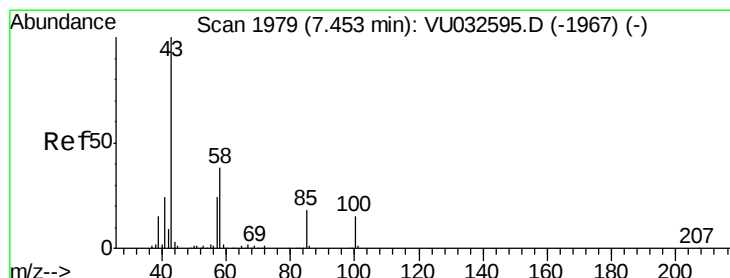
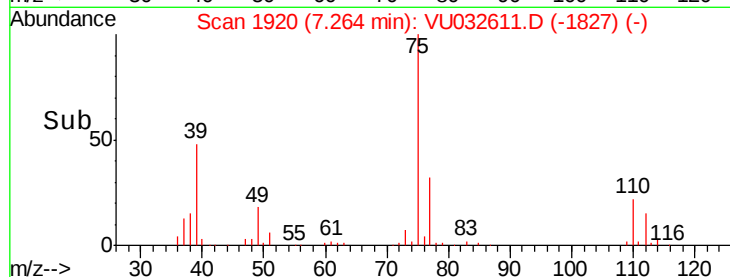
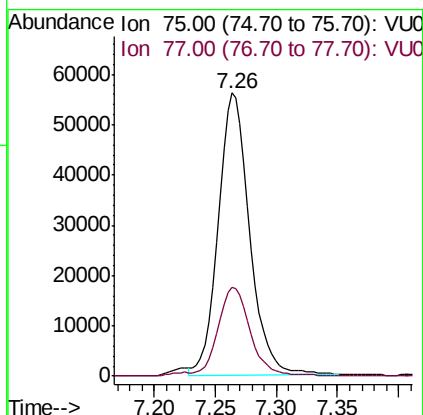
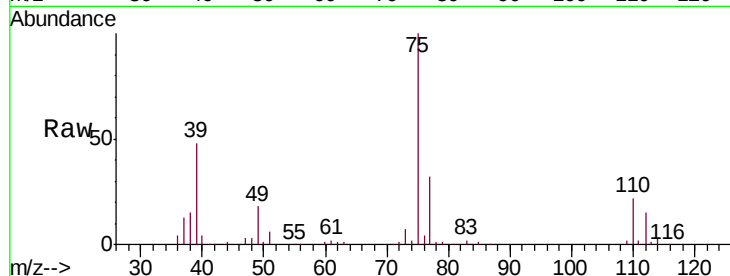




#39
 cis-1,3-Dichloropropene
 Concen: 50.037 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

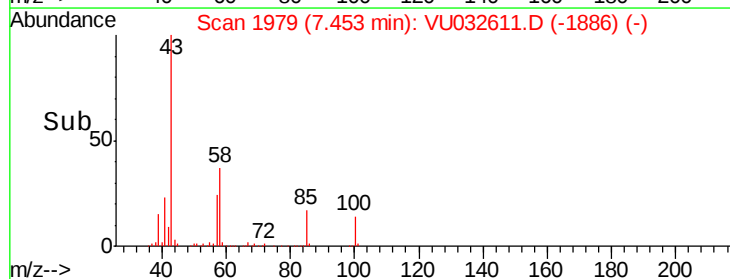
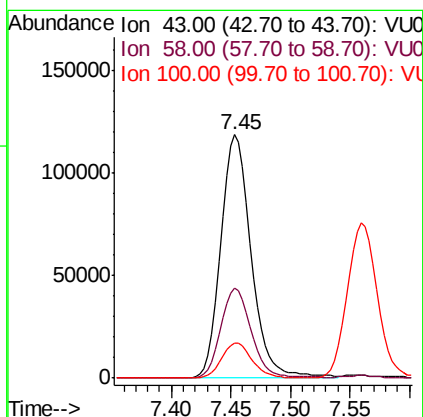
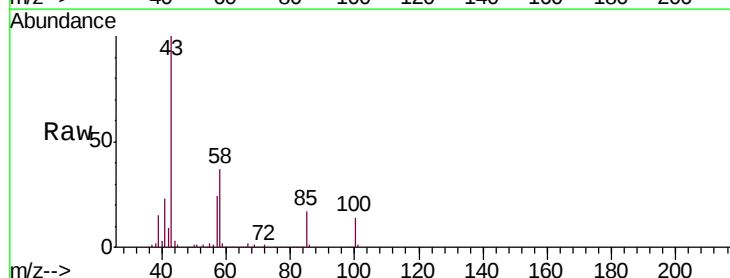
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

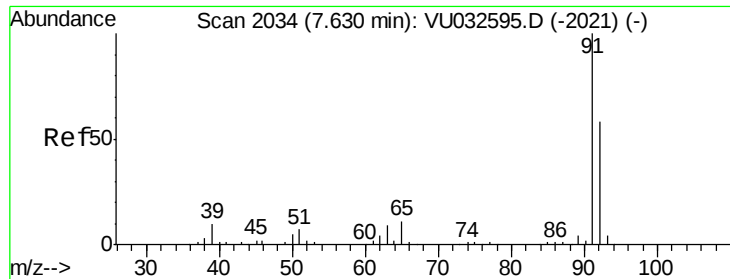
Tgt Ion: 75 Resp: 101173
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 102.520 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Tgt Ion: 43 Resp: 211366
 Ion Ratio Lower Upper
 43 100
 58 36.9 30.8 46.2
 100 14.5 12.1 18.1





#42

Toluene

Concen: 50.682 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

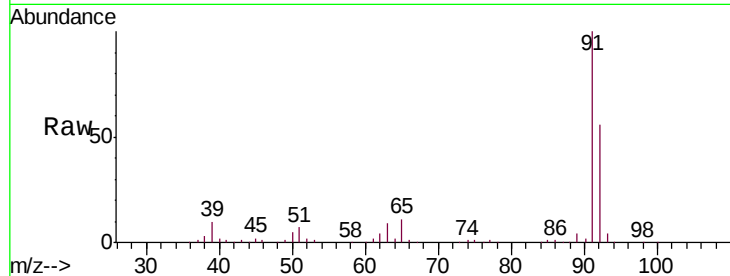
VSTD05044

Tgt Ion: 91 Resp: 268337

Ion Ratio Lower Upper

91 100

92 56.1 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032595.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032595.D (-2021) (-)

7.63

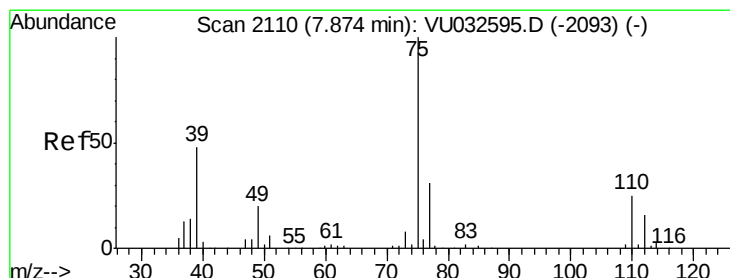
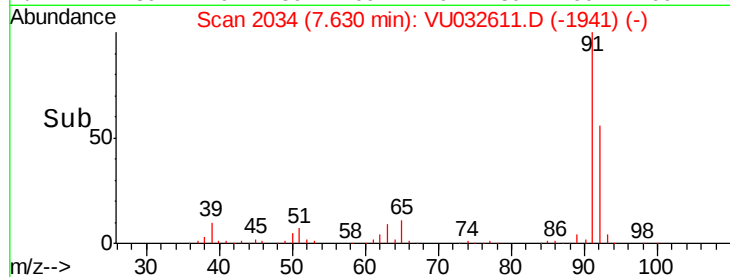
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.833 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032611.D

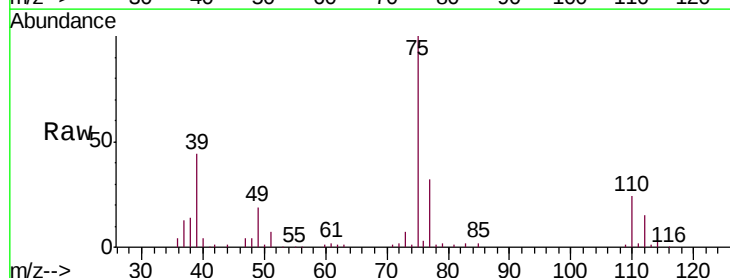
Acq: 11 Jun 2019 15:40

Tgt Ion: 75 Resp: 93025

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU032595.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU032595.D (-2093) (-)

7.87

60000

50000

40000

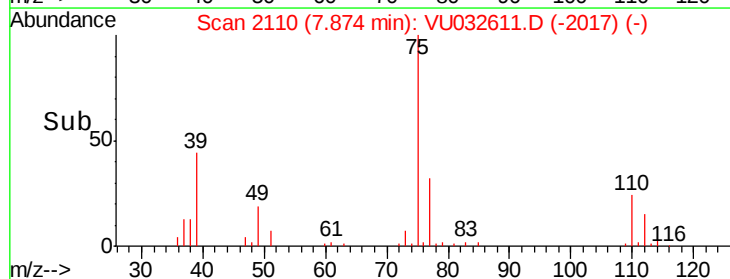
30000

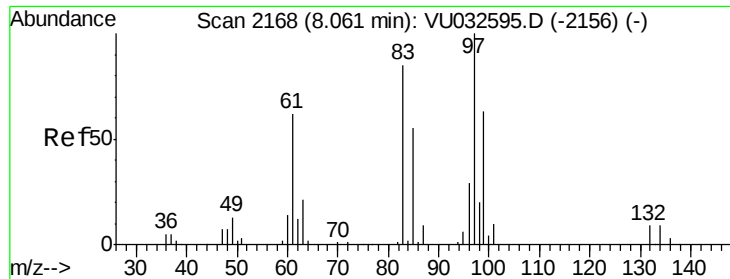
20000

10000

0

Time-->

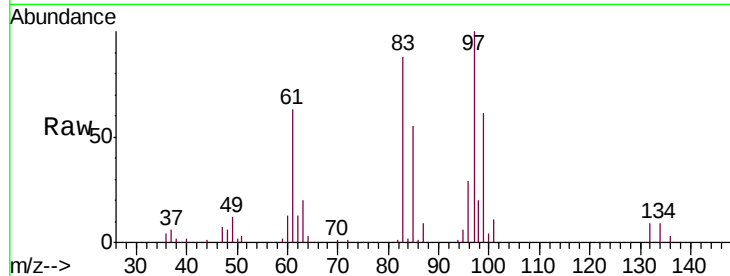




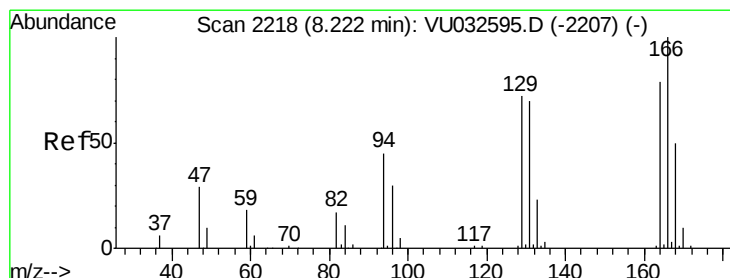
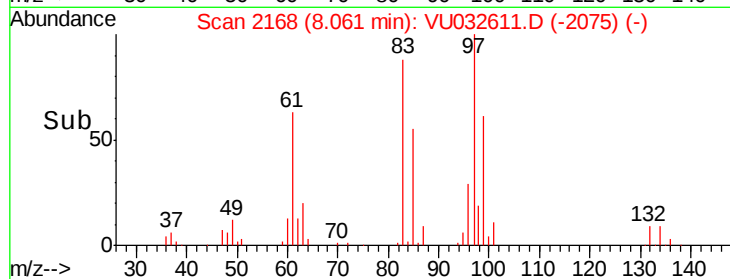
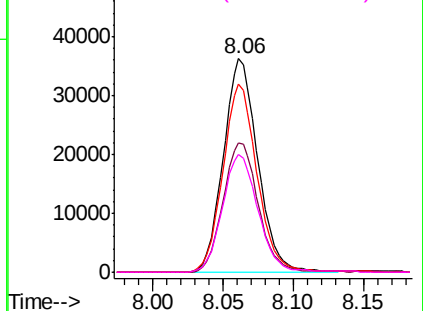
#45
 1,1,2-Trichloroethane
 Concen: 51.054 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:	97	Resp:	61871
Ion	Ratio	Lower	Upper
97	100		
99	60.6	44.1	81.9
83	87.9	59.4	110.2
85	55.2	39.1	72.7

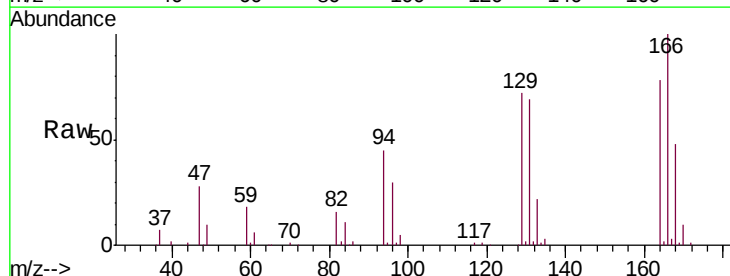


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

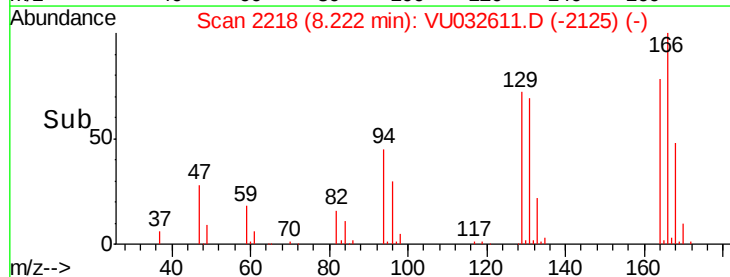
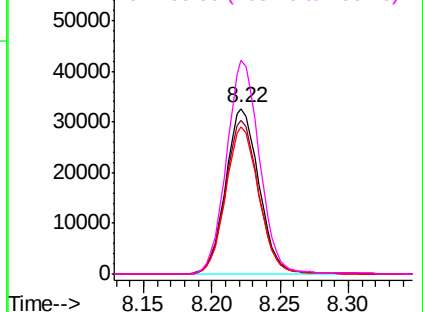


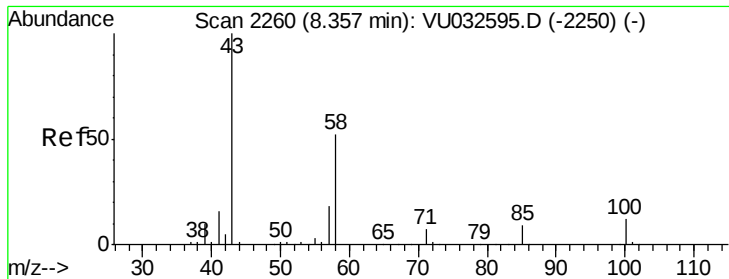
#46
 Tetrachloroethene
 Concen: 51.183 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Tgt Ion:	164	Resp:	55600
Ion	Ratio	Lower	Upper
164	100		
129	93.0	65.3	121.3
131	88.8	64.0	119.0
166	128.9	88.8	165.0



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 101.963 ug/L

RT: 8.36 min Scan# 2260

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 43 Resp: 172662

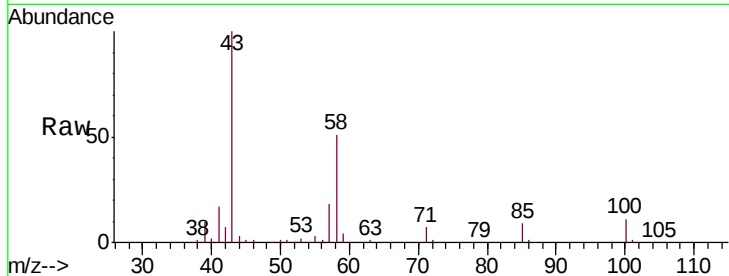
Ion Ratio Lower Upper

43 100

58 51.7 42.0 63.0

57 18.8 14.6 22.0

100 11.1 9.2 13.8

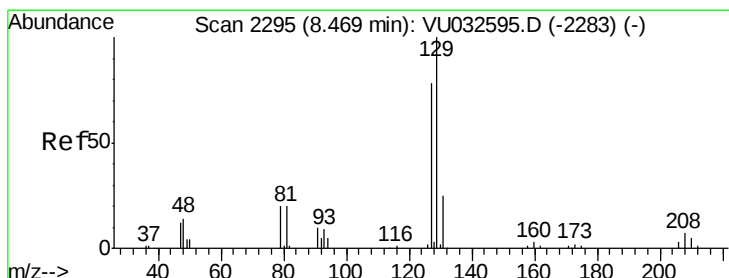
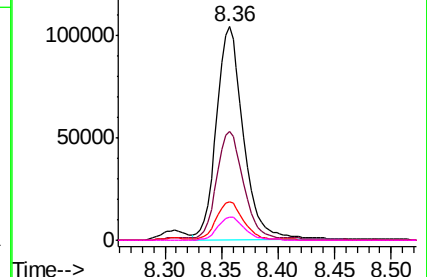
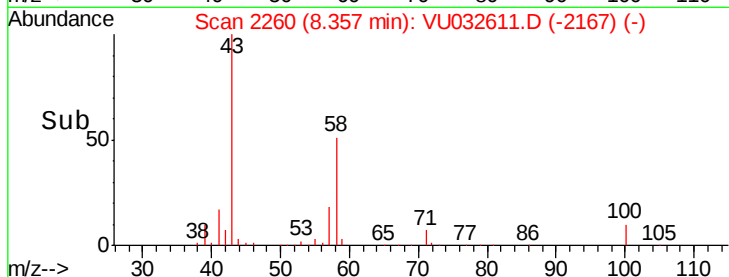


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 52.888 ug/L

RT: 8.47 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU032611.D

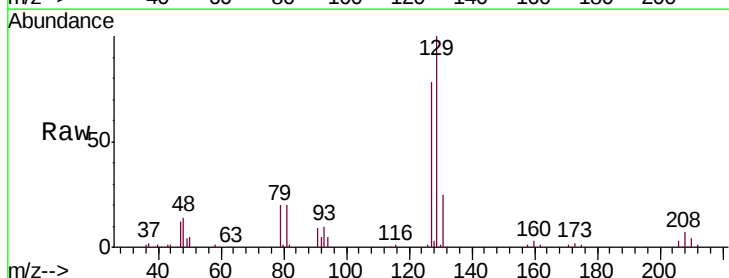
Acq: 11 Jun 2019 15:40

Tgt Ion: 129 Resp: 74498

Ion Ratio Lower Upper

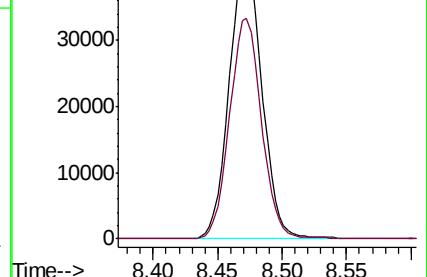
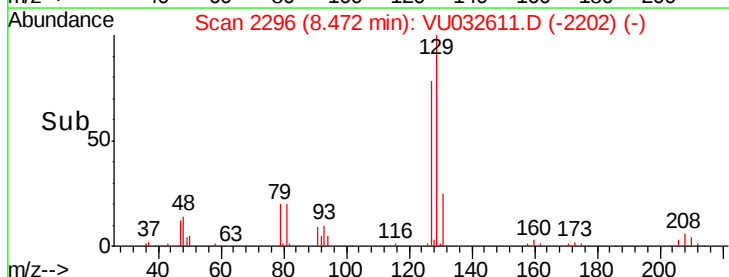
129 100

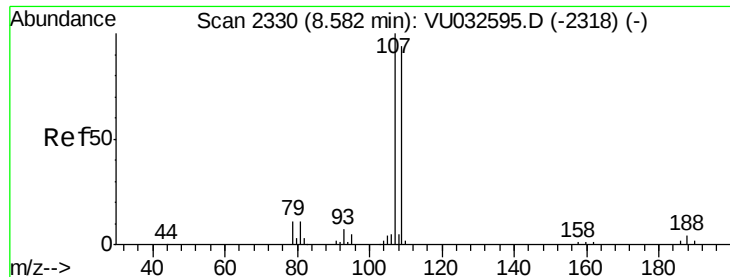
127 78.1 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

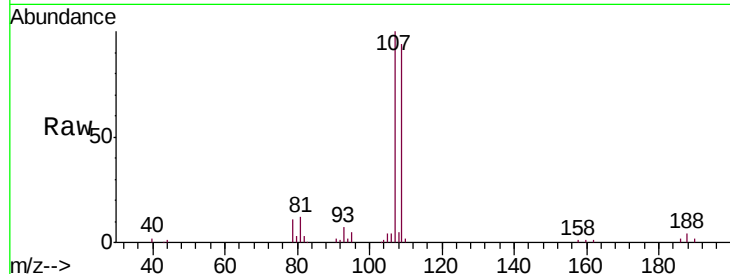




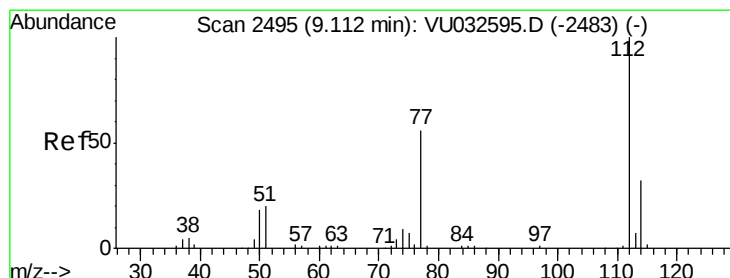
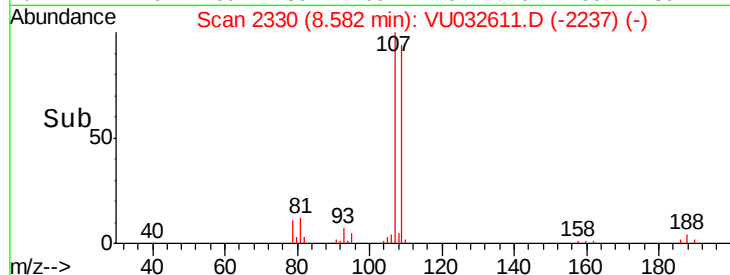
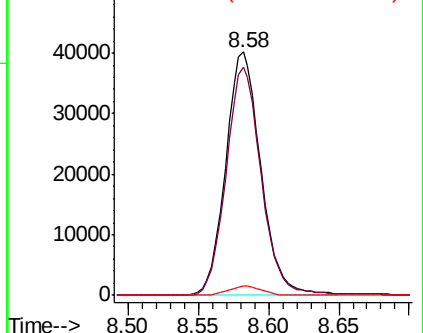
#50
1,2-Dibromoethane
Concen: 51.283 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tgt Ion:107 Resp: 69954
Ion Ratio Lower Upper
107 100
109 93.9 66.8 124.0
188 3.6 3.1 4.7

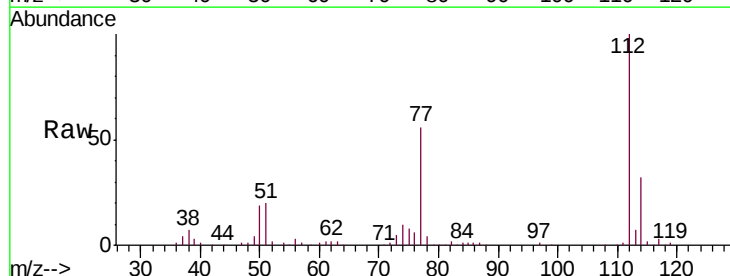


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

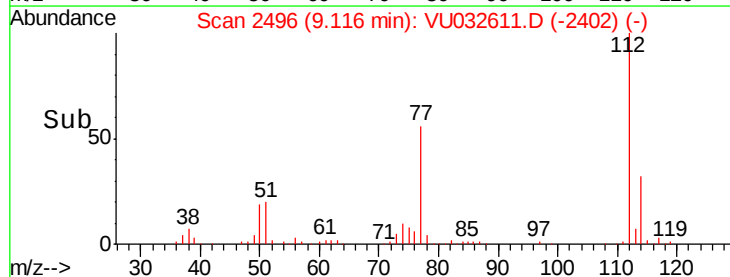
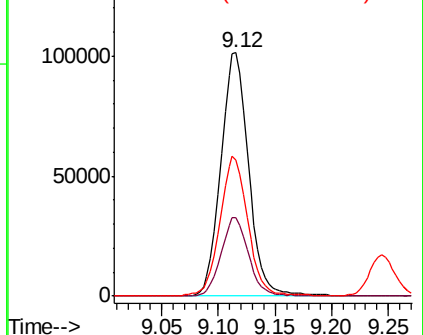


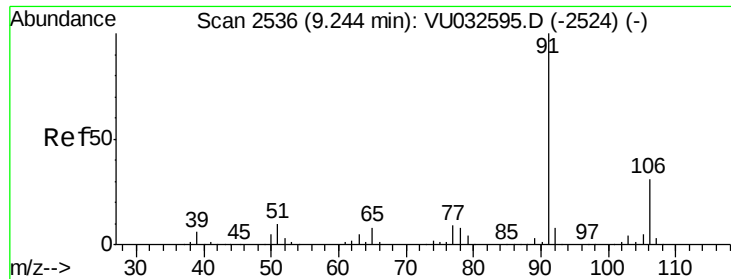
#51
Chlorobenzene
Concen: 50.912 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032611.D
Acq: 11 Jun 2019 15:40

Tgt Ion:112 Resp: 173666
Ion Ratio Lower Upper
112 100
114 32.2 22.6 42.0
77 56.2 46.1 69.1



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





#52

Ethylbenzene

Concen: 50.395 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

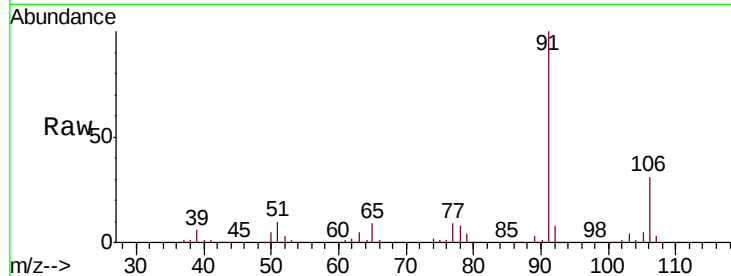
VSTD05044

Tgt Ion: 91 Resp: 297409

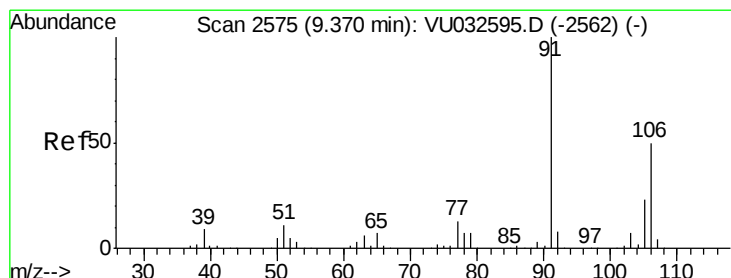
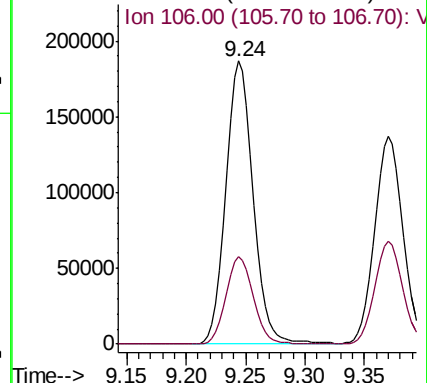
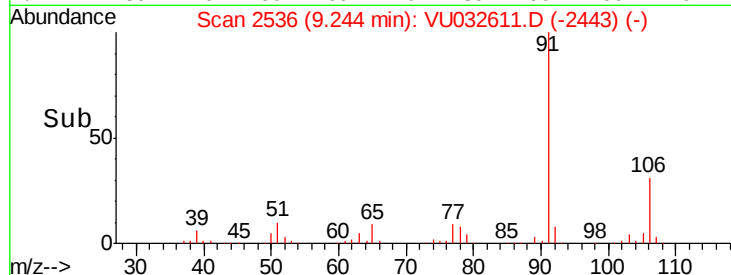
Ion Ratio Lower Upper

91 100

106 30.8 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU032611.D (-2443) (-)



#53

m,p-Xylene

Concen: 49.977 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032611.D

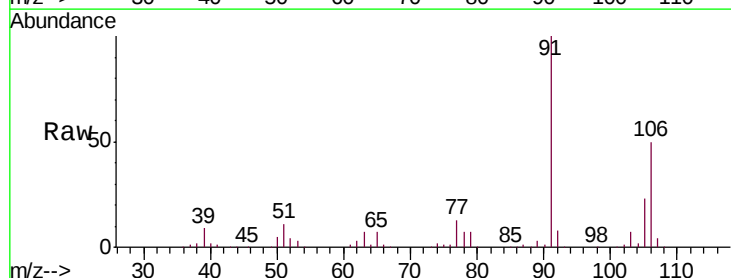
Acq: 11 Jun 2019 15:40

Tgt Ion: 106 Resp: 112152

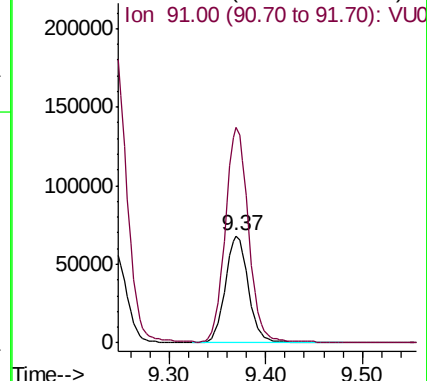
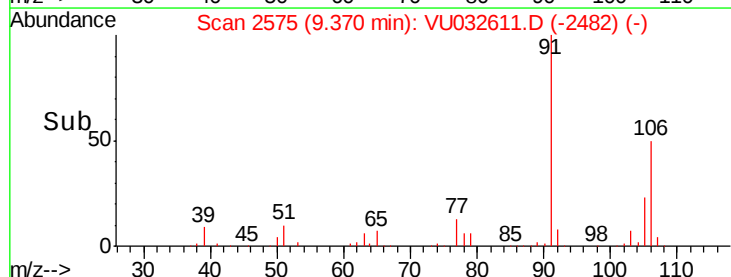
Ion Ratio Lower Upper

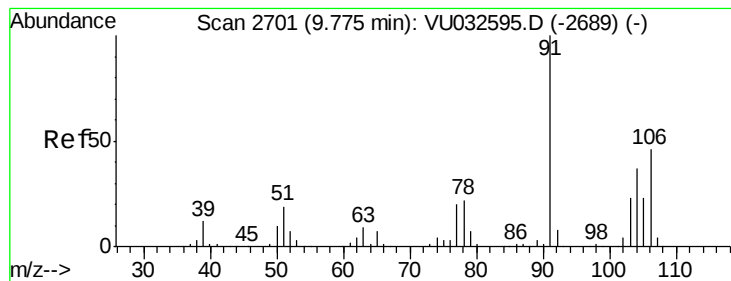
106 100

91 201.2 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): VU032611.D (-2482) (-)





#54

o-xylene

Concen: 49.530 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

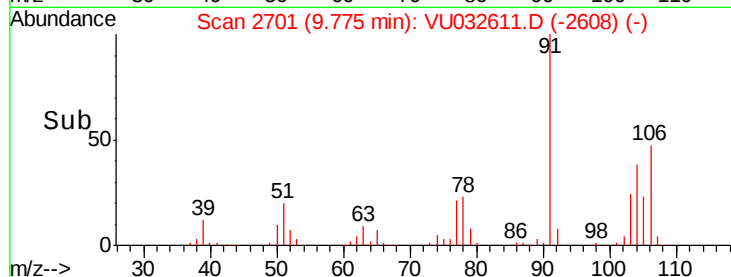
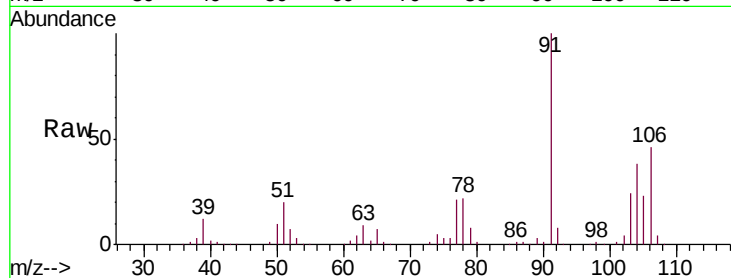
VSTD05044

Tgt Ion:106 Resp: 110357

Ion Ratio Lower Upper

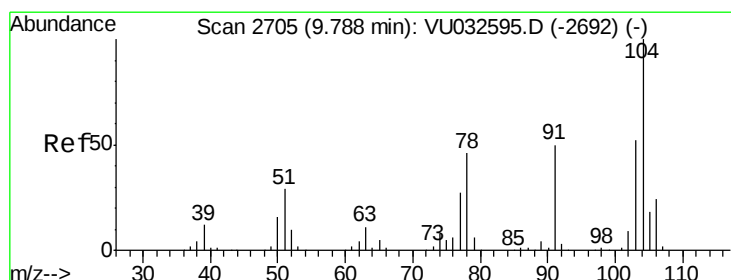
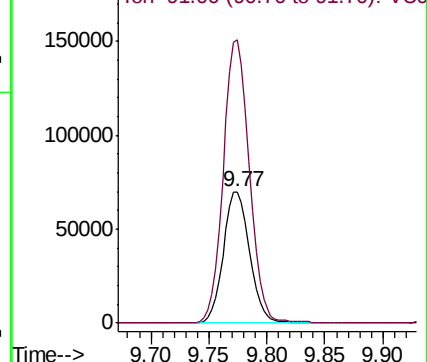
106 100

91 215.1 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.894 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032611.D

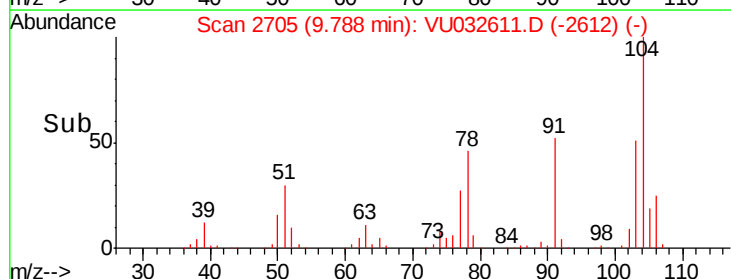
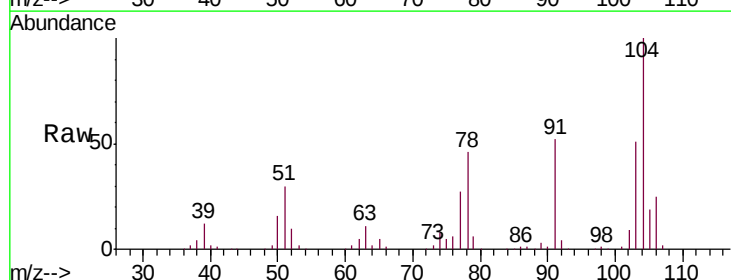
Acq: 11 Jun 2019 15:40

Tgt Ion:104 Resp: 189308

Ion Ratio Lower Upper

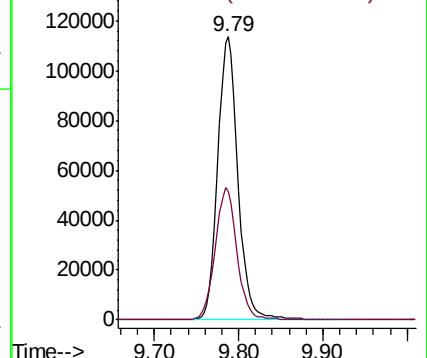
104 100

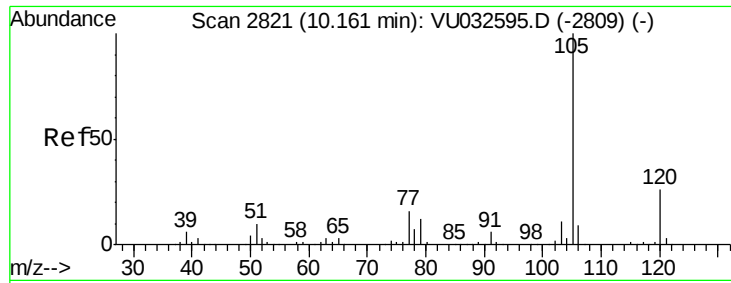
78 45.6 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.308 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

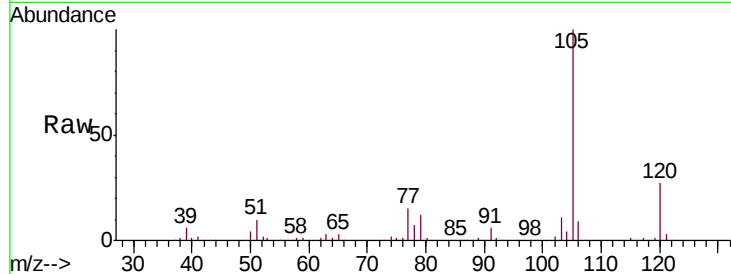
Tgt Ion: 105 Resp: 295573

Ion Ratio Lower Upper

105 100

120 26.4 21.6 32.4

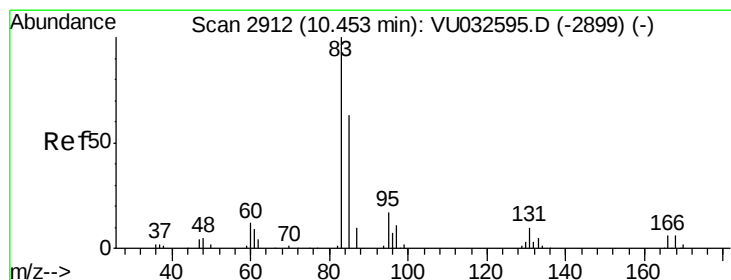
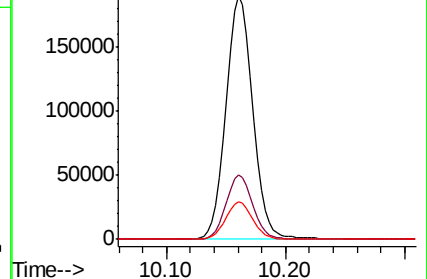
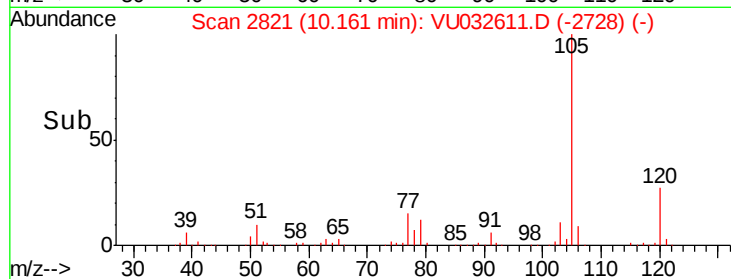
77 15.6 12.4 18.6



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: 51.886 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

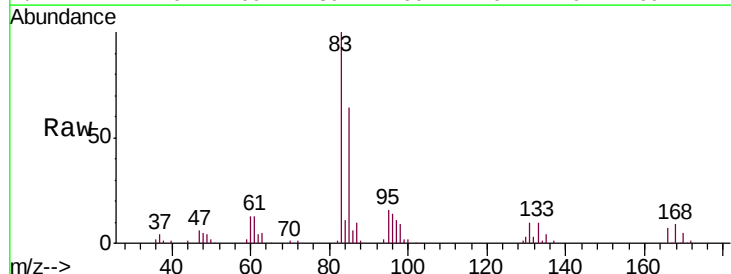
Tgt Ion: 83 Resp: 107468

Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.7

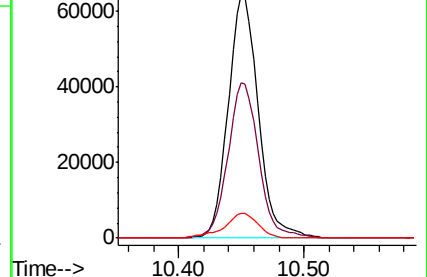
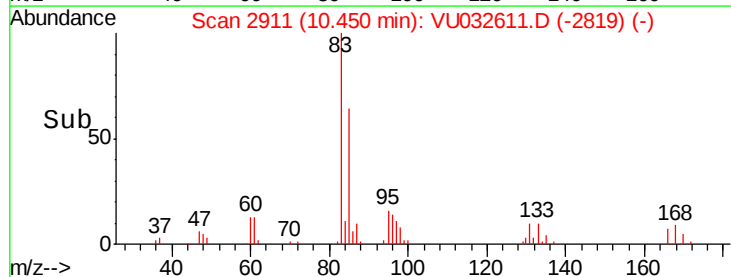
131 10.3 7.9 11.9

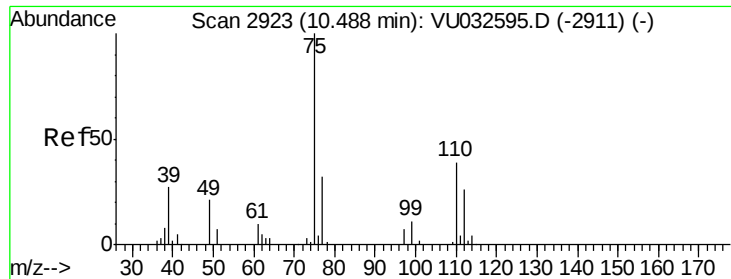


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

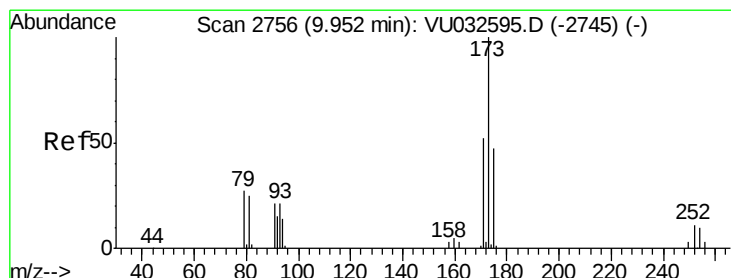
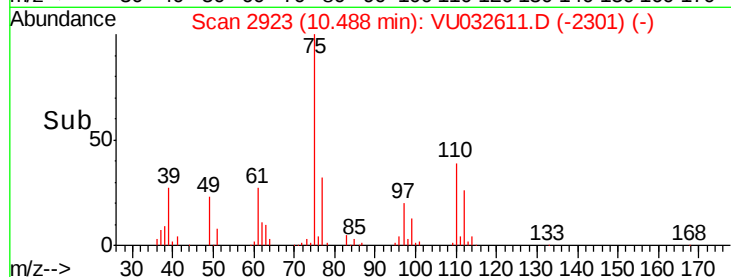
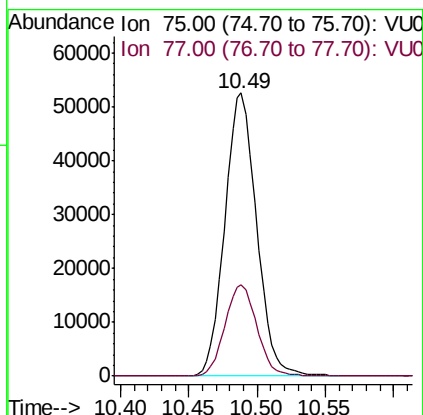
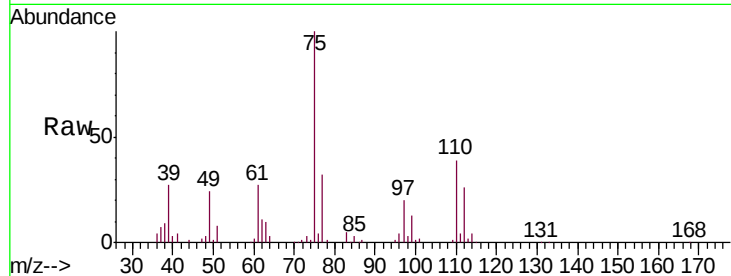




#59
 1,2,3-Trichloropropane
 Concen: 51.238 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

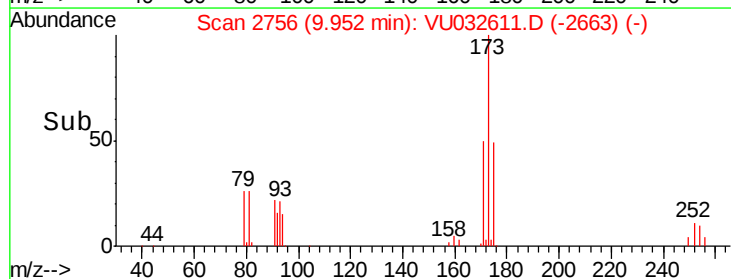
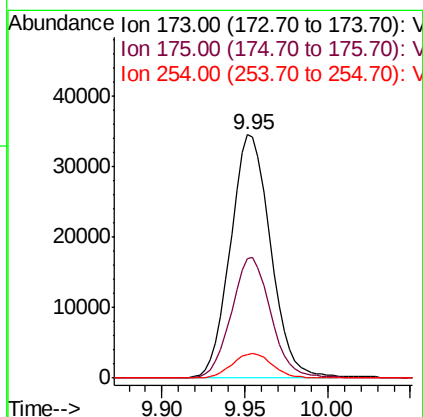
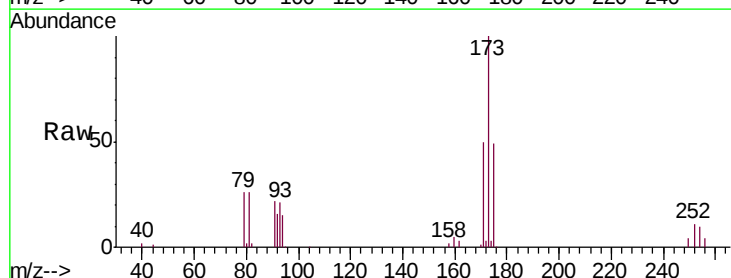
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

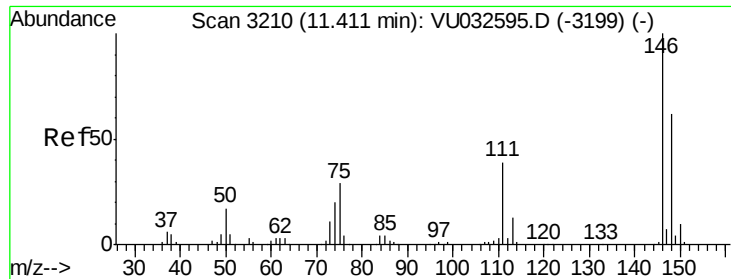
Tgt Ion: 75 Resp: 85361
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.6 38.4



#61
 Bromoform
 Concen: 51.400 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Tgt Ion: 173 Resp: 58393
 Ion Ratio Lower Upper
 173 100
 175 48.8 39.7 59.5
 254 10.1 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 49.786 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

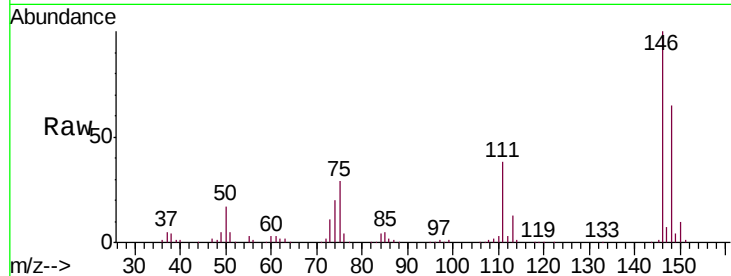
Tgt Ion:146 Resp: 143520

Ion Ratio Lower Upper

146 100

111 37.9 27.3 50.7

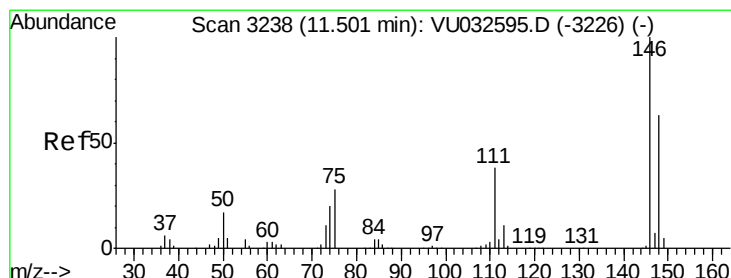
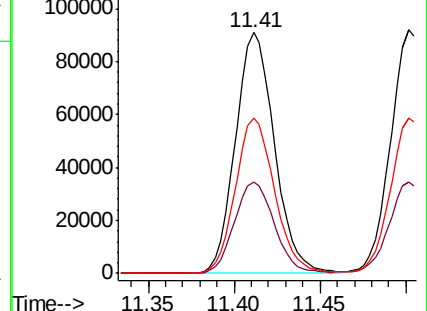
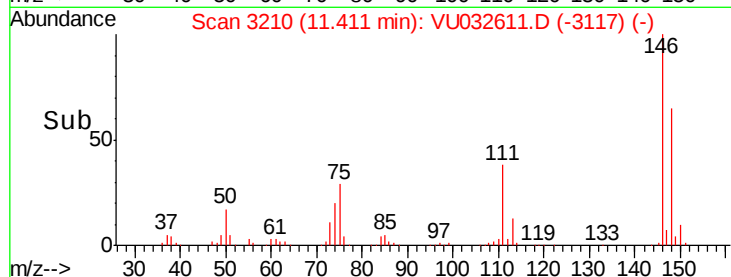
148 64.7 44.4 82.5



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: 49.214 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

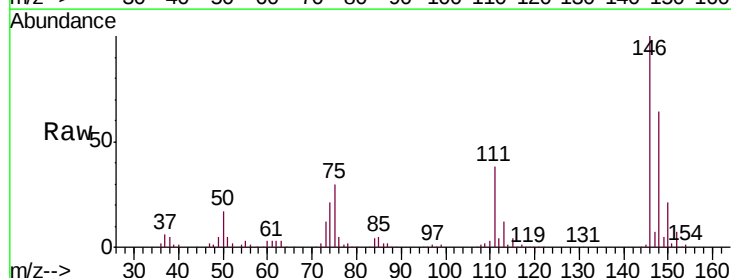
Tgt Ion:146 Resp: 145045

Ion Ratio Lower Upper

146 100

111 37.8 26.6 49.4

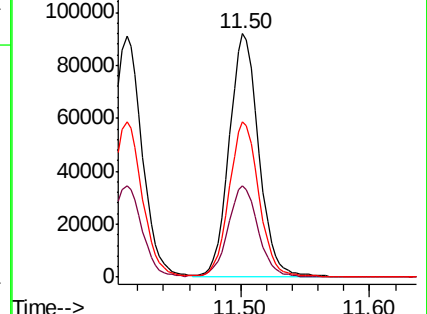
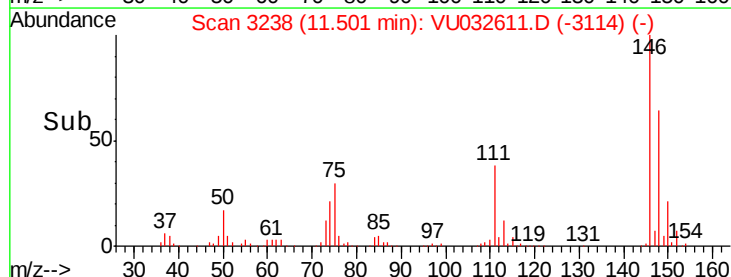
148 63.8 44.9 83.5

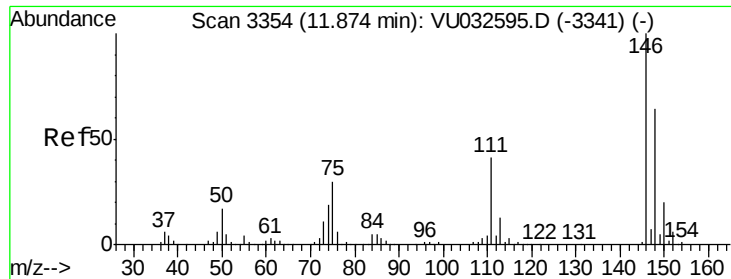


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

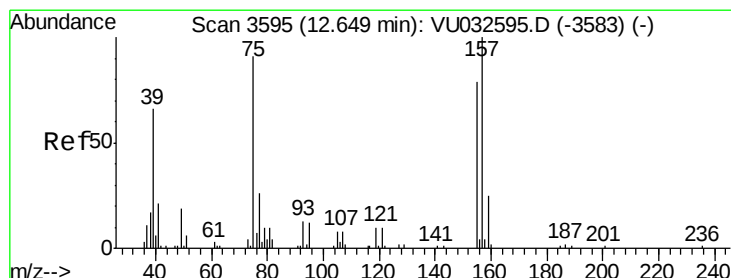
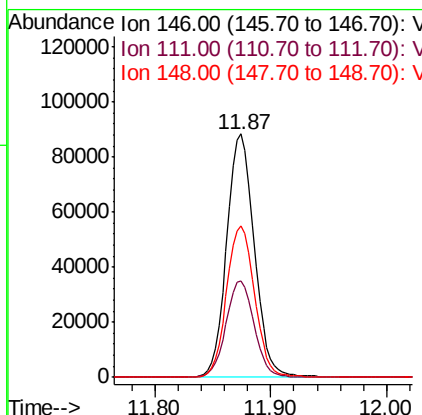
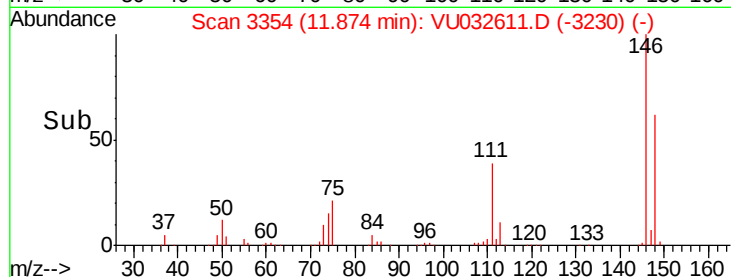
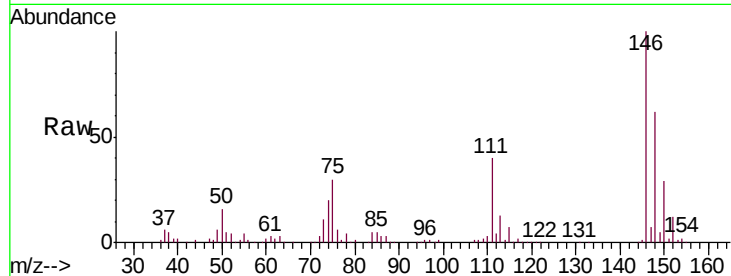




#65
 1,2-Dichlorobenzene
 Concen: 50.000 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

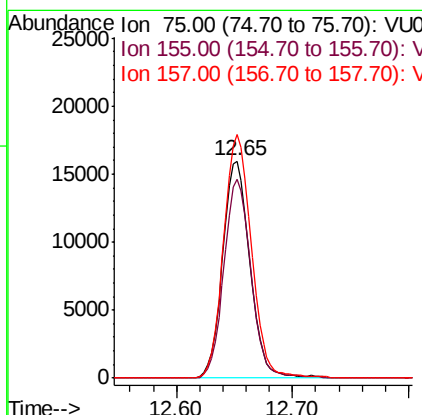
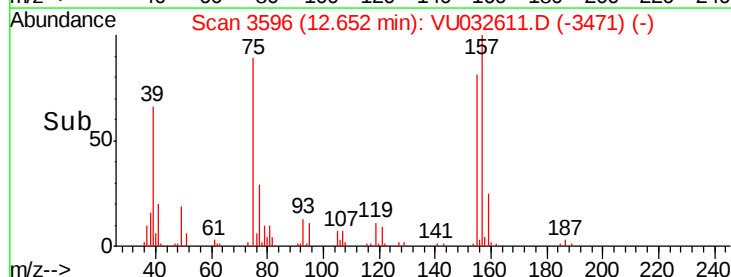
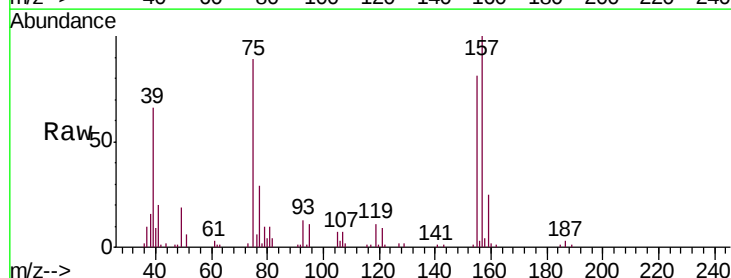
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

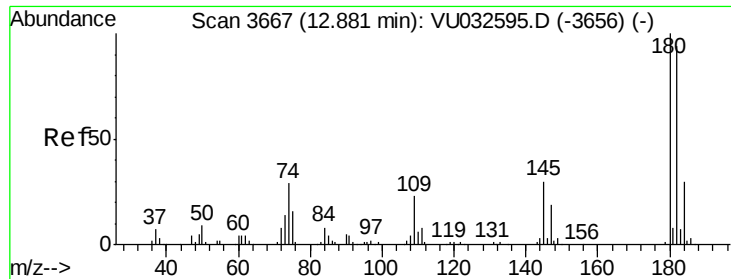
Tgt Ion: 146 Resp: 145727
 Ion Ratio Lower Upper
 146 100
 111 39.8 32.6 48.8
 148 62.0 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.940 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Tgt Ion: 75 Resp: 25960
 Ion Ratio Lower Upper
 75 100
 155 91.5 73.1 109.7
 157 112.3 91.4 137.2

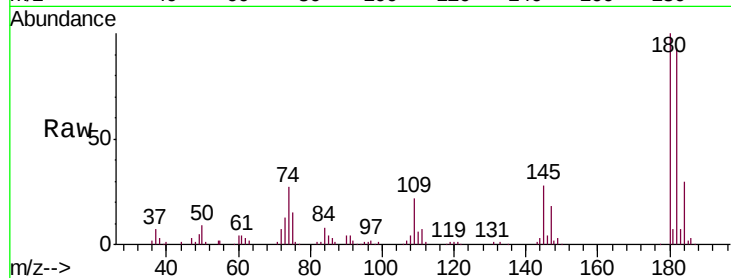




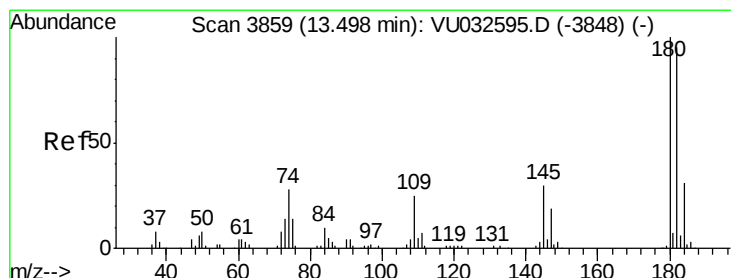
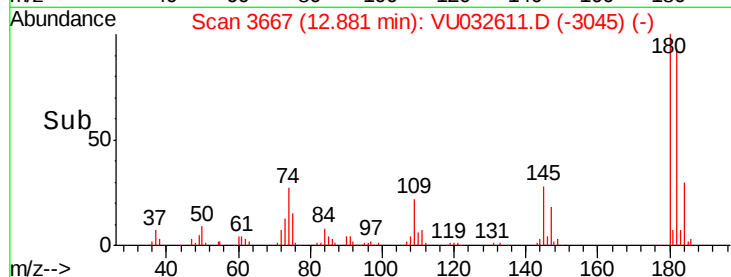
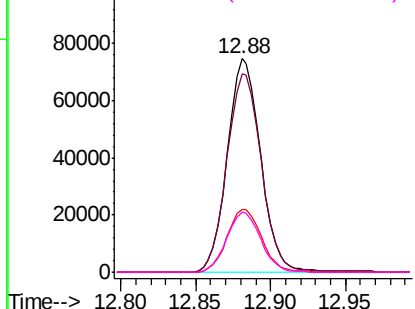
#67
 1,3,5-Trichlorobenzene
 Concen: 51.638 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:180 Resp: 115817
 Ion Ratio Lower Upper
 180 100
 182 96.3 78.2 117.4
 184 30.6 24.2 36.2
 145 28.9 23.9 35.9

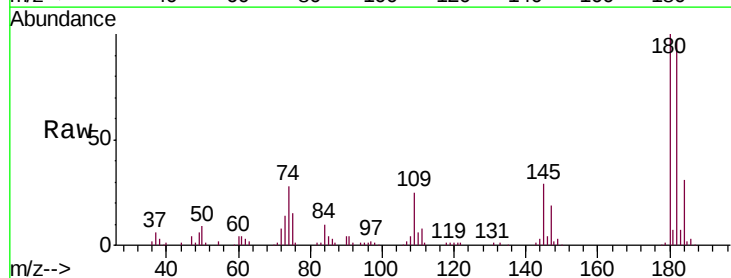


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

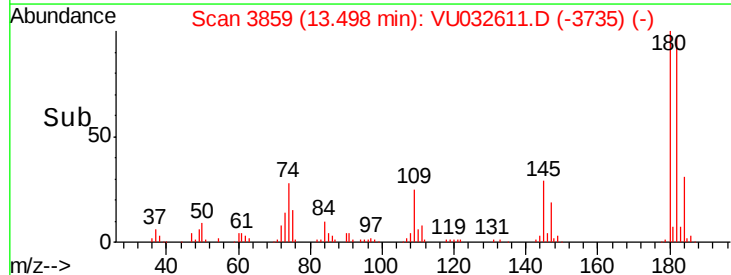
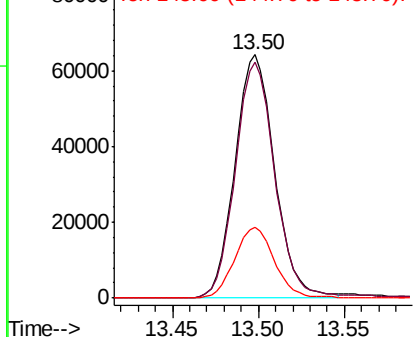


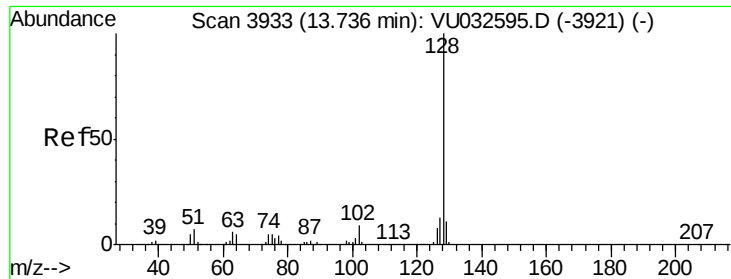
#68
 1,2,4-trichlorobenzene
 Concen: 54.114 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032611.D
 Acq: 11 Jun 2019 15:40

Tgt Ion:180 Resp: 102821
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.5 114.7
 145 29.5 23.8 35.6



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: 51.927 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

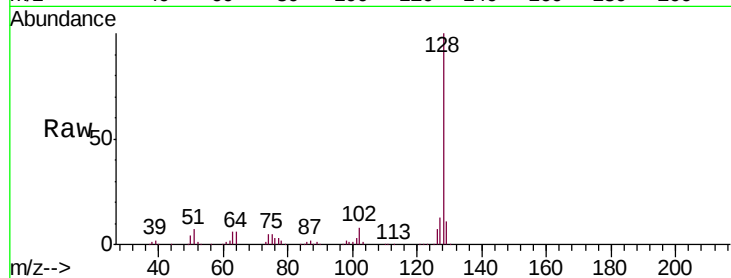
Tgt Ion:128 Resp: 311217

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

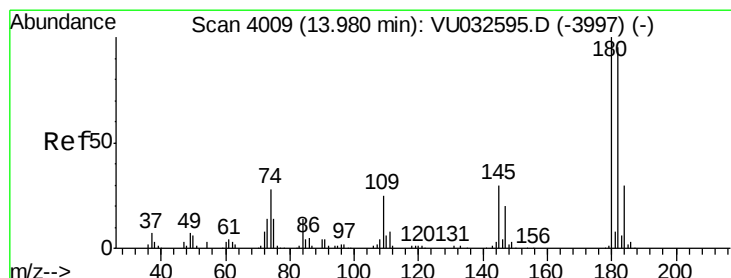
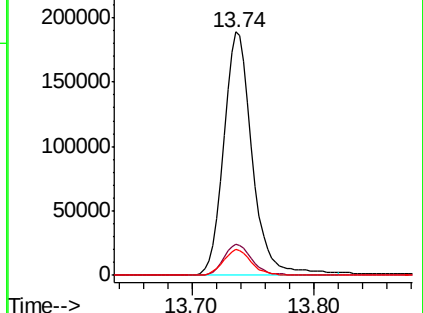
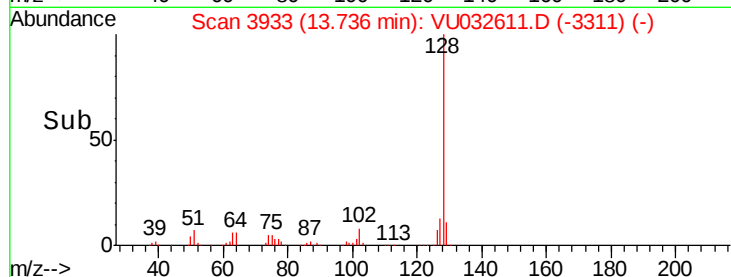
129 10.4 8.5 12.7



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: 53.857 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.00 min

Lab File: VU032611.D

Acq: 11 Jun 2019 15:40

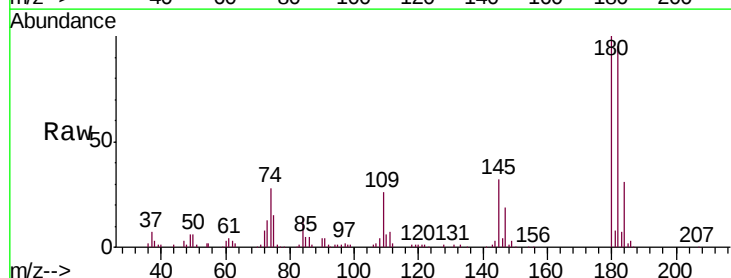
Tgt Ion:180 Resp: 106501

Ion Ratio Lower Upper

180 100

182 95.6 76.7 115.1

145 31.2 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

