

Data File : VU032991.D
Acq On : 24 Jun 2019 08:53
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Quant Time: Jun 25 05:21:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Jun 24 02:01:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	206379	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	201872	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	106056	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	61465	43.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.16%
7) Chloroethane-d5	1.68	69	57162	50.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.64%
11) 1,1-Dichloroethene-d2	2.27	63	137134	48.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.52%
21) 2-Butanone-d5	4.17	46	128164	109.18	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.18%
24) Chloroform-d	4.64	84	142831	52.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.18%
26) 1,2-Dichloroethane-d4	5.30	65	96705	52.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.90%
32) Benzene-d6	5.33	84	263602	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.18%
36) 1,2-Dichloropropane-d6	6.32	67	86561	51.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.28%
41) Toluene-d8	7.56	98	250847	50.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.80%
43) trans-1,3-Dichloropropene-	7.84	79	44632	51.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.36%
47) 2-Hexanone-d5	8.31	63	79700	101.82	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.82%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	127430	49.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.34%
64) 1,2-Dichlorobenzene-d4	11.85	152	102485	49.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.88%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	108787	52.184	ug/L 99
3) Chloromethane	1.32	50	89937	47.600	ug/L 100
5) Vinyl chloride	1.40	62	92726	49.478	ug/L 99
6) Bromomethane	1.62	94	46918	42.545	ug/L 97
8) Chloroethane	1.69	64	57102	52.931	ug/L 100
9) Trichlorofluoromethane	1.88	101	134366	51.104	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	70017	50.770	ug/L 98
12) 1,1-Dichloroethene	2.28	96	62674	48.224	ug/L 97
13) Acetone	2.32	43	167263	103.156	ug/L 98
14) Carbon disulfide	2.47	76	197379	47.996	ug/L 100
15) Methyl Acetate	2.61	43	97377	52.980	ug/L 98
16) Methylene chloride	2.69	84	75559	49.547	ug/L 94
17) trans-1,2-Dichloroethene	2.97	96	68754	48.784	ug/L 94
18) Methyl tert-butyl Ether	2.99	73	236061	52.170	ug/L 99
19) 1,1-Dichloroethane	3.44	63	140434	52.267	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	78299	50.998	ug/L 94
22) 2-Butanone	4.26	43	183578	109.234	ug/L 99

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	40862	51.017	ug/L	97
25) Chloroform	4.66	83	145616	52.554	ug/L	98
27) 1,2-Dichloroethane	5.40	62	124402	54.652	ug/L	98
29) Cyclohexane	4.99	56	120383	51.071	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	129656	52.717	ug/L	99
31) Carbon tetrachloride	5.13	117	118203	52.820	ug/L	100
33) Benzene	5.38	78	300318	51.641	ug/L	100
34) Trichloroethene	6.18	95	79673	51.276	ug/L	98
35) Methylcyclohexane	6.41	83	125843	52.396	ug/L	98
37) 1,2-Dichloropropane	6.42	63	82163	51.506	ug/L	99
38) Bromodichloromethane	6.75	83	112144	52.282	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	134083	53.951	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	272687	107.070	ug/L	98
42) Toluene	7.63	91	328822	52.260	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	122270	52.379	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	77521	52.211	ug/L	98
46) Tetrachloroethene	8.22	164	65375	51.346	ug/L	97
48) 2-Hexanone	8.36	43	238562	106.166	ug/L	98
49) Dibromochloromethane	8.47	129	90717	50.682	ug/L	97
50) 1,2-Dibromoethane	8.58	107	83487	50.632	ug/L	98
51) Chlorobenzene	9.11	112	209301	50.550	ug/L	97
52) Ethylbenzene	9.24	91	362606	52.064	ug/L	99
53) m,p-Xylene	9.37	106	137177	52.204	ug/L	99
54) o-xylene	9.77	106	131858	51.384	ug/L	99
55) Styrene	9.79	104	230855	51.857	ug/L	97
56) Isopropylbenzene	10.16	105	354862	51.313	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	133502	49.690	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	108743	51.080	ug/L	100
61) Bromoform	9.95	173	70108	50.625	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	164703	49.962	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	172400	50.633	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	169974	50.498	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	33584	52.298	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	134163	50.651	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	116814	51.253	ug/L	99
69) Naphthalene	13.74	128	340275	48.557	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	121568	50.385	ug/L	98

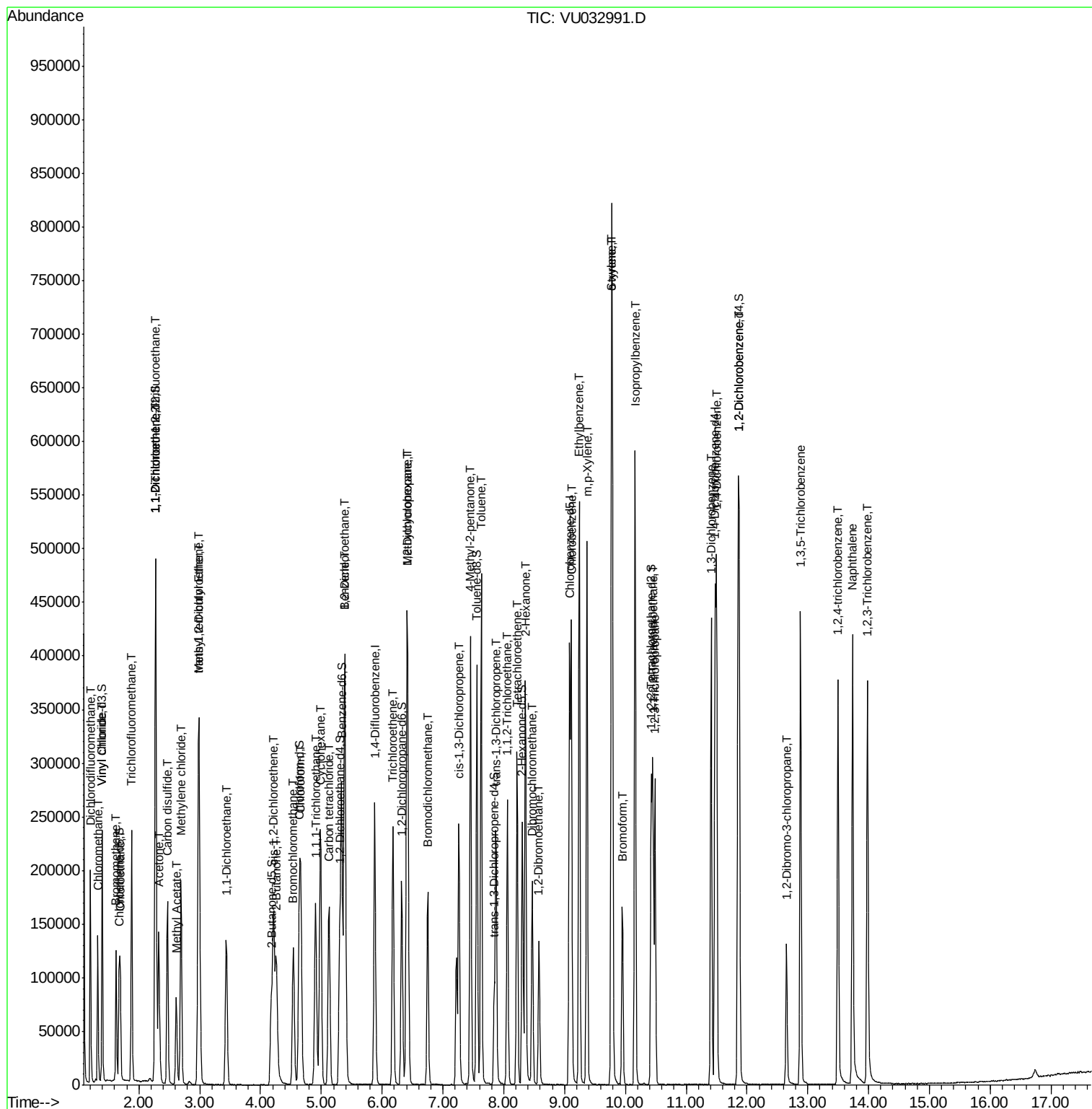
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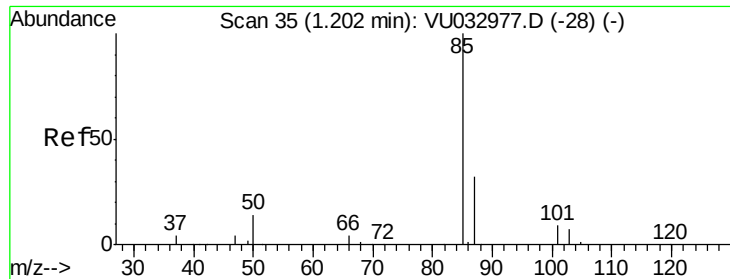
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#2

Dichlorodifluoromethane

Concen: 52.184 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

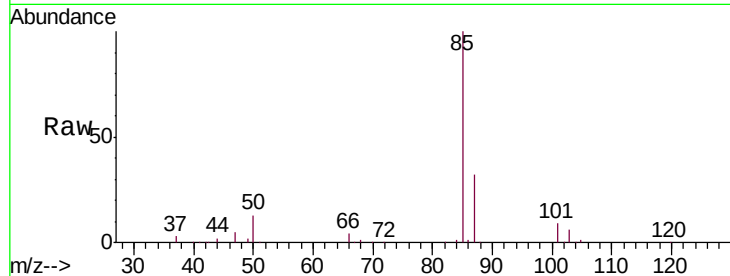
VSTD05060

Tgt Ion: 85 Resp: 108787

Ion Ratio Lower Upper

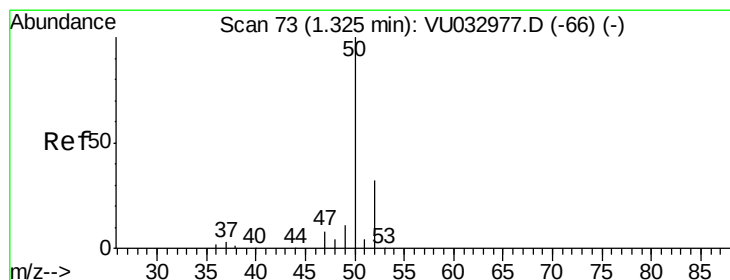
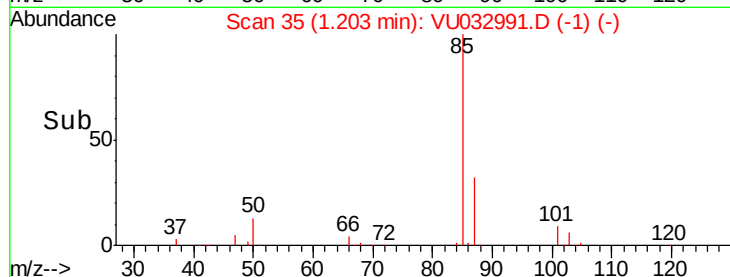
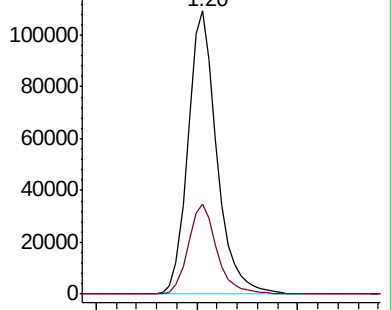
85 100

87 31.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032977.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032977.D (-28) (-)



#3

Chloromethane

Concen: 47.600 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU032991.D

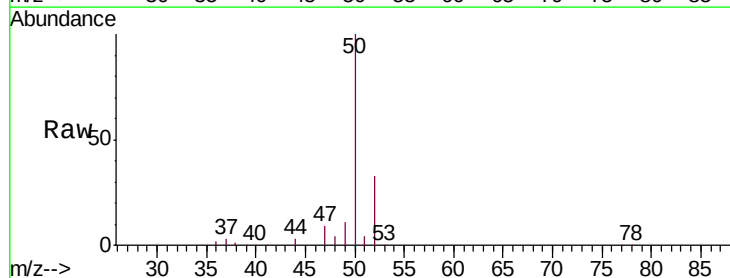
Acq: 24 Jun 2019 08:53

Tgt Ion: 50 Resp: 89937

Ion Ratio Lower Upper

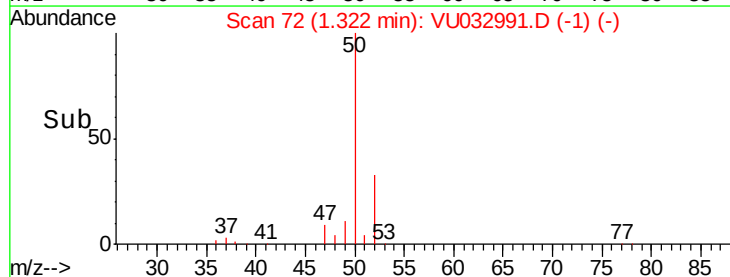
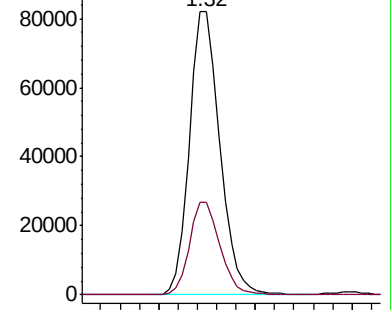
50 100

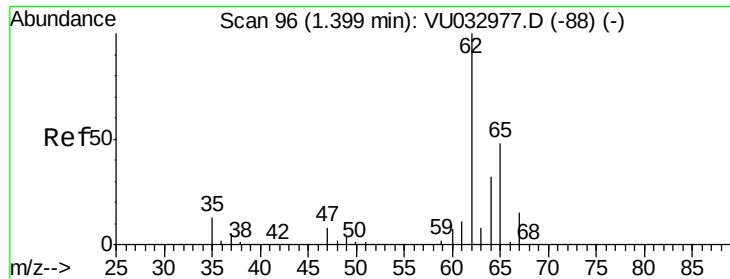
52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032977.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032977.D (-66) (-)





#5

Vinyl chloride

Concen: 49.478 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

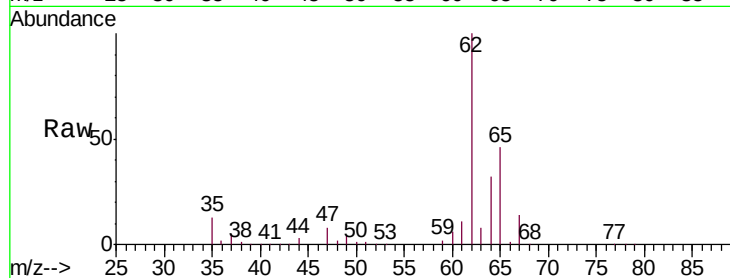
VSTD05060

Tgt Ion: 62 Resp: 92726

Ion Ratio Lower Upper

62 100

64 32.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032977.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032977.D (-88) (-)

1.40

80000

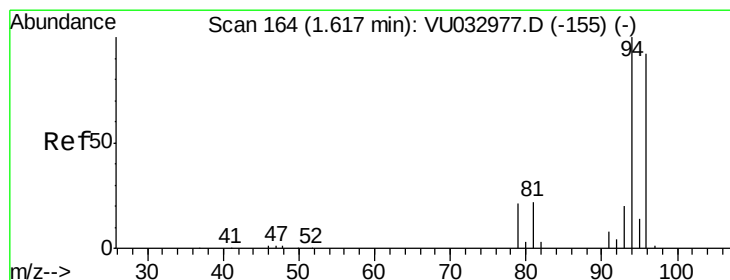
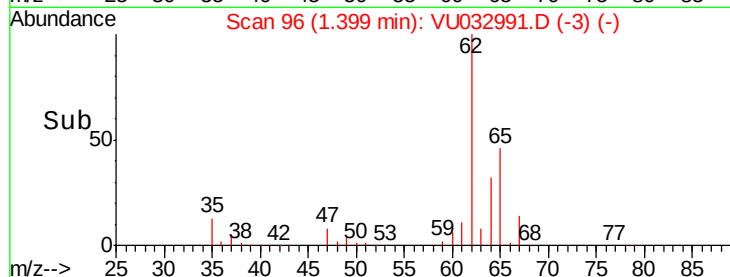
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 42.545 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU032991.D

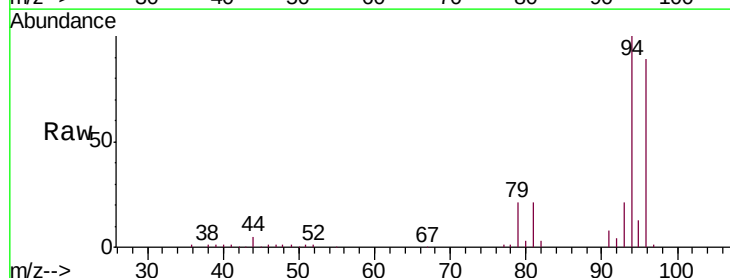
Acq: 24 Jun 2019 08:53

Tgt Ion: 94 Resp: 46918

Ion Ratio Lower Upper

94 100

96 89.4 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU032977.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU032977.D (-155) (-)

1.62

40000

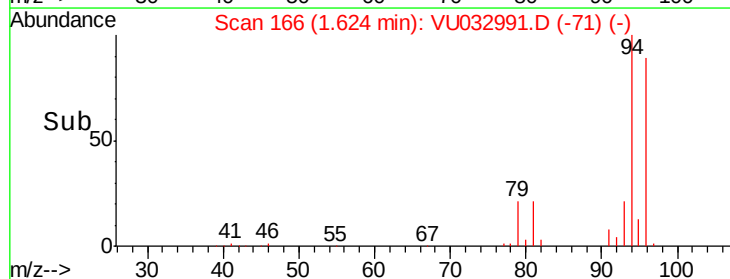
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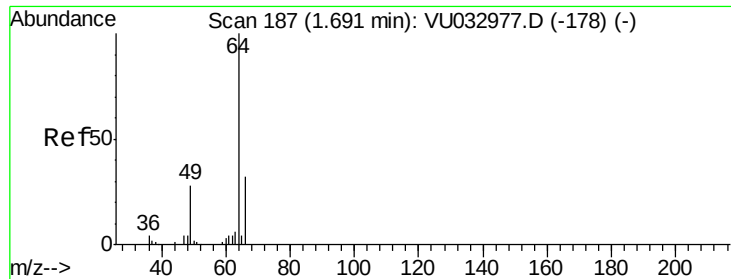
20000

10000

0

Time-->





#8

Chloroethane

Concen: 52.931 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

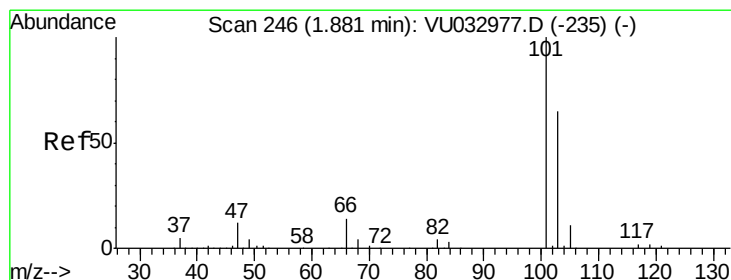
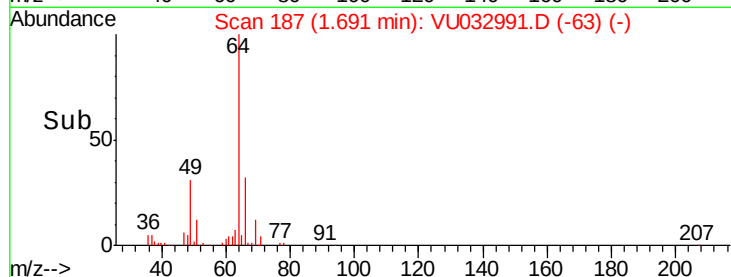
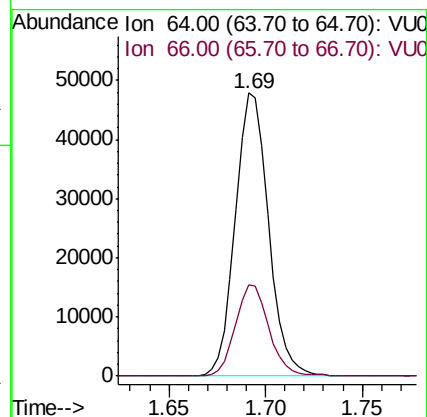
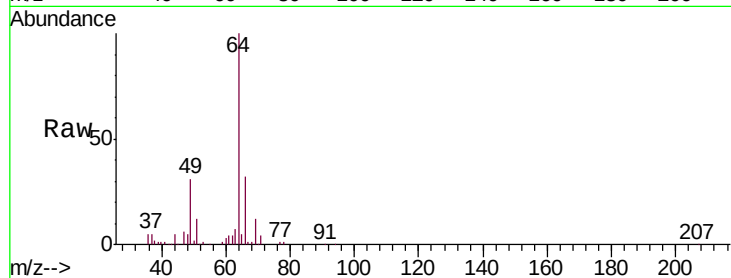
VSTD05060

Tgt Ion: 64 Resp: 57102

Ion Ratio Lower Upper

64 100

66 32.1 22.5 41.7



#9

Trichlorofluoromethane

Concen: 51.104 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032991.D

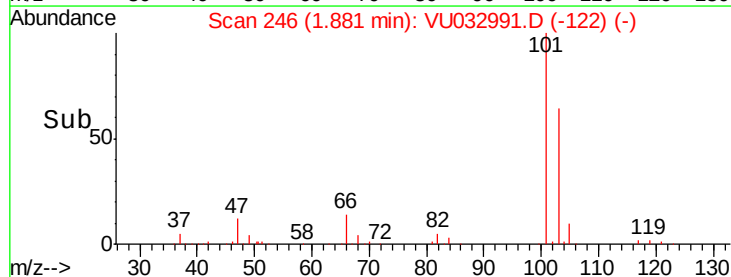
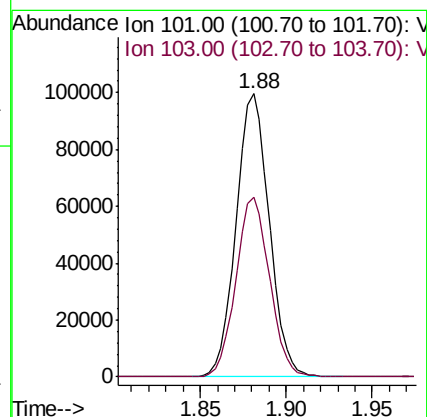
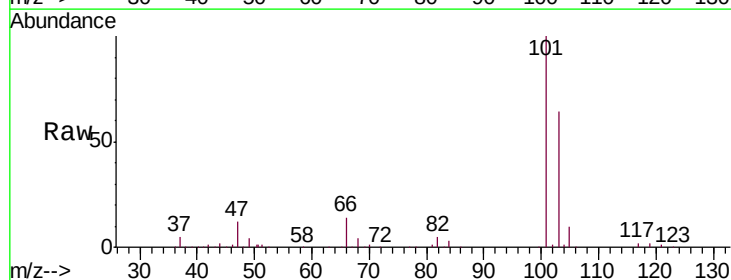
Acq: 24 Jun 2019 08:53

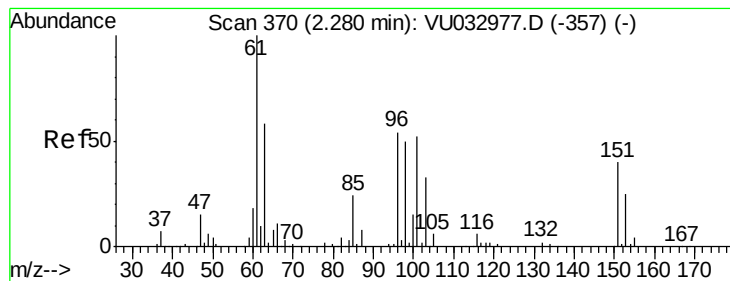
Tgt Ion: 101 Resp: 134366

Ion Ratio Lower Upper

101 100

103 64.3 51.3 76.9





#10

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

Concen: 50.770 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

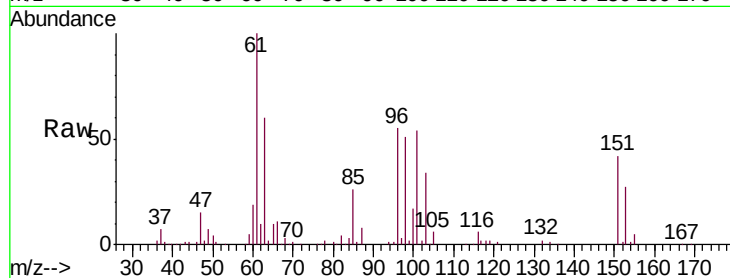
Tgt Ion:101 Resp: 70017

Ion Ratio Lower Upper

101 100

85 46.7 36.8 55.2

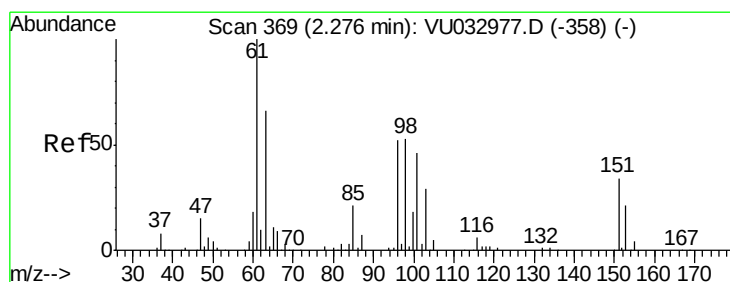
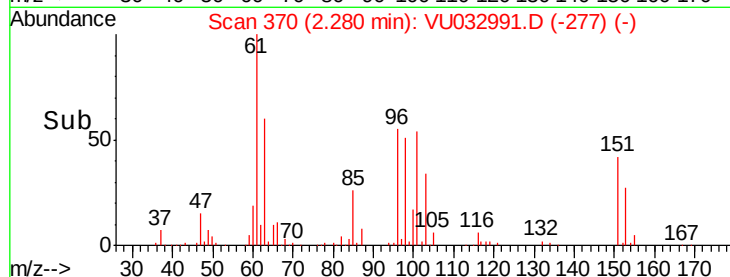
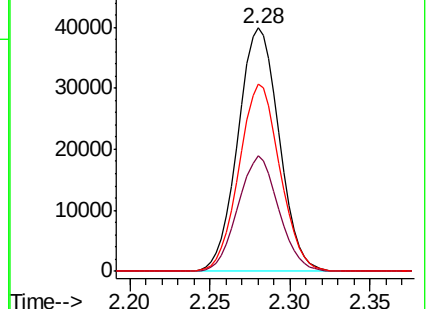
151 76.6 63.6 95.4



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: 48.224 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

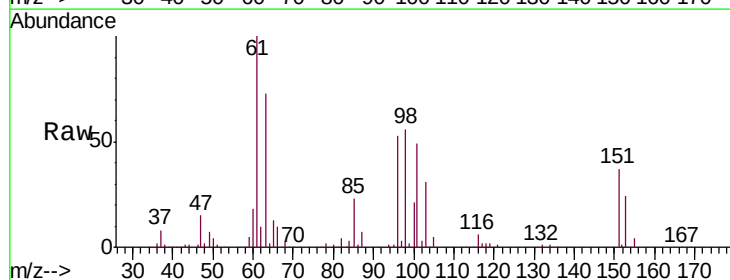
Tgt Ion: 96 Resp: 62674

Ion Ratio Lower Upper

96 100

61 189.7 131.0 243.4

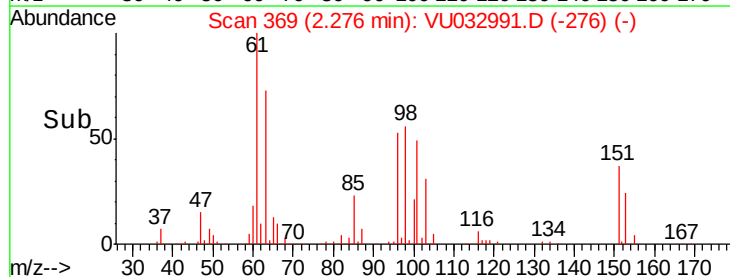
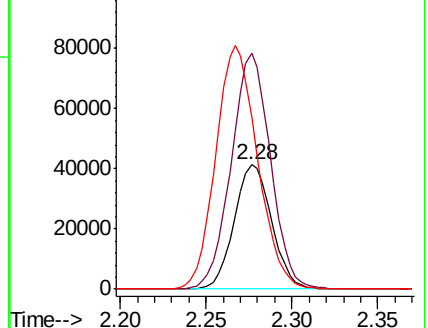
63 138.5 101.0 187.6

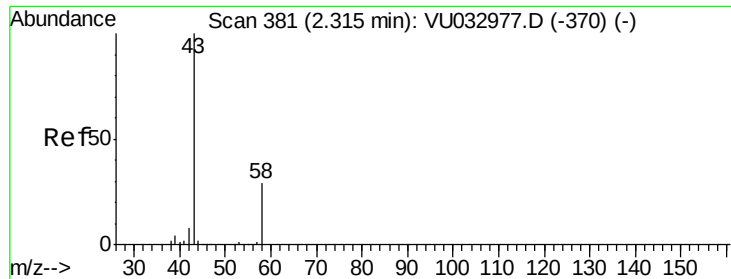


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 103.156 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

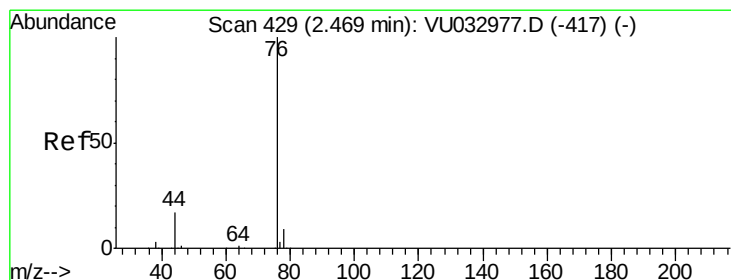
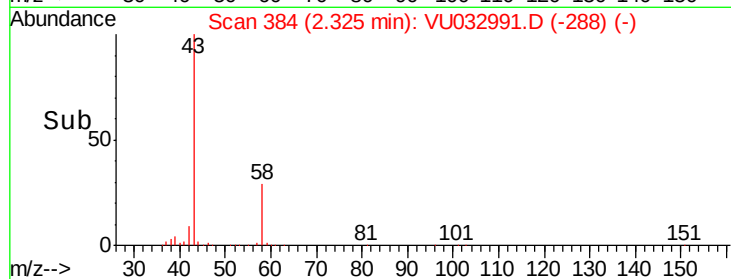
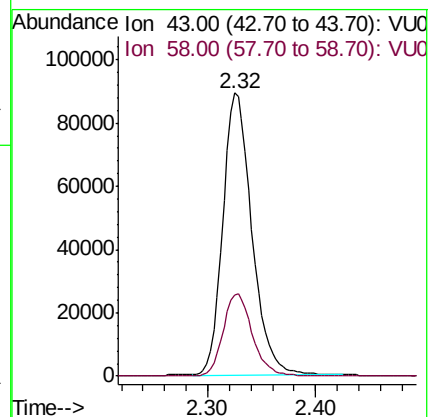
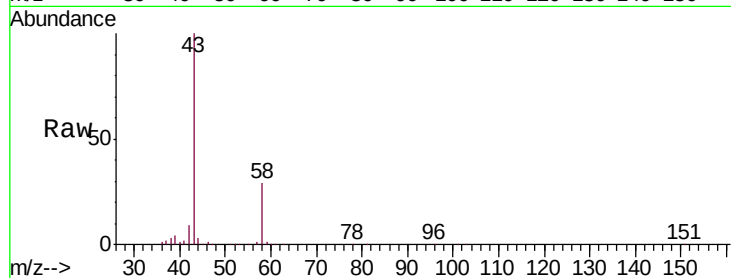
VSTD05060

Tgt Ion: 43 Resp: 167263

Ion Ratio Lower Upper

43 100

58 29.1 0.0 60.6



#14

Carbon disulfide

Concen: 47.996 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032991.D

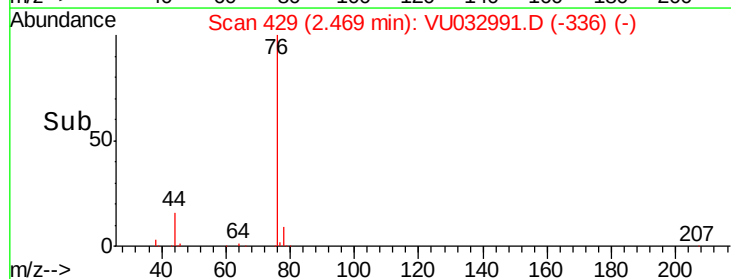
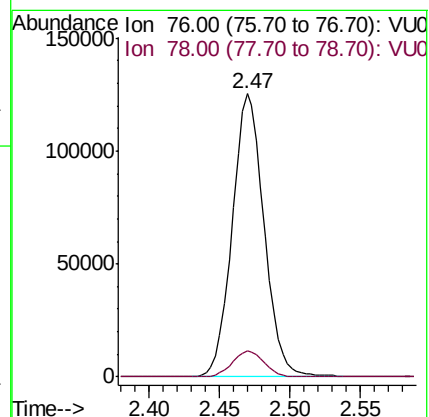
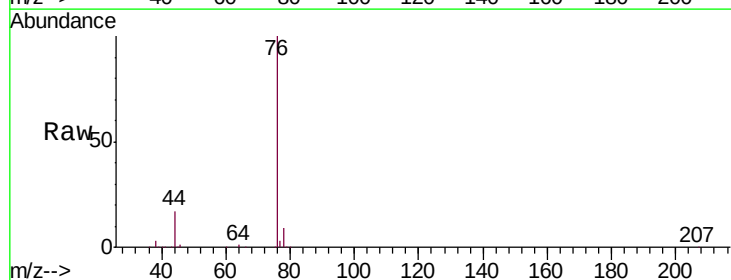
Acq: 24 Jun 2019 08:53

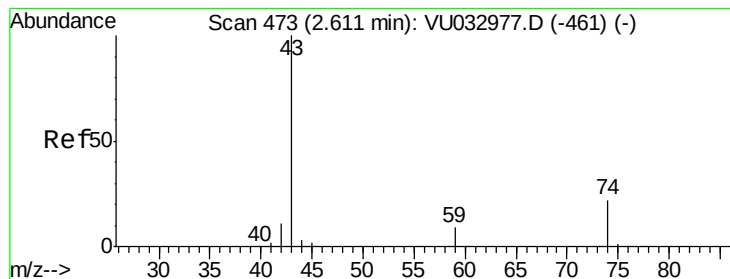
Tgt Ion: 76 Resp: 197379

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 52.980 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

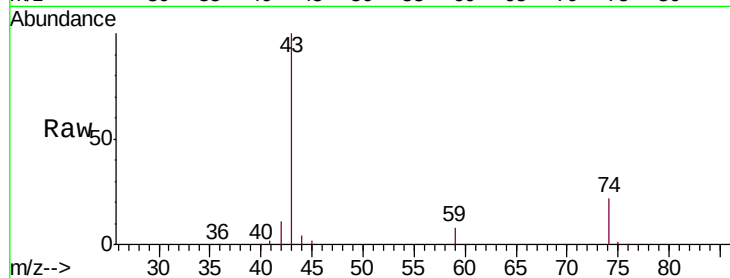
VSTD05060

Tgt Ion: 43 Resp: 97377

Ion Ratio Lower Upper

43 100

74 21.8 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VU032991.D (-380) (-)

Ion 74.00 (73.70 to 74.70): VU032991.D (-380) (-)

2.61

60000

50000

40000

30000

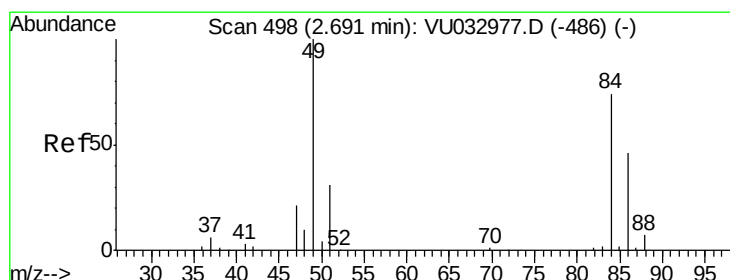
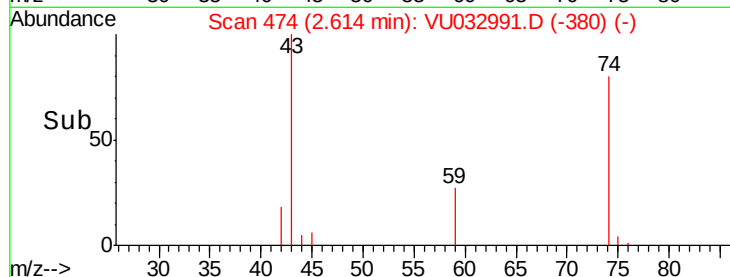
20000

10000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 49.547 ug/L

RT: 2.69 min Scan# 498

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

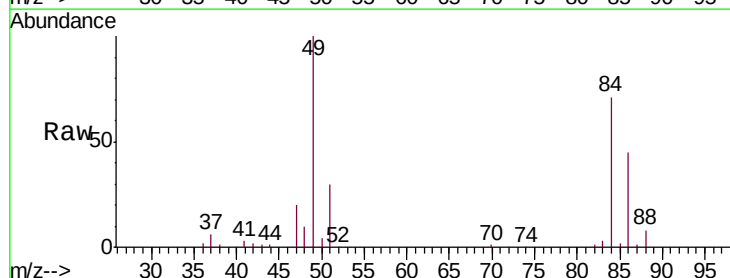
Tgt Ion: 84 Resp: 75559

Ion Ratio Lower Upper

84 100

86 64.1 45.5 84.5

49 141.4 92.1 171.1



Abundance Ion 84.00 (83.70 to 84.70): VU032991.D (-405) (-)

Ion 86.00 (85.70 to 86.70): VU032991.D (-405) (-)

Ion 49.00 (48.70 to 49.70): VU032991.D (-405) (-)

2.69

80000

60000

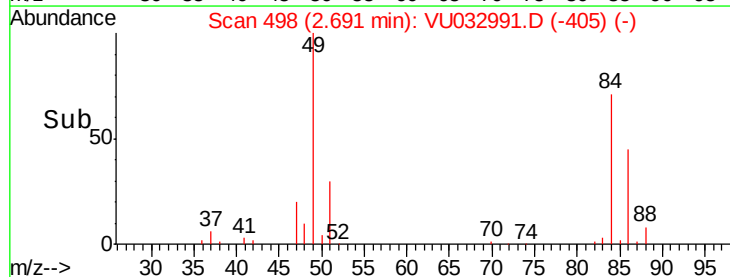
40000

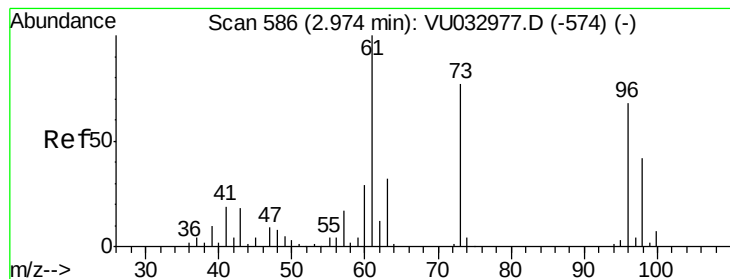
20000

0

Time-->

2.60 2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 48.784 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

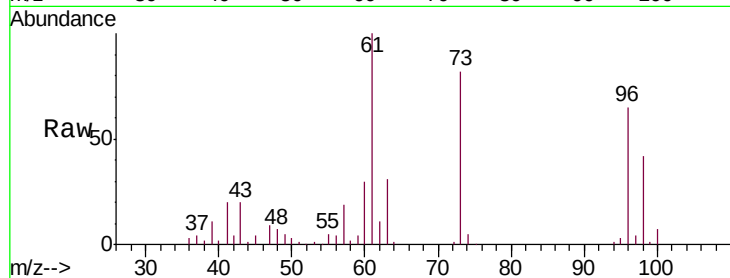
Tgt Ion: 96 Resp: 68754

Ion Ratio Lower Upper

96 100

61 153.7 100.9 187.5

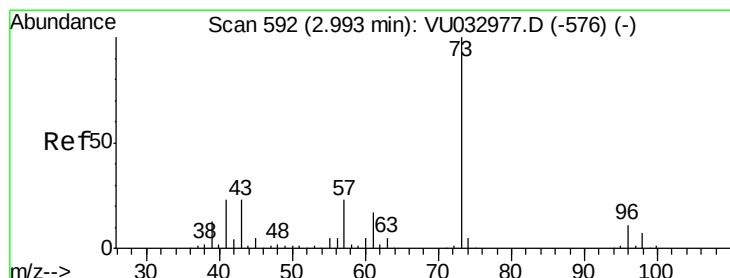
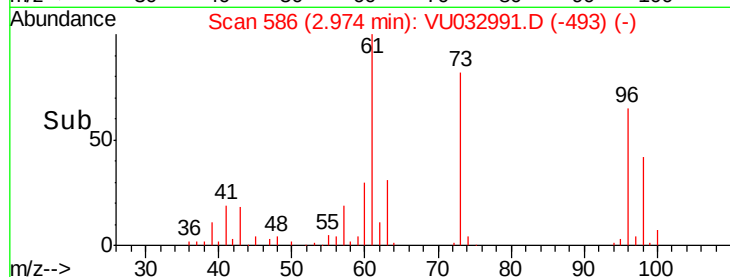
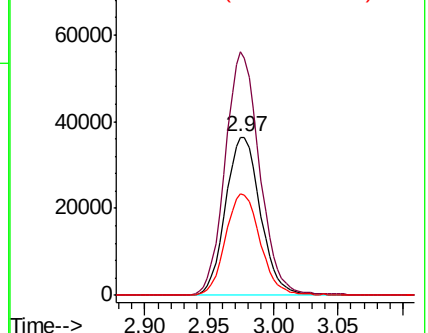
98 63.9 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU032977.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032977.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032977.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 52.170 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

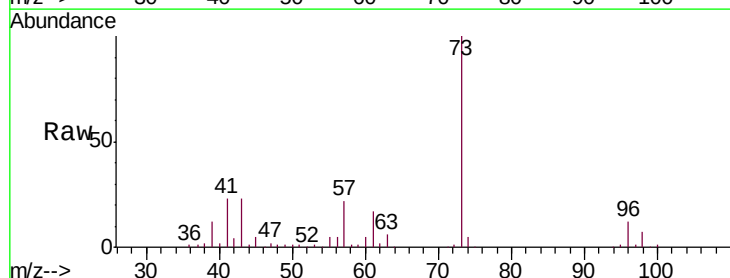
Tgt Ion: 73 Resp: 236061

Ion Ratio Lower Upper

73 100

43 23.1 17.8 26.8

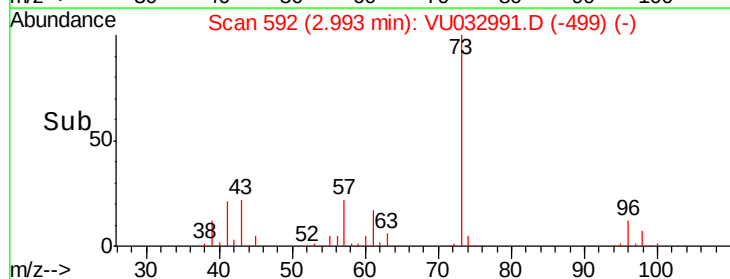
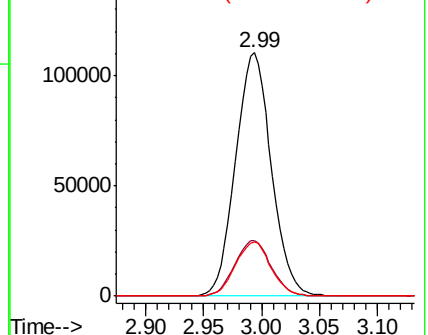
57 22.3 17.8 26.6

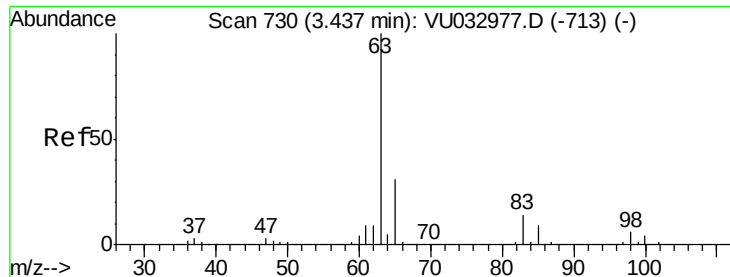


Abundance Ion 73.00 (72.70 to 73.70): VU032977.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU032977.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU032977.D (-576) (-)

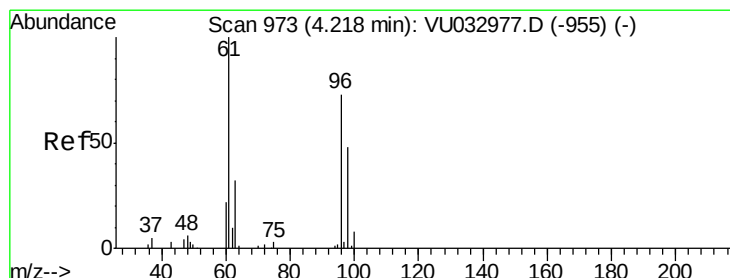
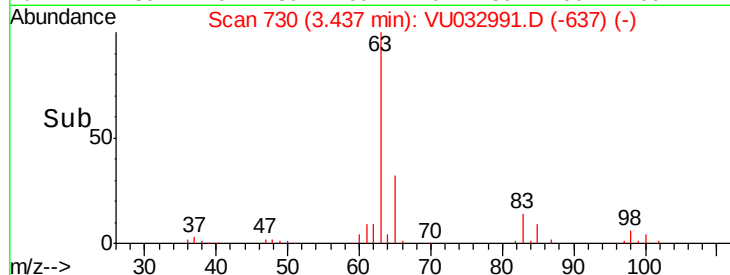
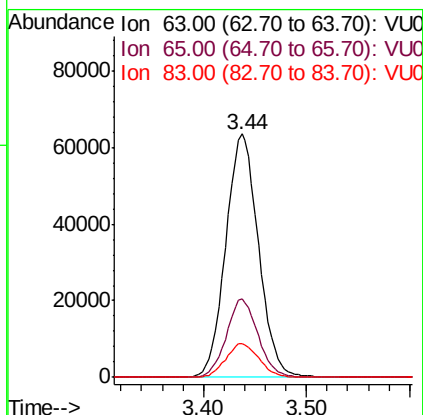
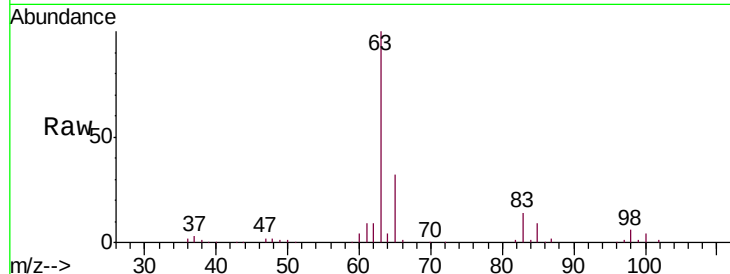




#19
 1,1-Dichloroethane
 Concen: 52.267 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

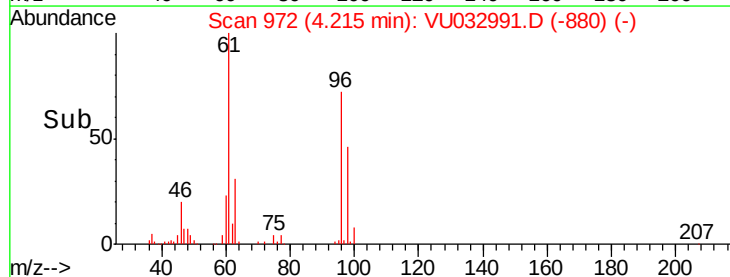
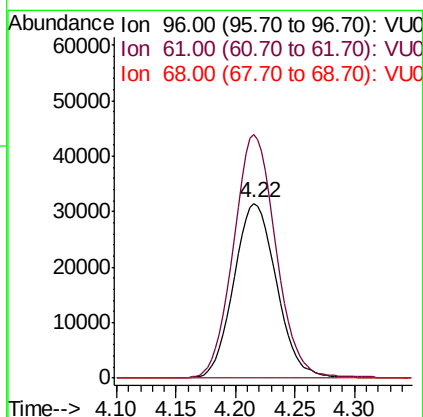
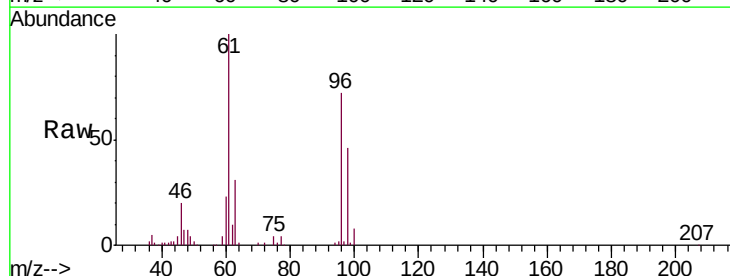
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

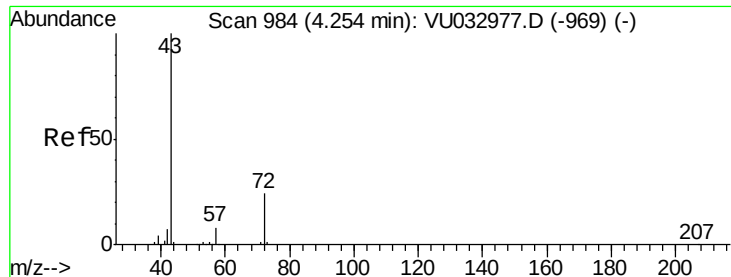
Tgt Ion: 63 Resp: 140434
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.0 41.0
 83 13.9 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 50.998 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion: 96 Resp: 78299
 Ion Ratio Lower Upper
 96 100
 61 139.4 92.4 171.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 109.234 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

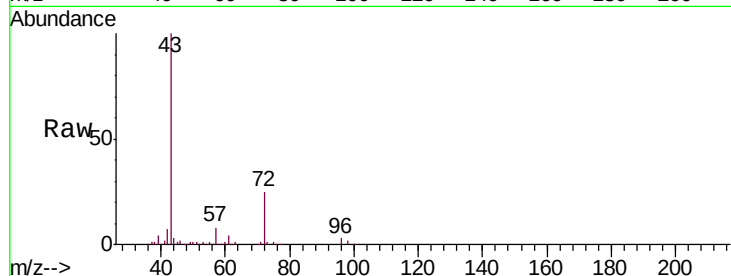
VSTD05060

Tgt Ion: 43 Resp: 183578

Ion Ratio Lower Upper

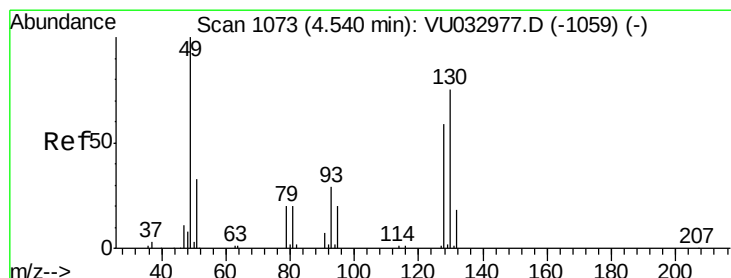
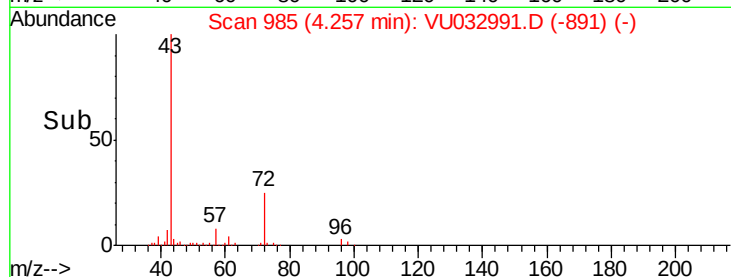
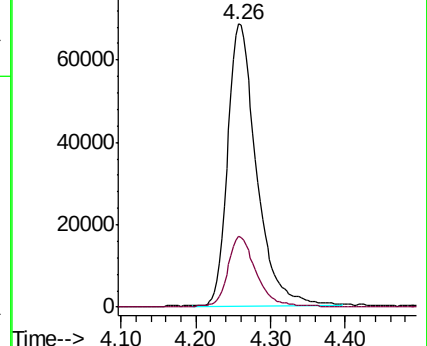
43 100

72 25.1 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU032977.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU032977.D (-969) (-)



#23

Bromochloromethane

Concen: 51.017 ug/L

RT: 4.54 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Tgt Ion: 128 Resp: 40862

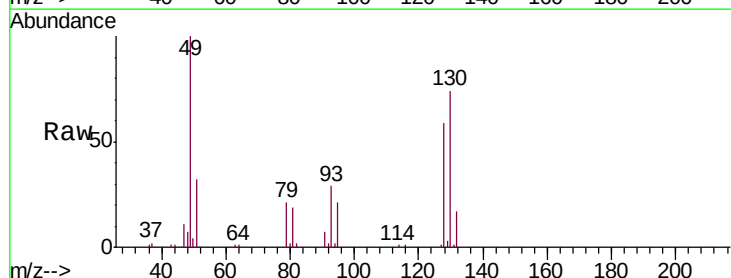
Ion Ratio Lower Upper

128 100

49 170.7 114.7 212.9

130 126.3 89.4 166.0

51 55.0 42.0 63.0

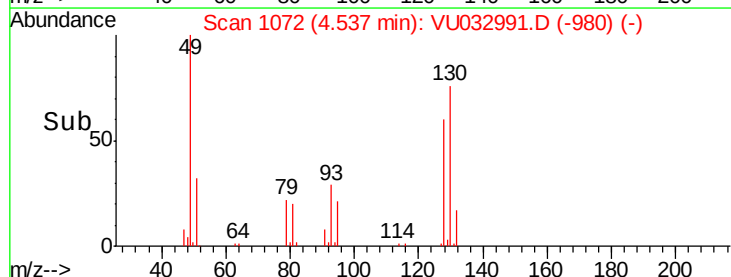
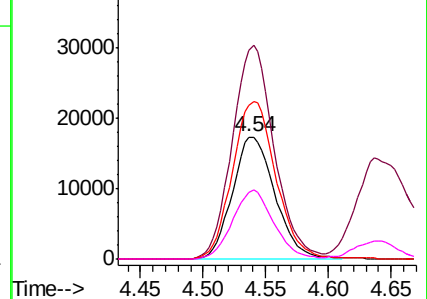


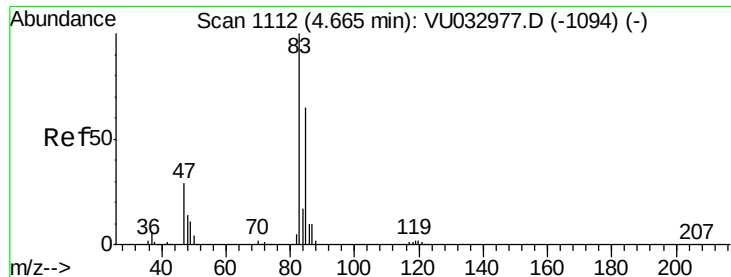
Abundance Ion 128.00 (127.70 to 128.70): VU032977.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032977.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032977.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032977.D (-1059) (-)





#25

Chloroform

Concen: 52.554 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

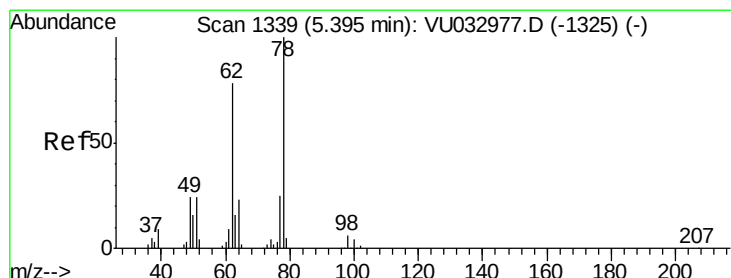
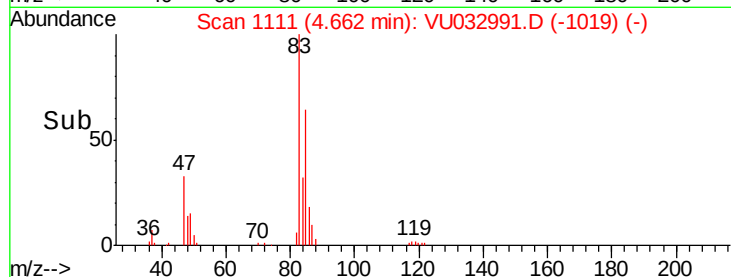
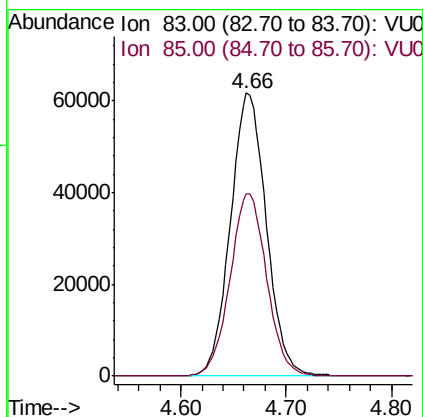
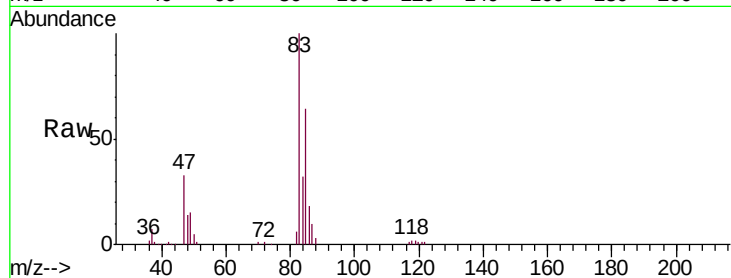
VSTD05060

Tgt Ion: 83 Resp: 145616

Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.2



#27

1,2-Dichloroethane

Concen: 54.652 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VU032991.D

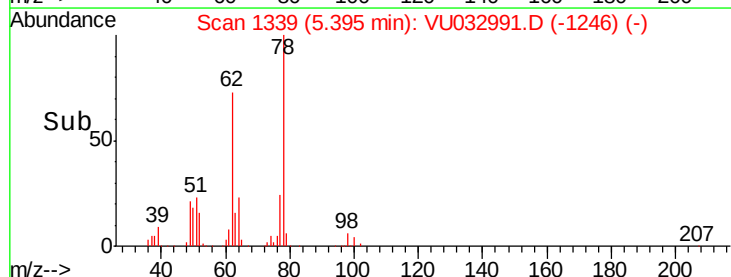
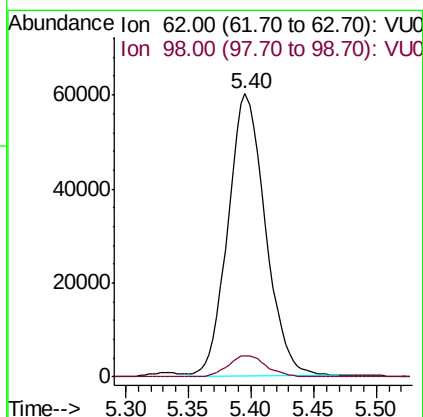
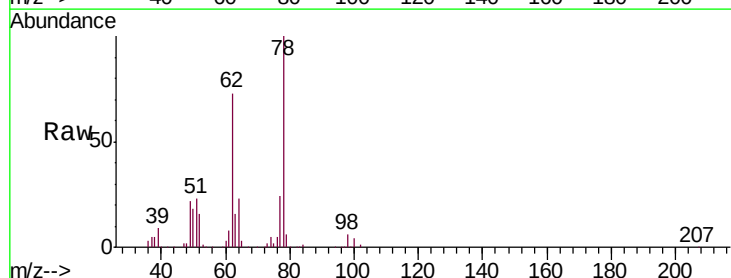
Acq: 24 Jun 2019 08:53

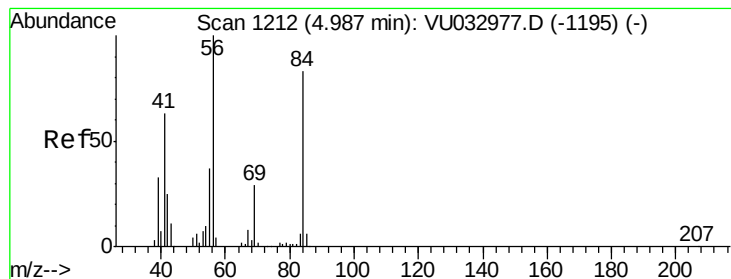
Tgt Ion: 62 Resp: 124402

Ion Ratio Lower Upper

62 100

98 7.6 6.6 10.0





#29

Cyclohexane

Concen: 51.071 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

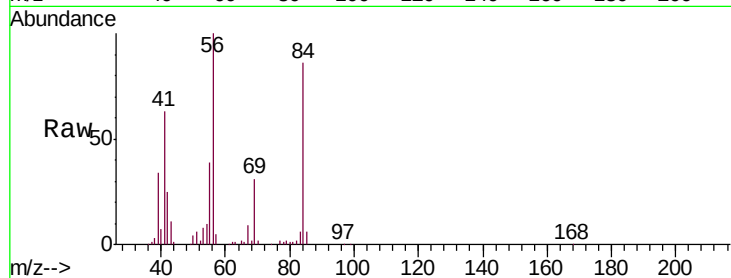
Tgt Ion: 56 Resp: 120383

Ion Ratio Lower Upper

56 100

69 29.7 24.2 36.4

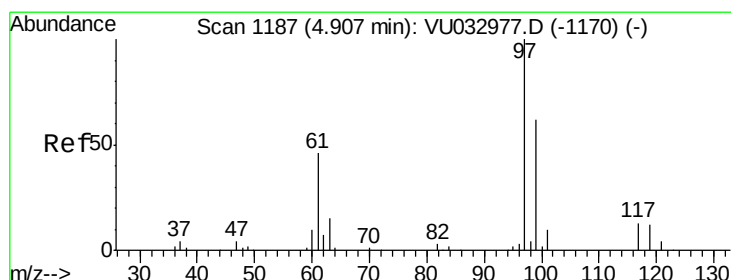
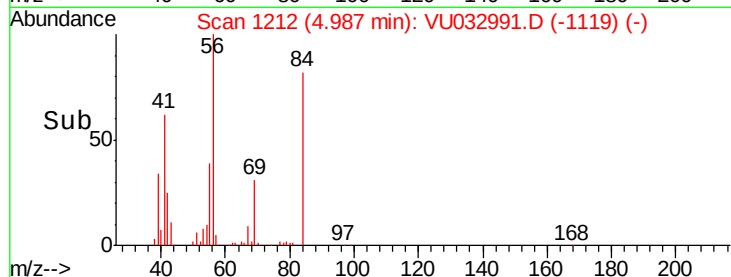
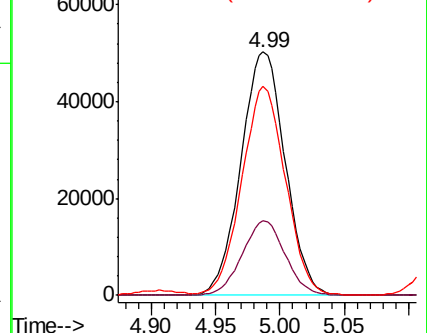
84 84.7 68.0 102.0



Abundance Ion 56.00 (55.70 to 56.70): VU032991.D (-1195) (-)

Ion 69.00 (68.70 to 69.70): VU032991.D (-1195) (-)

Ion 84.00 (83.70 to 84.70): VU032991.D (-1195) (-)



#30

1,1,1-Trichloroethane

Concen: 52.717 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

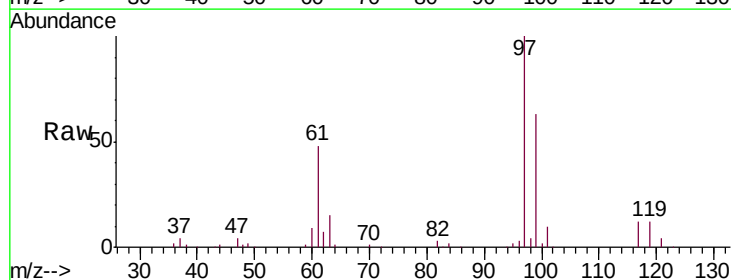
Tgt Ion: 97 Resp: 129656

Ion Ratio Lower Upper

97 100

99 63.4 50.7 76.1

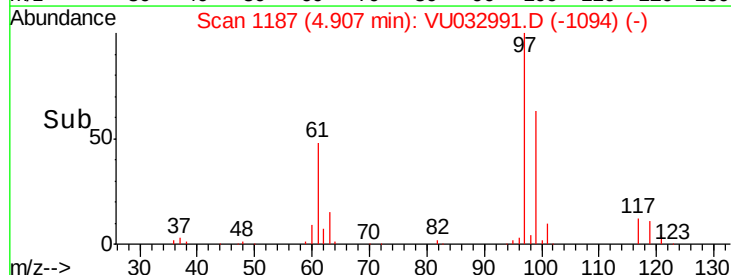
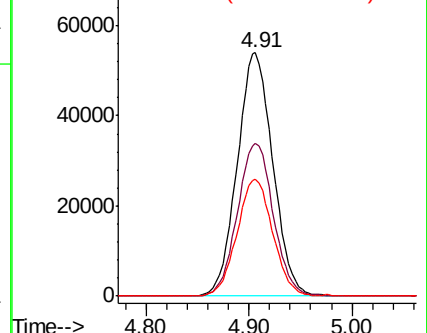
61 48.2 36.7 55.1

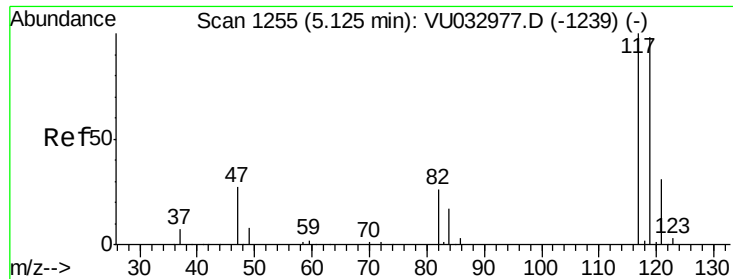


Abundance Ion 97.00 (96.70 to 97.70): VU032991.D (-1094) (-)

Ion 99.00 (98.70 to 99.70): VU032991.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU032991.D (-1094) (-)





#31

Carbon tetrachloride

Concen: 52.820 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

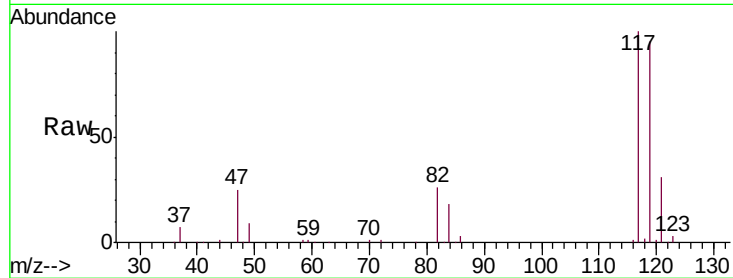
VSTD05060

Tgt Ion:117 Resp: 118203

Ion Ratio Lower Upper

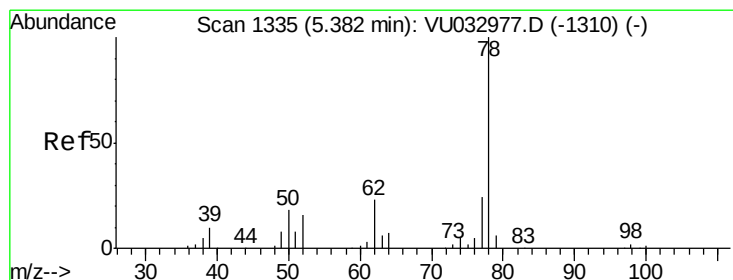
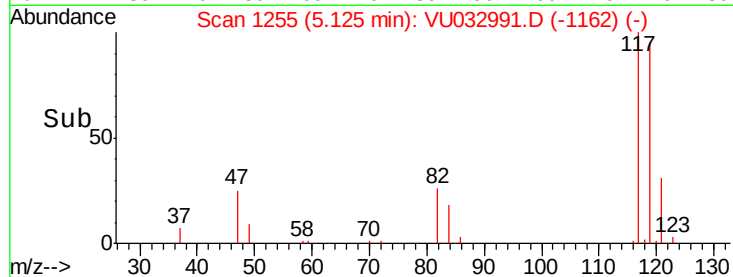
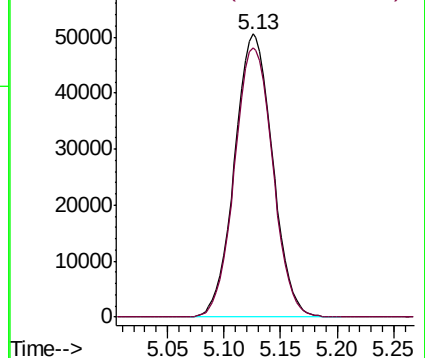
117 100

119 95.7 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.641 ug/L

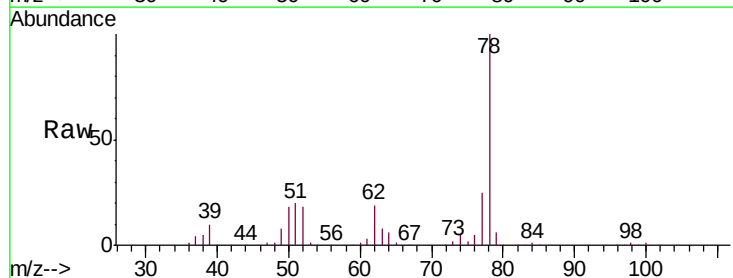
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

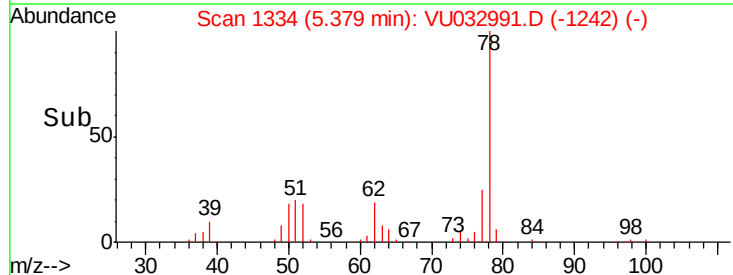
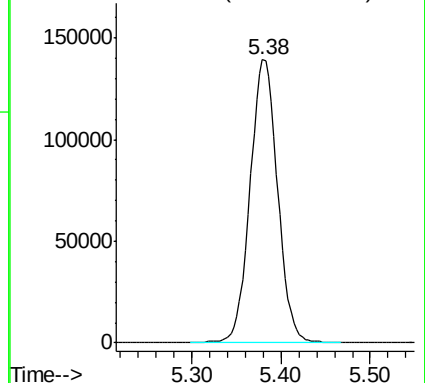
Lab File: VU032991.D

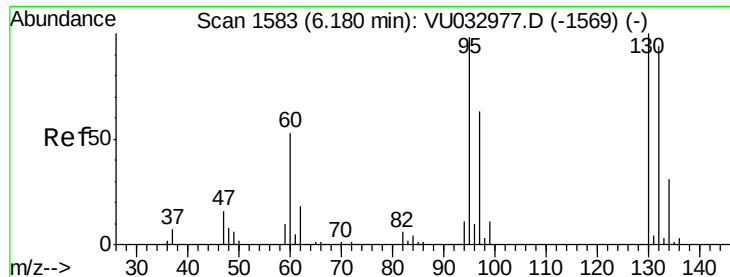
Acq: 24 Jun 2019 08:53

Tgt Ion: 78 Resp: 300318



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.276 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

Tgt Ion: 95 Resp: 79673

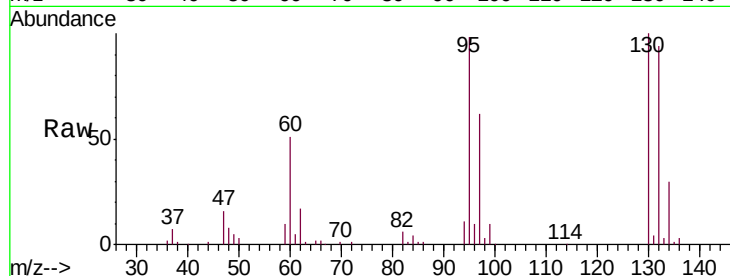
Ion Ratio Lower Upper

95 100

97 63.2 45.9 85.3

132 95.7 68.5 127.3

130 102.1 70.8 131.4

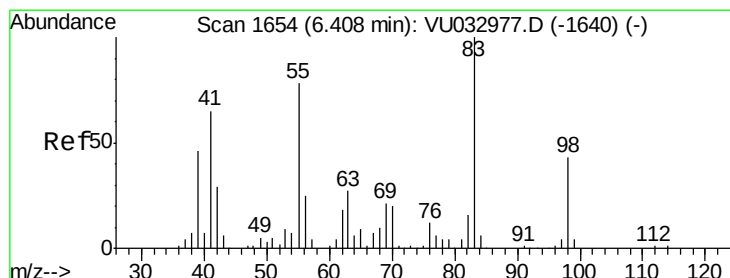
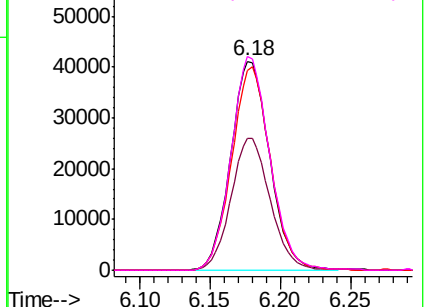
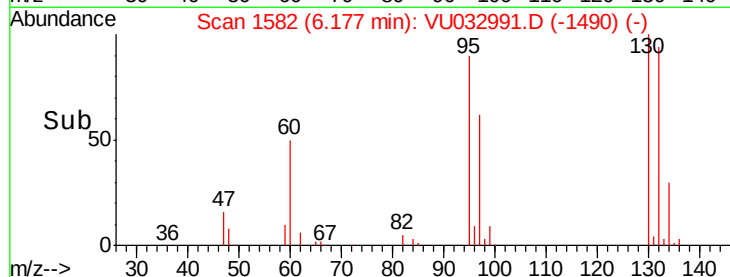


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.396 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

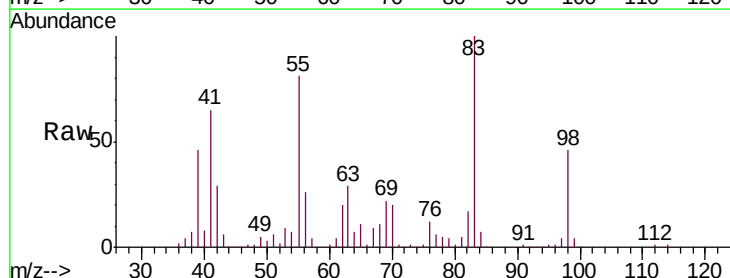
Tgt Ion: 83 Resp: 125843

Ion Ratio Lower Upper

83 100

55 80.9 62.6 94.0

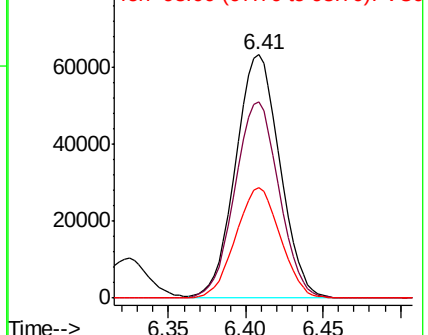
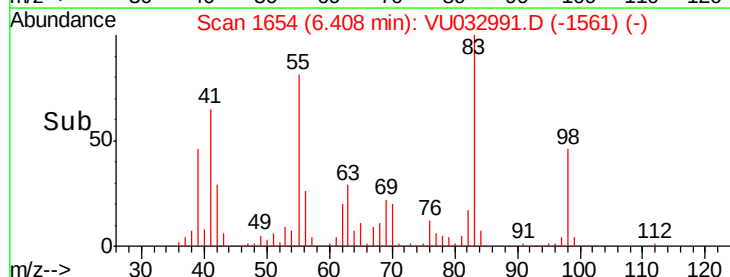
98 46.0 37.4 56.0

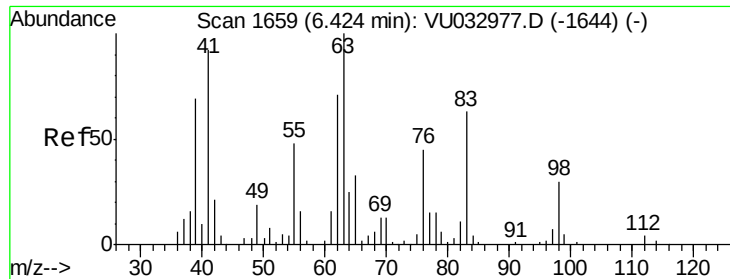


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

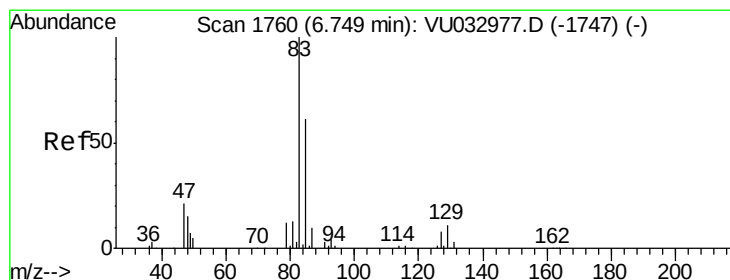
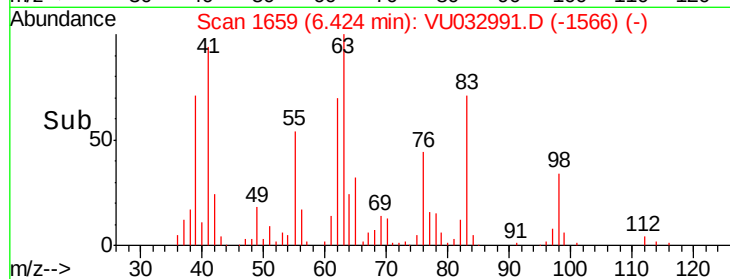
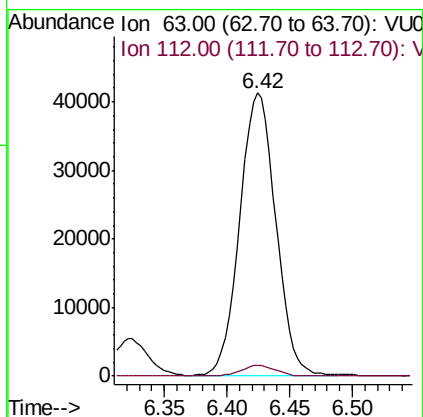
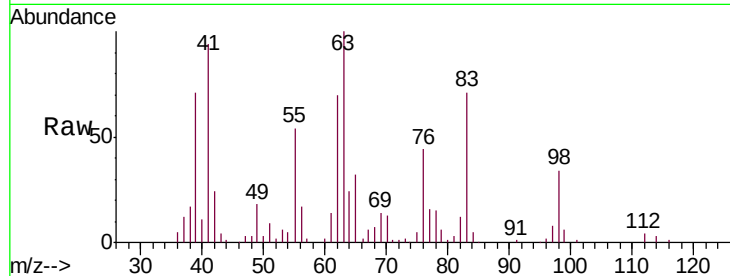




#37
 1,2-Dichloropropane
 Concen: 51.506 ug/L
 RT: 6.42 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

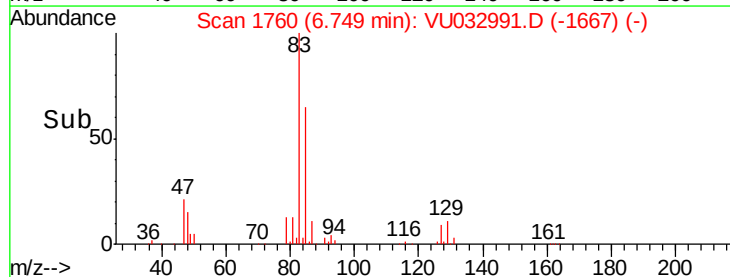
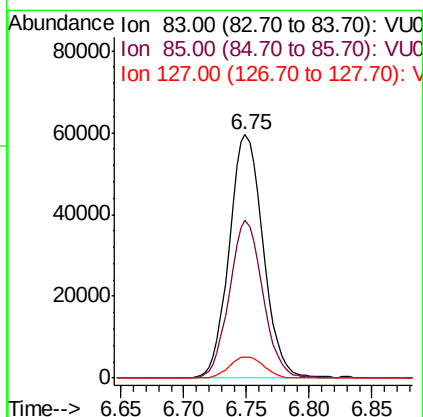
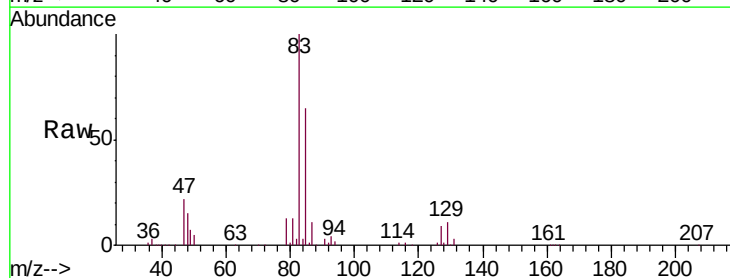
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

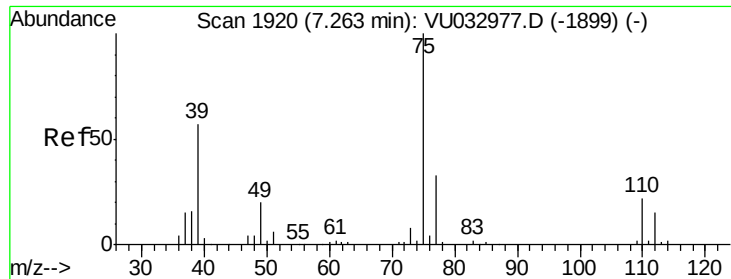
Tgt Ion: 63 Resp: 82163
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 52.282 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion: 83 Resp: 112144
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.0 83.6
 127 8.8 7.0 10.6

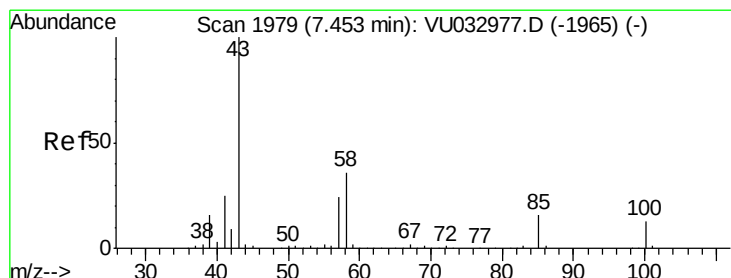
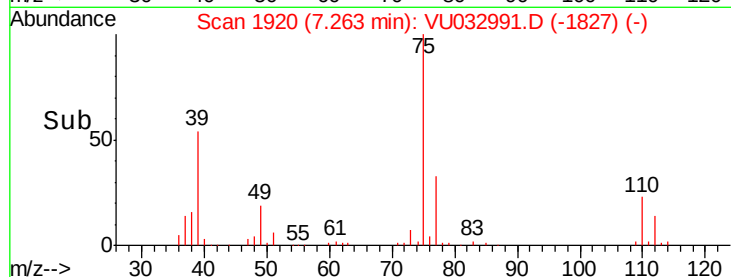
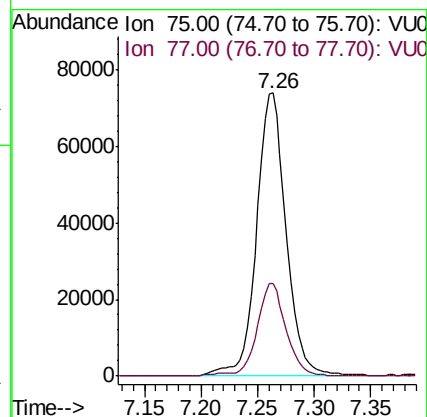
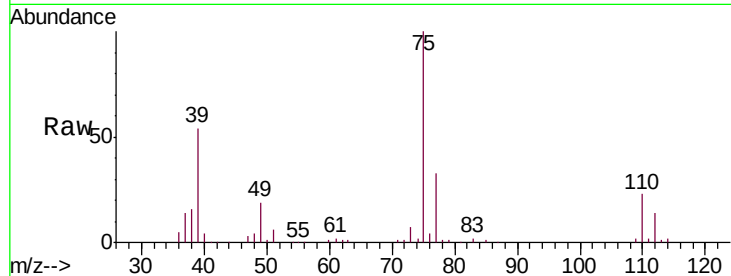




#39
 cis-1,3-Dichloropropene
 Concen: 53.951 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

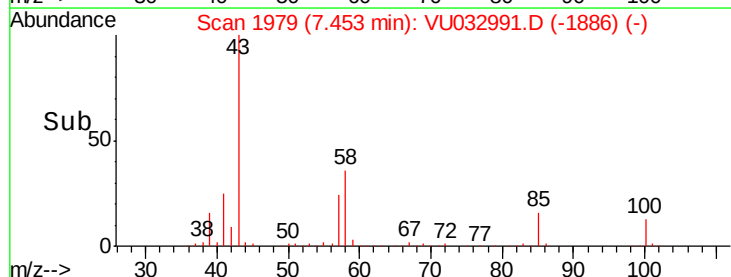
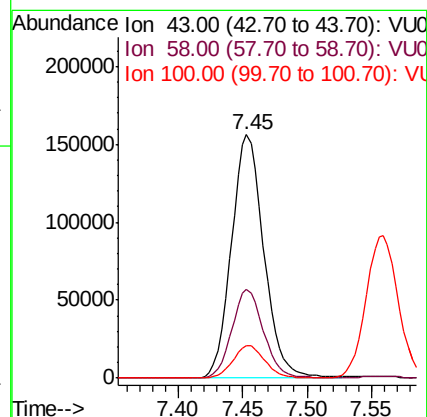
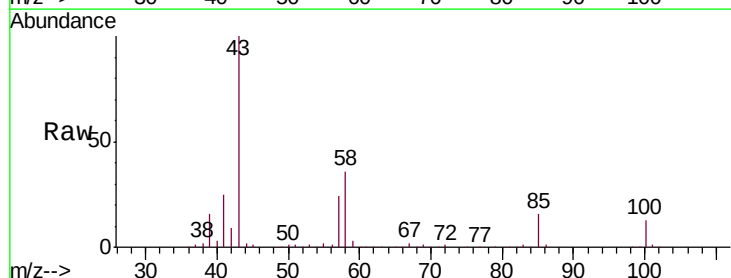
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

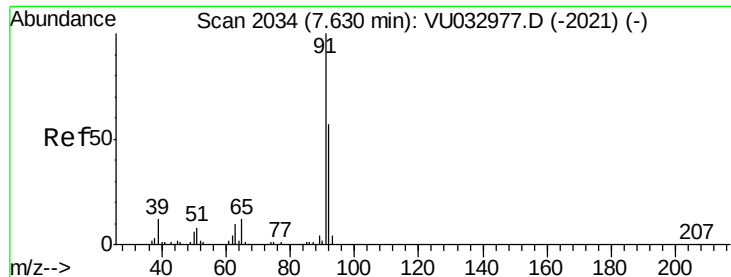
Tgt Ion: 75 Resp: 134083
 Ion Ratio Lower Upper
 75 100
 77 32.8 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 107.070 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion: 43 Resp: 272687
 Ion Ratio Lower Upper
 43 100
 58 35.7 29.4 44.2
 100 13.2 11.2 16.8





#42

Toluene

Concen: 52.260 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

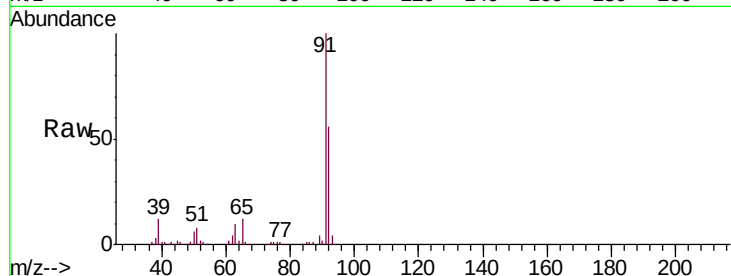
VSTD05060

Tgt Ion: 91 Resp: 328822

Ion Ratio Lower Upper

91 100

92 56.4 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU032977.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032977.D (-2021) (-)

7.63

200000

150000

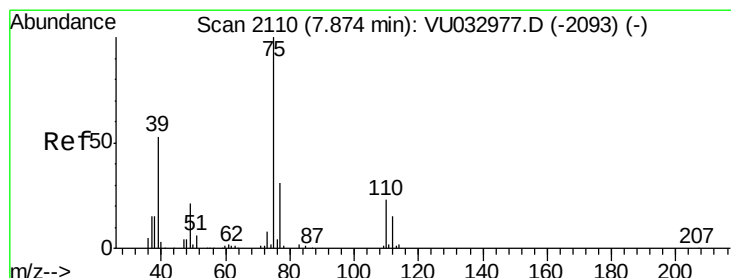
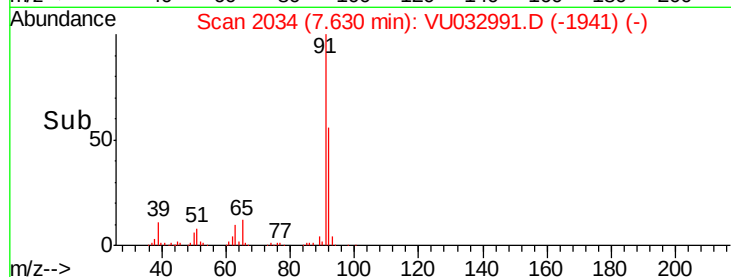
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.379 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032991.D

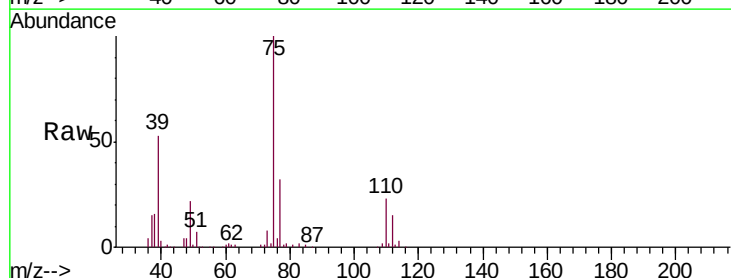
Acq: 24 Jun 2019 08:53

Tgt Ion: 75 Resp: 122270

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032977.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU032977.D (-2093) (-)

7.87

80000

60000

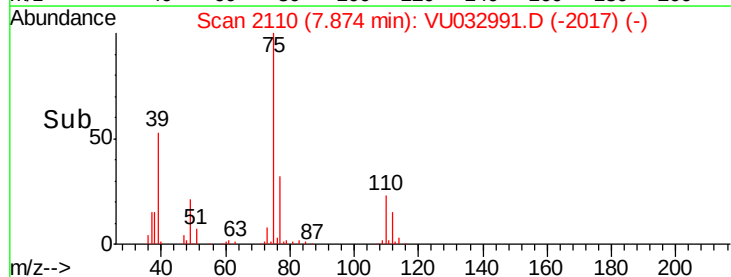
40000

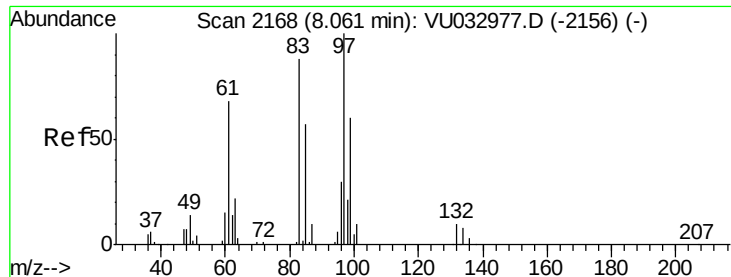
20000

0

7.80 7.85 7.90 7.95

Time-->

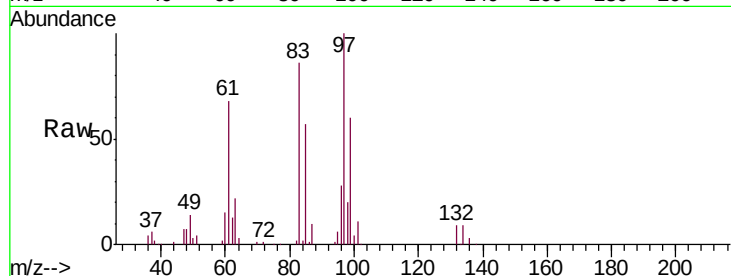




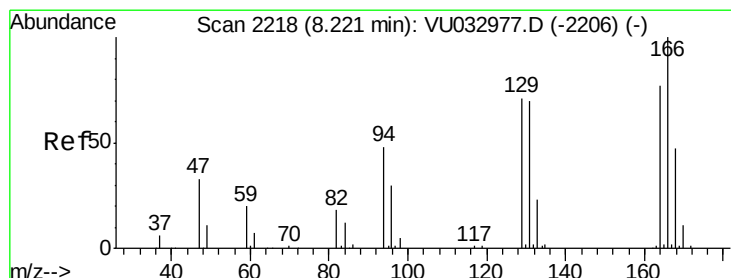
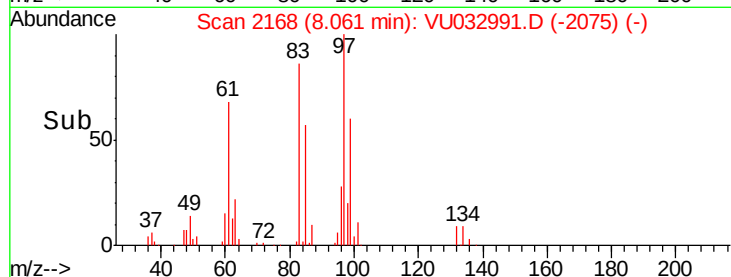
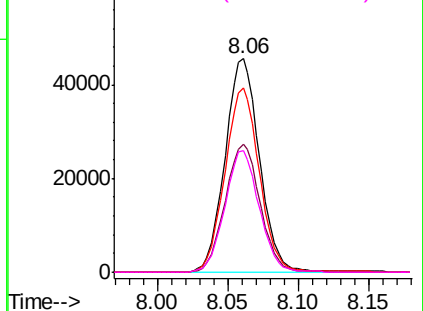
#45
 1,1,2-Trichloroethane
 Concen: 52.211 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tgt Ion:	97	Resp:	77521
Ion	Ratio	Lower	Upper
97	100		
99	59.9	43.1	80.1
83	86.2	61.4	114.0
85	56.7	39.2	72.8

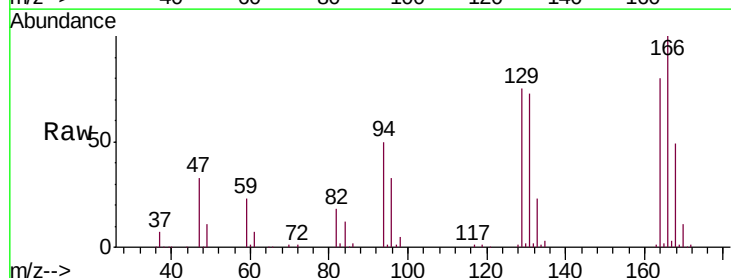


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

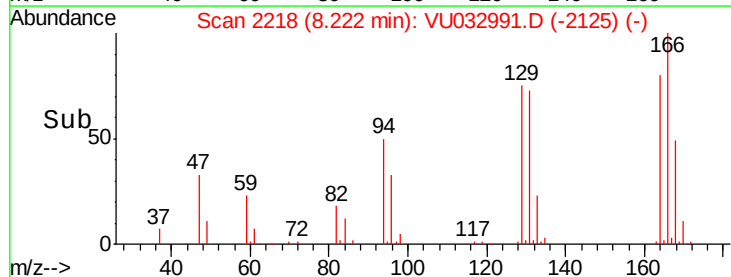
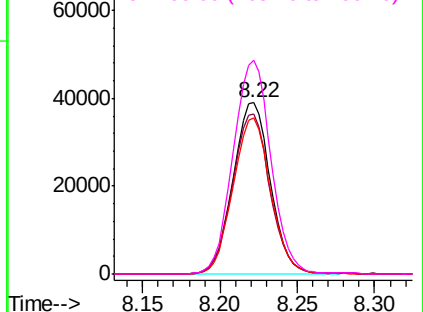


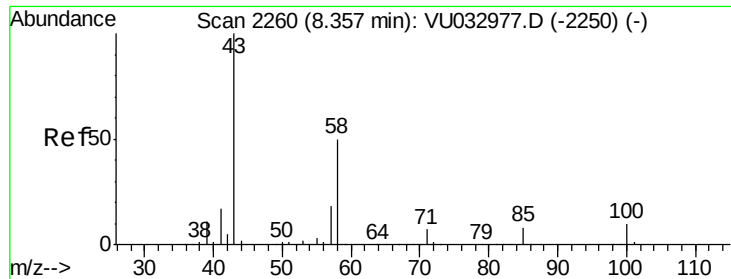
#46
 Tetrachloroethene
 Concen: 51.346 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion:	164	Resp:	65375
Ion	Ratio	Lower	Upper
164	100		
129	93.3	64.8	120.3
131	91.0	64.5	119.7
166	124.6	91.3	169.6



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: 106.166 ug/L

RT: 8.36 min Scan# 2260

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

Tgt Ion: 43 Resp: 238562

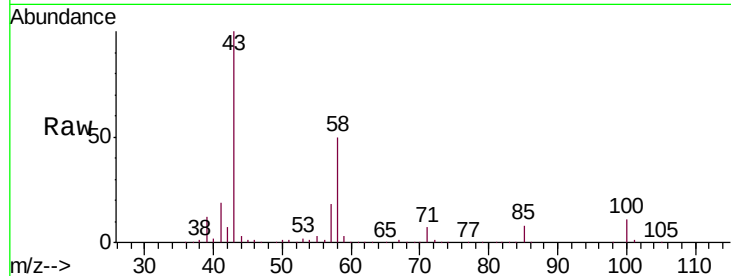
Ion Ratio Lower Upper

43 100

58 48.8 40.2 60.2

57 18.3 14.2 21.4

100 10.1 8.4 12.6

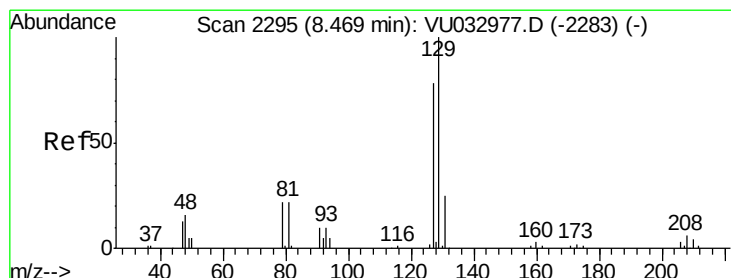
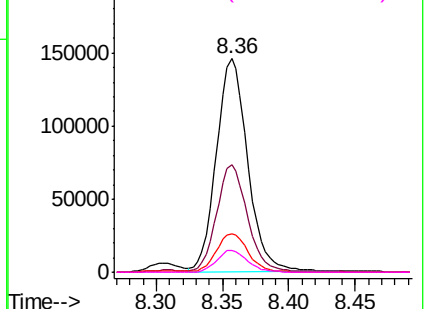
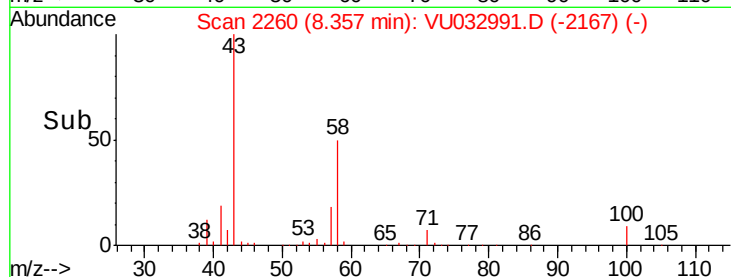


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 50.682 ug/L

RT: 8.47 min Scan# 2295

Delta R.T. 0.00 min

Lab File: VU032991.D

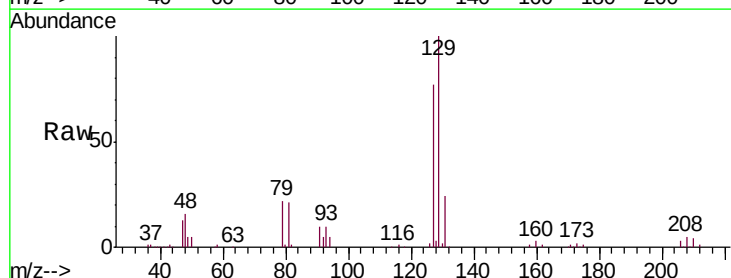
Acq: 24 Jun 2019 08:53

Tgt Ion: 129 Resp: 90717

Ion Ratio Lower Upper

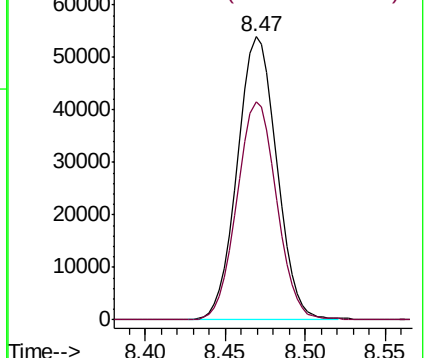
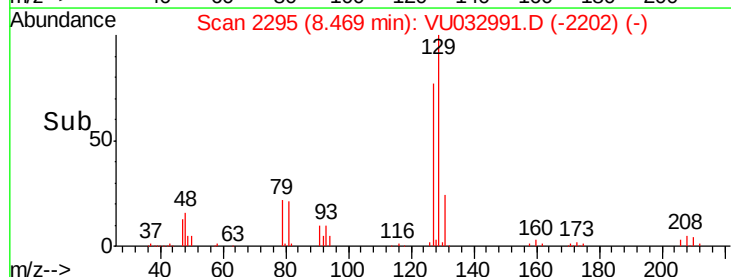
129 100

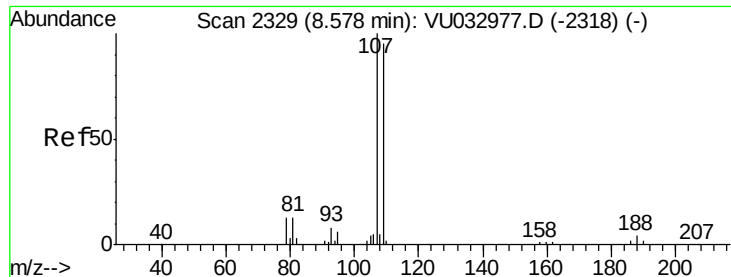
127 77.2 52.3 97.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 50.632 ug/L

RT: 8.58 min Scan# 2329

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

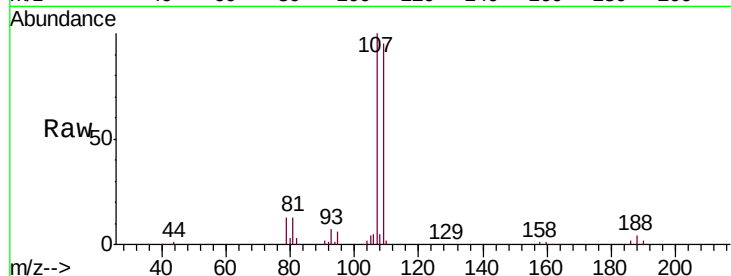
Tgt Ion:107 Resp: 83487

Ion Ratio Lower Upper

107 100

109 95.1 65.4 121.4

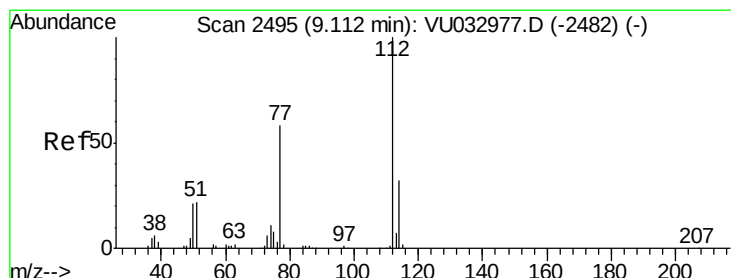
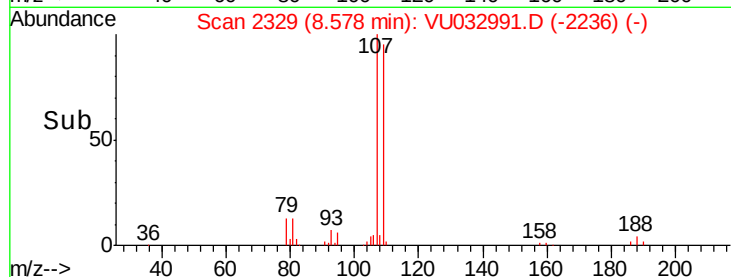
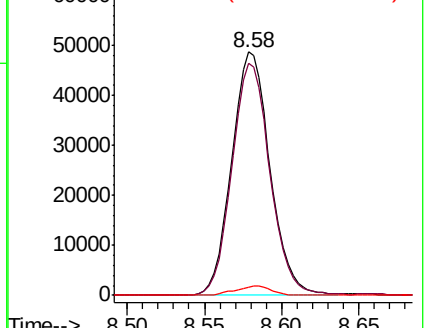
188 3.6 3.1 4.7



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: 50.550 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

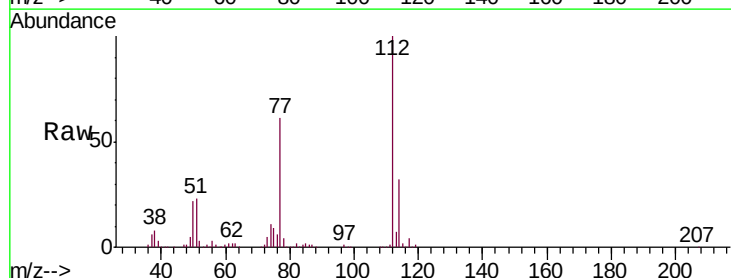
Tgt Ion:112 Resp: 209301

Ion Ratio Lower Upper

112 100

114 31.8 22.8 42.4

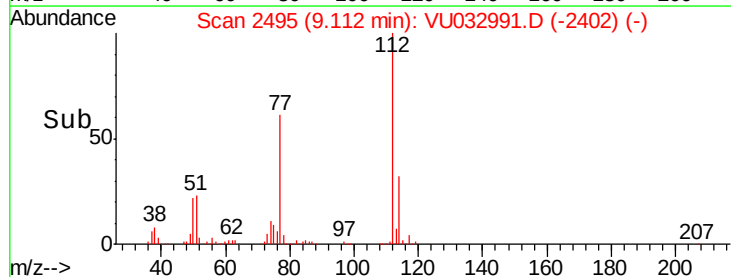
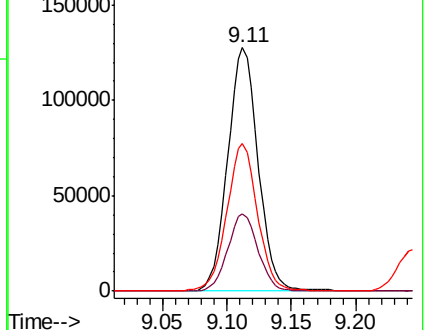
77 60.6 46.3 69.5

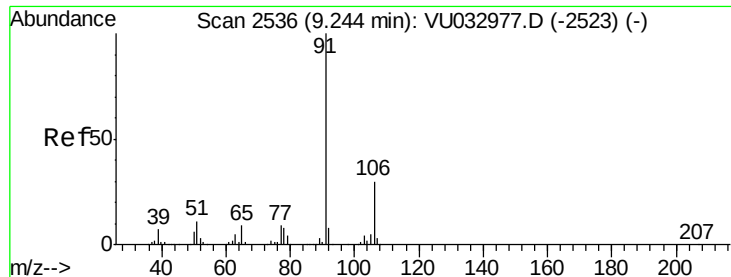


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 52.064 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

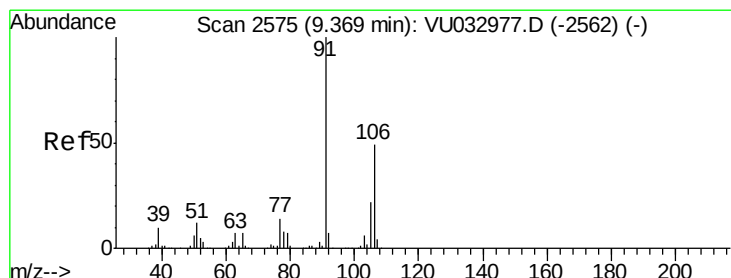
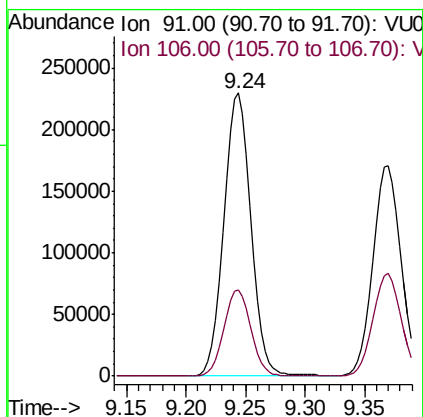
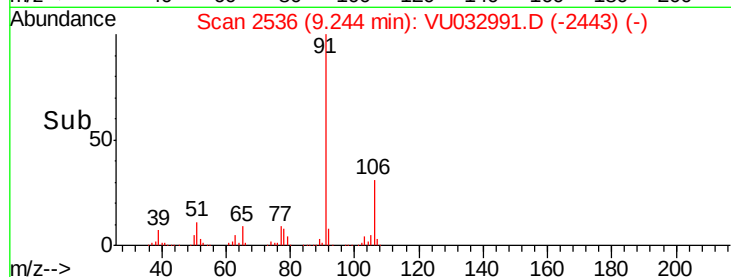
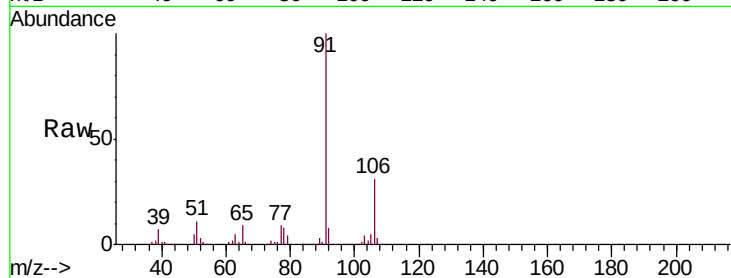
VSTD05060

Tgt Ion: 91 Resp: 362606

Ion Ratio Lower Upper

91 100

106 30.7 21.8 40.4



#53

m,p-Xylene

Concen: 52.204 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032991.D

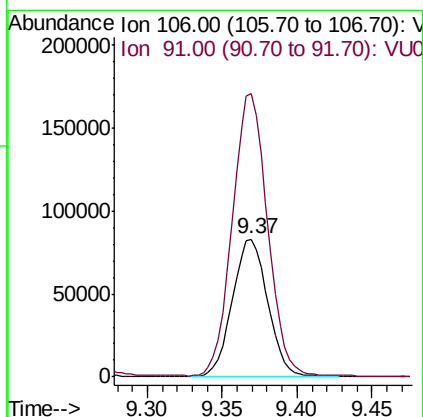
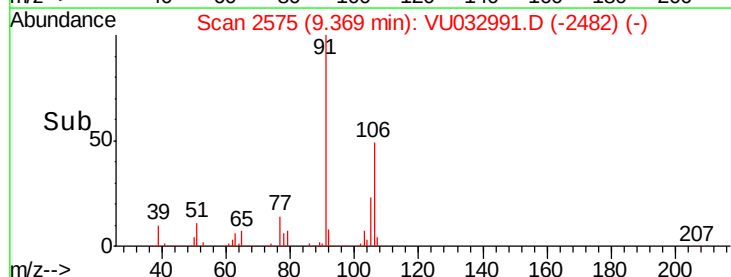
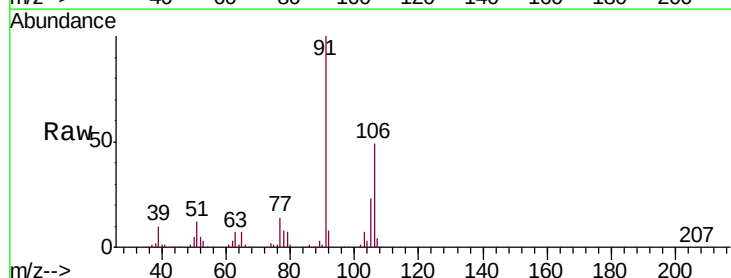
Acq: 24 Jun 2019 08:53

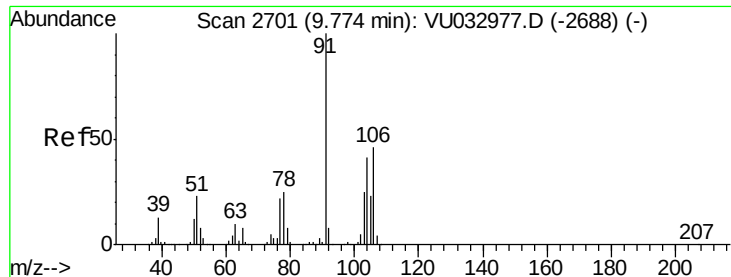
Tgt Ion: 106 Resp: 137177

Ion Ratio Lower Upper

106 100

91 205.5 142.9 265.5





#54

o-xylene

Concen: 51.384 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

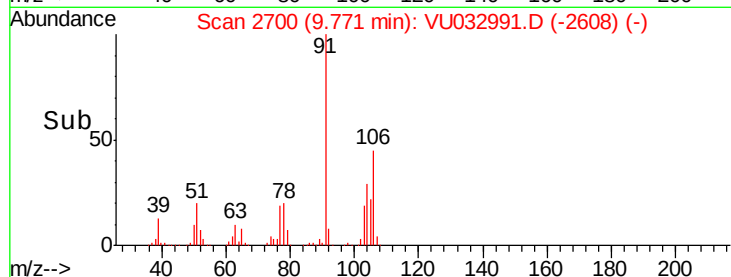
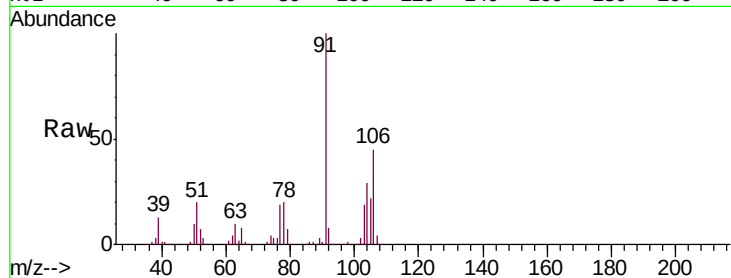
VSTD05060

Tgt Ion:106 Resp: 131858

Ion Ratio Lower Upper

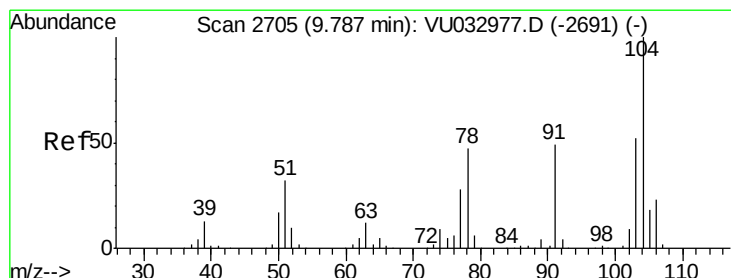
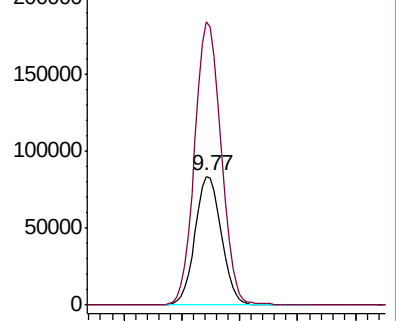
106 100

91 220.2 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.857 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032991.D

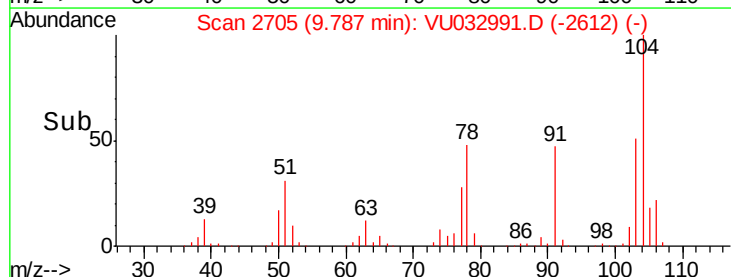
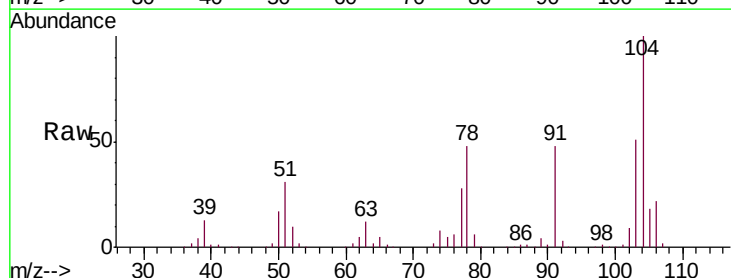
Acq: 24 Jun 2019 08:53

Tgt Ion:104 Resp: 230855

Ion Ratio Lower Upper

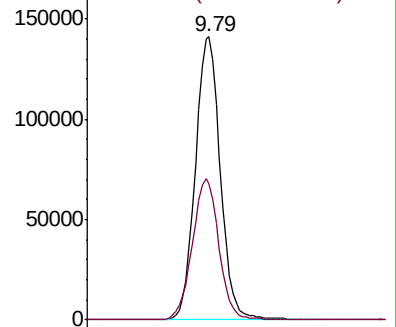
104 100

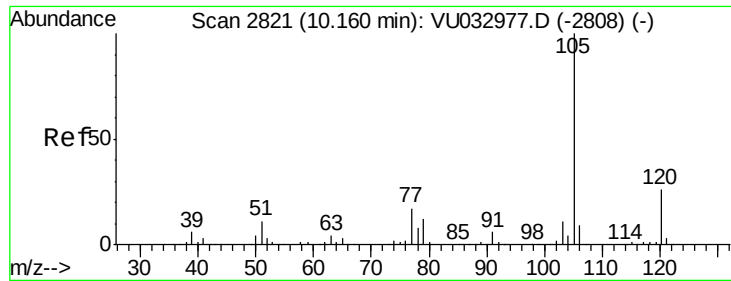
78 48.1 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.313 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

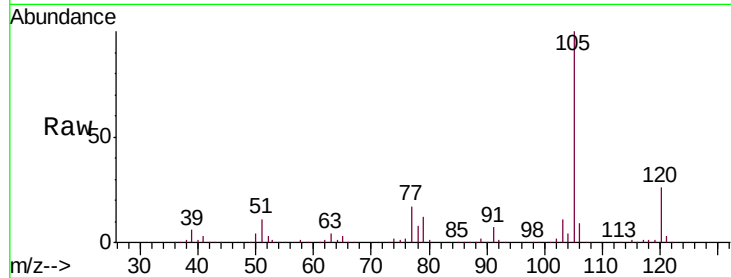
Tgt Ion: 105 Resp: 354862

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.0

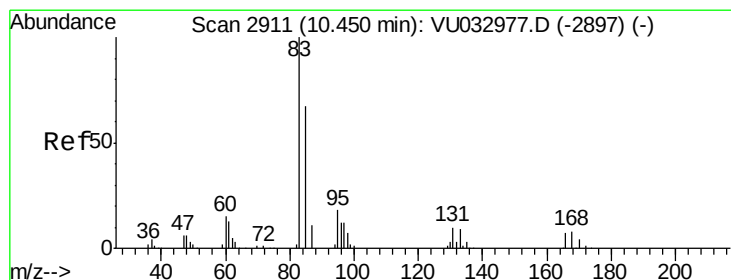
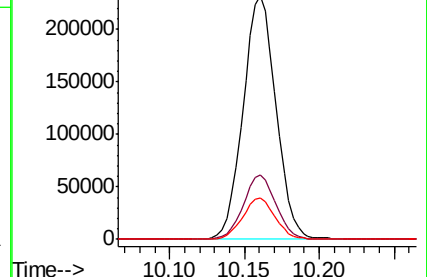
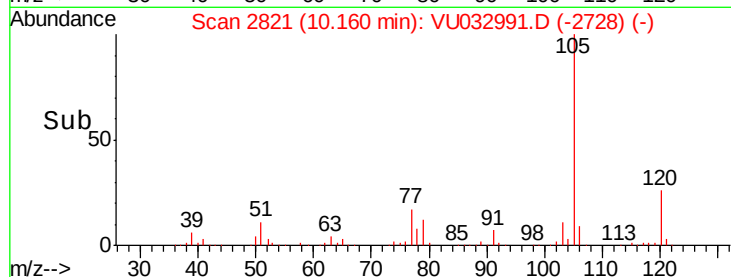
77 16.8 13.0 19.4



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: 49.690 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

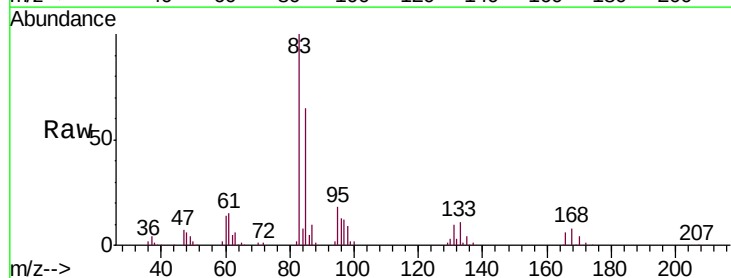
Tgt Ion: 83 Resp: 133502

Ion Ratio Lower Upper

83 100

85 65.1 45.8 85.2

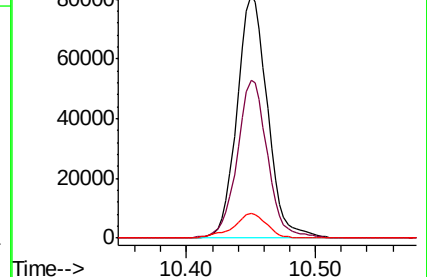
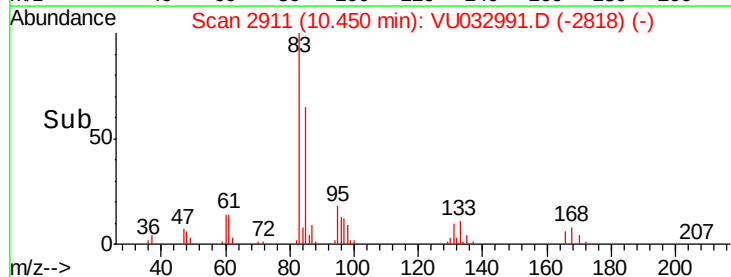
131 10.1 7.8 11.8

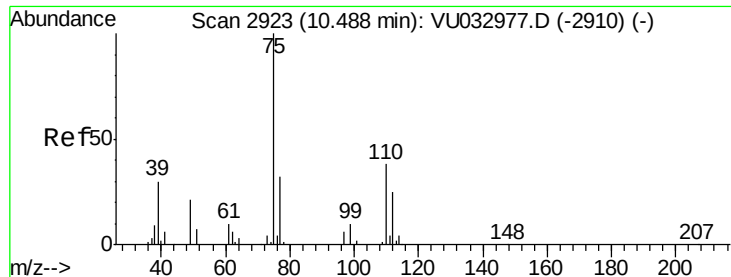


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

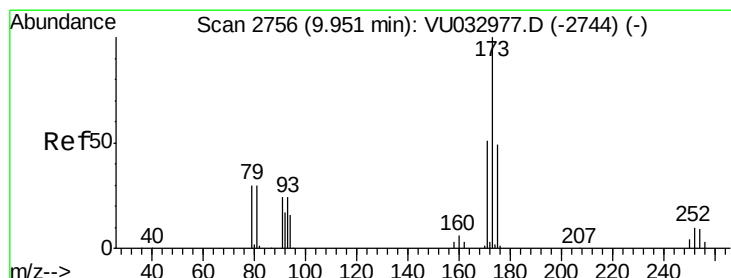
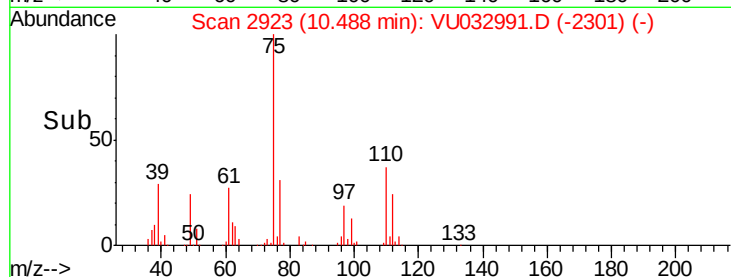
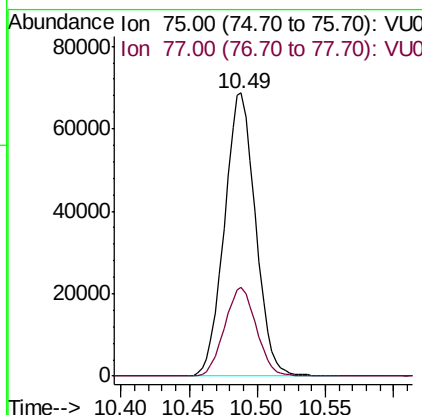
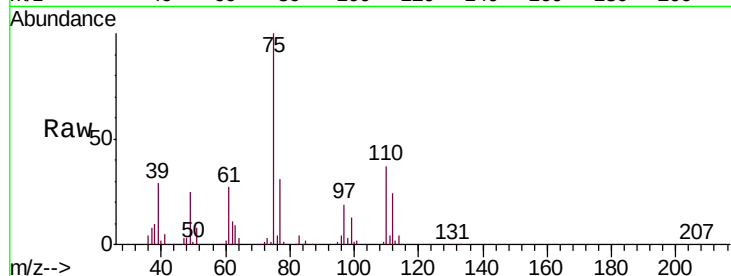




#59
 1,2,3-Trichloropropane
 Concen: 51.080 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

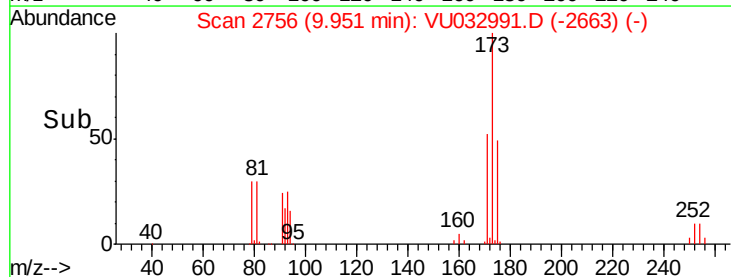
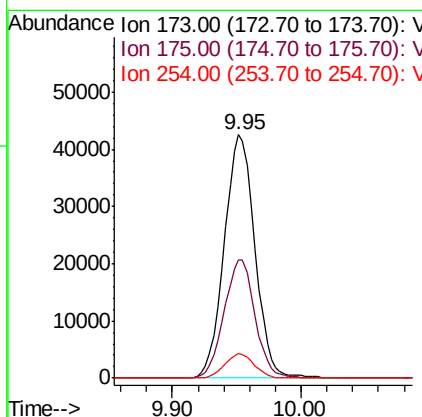
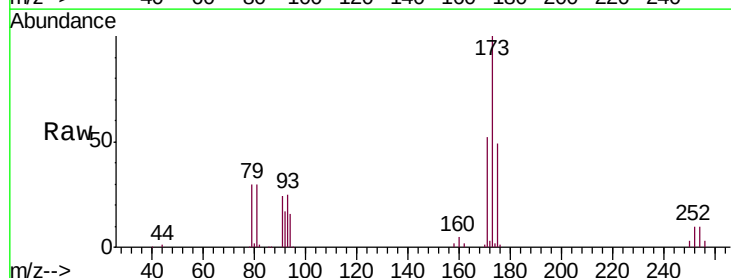
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

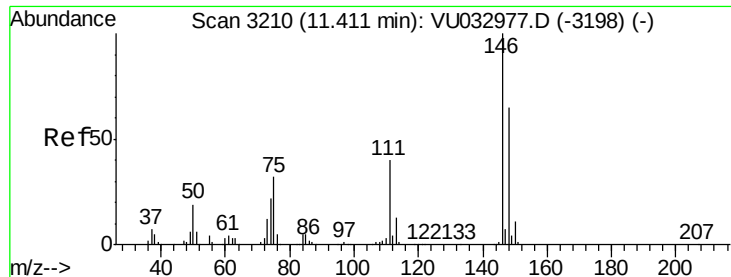
Tgt Ion: 75 Resp: 108743
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.5 38.3



#61
 Bromoform
 Concen: 50.625 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion: 173 Resp: 70108
 Ion Ratio Lower Upper
 173 100
 175 49.0 39.0 58.4
 254 9.6 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 49.962 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

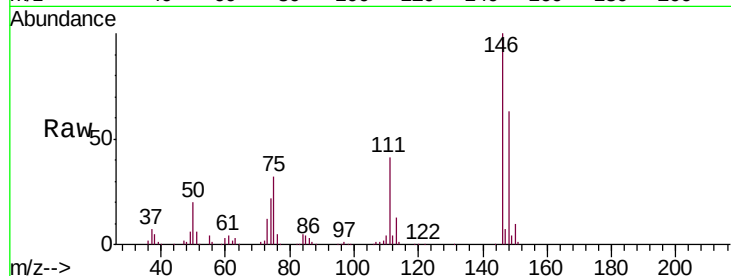
Tgt Ion:146 Resp: 164703

Ion Ratio Lower Upper

146 100

111 40.8 28.4 52.8

148 63.1 45.5 84.5

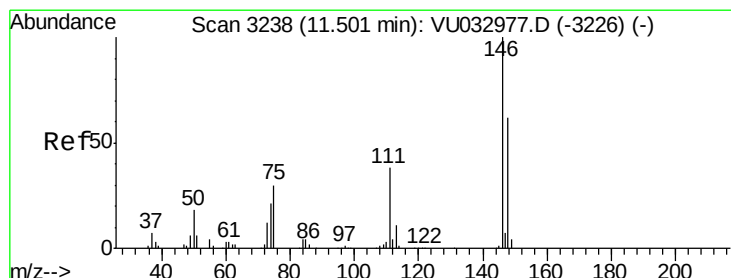
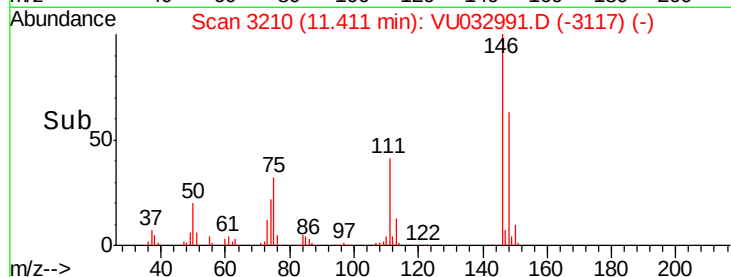
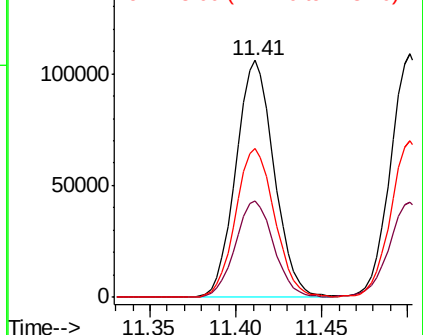


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.633 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

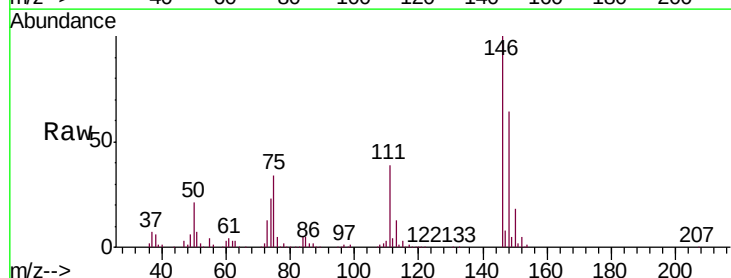
Tgt Ion:146 Resp: 172400

Ion Ratio Lower Upper

146 100

111 39.3 26.9 50.1

148 64.4 44.7 83.1

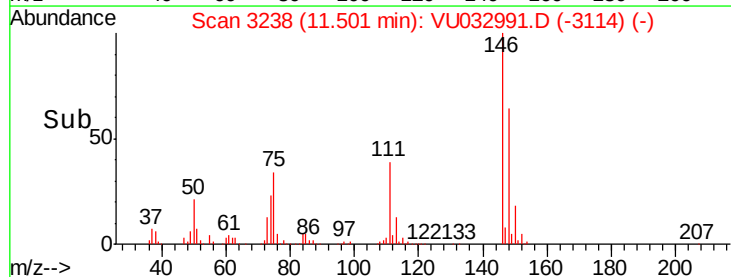
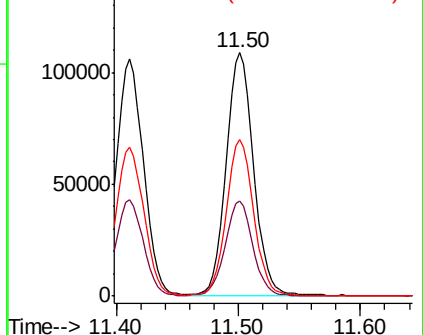


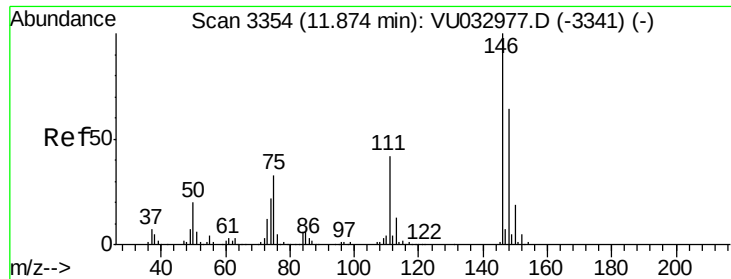
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

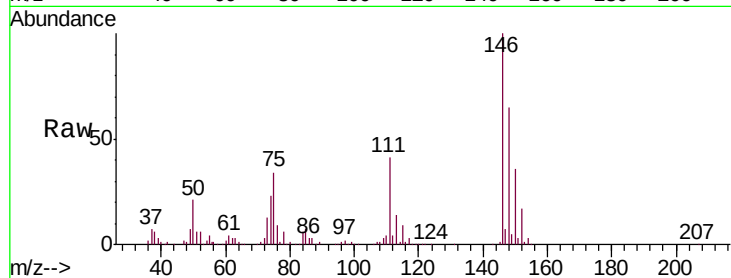




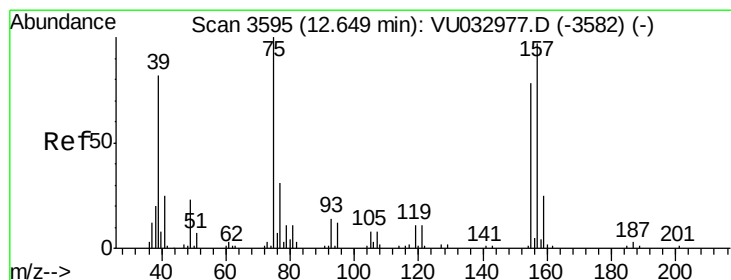
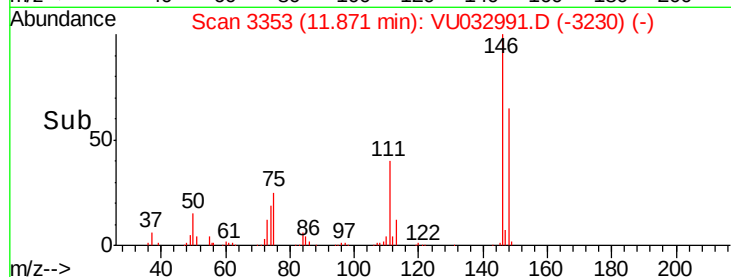
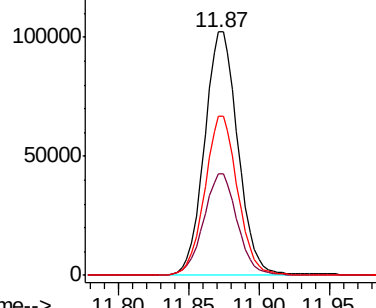
#65
 1,2-Dichlorobenzene
 Concen: 50.498 ug/L
 RT: 11.87 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tgt Ion: 146 Resp: 169974
 Ion Ratio Lower Upper
 146 100
 111 41.5 34.1 51.1
 148 65.3 52.0 78.0

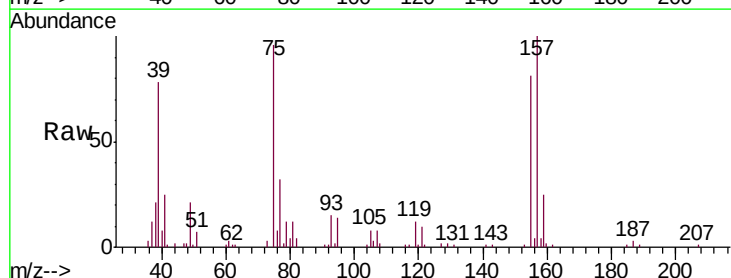


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

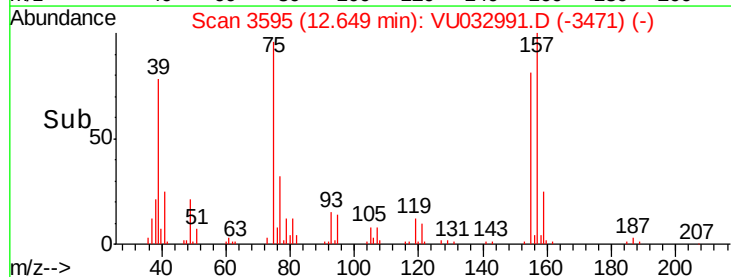
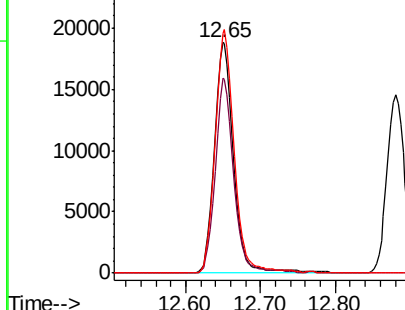


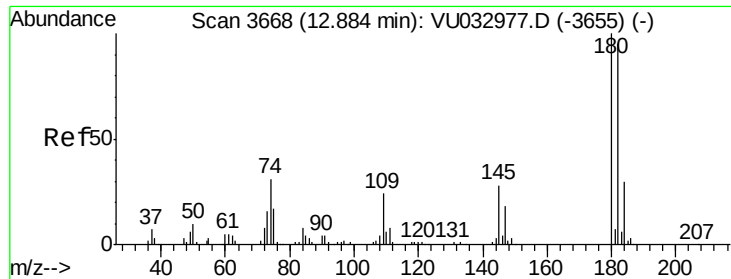
#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.298 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion: 75 Resp: 33584
 Ion Ratio Lower Upper
 75 100
 155 84.6 67.4 101.2
 157 104.0 85.5 128.3



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

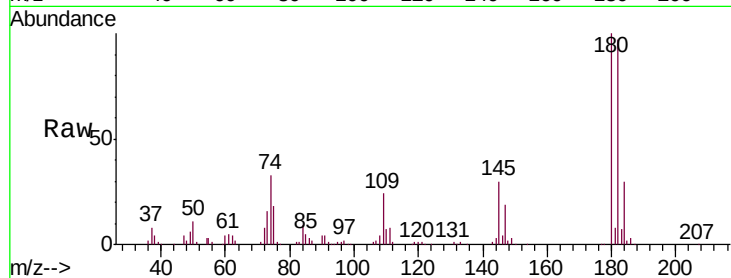




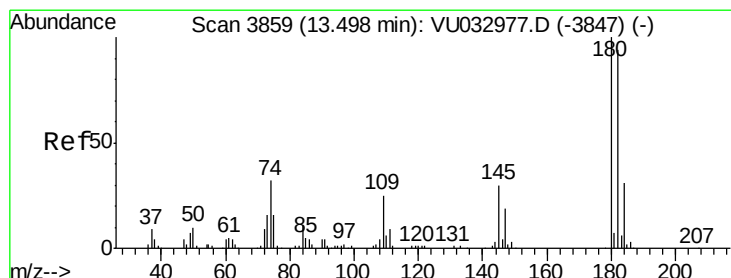
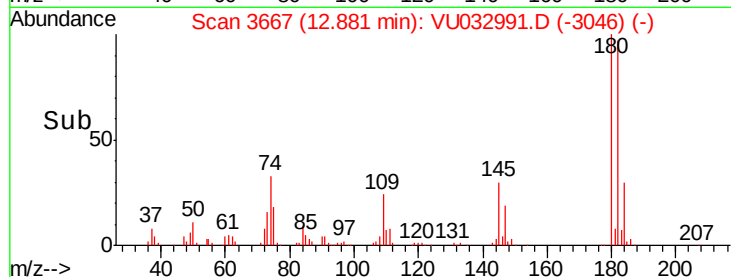
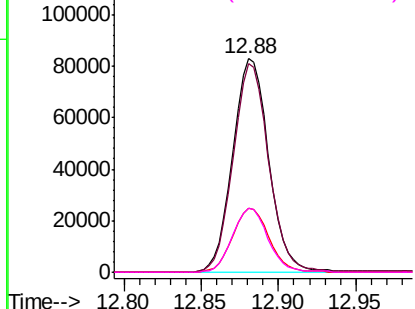
#67
 1,3,5-Trichlorobenzene
 Concen: 50.651 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. -0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tgt Ion:180 Resp: 134163
 Ion Ratio Lower Upper
 180 100
 182 97.2 78.3 117.5
 184 30.4 24.8 37.2
 145 29.7 23.4 35.2

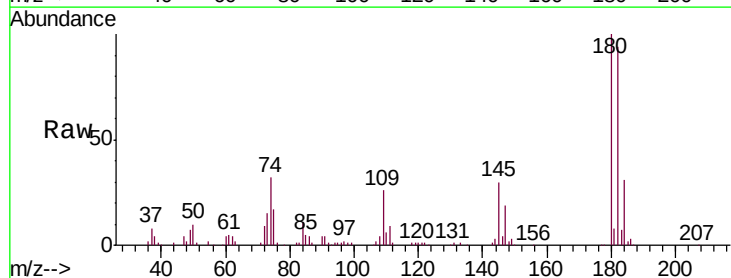


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

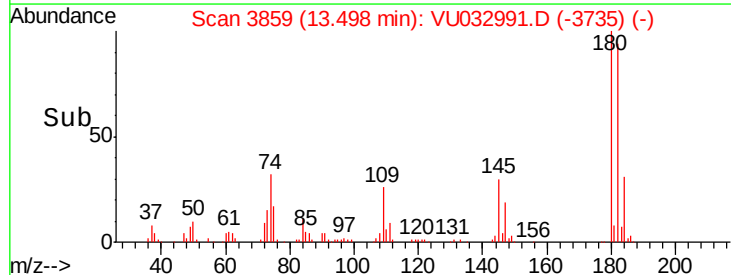
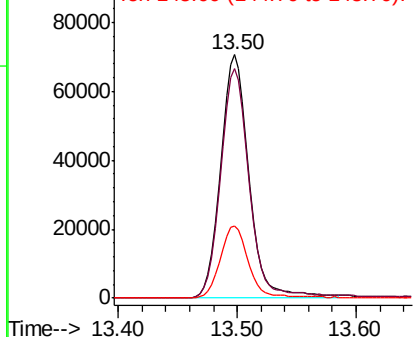


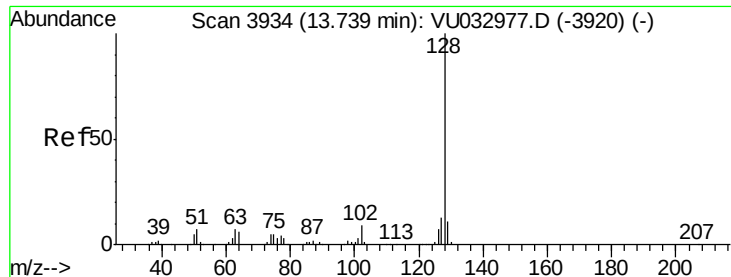
#68
 1,2,4-trichlorobenzene
 Concen: 51.253 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032991.D
 Acq: 24 Jun 2019 08:53

Tgt Ion:180 Resp: 116814
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.2 114.4
 145 29.6 23.8 35.8



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: 48.557 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

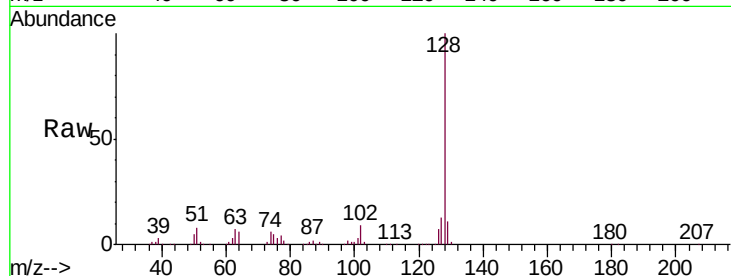
Tgt Ion:128 Resp: 340275

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

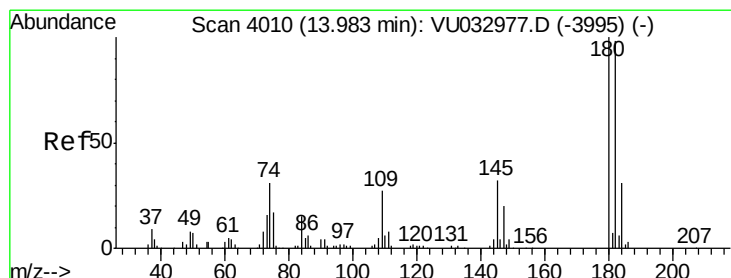
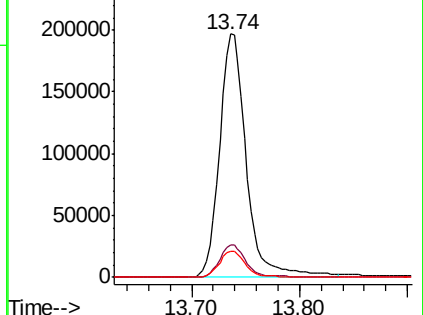
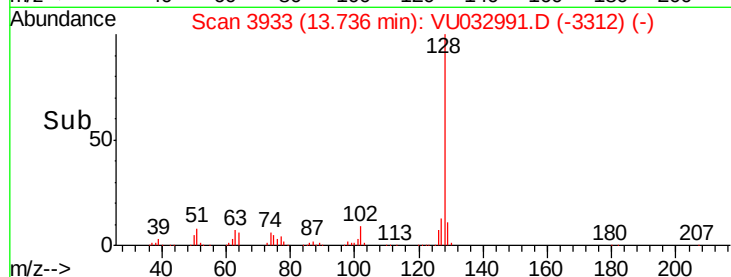
129 10.6 8.6 13.0



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: 50.385 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032991.D

Acq: 24 Jun 2019 08:53

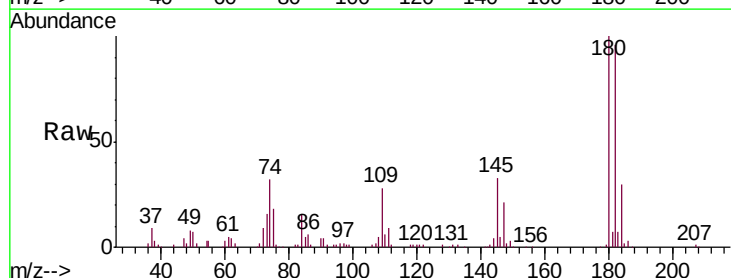
Tgt Ion:180 Resp: 121568

Ion Ratio Lower Upper

180 100

182 93.9 77.0 115.6

145 32.8 25.5 38.3



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

