

Data File : VU031837.D
Acq On : 08 May 2019 21:51
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Quant Time: May 09 05:37:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 09 05:32:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	410575	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	414318	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	181377	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	127720	4.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.40%
7) Chloroethane-d5	1.67	69	114770	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.27	63	273810	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.80%
20) 2-Butanone-d5	4.19	46	510838	46.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.52%
24) Chloroform-d	4.64	84	271824	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.31	65	147512	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.33	84	504895	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.32	67	177864	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.56	98	436952	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	7.85	79	59399	4.35	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.00%
46) 2-Hexanone-d5	8.31	63	362885	52.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.00%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	148335	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	155377	5.18	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	203092	4.297 ug/L	98
3) Chloromethane	1.32	50	250048	4.439 ug/L	98
5) Vinyl chloride	1.40	62	235982	4.792 ug/L	99
6) Bromomethane	1.62	94	109401	4.840 ug/L	96
8) Chloroethane	1.69	64	132452	4.884 ug/L	98
9) Trichlorofluoromethane	1.88	101	260682	4.577 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	145406	4.906 ug/L	96
12) 1,1-Dichloroethene	2.28	96	142814	5.117 ug/L	85
13) Acetone	2.32	43	331555	44.434 ug/L	93
14) Carbon disulfide	2.47	76	472653	4.811 ug/L	100
15) Methyl Acetate	2.62	43	91173	4.736 ug/L	96
16) Methylene chloride	2.69	84	173726	4.486 ug/L	96
17) Methyl tert-butyl Ether	3.00	73	413407	4.972 ug/L	95
18) trans-1,2-Dichloroethene	2.97	96	152259	5.062 ug/L	92
19) 1,1-Dichloroethane	3.43	63	340162	4.598 ug/L	98
21) 2-Butanone	4.27	43	564426	45.266 ug/L	97
22) cis-1,2-Dichloroethene	4.22	96	172530	4.775 ug/L	89

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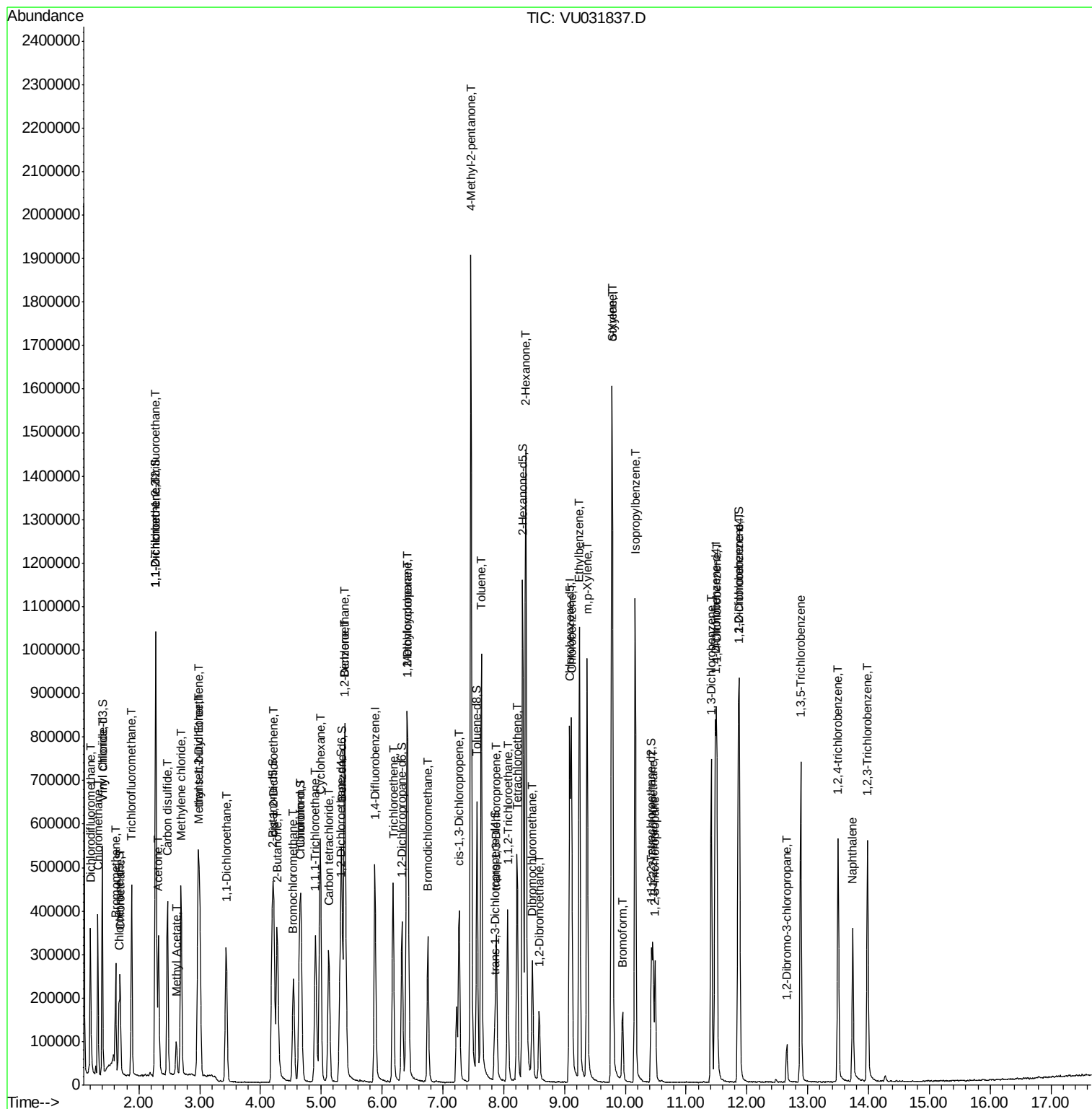
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	72875	5.026	ug/L	81
25) Chloroform	4.67	83	322889	4.435	ug/L	98
27) 1,2-Dichloroethane	5.40	62	207486	4.318	ug/L	96
29) 1,1,1-Trichloroethane	4.90	97	248550	4.377	ug/L	98
30) Cyclohexane	4.98	56	281570	4.528	ug/L	96
31) Carbon tetrachloride	5.12	117	216454	4.477	ug/L	100
33) Benzene	5.38	78	708356	4.903	ug/L	100
34) Trichloroethene	6.18	95	171412	4.706	ug/L	96
35) Methylcyclohexane	6.41	83	240993	4.606	ug/L	97
37) 1,2-Dichloropropane	6.43	63	196829	4.761	ug/L	99
38) Bromodichloromethane	6.75	83	220773	4.483	ug/L	93
39) cis-1,3-Dichloropropene	7.27	75	235383	4.543	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	1313098	47.193	ug/L	97
42) Toluene	7.63	91	736743	5.165	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	189322	4.614	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	125282	5.115	ug/L	96
47) Tetrachloroethene	8.22	164	114134	4.819	ug/L	94
48) 2-Hexanone	8.36	43	975365	49.322	ug/L	97
49) Dibromochloromethane	8.47	129	136704	4.798	ug/L	96
50) 1,2-Dibromoethane	8.58	107	112769	5.059	ug/L	97
51) Chlorobenzene	9.12	112	418651	4.938	ug/L	95
52) Ethylbenzene	9.24	91	726156	4.880	ug/L	96
53) m,p-Xylene	9.37	106	273771	5.169	ug/L	100
54) o-Xylene	9.77	106	263052	5.193	ug/L	96
55) Styrene	9.79	104	461078	5.304	ug/L	97
56) Isopropylbenzene	10.16	105	691678	5.100	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	160406	4.903	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	114935	4.697	ug/L	96
61) Bromoform	9.95	173	73236	5.047	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	291371	5.059	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	305307	5.226	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	300678	5.351	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	25441	4.816	ug/L #	64
67) 1,3,5-Trichlorobenzene	12.88	180	223881	5.116	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	172037	5.322	ug/L	99
69) Naphthalene	13.74	128	289404	5.220	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	174979	5.815	ug/L	96

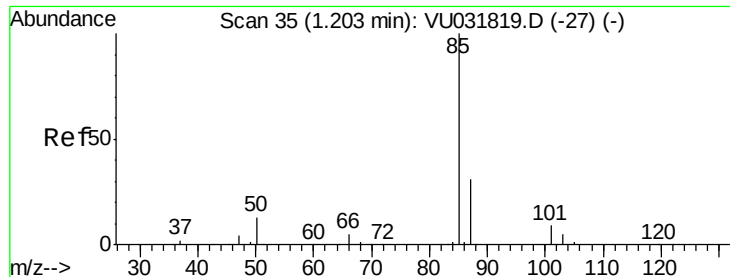
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.297 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

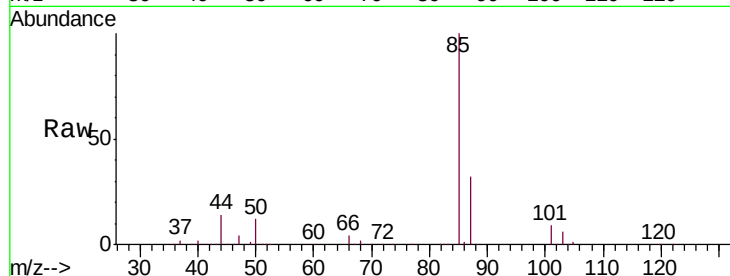
VSTD00524

Tgt Ion: 85 Resp: 203092

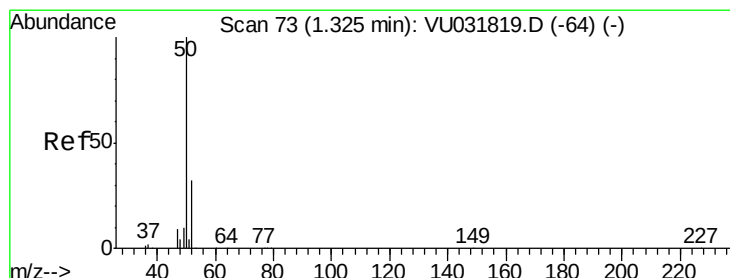
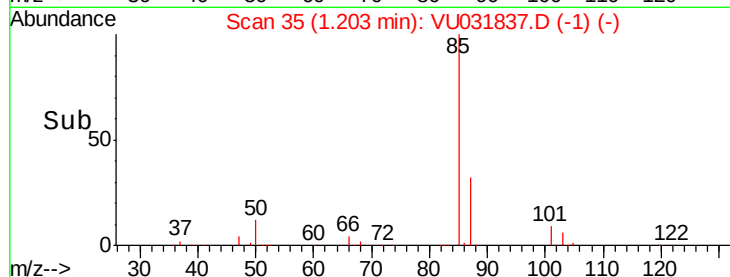
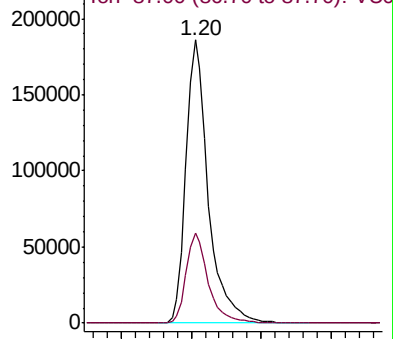
Ion Ratio Lower Upper

85 100

87 31.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU031819.D (-27) (-)



#3

Chloromethane

Concen: 4.439 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031837.D

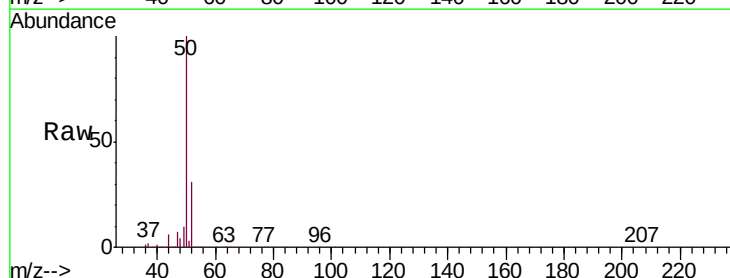
Acq: 08 May 2019 21:51

Tgt Ion: 50 Resp: 250048

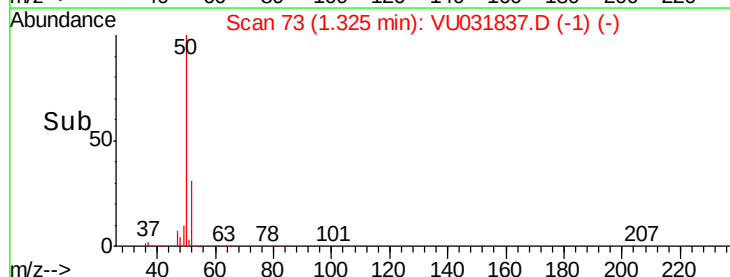
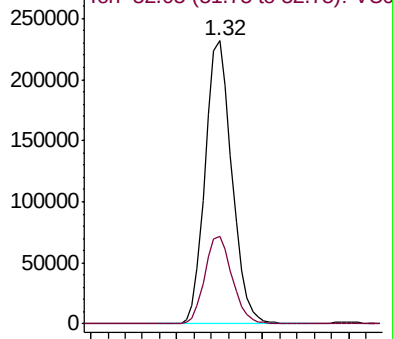
Ion Ratio Lower Upper

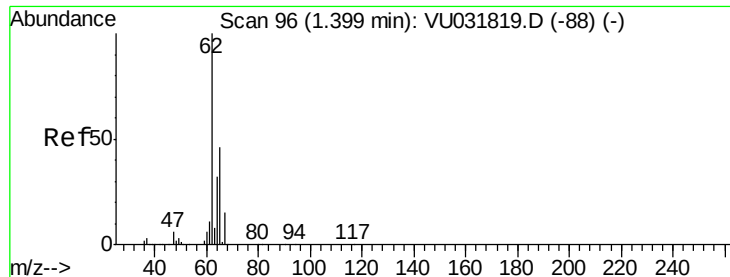
50 100

52 31.0 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU031819.D (-64) (-)





#5

Vinyl chloride

Concen: 4.792 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

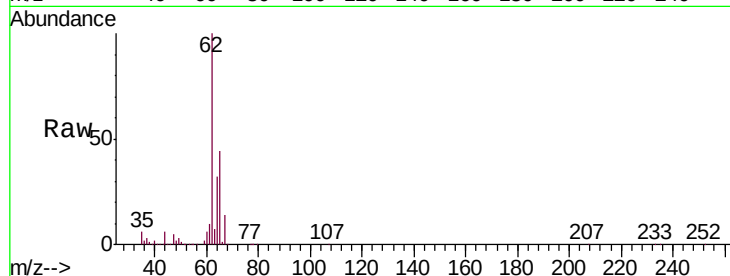
VSTD00524

Tgt Ion: 62 Resp: 235982

Ion Ratio Lower Upper

62 100

64 31.6 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU031819.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU031819.D (-88) (-)

1.40

250000

200000

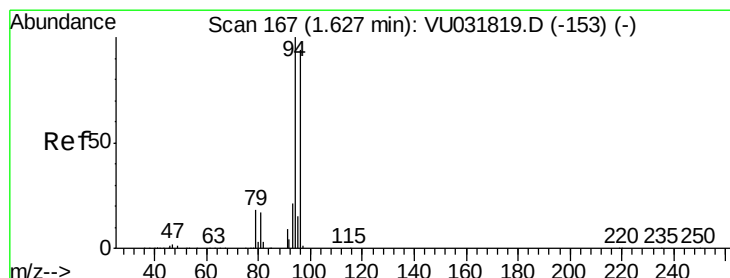
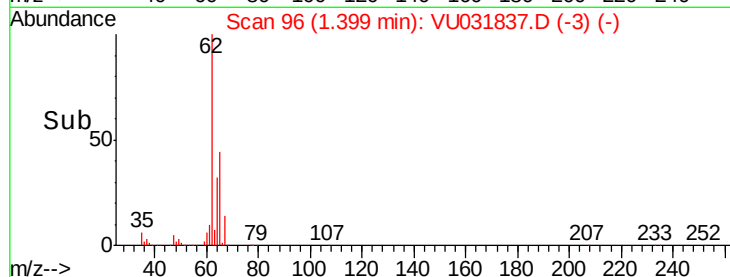
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 4.840 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU031837.D

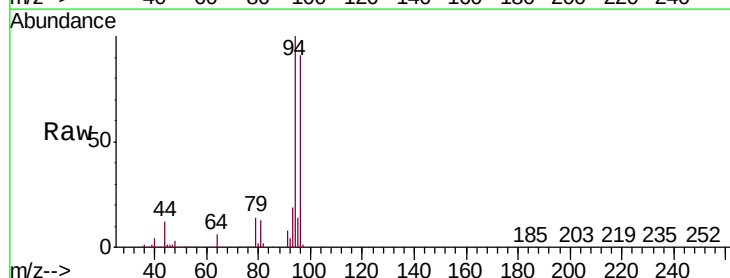
Acq: 08 May 2019 21:51

Tgt Ion: 94 Resp: 109401

Ion Ratio Lower Upper

94 100

96 90.9 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU031819.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU031819.D (-153) (-)

1.62

100000

80000

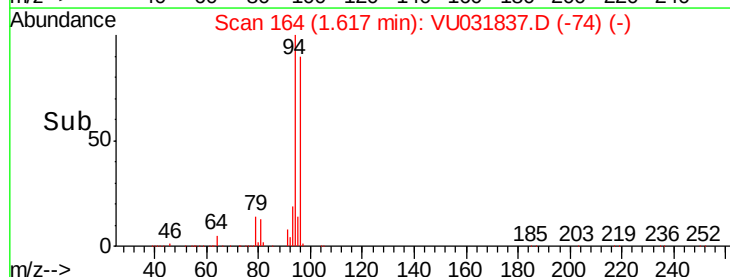
60000

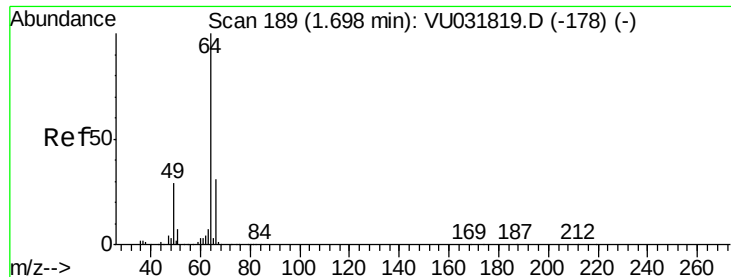
40000

20000

0

Time-->





#8

Chloroethane

Concen: 4.884 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.01 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

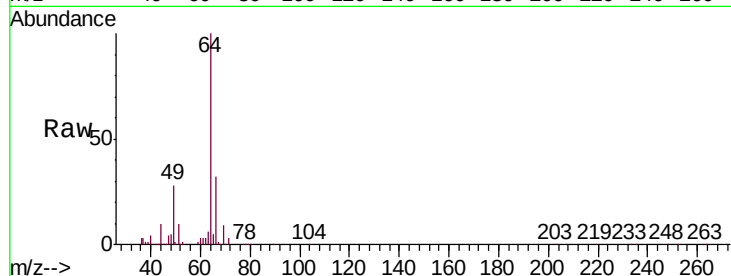
VSTD00524

Tgt Ion: 64 Resp: 132452

Ion Ratio Lower Upper

64 100

66 32.3 21.9 40.7



Abundance Ion 64.10 (63.80 to 64.80): VU031819.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU031819.D (-178) (-)

1.69

120000

100000

80000

60000

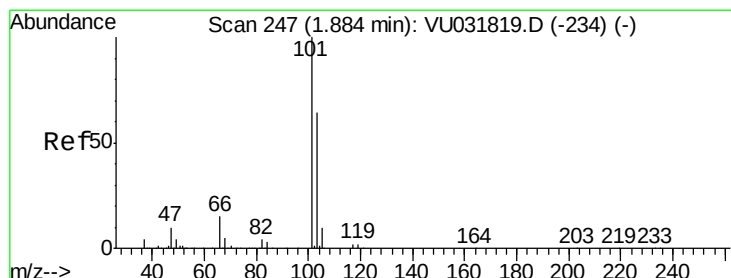
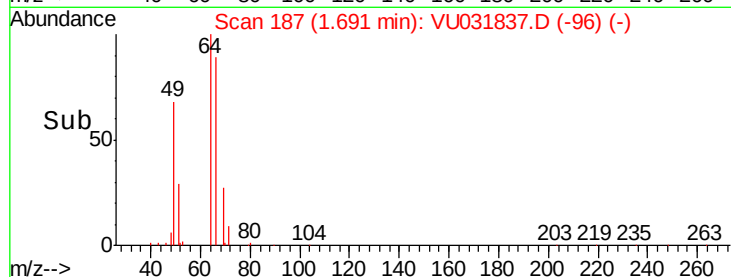
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 4.577 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031837.D

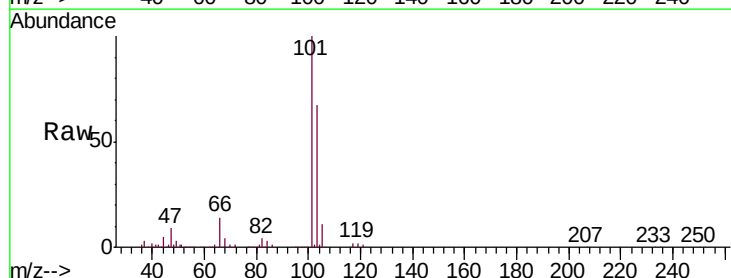
Acq: 08 May 2019 21:51

Tgt Ion: 101 Resp: 260682

Ion Ratio Lower Upper

101 100

103 65.7 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU031819.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU031819.D (-234) (-)

1.88

200000

150000

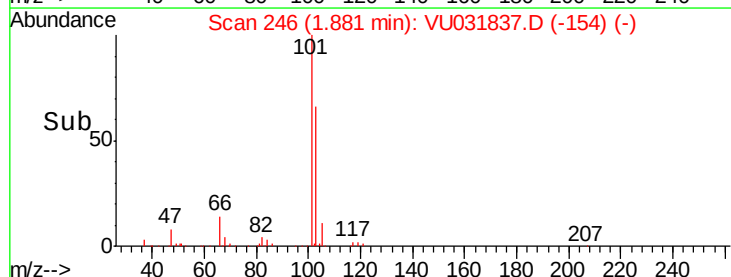
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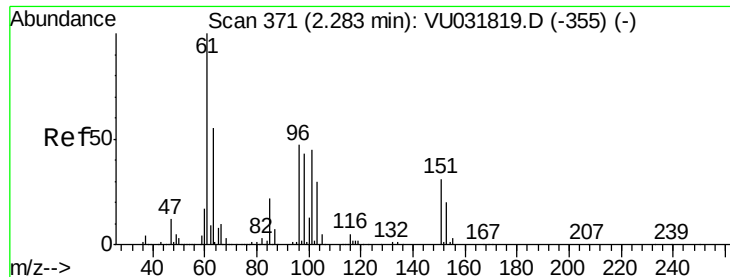
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 4.906 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031837.D

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ClientSampled :

VSTD00524

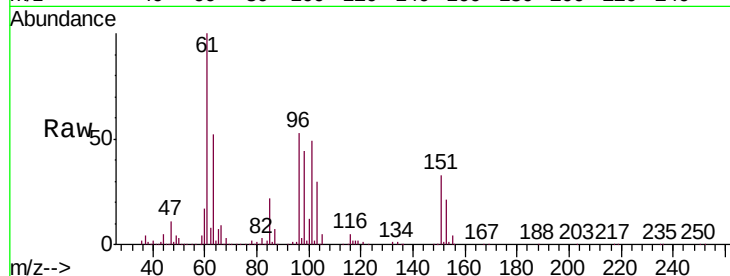
Tgt Ion: 101 Resp: 145406

Ion Ratio Lower Upper

101 100

85 44.5 40.0 60.0

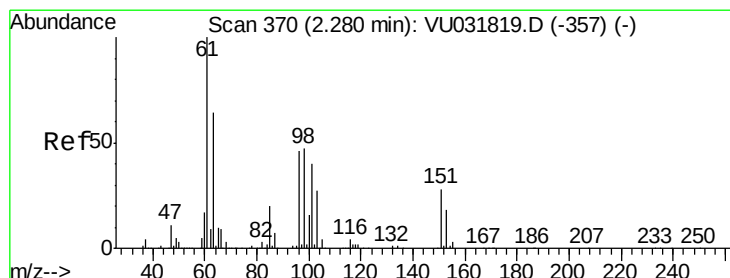
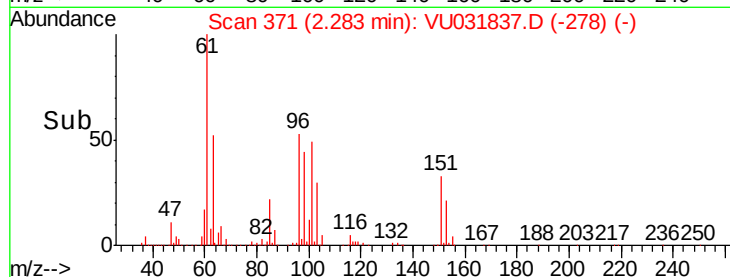
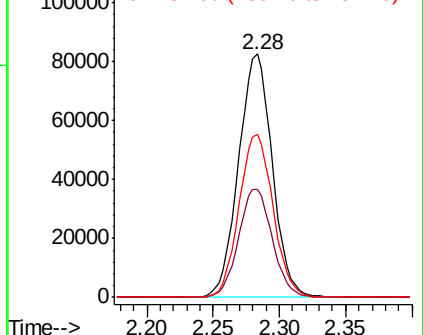
151 67.7 54.6 82.0



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: 5.117 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031837.D

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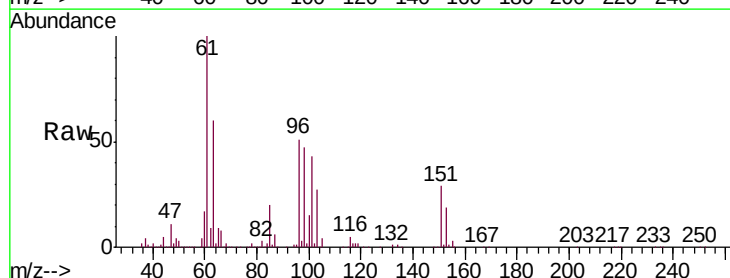
Tgt Ion: 96 Resp: 142814

Ion Ratio Lower Upper

96 100

61 195.4 149.0 276.6

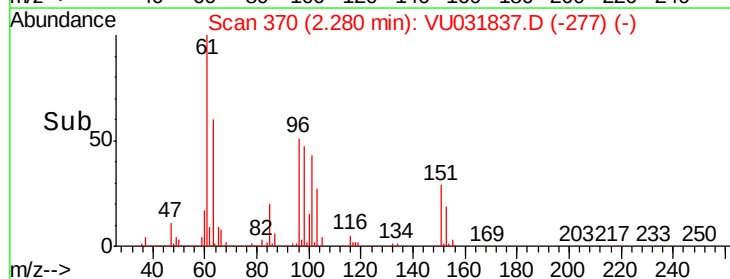
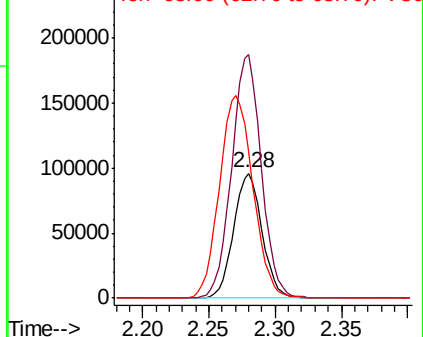
63 117.9 99.8 185.4

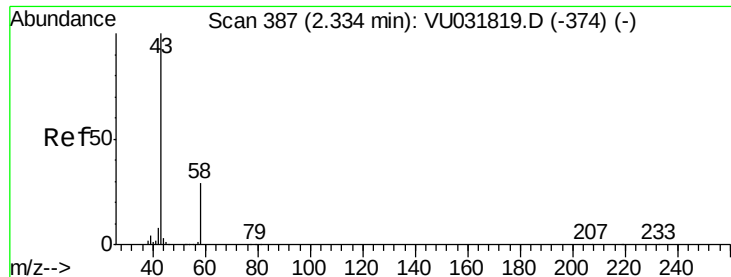


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.434 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.01 min

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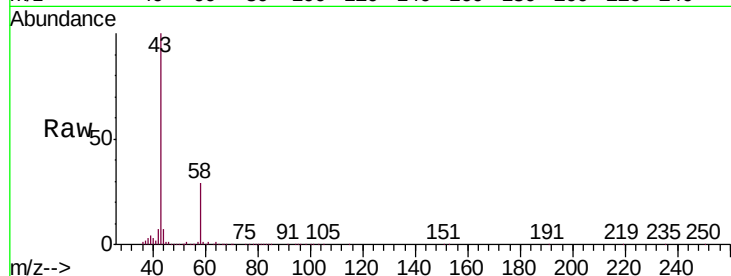
VSTD00524

Tgt Ion: 43 Resp: 331555

Ion Ratio Lower Upper

43 100

58 30.2 0.0 53.6



Abundance Ion 43.05 (42.75 to 43.75): VU031819.D (-374) (-)

Ion 58.05 (57.75 to 58.75): VU031819.D (-374) (-)

2.32

200000

150000

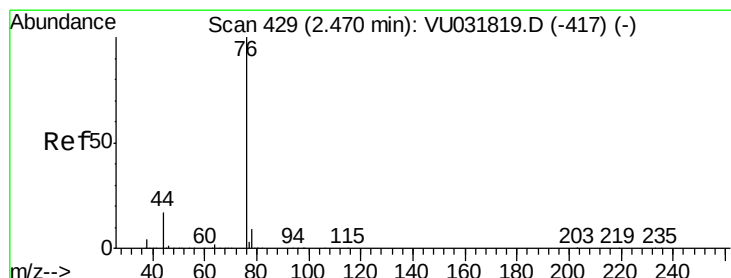
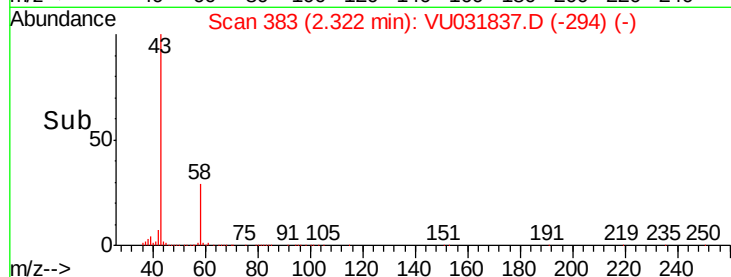
100000

50000

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 4.811 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU031837.D

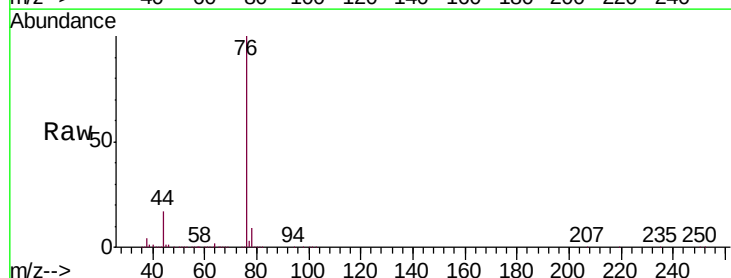
Acq: 08 May 2019 21:51

Tgt Ion: 76 Resp: 472653

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU031819.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031819.D (-417) (-)

2.47

300000

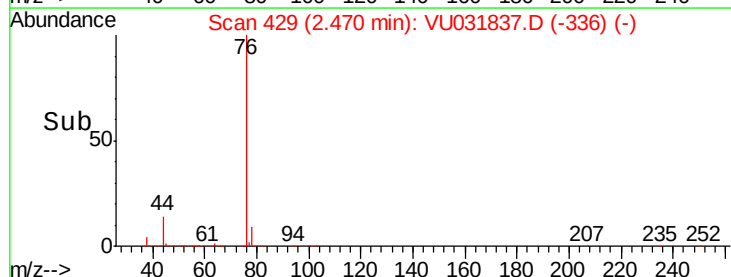
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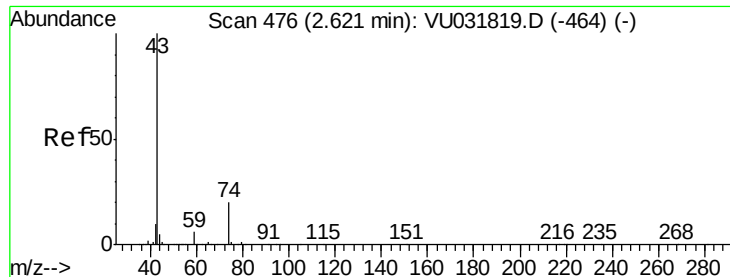
100000

0

2.40 2.50 2.60

Time-->

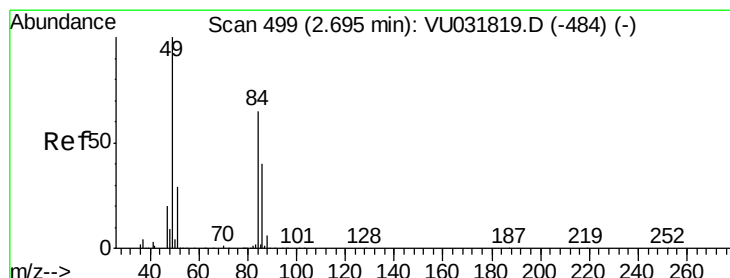
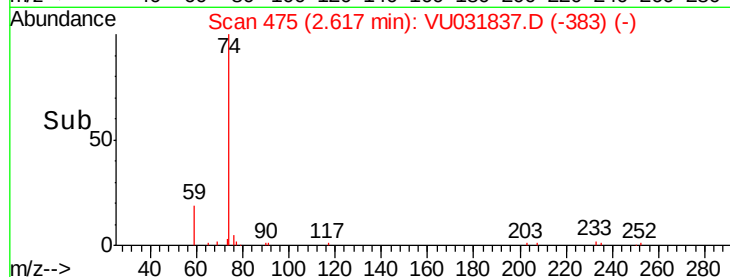
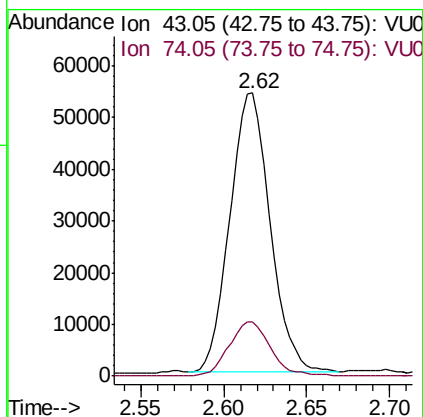
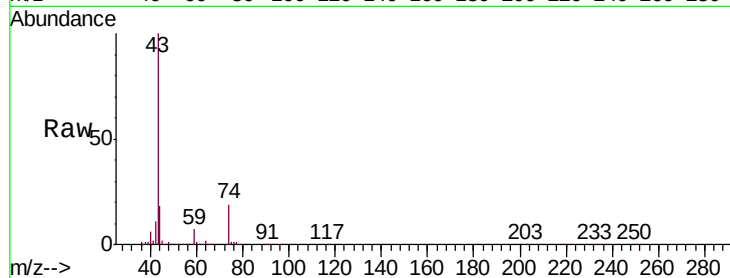




#15
Methyl Acetate
Concen: 4.736 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

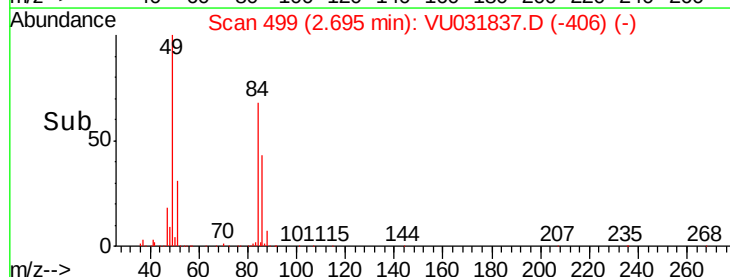
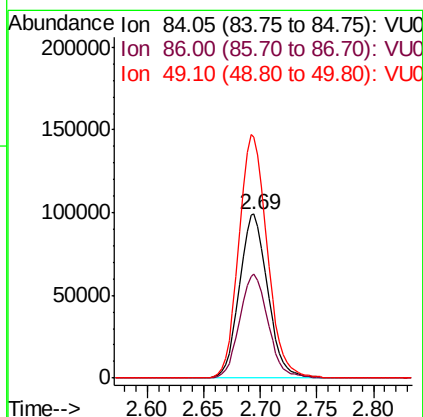
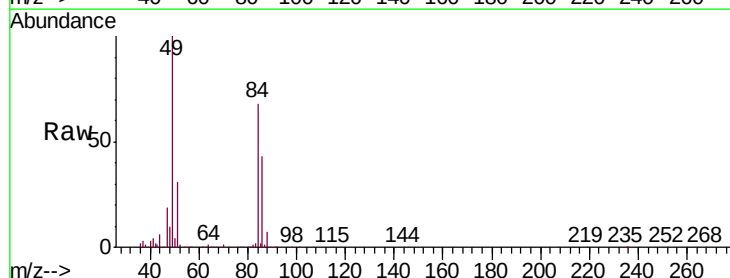
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

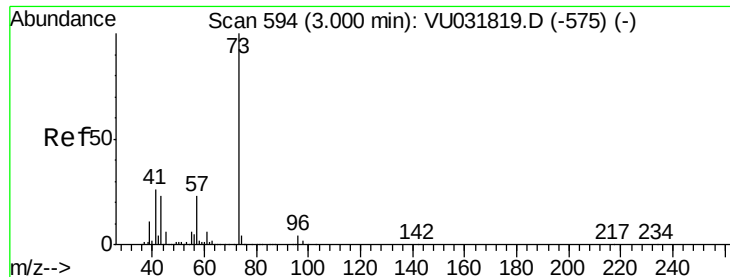
Tgt Ion: 43 Resp: 91173
Ion Ratio Lower Upper
43 100
74 20.1 14.7 22.1



#16
Methylene chloride
Concen: 4.486 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion: 84 Resp: 173726
Ion Ratio Lower Upper
84 100
86 63.1 45.6 84.8
49 147.0 106.7 198.1

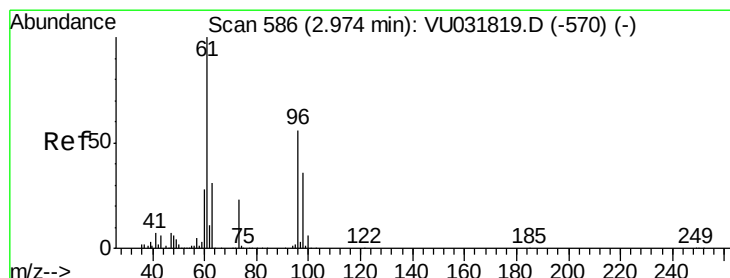
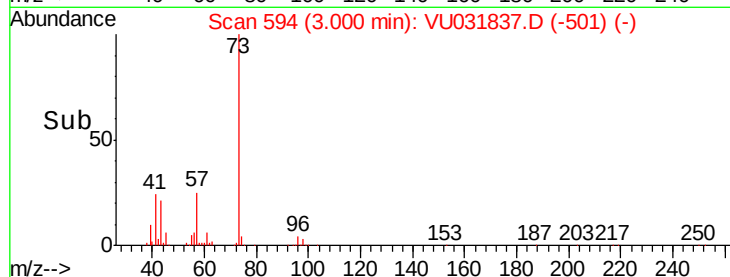
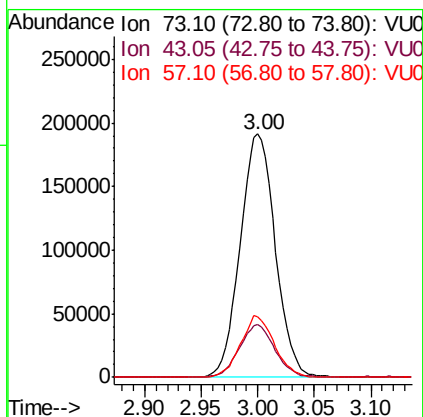
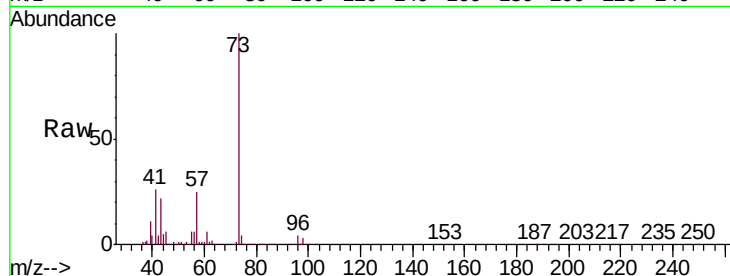




#17
Methyl tert-butyl Ether
Concen: 4.972 ug/L
RT: 3.00 min Scan# 594
Delta R.T. 0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

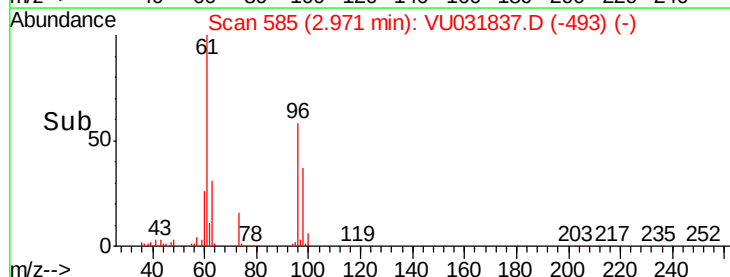
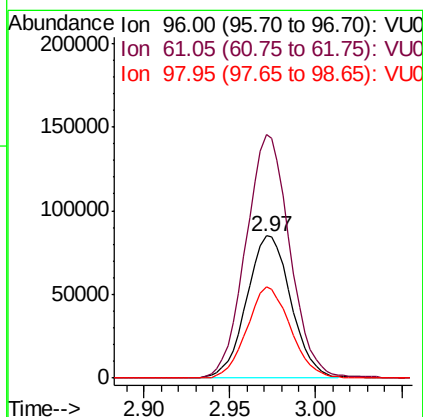
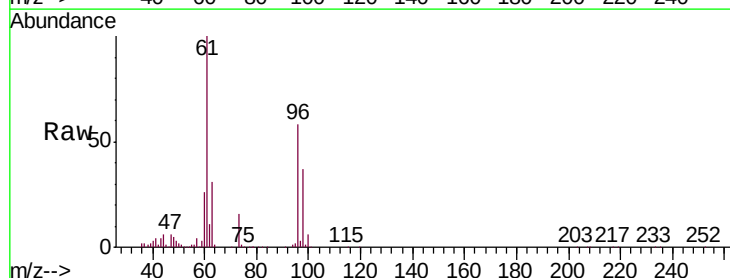
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

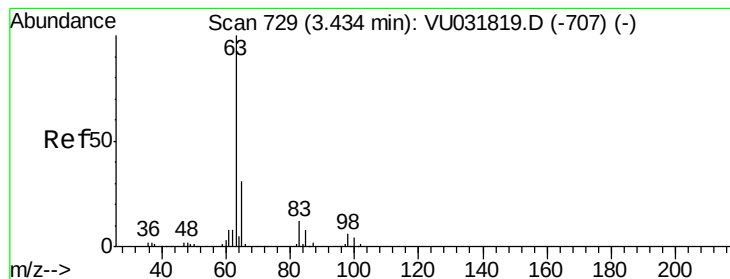
Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.2	20.5	30.7
57	24.4	19.9	29.9



#18
trans-1,2-Dichloroethene
Concen: 5.062 ug/L
RT: 2.97 min Scan# 585
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.6	130.9	243.1
98	64.2	46.2	85.8





#19

1,1-Dichloroethane

Concen: 4.598 ug/L

RT: 3.43 min Scan# 729

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

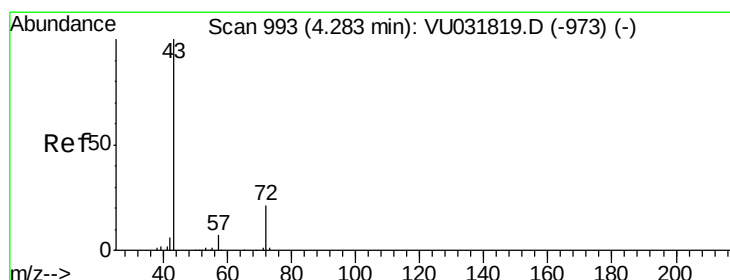
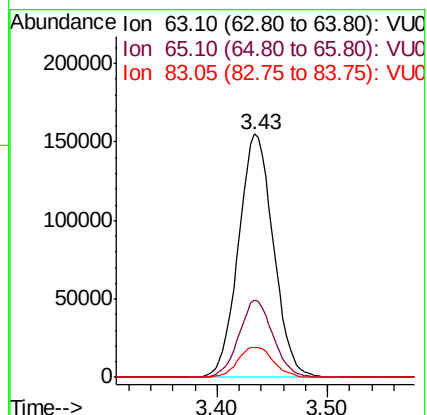
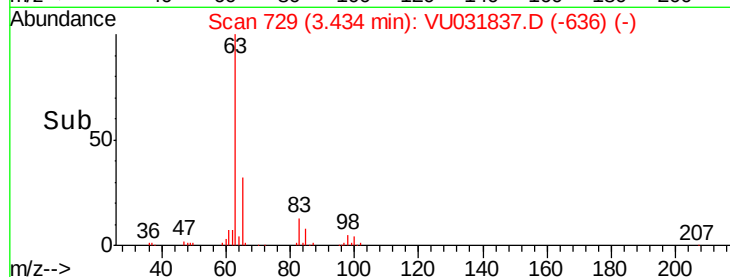
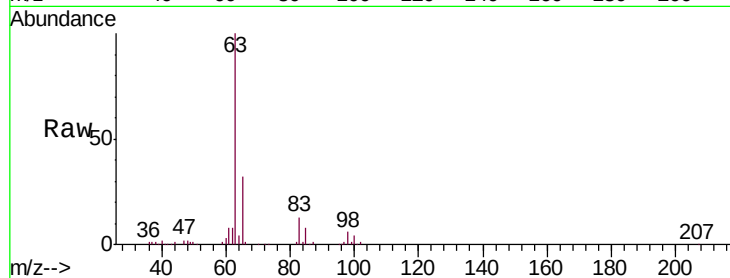
Tgt Ion: 63 Resp: 340162

Ion Ratio Lower Upper

63 100

65 31.7 21.8 40.4

83 12.5 7.9 14.7



#21

2-Butanone

Concen: 45.266 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.01 min

Lab File: VU031837.D

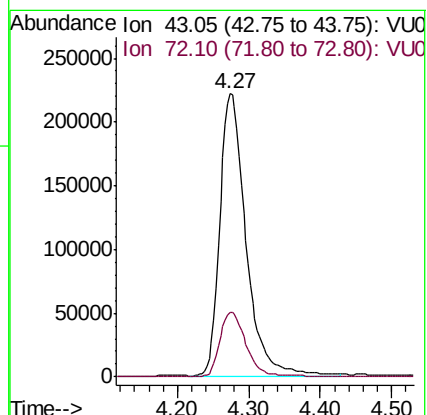
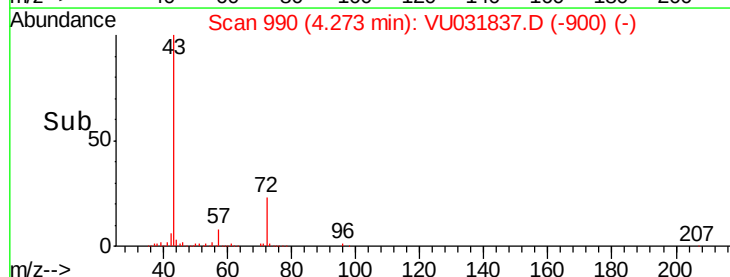
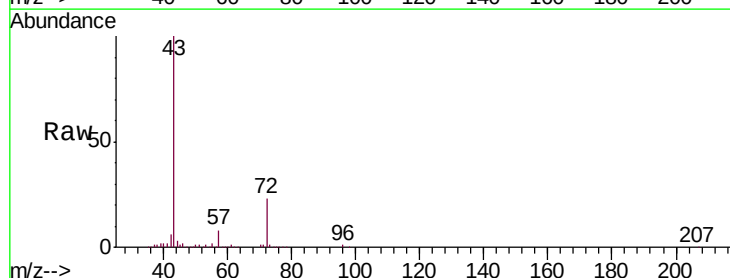
Acq: 08 May 2019 21:51

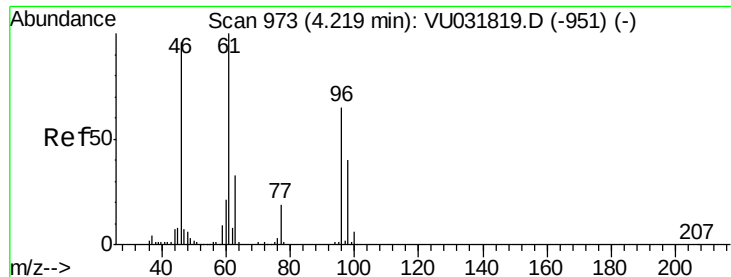
Tgt Ion: 43 Resp: 564426

Ion Ratio Lower Upper

43 100

72 22.2 10.4 31.1



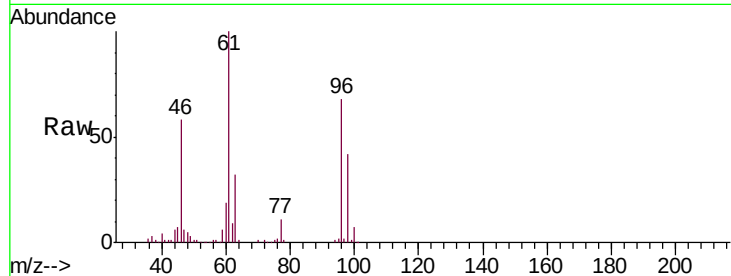


#22

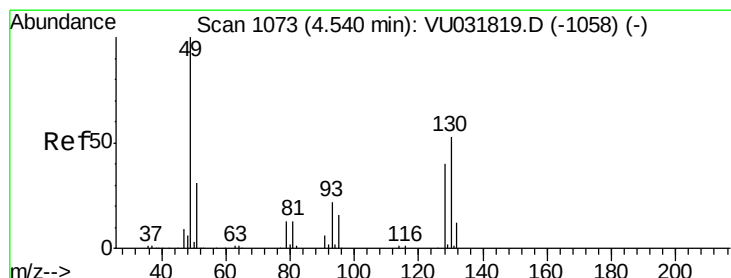
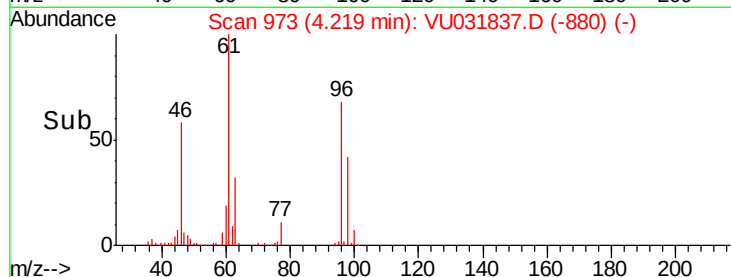
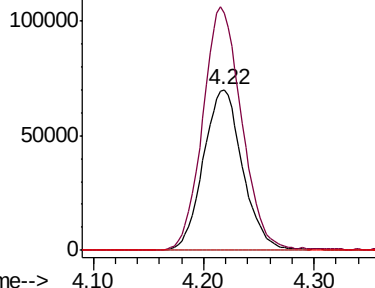
cis-1,2-Dichloroethene
 Concen: 4.775 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00524

Tgt Ion: 96 Resp: 172530
 Ion Ratio Lower Upper
 96 100
 61 147.6 113.3 210.5
 68 0.0 0.0 0.0



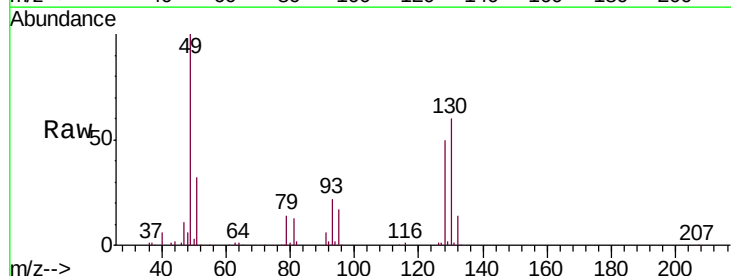
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



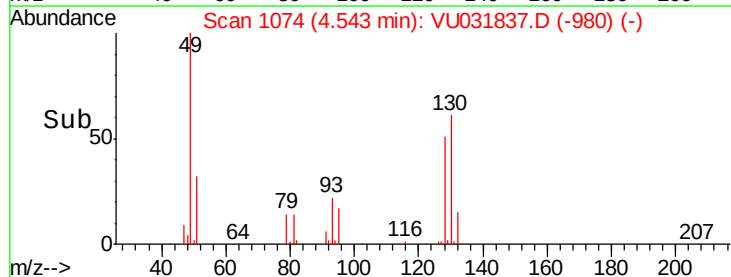
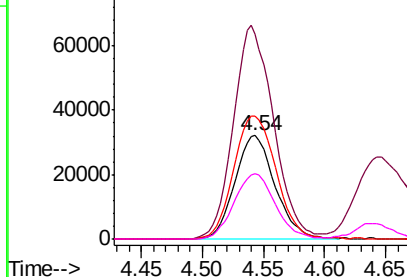
#23

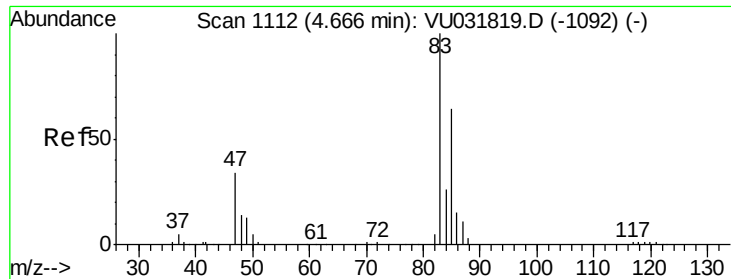
Bromochloromethane
 Concen: 5.026 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion: 128 Resp: 72875
 Ion Ratio Lower Upper
 128 100
 49 199.0 168.8 313.4
 130 119.6 93.0 172.8
 51 63.4 61.3 91.9



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

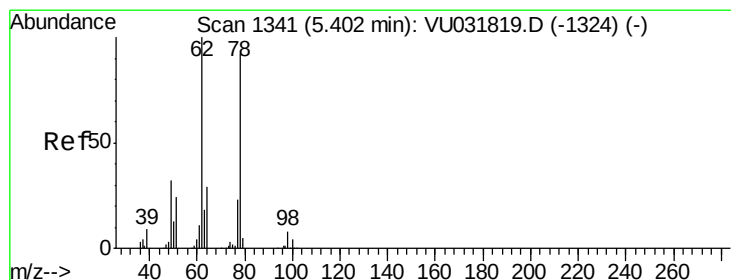
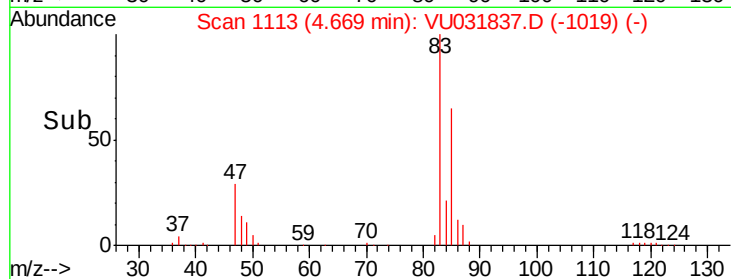
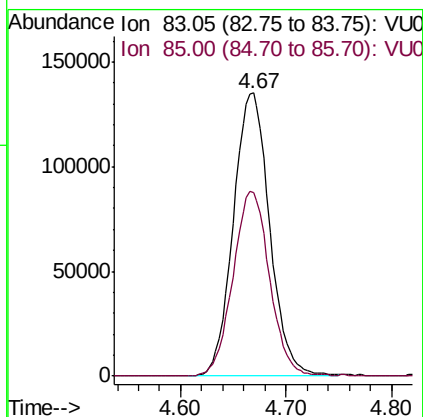
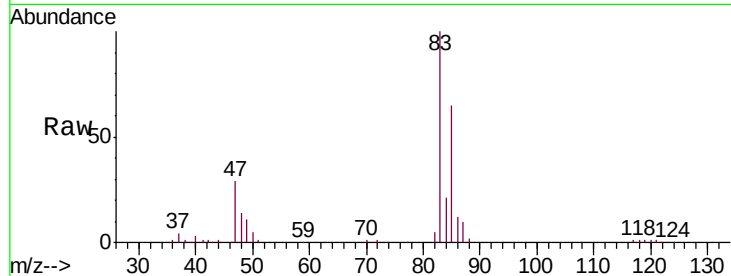




#25
Chloroform
Concen: 4.435 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

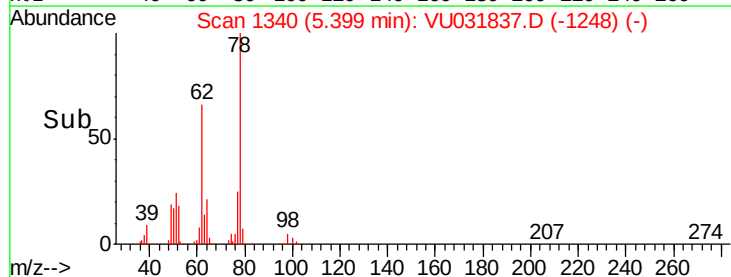
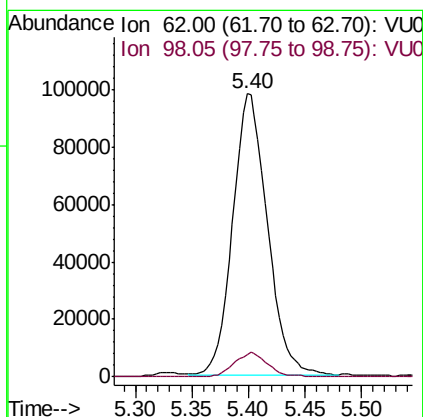
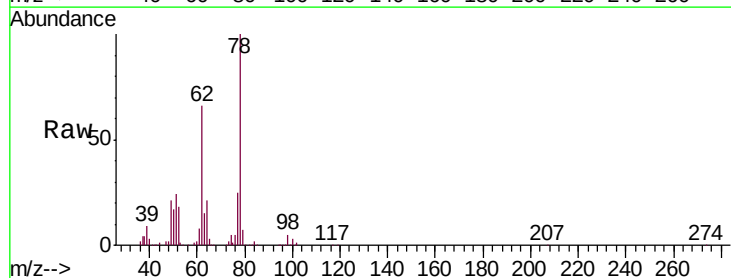
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

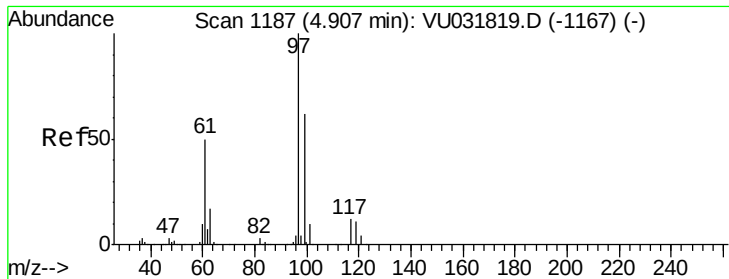
Tgt Ion: 83 Resp: 322889
Ion Ratio Lower Upper
83 100
85 64.9 44.4 82.5



#27
1,2-Dichloroethane
Concen: 4.318 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion: 62 Resp: 207486
Ion Ratio Lower Upper
62 100
98 8.0 5.4 8.2





#29

1,1,1-Trichloroethane

Concen: 4.377 ug/L

RT: 4.90 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

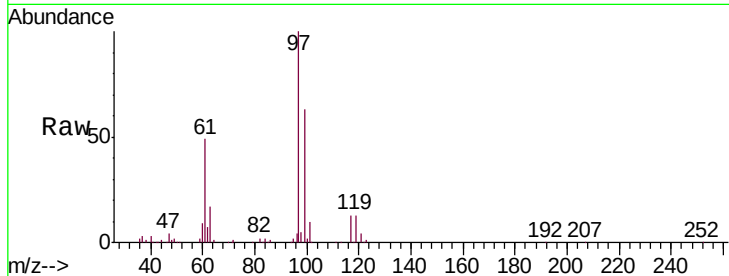
Tgt Ion: 97 Resp: 248550

Ion Ratio Lower Upper

97 100

99 65.1 50.6 75.8

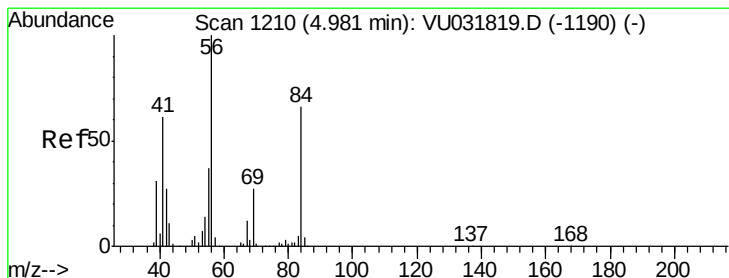
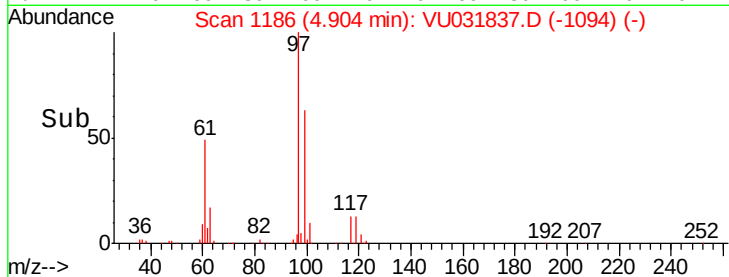
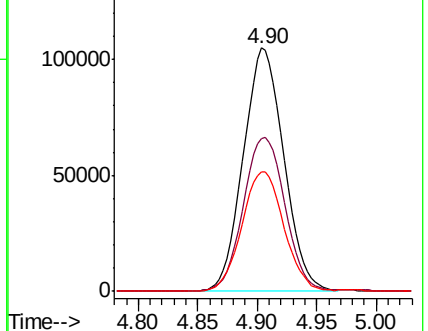
61 50.9 42.2 63.2



Abundance Ion 96.95 (96.65 to 97.65): VU031837.D (-1167) (-)

Ion 99.05 (98.75 to 99.75): VU031837.D (-1167) (-)

Ion 61.05 (60.75 to 61.75): VU031837.D (-1167) (-)



#30

Cyclohexane

Concen: 4.528 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

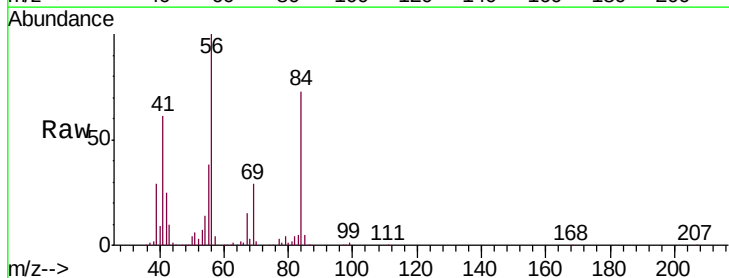
Tgt Ion: 56 Resp: 281570

Ion Ratio Lower Upper

56 100

69 28.8 21.8 32.8

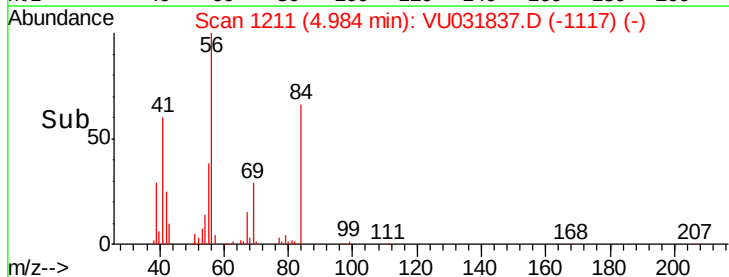
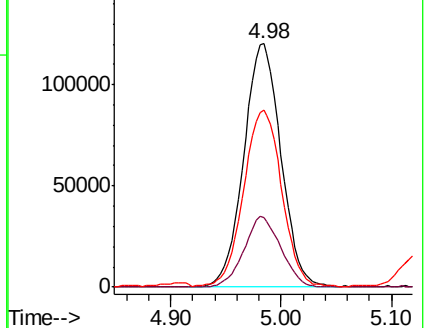
84 74.9 56.8 85.2

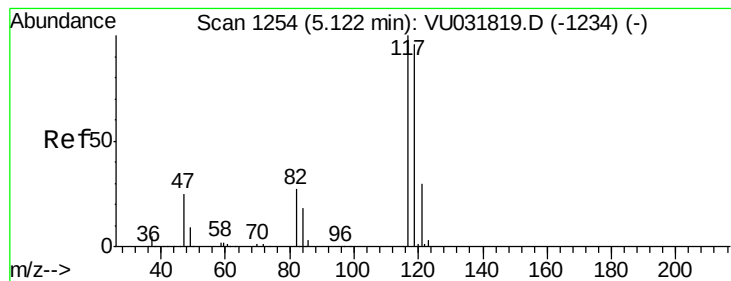


Abundance Ion 56.10 (55.80 to 56.80): VU031837.D (-1117) (-)

Ion 69.15 (68.85 to 69.85): VU031837.D (-1117) (-)

Ion 84.15 (83.85 to 84.85): VU031837.D (-1117) (-)





#31

Carbon tetrachloride

Concen: 4.477 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

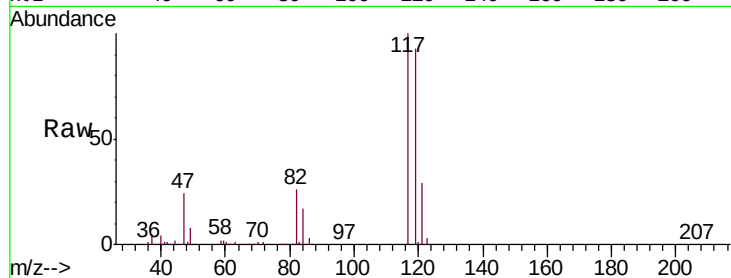
VSTD00524

Tgt Ion:117 Resp: 216454

Ion Ratio Lower Upper

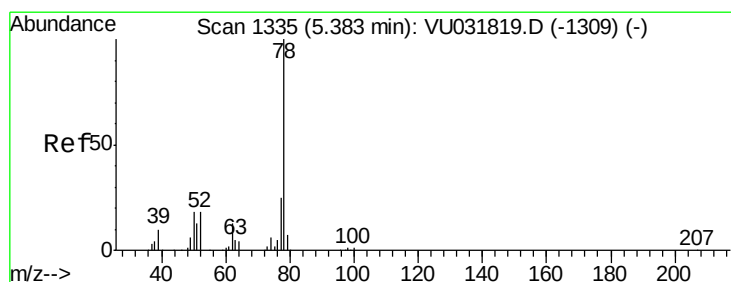
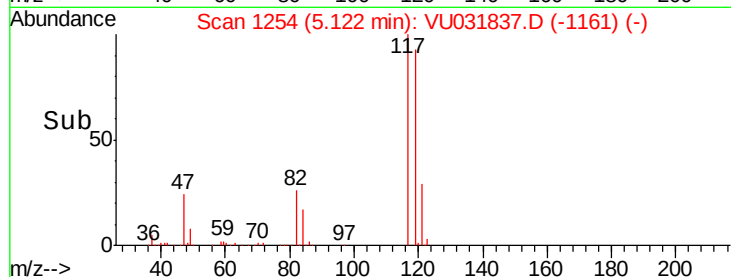
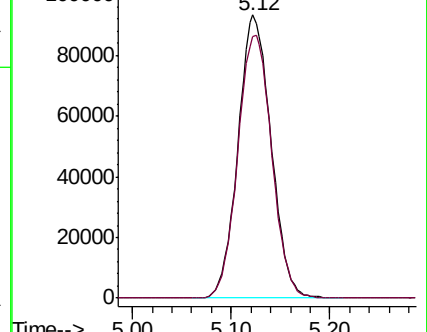
117 100

119 95.5 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.903 ug/L

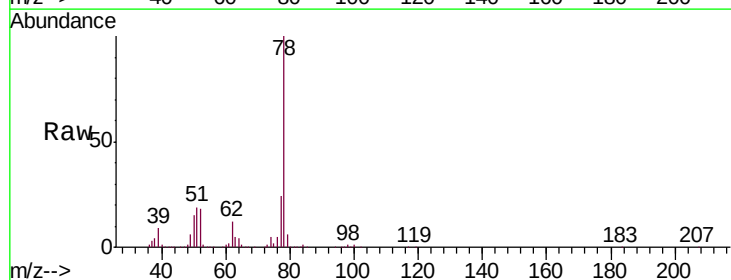
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

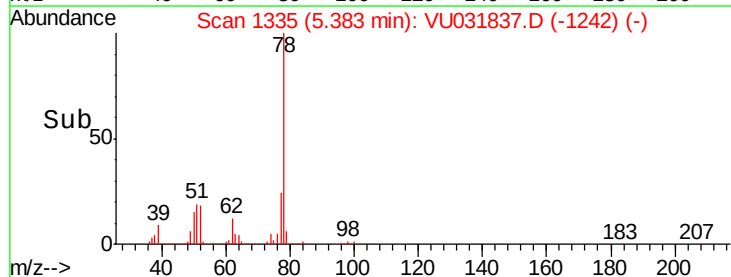
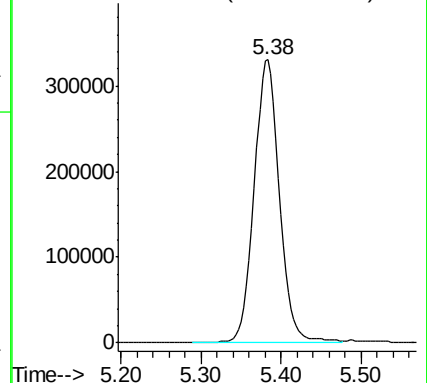
Lab File: VU031837.D

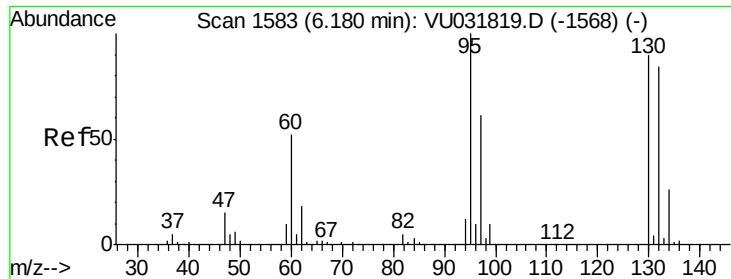
Acq: 08 May 2019 21:51

Tgt Ion: 78 Resp: 708356



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.706 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

Tgt Ion: 95 Resp: 171412

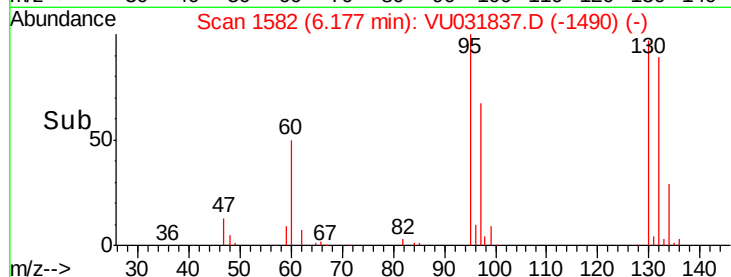
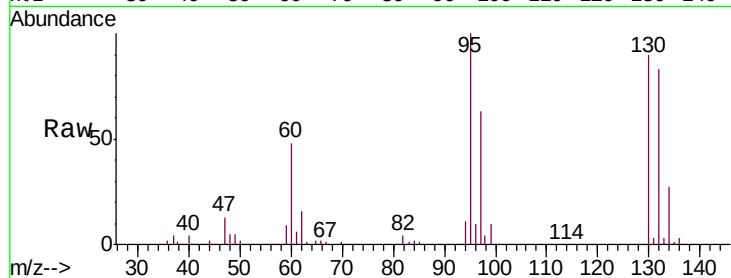
Ion Ratio Lower Upper

95 100

97 62.6 45.8 85.2

132 82.8 56.0 104.0

130 90.2 60.4 112.2

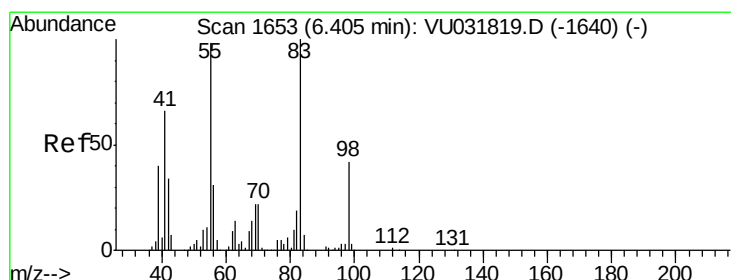
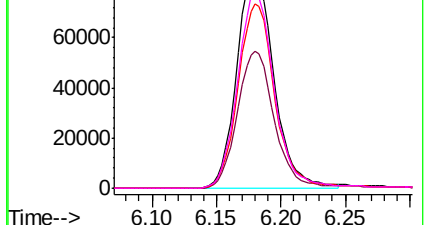


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.606 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

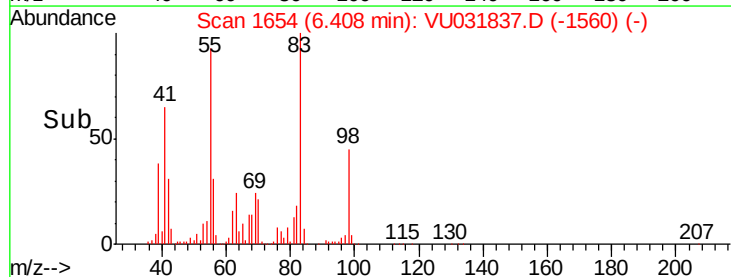
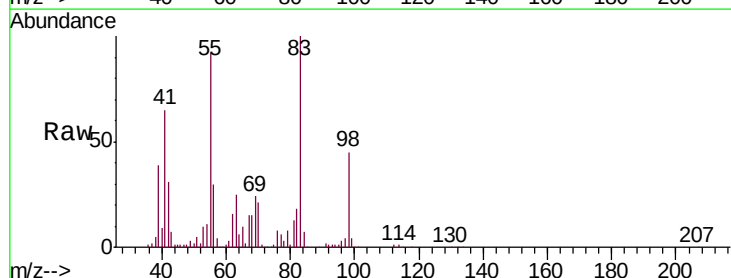
Tgt Ion: 83 Resp: 240993

Ion Ratio Lower Upper

83 100

55 95.7 79.2 118.8

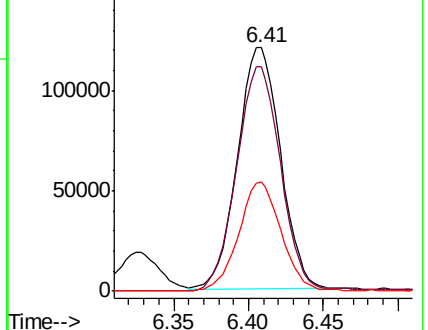
98 44.4 34.0 51.0

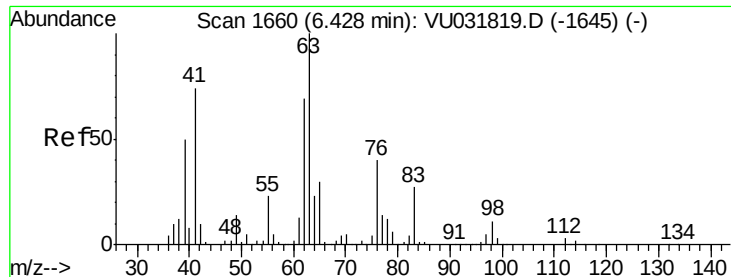


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

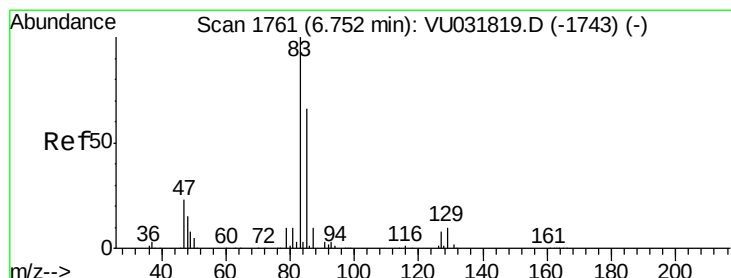
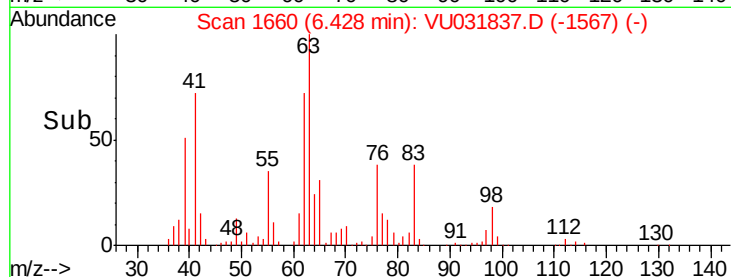
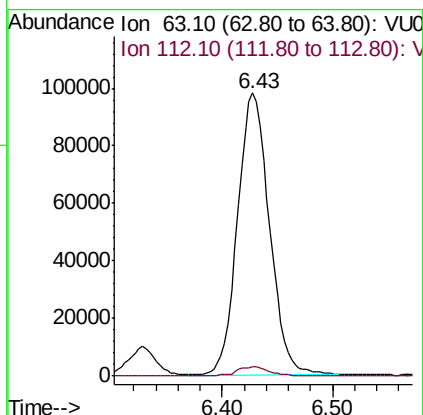
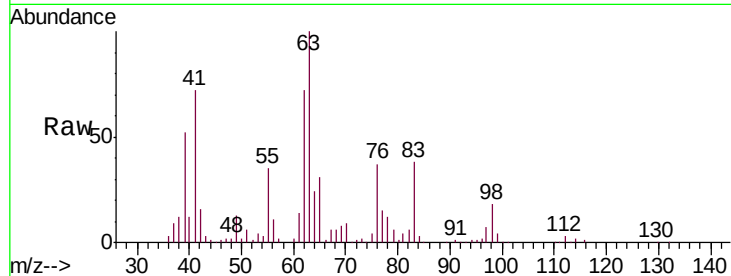




#37
 1,2-Dichloropropane
 Concen: 4.761 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

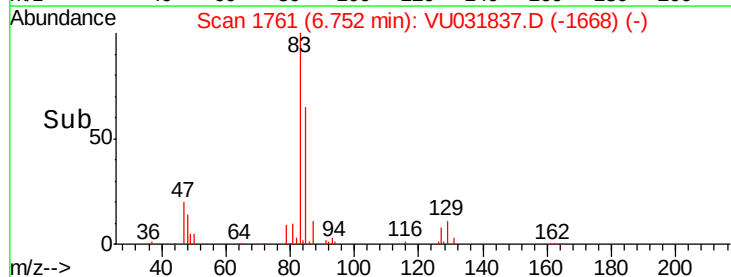
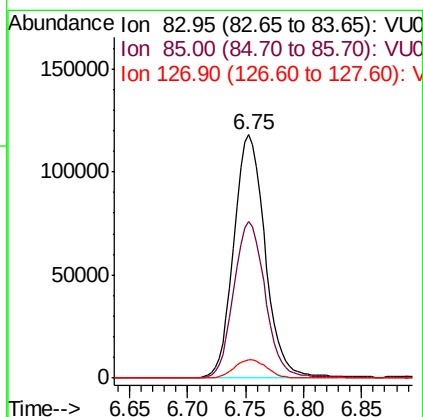
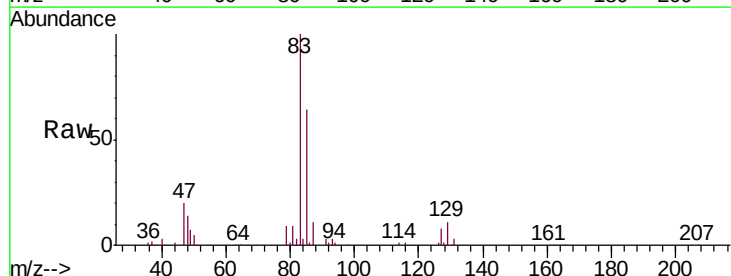
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00524

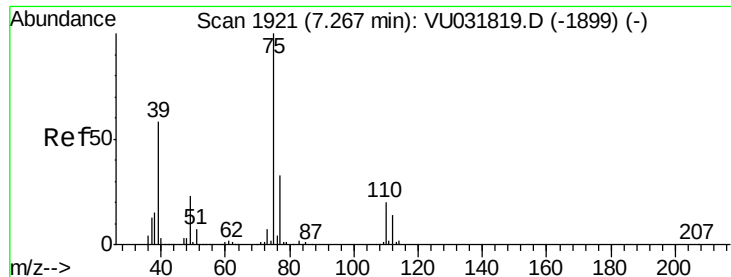
Tgt Ion: 63 Resp: 196829
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.5 3.7



#38
 Bromodichloromethane
 Concen: 4.483 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion: 83 Resp: 220773
 Ion Ratio Lower Upper
 83 100
 85 64.4 41.3 76.7
 127 7.7 5.8 8.6

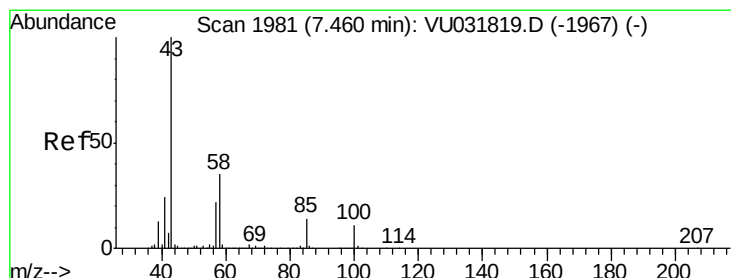
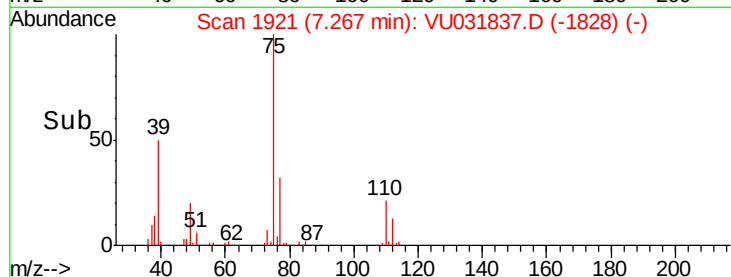
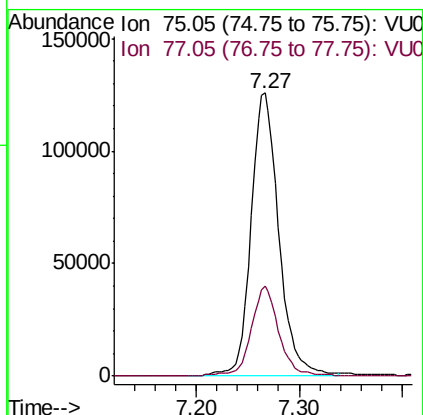
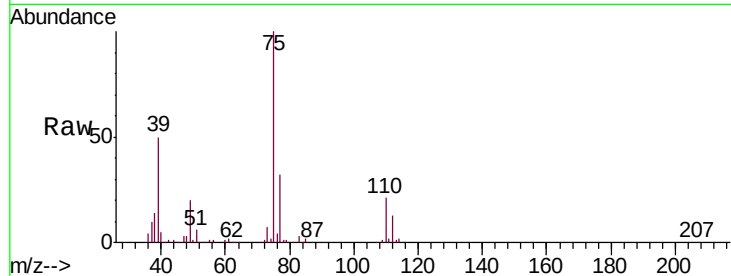




#39
 cis-1,3-Dichloropropene
 Concen: 4.543 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

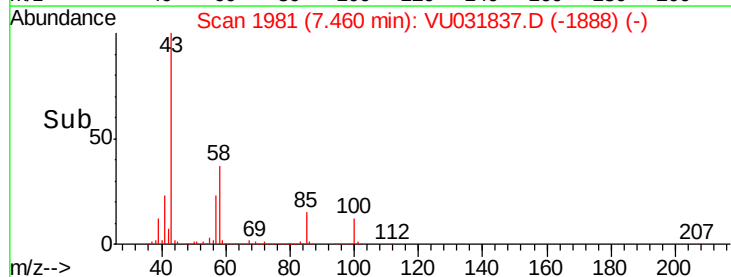
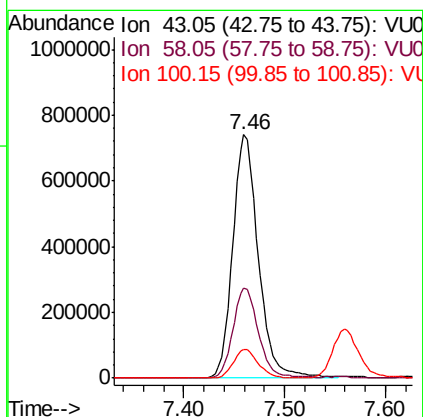
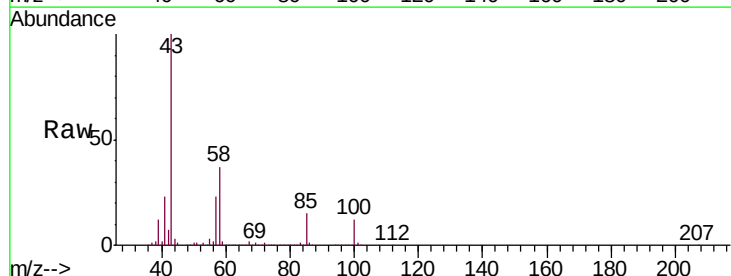
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

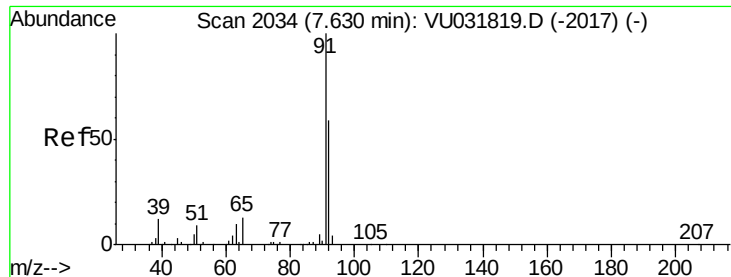
Tgt Ion: 75 Resp: 235383
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 47.193 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion: 43 Resp: 1313098
 Ion Ratio Lower Upper
 43 100
 58 36.9 28.0 42.0
 100 11.5 8.2 12.4





#42

Toluene

Concen: 5.165 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

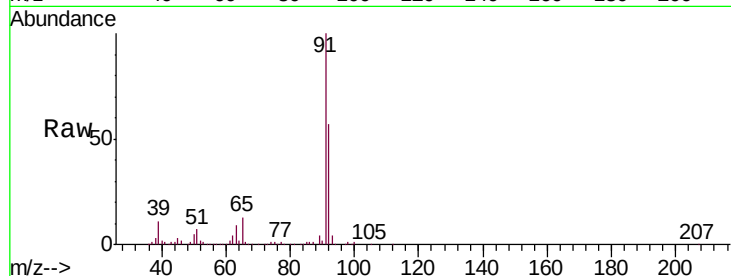
VSTD00524

Tgt Ion: 91 Resp: 736743

Ion Ratio Lower Upper

91 100

92 57.2 38.1 70.9



Abundance Ion 91.15 (90.85 to 91.85): VU031819.D (-2017) (-)

Ion 92.15 (91.85 to 92.85): VU031819.D (-2017) (-)

7.63

400000

300000

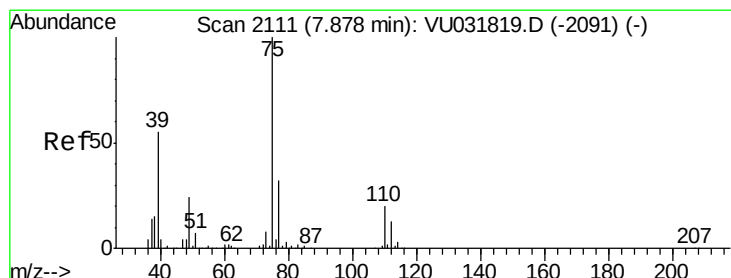
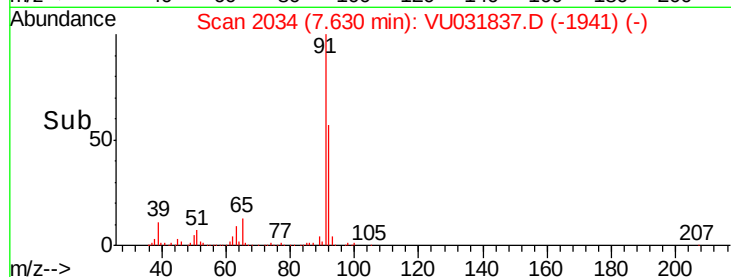
200000

100000

0

7.50 7.60 7.70 7.80

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.614 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031837.D

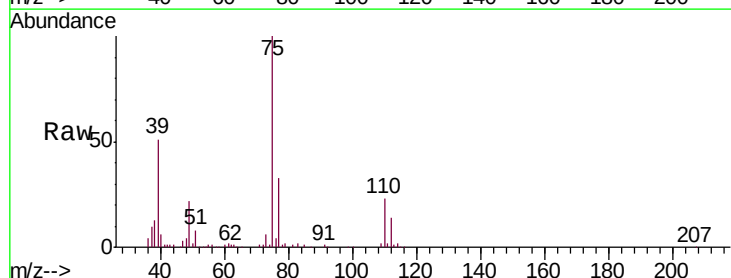
Acq: 08 May 2019 21:51

Tgt Ion: 75 Resp: 189322

Ion Ratio Lower Upper

75 100

77 33.2 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU031819.D (-2091) (-)

Ion 77.05 (76.75 to 77.75): VU031819.D (-2091) (-)

7.88

120000

100000

80000

60000

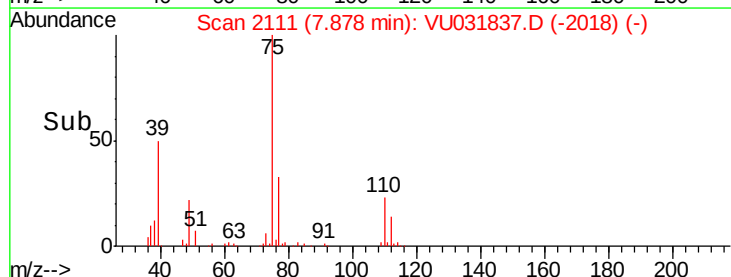
40000

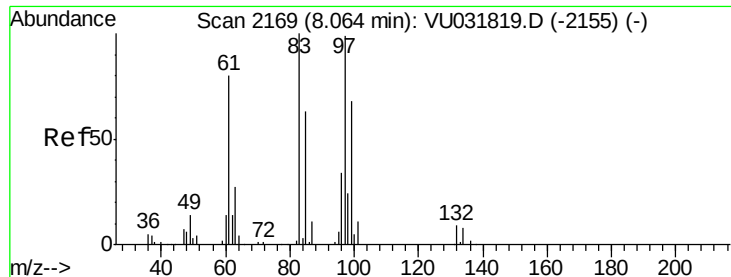
20000

0

7.80 7.90 8.00

Time-->

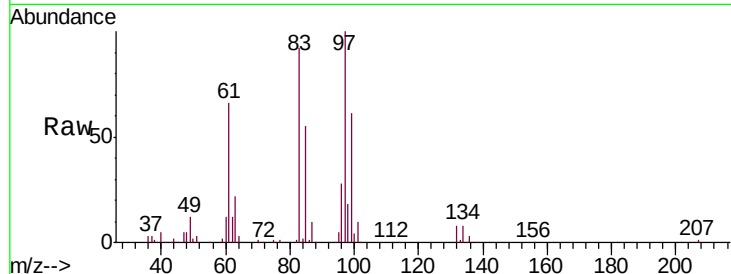




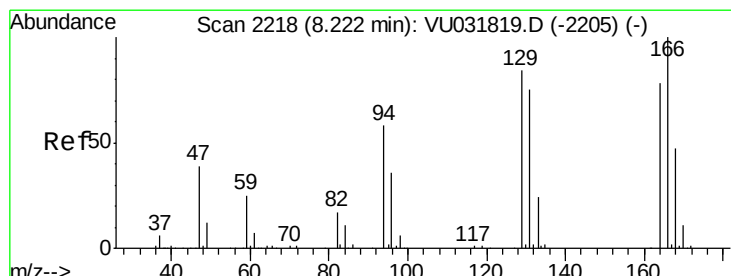
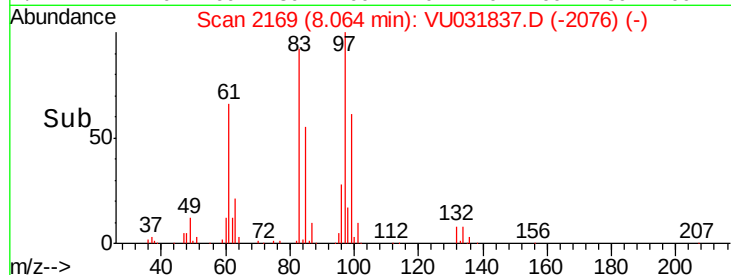
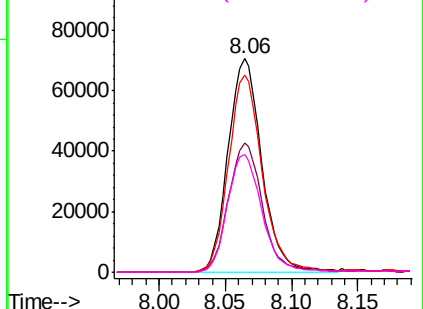
#45
 1,1,2-Trichloroethane
 Concen: 5.115 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion:	97	Resp:	125282
Ion	Ratio	Lower	Upper
97	100		
99	60.6	45.8	85.0
83	92.5	64.5	119.7
85	55.1	41.6	77.3

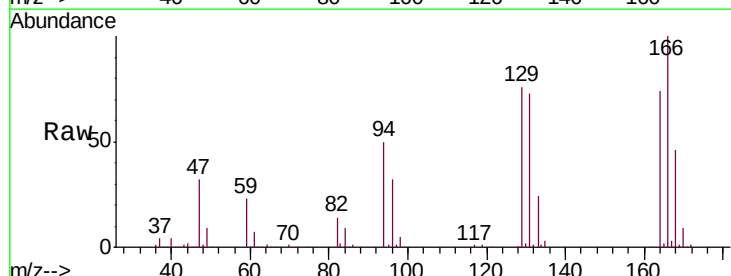


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

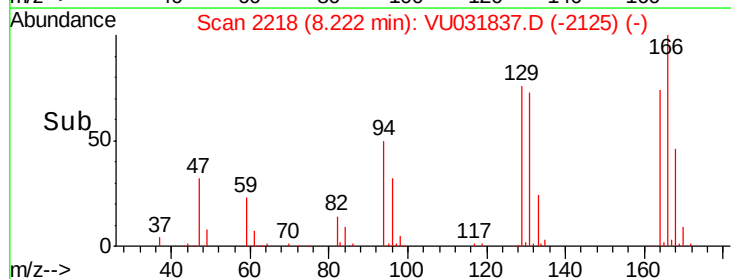
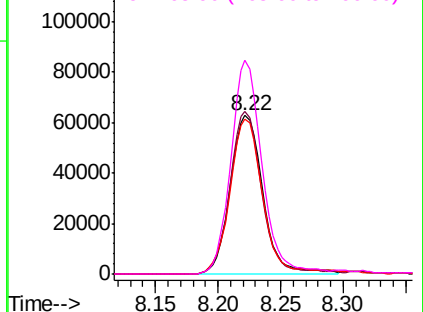


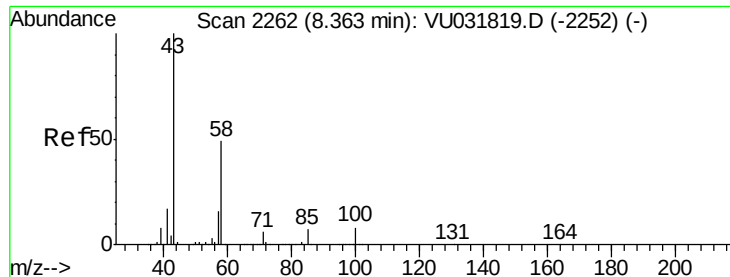
#47
 Tetrachloroethene
 Concen: 4.819 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion:	164	Resp:	114134
Ion	Ratio	Lower	Upper
164	100		
129	102.6	70.3	130.5
131	97.9	65.4	121.4
166	134.7	86.0	159.8



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

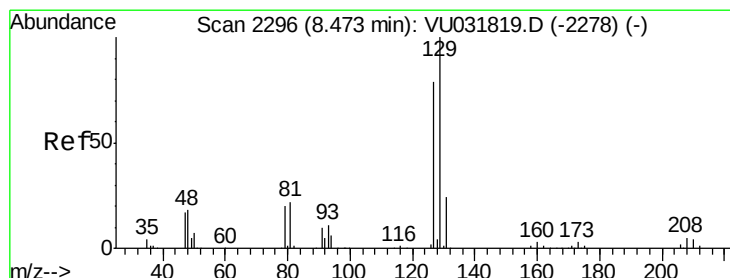
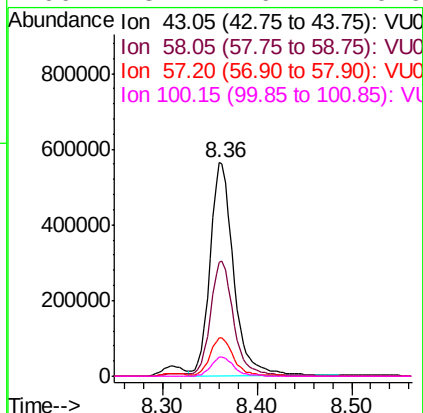
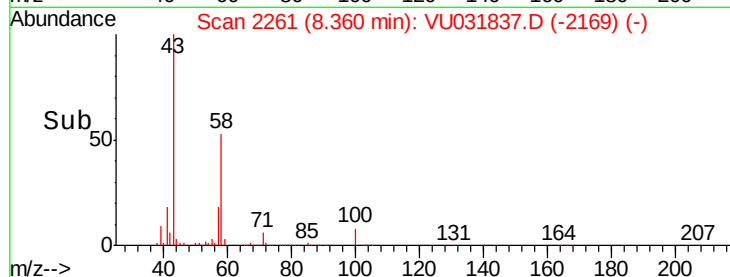
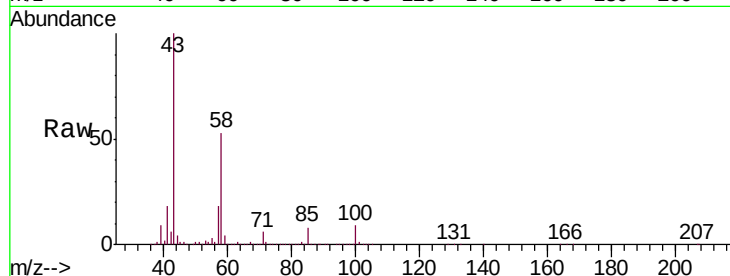




#48
2-Hexanone
Concen: 49.322 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

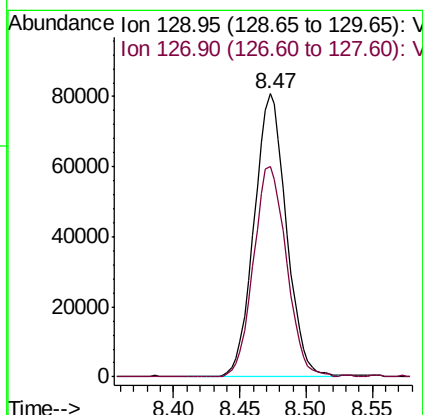
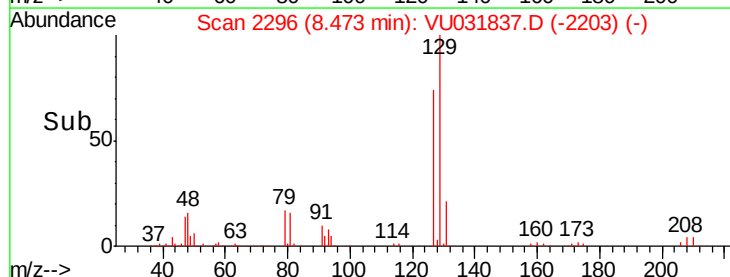
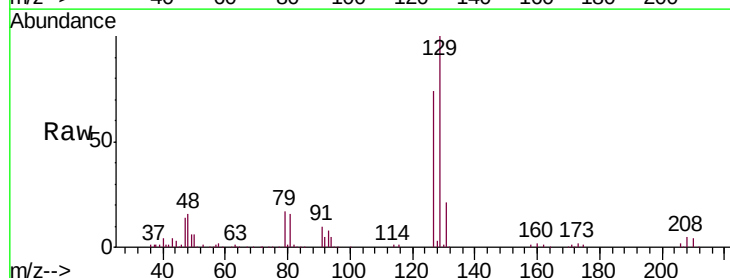
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

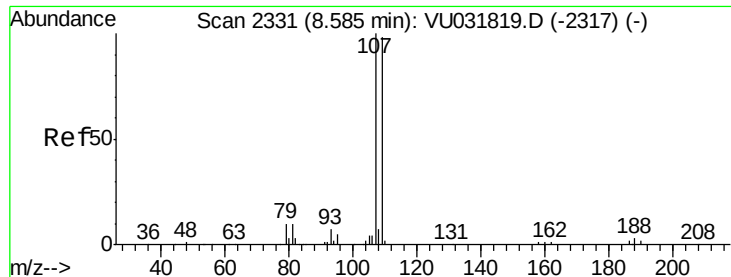
Tgt Ion: 43 Resp: 975365
Ion Ratio Lower Upper
43 100
58 53.0 40.2 60.2
57 18.0 13.8 20.6
100 8.7 6.4 9.6



#49
Dibromochloromethane
Concen: 4.798 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion: 129 Resp: 136704
Ion Ratio Lower Upper
129 100
127 74.4 54.7 101.7

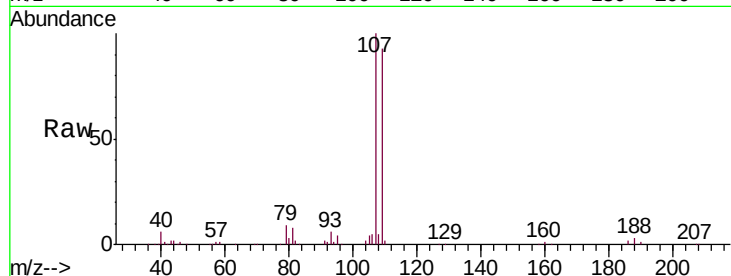




#50
 1,2-Dibromoethane
 Concen: 5.059 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.8	62.6	116.3
188	2.7	2.1	3.1

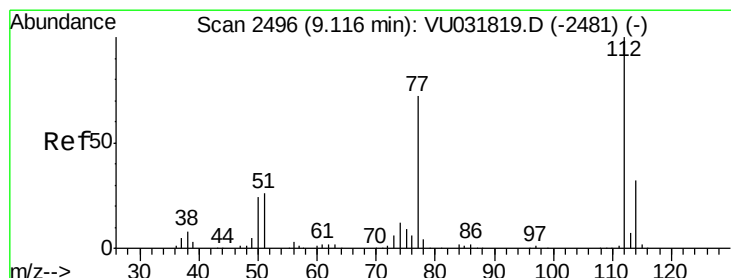
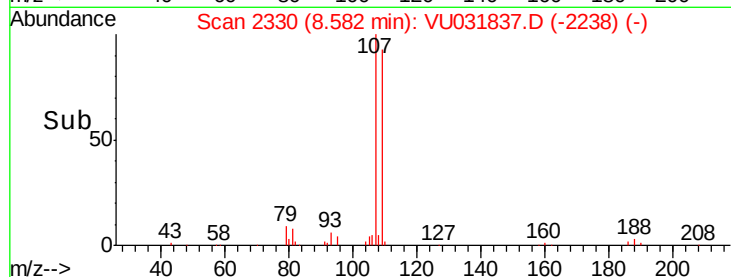
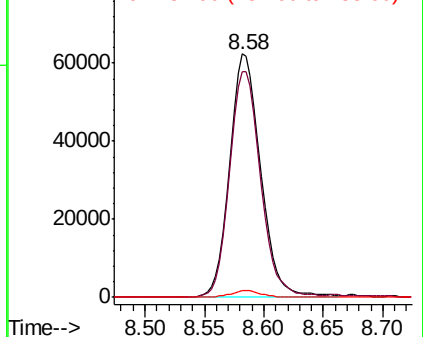


Abundance

Ion 106.95 (106.65 to 107.65): V

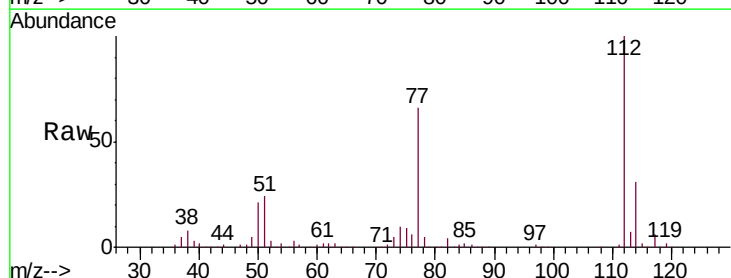
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
 Chlorobenzene
 Concen: 4.938 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	22.5	41.7
77	65.9	56.9	85.3

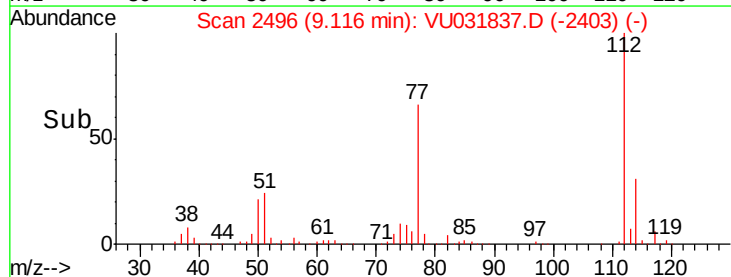
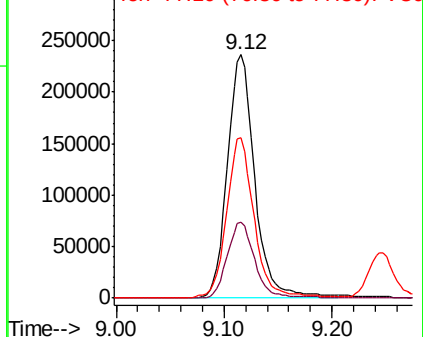


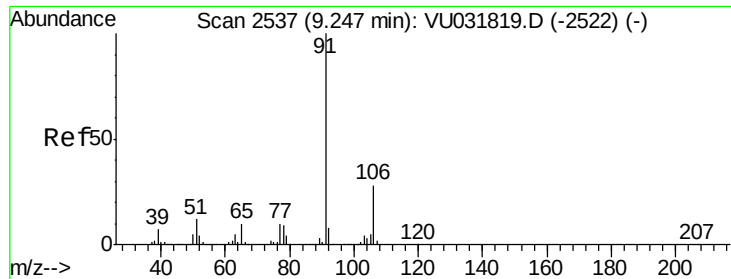
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU

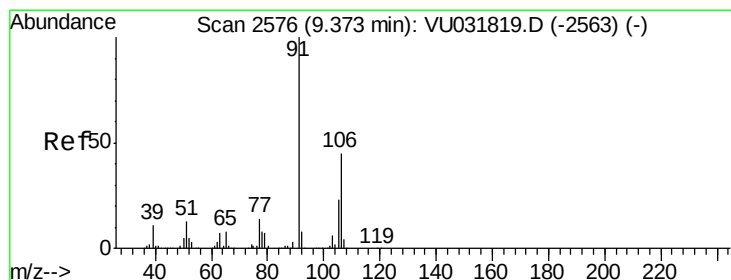
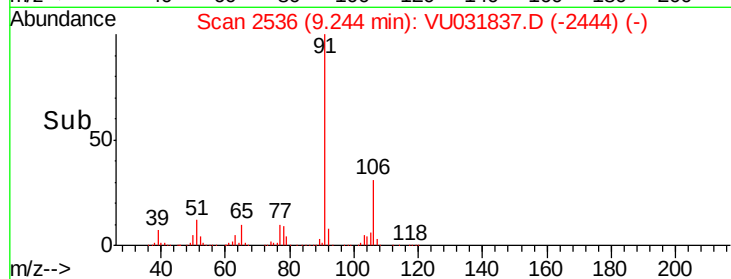
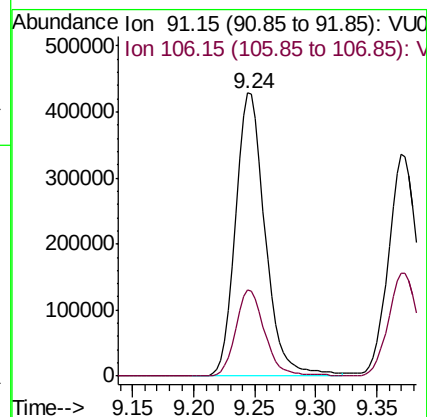
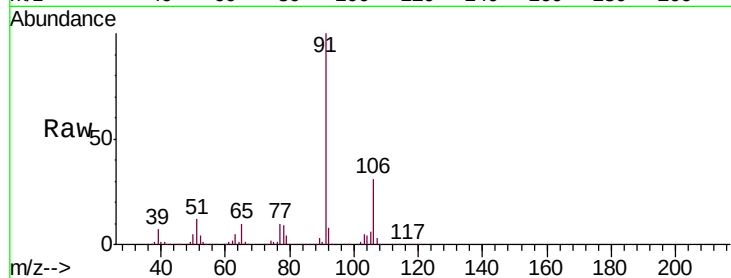




#52
Ethylbenzene
Concen: 4.880 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

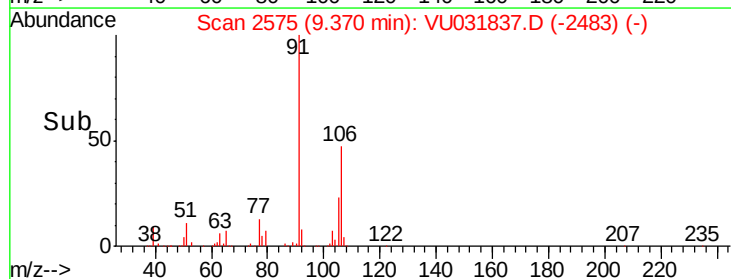
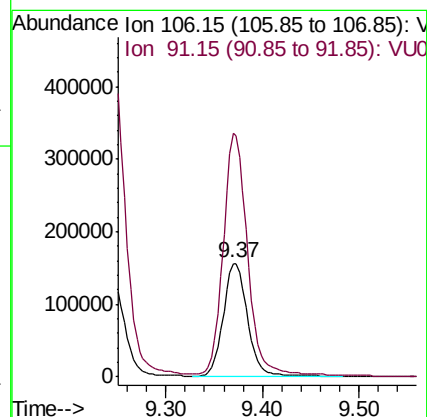
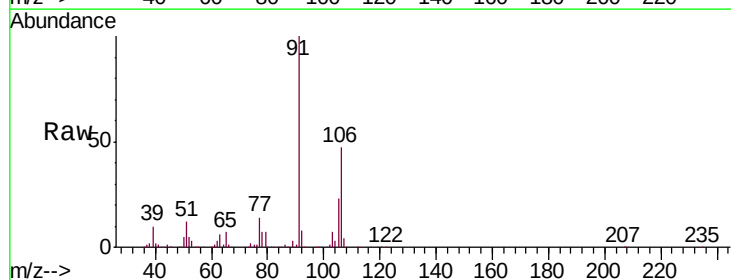
Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

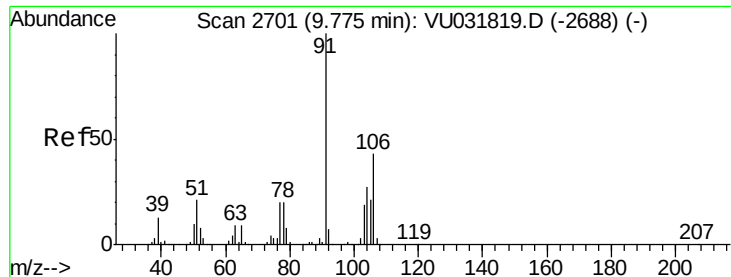
Tgt Ion: 91 Resp: 726156
Ion Ratio Lower Upper
91 100
106 30.6 20.0 37.2



#53
m,p-Xylene
Concen: 5.169 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion: 106 Resp: 273771
Ion Ratio Lower Upper
106 100
91 214.5 150.3 279.1

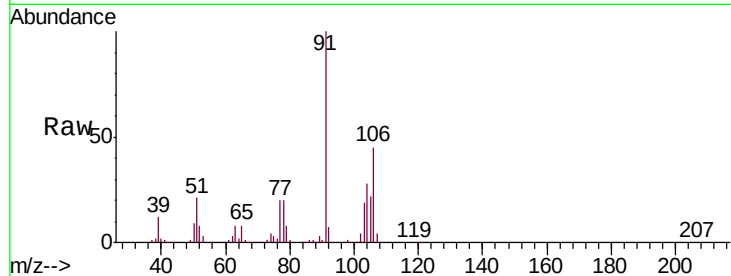




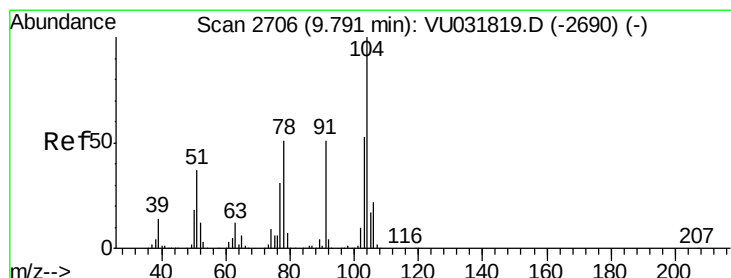
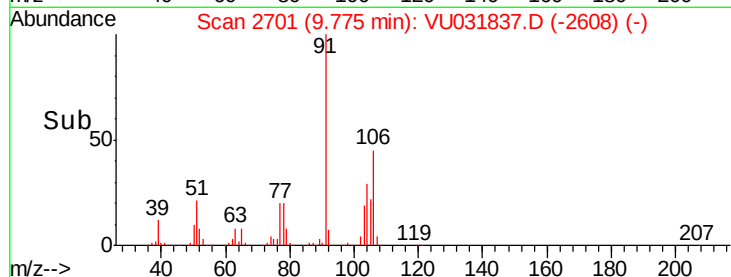
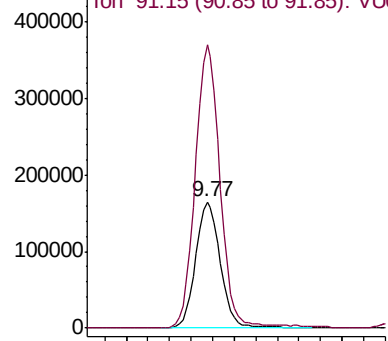
#54
o-Xylene
Concen: 5.193 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00524

Tgt Ion:106 Resp: 263052
Ion Ratio Lower Upper
106 100
91 224.1 161.8 300.6

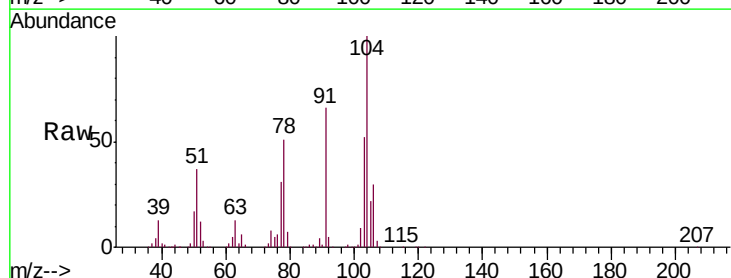


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

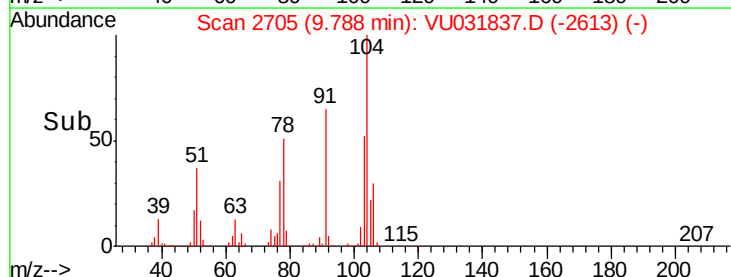
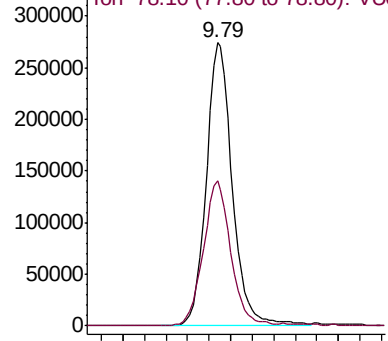


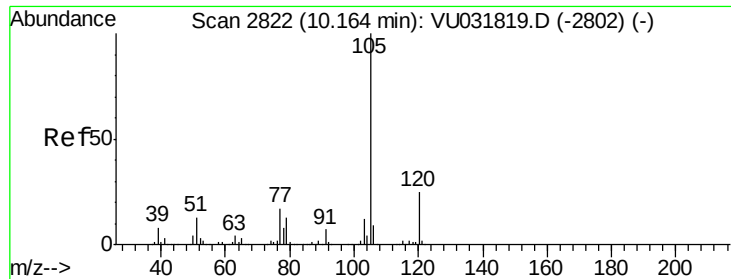
#55
Styrene
Concen: 5.304 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU031837.D
Acq: 08 May 2019 21:51

Tgt Ion:104 Resp: 461078
Ion Ratio Lower Upper
104 100
78 51.1 37.2 69.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.100 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

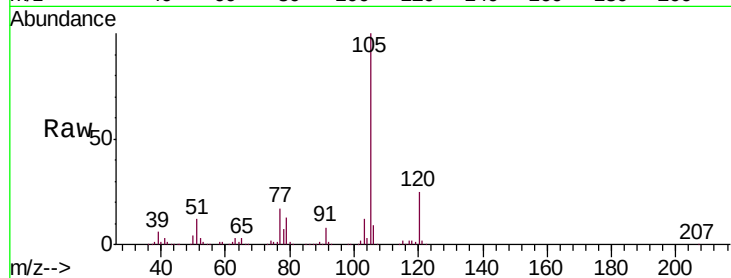
Tgt Ion:105 Resp: 691678

Ion Ratio Lower Upper

105 100

120 24.7 20.2 30.4

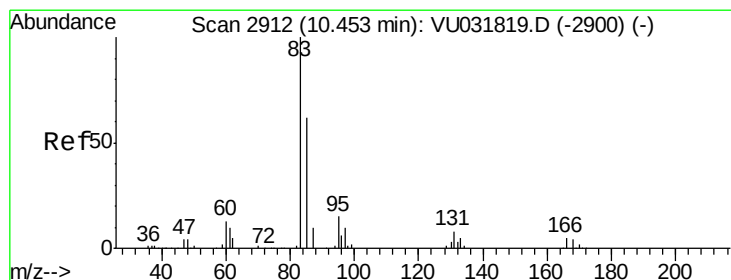
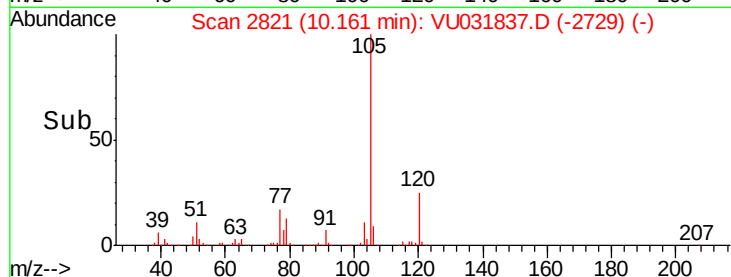
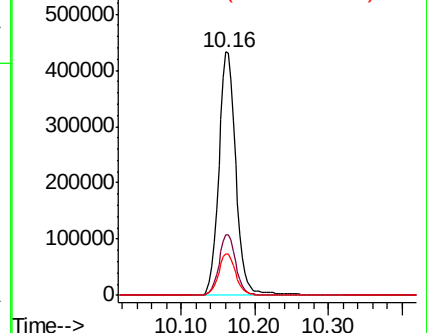
77 17.0 14.8 22.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.903 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

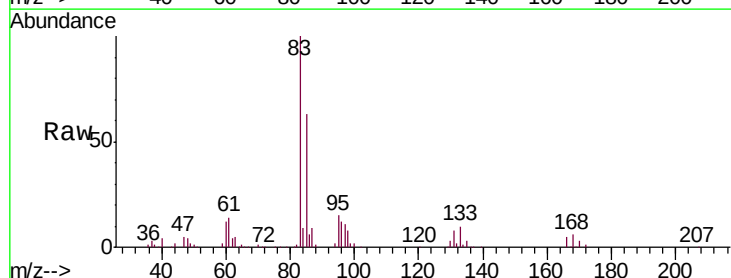
Tgt Ion: 83 Resp: 160406

Ion Ratio Lower Upper

83 100

85 62.9 44.3 82.3

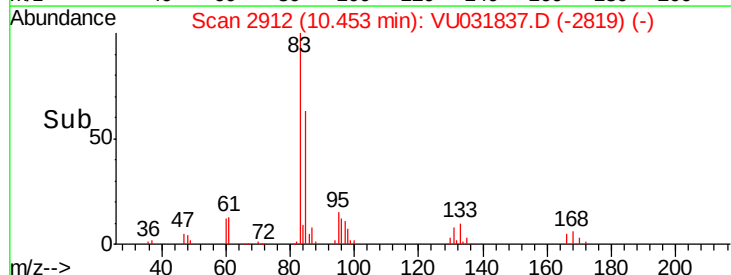
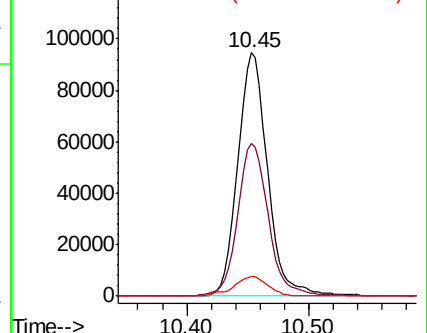
131 8.3 6.0 9.0

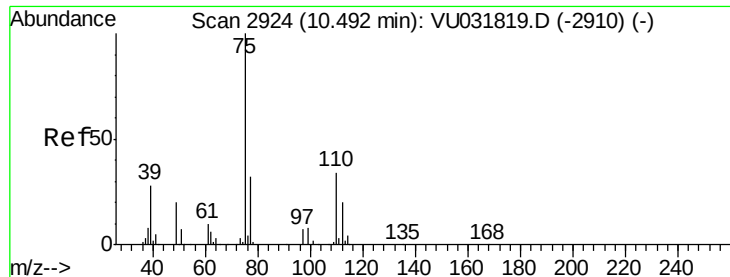


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

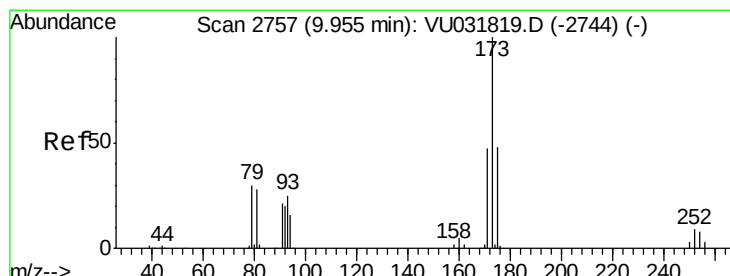
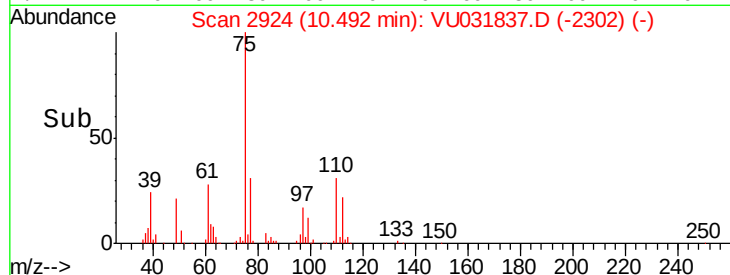
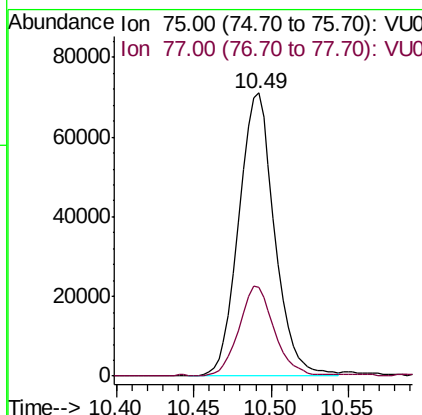
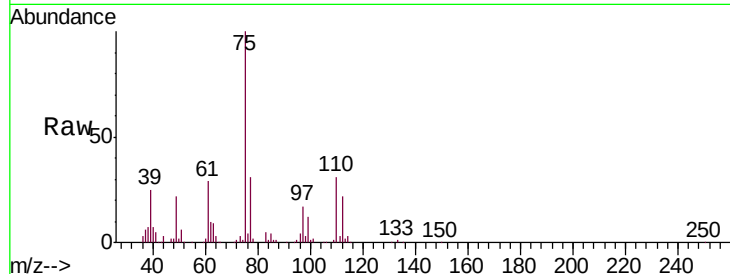




#59
 1,2,3-Trichloropropane
 Concen: 4.697 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

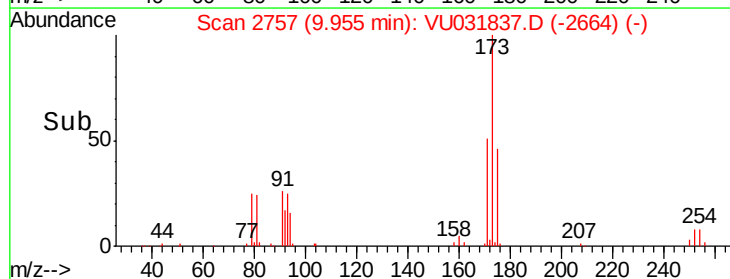
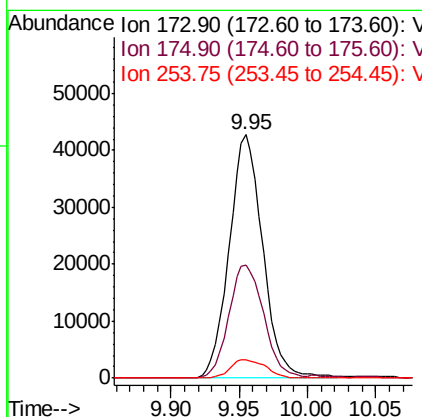
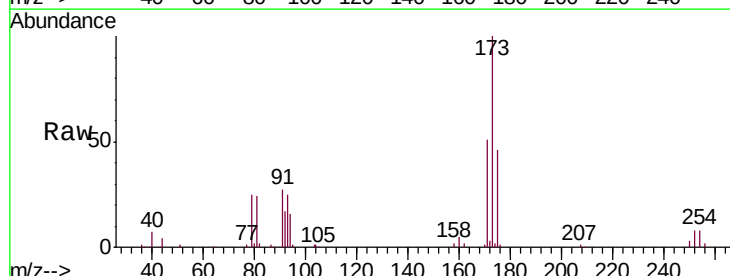
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

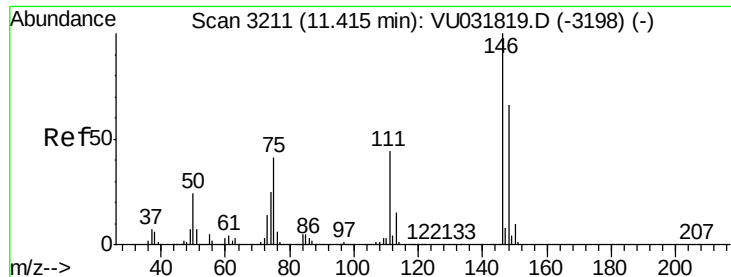
Tgt Ion: 75 Resp: 114935
 Ion Ratio Lower Upper
 75 100
 77 30.6 26.3 39.5



#61
 Bromoform
 Concen: 5.047 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion: 173 Resp: 73236
 Ion Ratio Lower Upper
 173 100
 175 48.1 37.2 55.8
 254 8.0 5.8 8.8





#62

1,3-Dichlorobenzene

Concen: 5.059 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

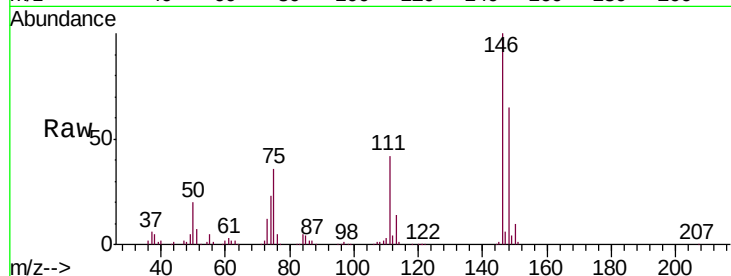
Tgt Ion:146 Resp: 291371

Ion Ratio Lower Upper

146 100

111 42.4 29.4 54.6

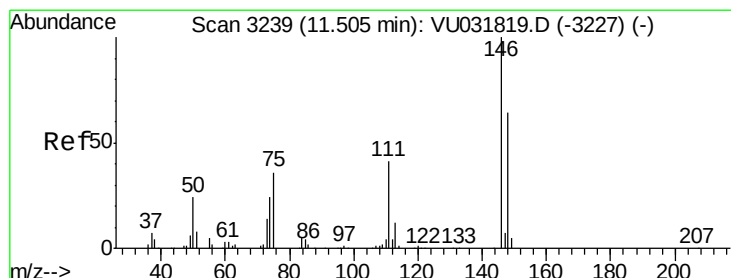
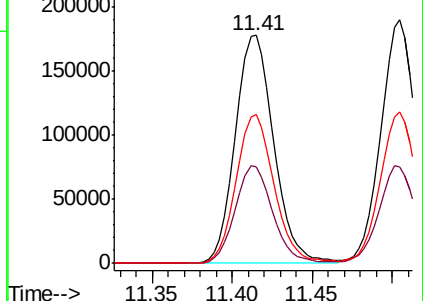
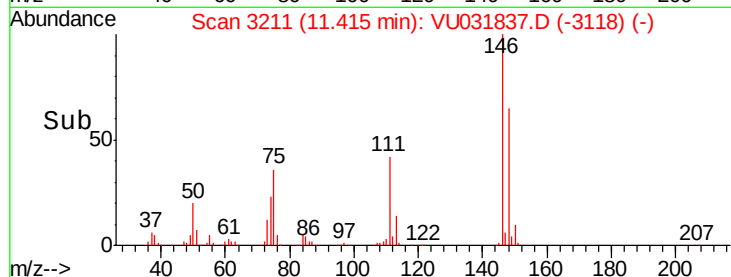
148 65.3 44.0 81.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.226 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

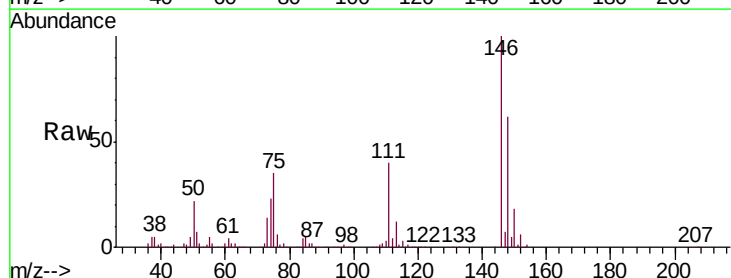
Tgt Ion:146 Resp: 305307

Ion Ratio Lower Upper

146 100

111 39.7 29.5 54.7

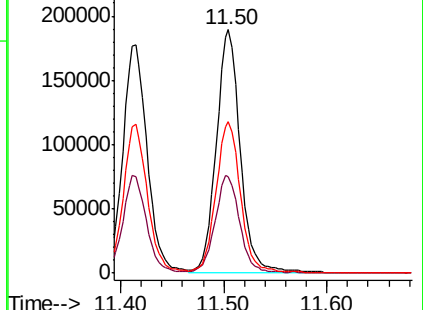
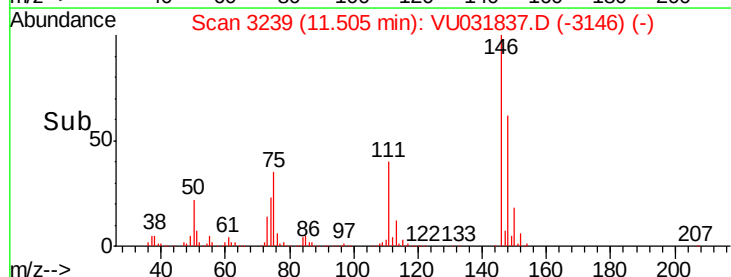
148 62.1 44.8 83.2

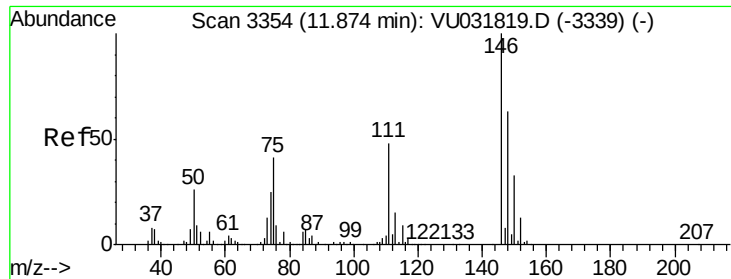


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.351 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00524

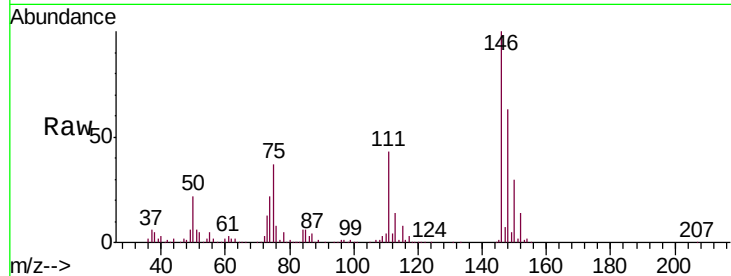
Tgt Ion:146 Resp: 300678

Ion Ratio Lower Upper

146 100

111 43.0 37.0 55.4

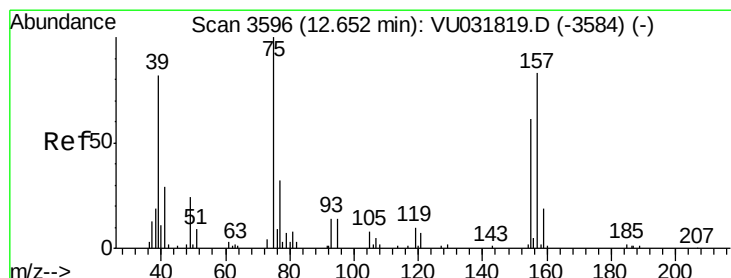
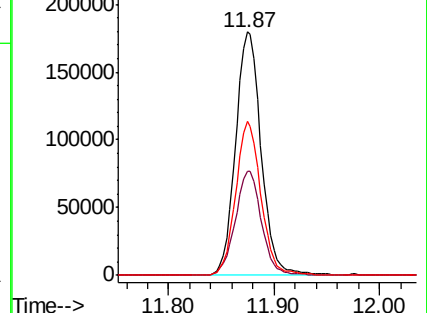
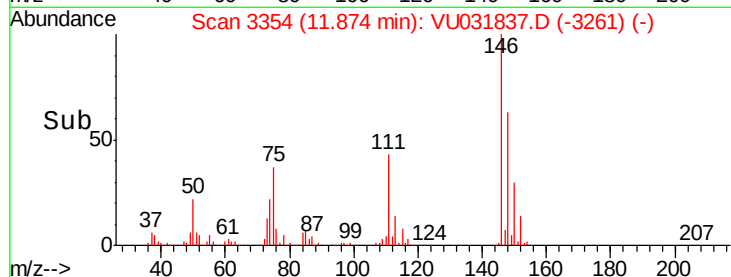
148 63.0 52.2 78.4



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.816 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU031837.D

Acq: 08 May 2019 21:51

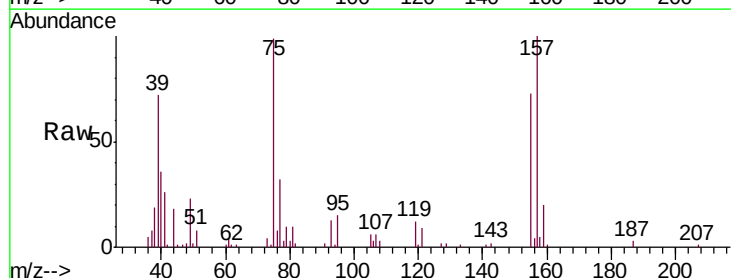
Tgt Ion: 75 Resp: 25441

Ion Ratio Lower Upper

75 100

155 73.6 42.2 63.2#

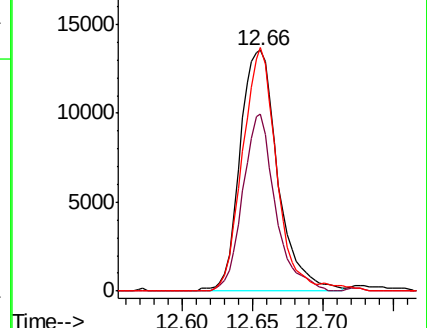
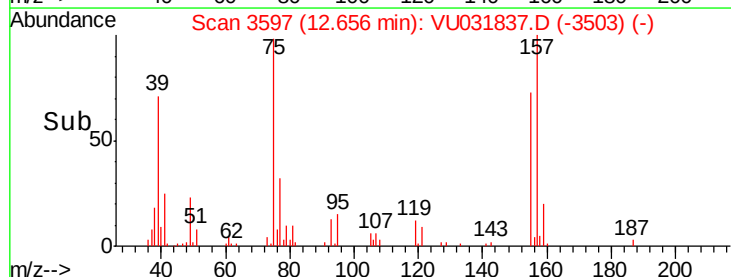
157 101.1 54.9 82.3#

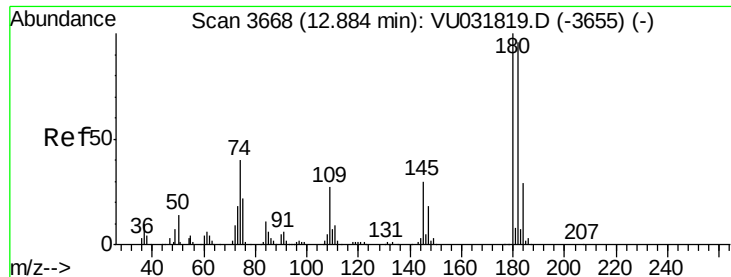


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

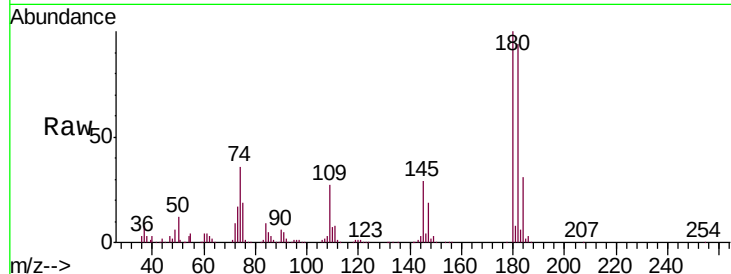




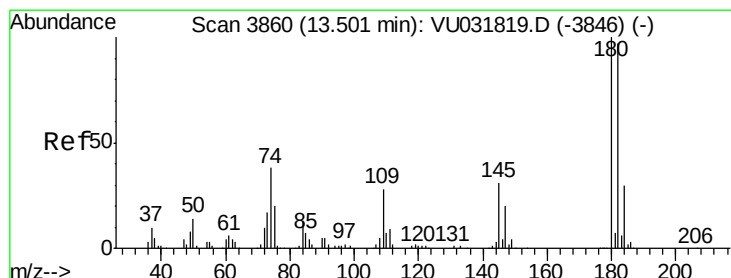
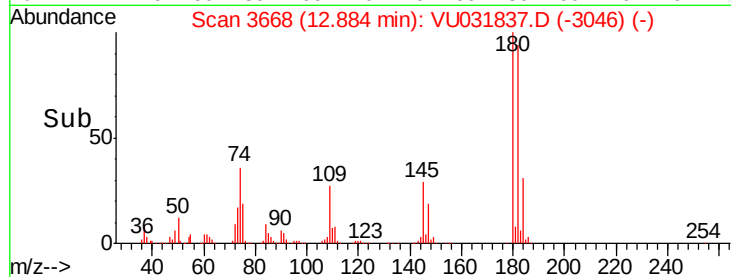
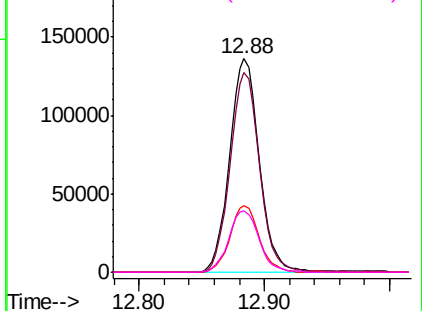
#67
 1,3,5-Trichlorobenzene
 Concen: 5.116 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00524

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	77.0	115.4
184	30.6	24.1	36.1
145	29.3	24.5	36.7

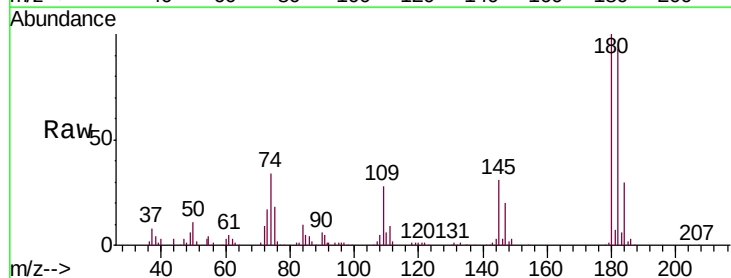


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.322 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031837.D
 Acq: 08 May 2019 21:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	74.8	112.2
145	30.2	25.4	38.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

