

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080719\
 Data File : VU033613.D
 Acq On : 07 Aug 2019 09:26
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Quant Time: Aug 08 03:10:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 07 18:50:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	302057	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	303775	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	163785	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	83917	43.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.94%
7) Chloroethane-d5	1.68	69	86739	40.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.62%
11) 1,1-Dichloroethene-d2	2.26	63	172610	46.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.36%
21) 2-Butanone-d5	4.16	46	164793	105.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.38%
24) Chloroform-d	4.62	84	179167	48.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.52%
26) 1,2-Dichloroethane-d4	5.29	65	113112	48.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.62%
32) Benzene-d6	5.32	84	341877	46.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.04%
36) 1,2-Dichloropropane-d6	6.31	67	111611	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.88%
41) Toluene-d8	7.55	98	318196	46.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.06%
43) trans-1,3-Dichloropropene-	7.83	79	55218	46.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.38%
47) 2-Hexanone-d5	8.30	63	113989	98.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.03%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	186388	51.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.44%
64) 1,2-Dichlorobenzene-d4	11.85	152	140089	47.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.26%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	142100	55.013 ug/L	99
3) Chloromethane	1.32	50	146996	52.510 ug/L	99
5) Vinyl chloride	1.40	62	159135	51.955 ug/L	98
6) Bromomethane	1.62	94	89006	36.378 ug/L	96
8) Chloroethane	1.69	64	115916	48.126 ug/L	98
9) Trichlorofluoromethane	1.87	101	230833	57.786 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	112500	55.451 ug/L	98
12) 1,1-Dichloroethene	2.27	96	104150	52.792 ug/L	96
13) Acetone	2.33	43	186756	119.897 ug/L	98
14) Carbon disulfide	2.46	76	324643	53.087 ug/L	100
15) Methyl Acetate	2.61	43	133562	52.515 ug/L	99
16) Methylene chloride	2.68	84	124711	54.183 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	110720	52.605 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	341707	52.425 ug/L	99
19) 1,1-Dichloroethane	3.42	63	212189	53.561 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	124301	53.543 ug/L	100
22) 2-Butanone	4.25	43	216000	110.402 ug/L	96

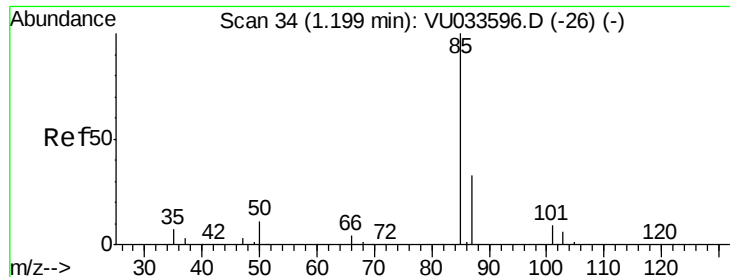
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080719\
 Data File : VU033613.D
 Acq On : 07 Aug 2019 09:26
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 07 18:50:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	66500	54.778	ug/L	99
25) Chloroform	4.65	83	229804	56.139	ug/L	99
27) 1,2-Dichloroethane	5.38	62	175549	54.892	ug/L	98
29) Cyclohexane	4.97	56	179264	51.815	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	189598	53.355	ug/L	98
31) Carbon tetrachloride	5.11	117	170591	54.690	ug/L	100
33) Benzene	5.37	78	476376	52.679	ug/L	100
34) Trichloroethene	6.17	95	124279	53.357	ug/L	99
35) Methylcyclohexane	6.40	83	195745	53.385	ug/L	99
37) 1,2-Dichloropropane	6.41	63	130120	52.684	ug/L	99
38) Bromodichloromethane	6.74	83	167898	53.933	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	196345	52.277	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	360303	101.943	ug/L	100
42) Toluene	7.62	91	526362	54.481	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	181336	53.656	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	122396	52.965	ug/L	98
46) Tetrachloroethene	8.21	164	104325	54.592	ug/L	97
48) 2-Hexanone	8.35	43	302826	107.291	ug/L	99
49) Dibromochloromethane	8.46	129	140947	54.270	ug/L	100
50) 1,2-Dibromoethane	8.57	107	136552	53.951	ug/L	98
51) Chlorobenzene	9.10	112	335182	53.131	ug/L	99
52) Ethylbenzene	9.23	91	562565	53.706	ug/L	99
53) m,p-Xylene	9.36	106	216702	54.324	ug/L	99
54) o-xylene	9.76	106	216428	55.389	ug/L	98
55) Styrene	9.77	104	370763	55.881	ug/L	100
56) Isopropylbenzene	10.15	105	550310	54.593	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	214237	51.846	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	170373	52.669	ug/L	99
61) Bromoform	9.94	173	107486	52.711	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	276440	53.797	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	278919	53.132	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	278983	54.435	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	50169	51.943	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	211108	53.360	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	176260	52.227	ug/L	99
69) Naphthalene	13.73	128	525847	53.614	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	186623	51.984	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 55.013 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

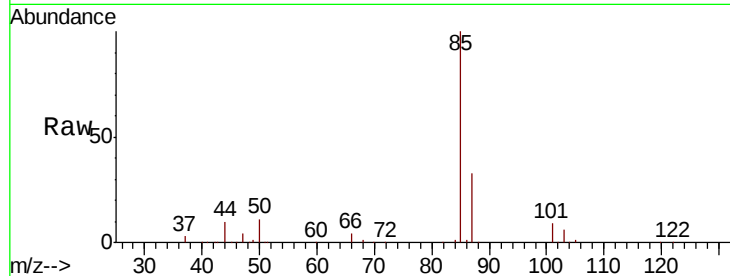
VSTD05051

Tgt Ion: 85 Resp: 142100

Ion Ratio Lower Upper

85 100

87 32.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033596.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033596.D (-26) (-)

1.20

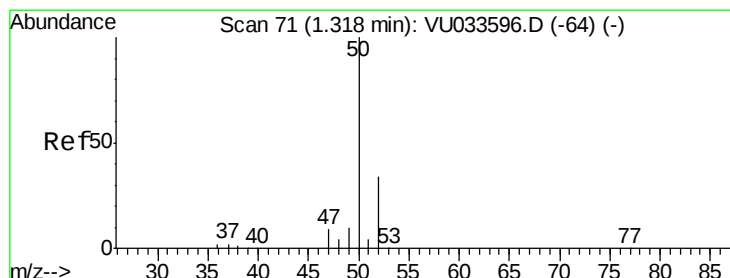
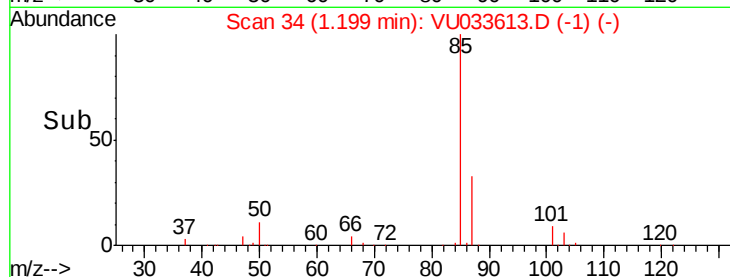
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 52.510 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033613.D

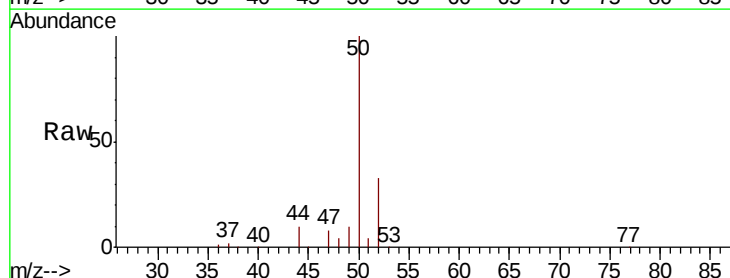
Acq: 07 Aug 2019 09:26

Tgt Ion: 50 Resp: 146996

Ion Ratio Lower Upper

50 100

52 33.0 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU033596.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033596.D (-64) (-)

1.32

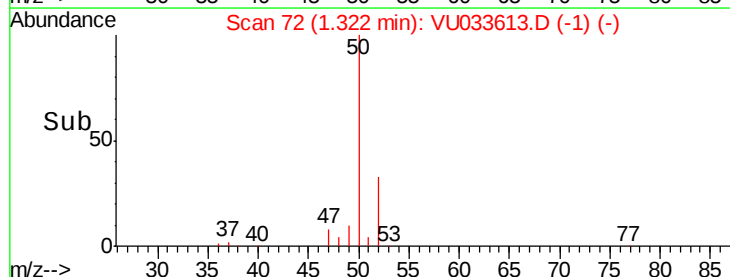
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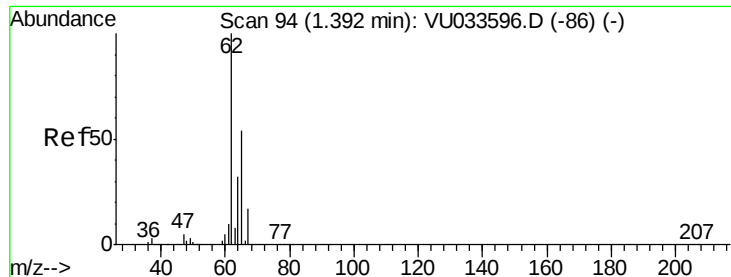
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 51.955 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

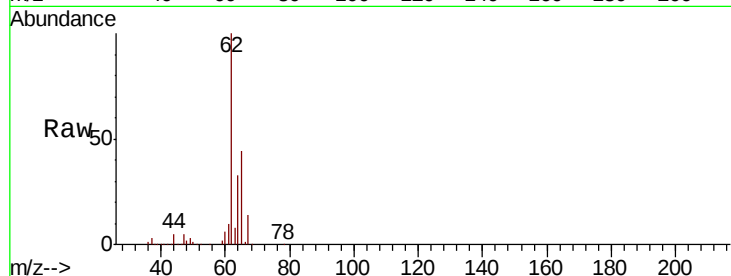
VSTD05051

Tgt Ion: 62 Resp: 159135

Ion Ratio Lower Upper

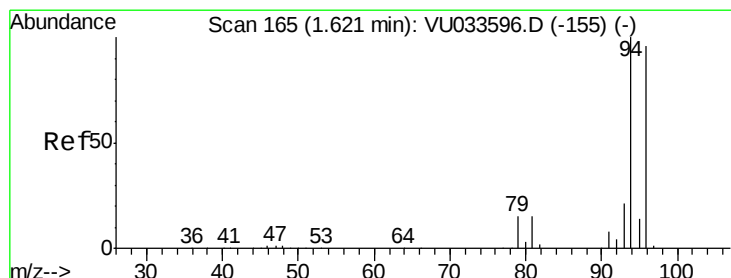
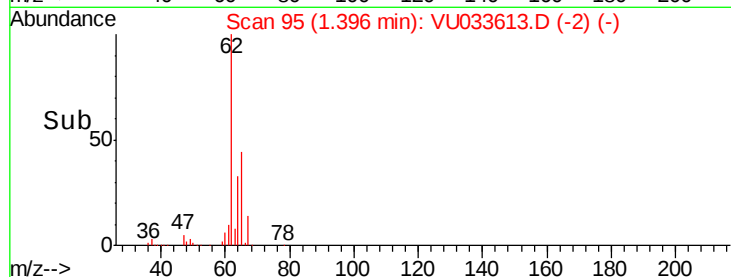
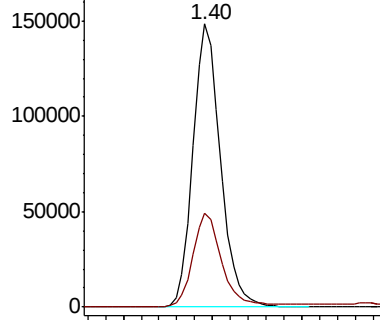
62 100

64 33.1 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 36.378 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033613.D

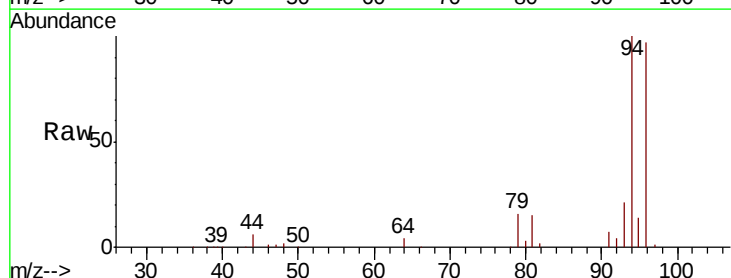
Acq: 07 Aug 2019 09:26

Tgt Ion: 94 Resp: 89006

Ion Ratio Lower Upper

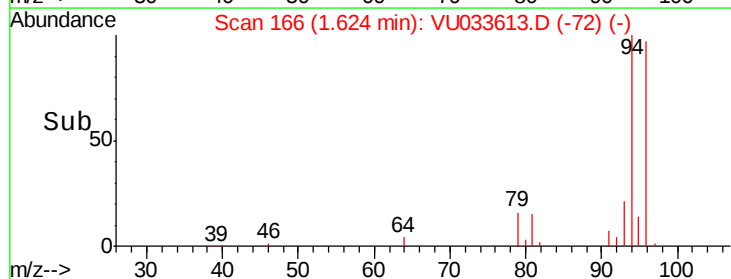
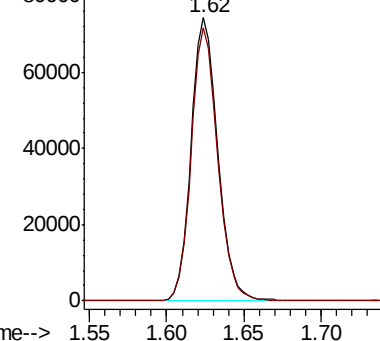
94 100

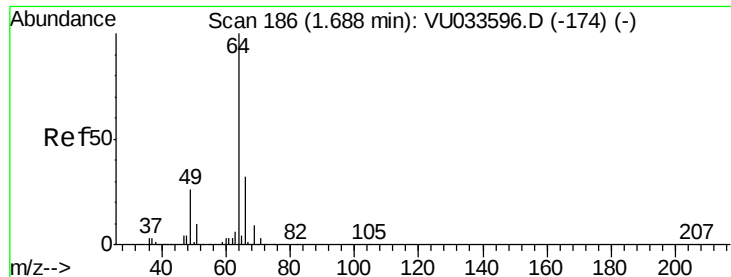
96 96.7 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 48.126 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampled :

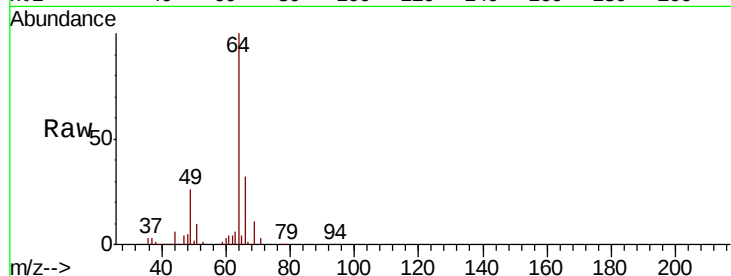
VSTD05051

Tgt Ion: 64 Resp: 115916

Ion Ratio Lower Upper

64 100

66 31.6 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VU033596.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU033596.D (-174) (-)

1.69

100000

80000

60000

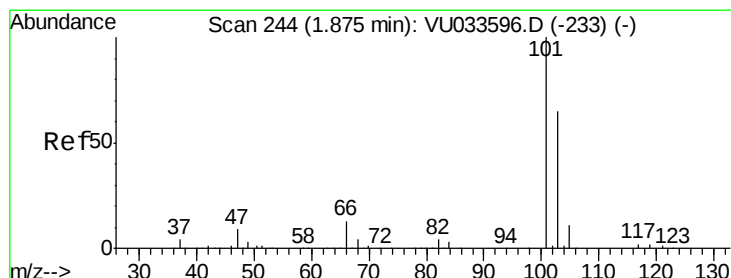
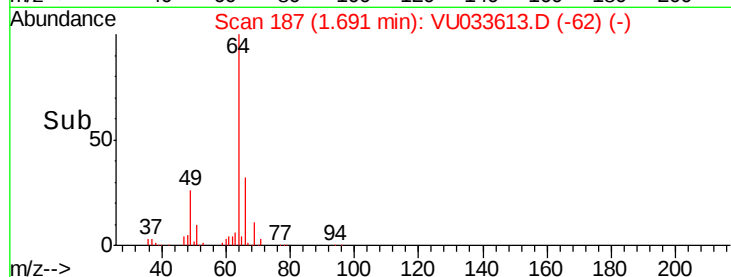
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 57.786 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033613.D

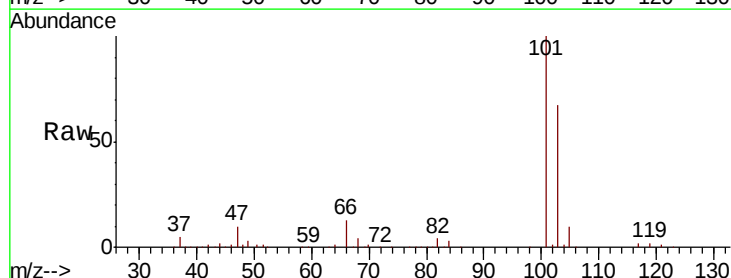
Acq: 07 Aug 2019 09:26

Tgt Ion: 101 Resp: 230833

Ion Ratio Lower Upper

101 100

103 65.7 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU033596.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033596.D (-233) (-)

1.87

200000

150000

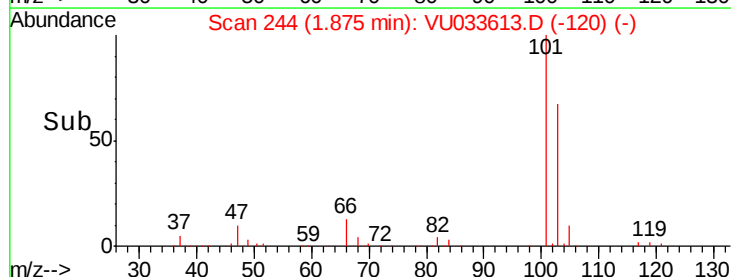
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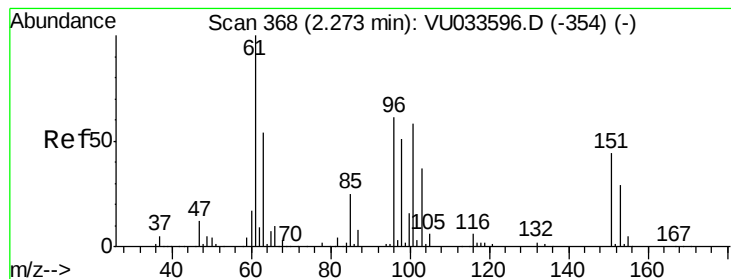
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 55.451 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

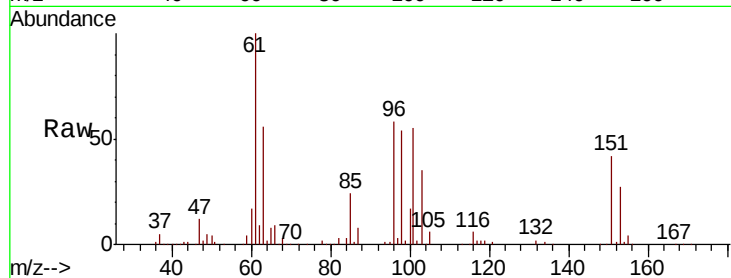
Tgt Ion: 101 Resp: 112500

Ion Ratio Lower Upper

101 100

85 44.5 34.3 51.5

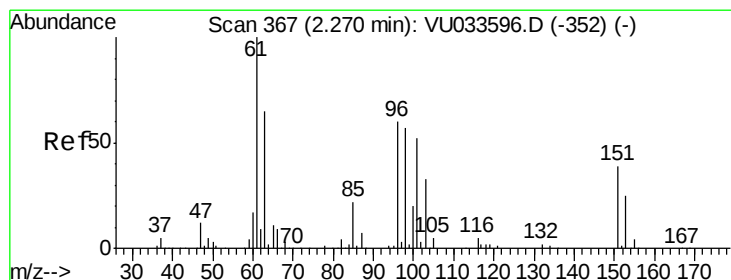
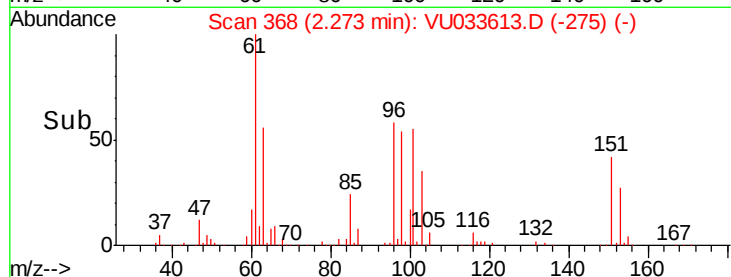
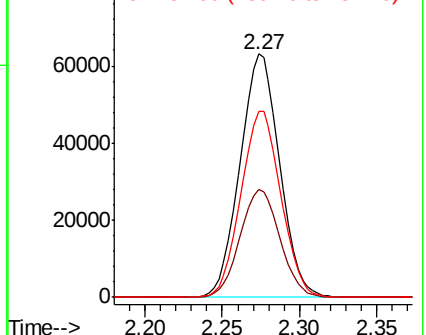
151 77.0 60.2 90.4



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: 52.792 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

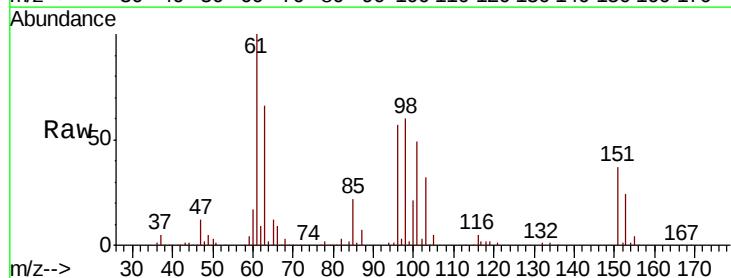
Tgt Ion: 96 Resp: 104150

Ion Ratio Lower Upper

96 100

61 175.4 119.1 221.3

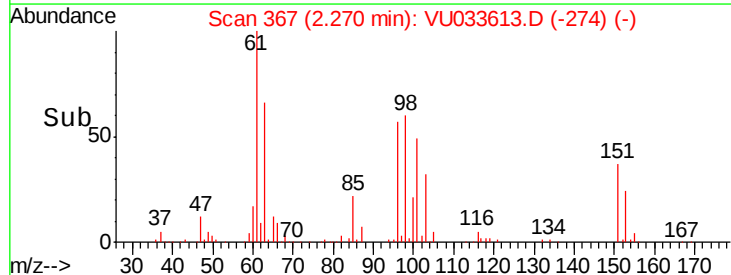
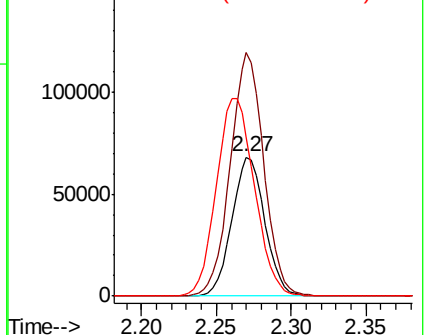
63 115.1 77.9 144.7

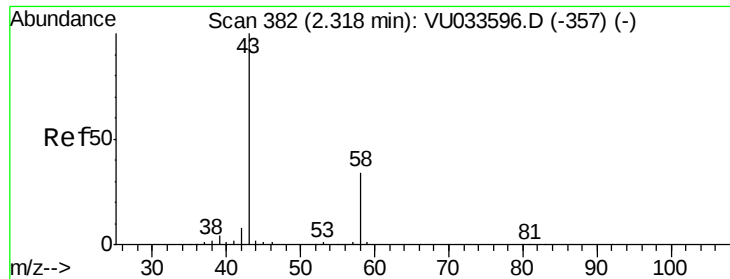


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 119.897 ug/L

RT: 2.33 min Scan# 385

Delta R.T. 0.01 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

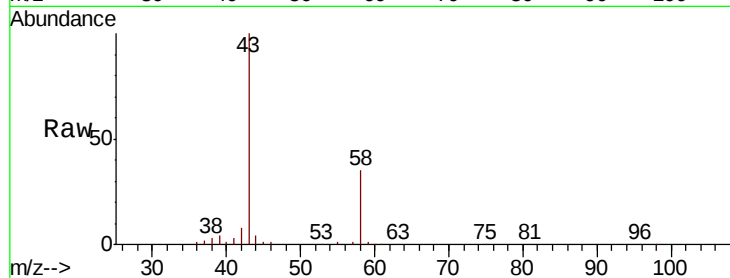
VSTD05051

Tgt Ion: 43 Resp: 186756

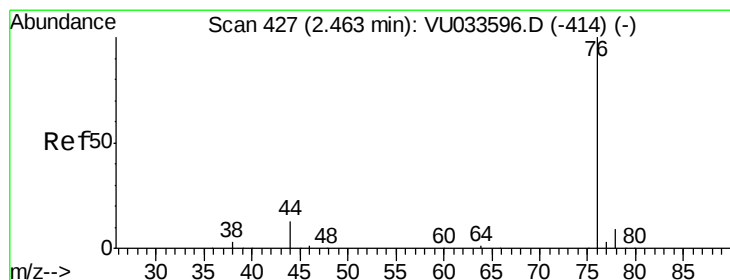
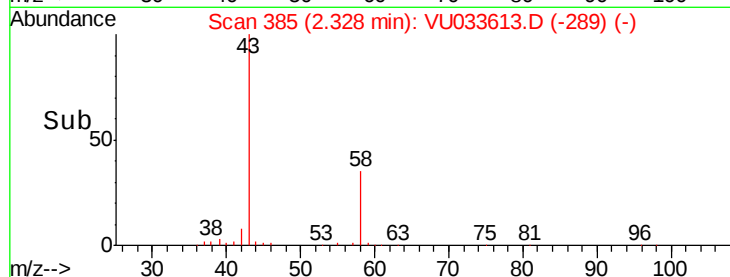
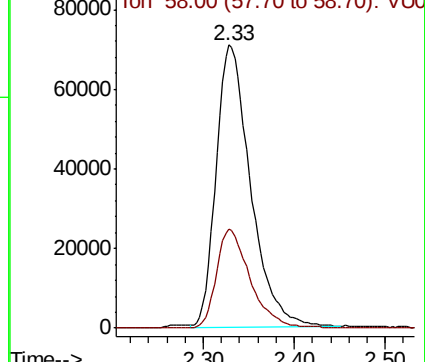
Ion Ratio Lower Upper

43 100

58 33.9 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033596.D (-357) (-)



#14

Carbon disulfide

Concen: 53.087 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033613.D

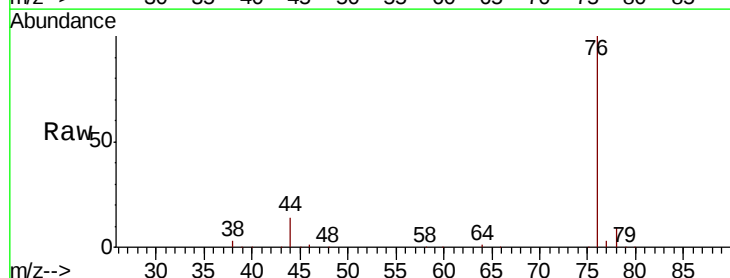
Acq: 07 Aug 2019 09:26

Tgt Ion: 76 Resp: 324643

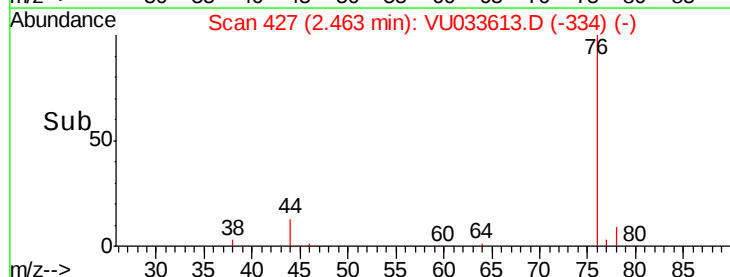
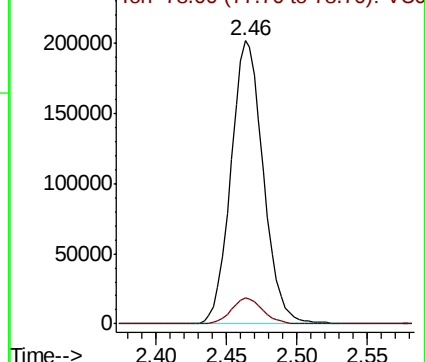
Ion Ratio Lower Upper

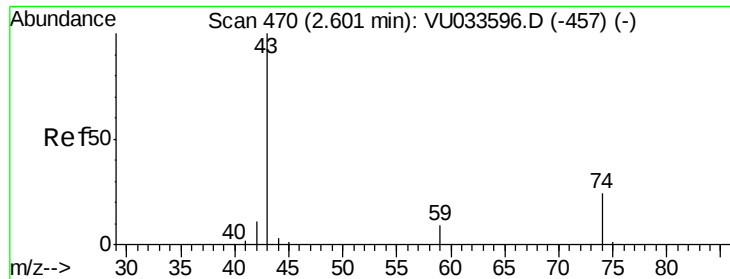
76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033596.D (-414) (-)

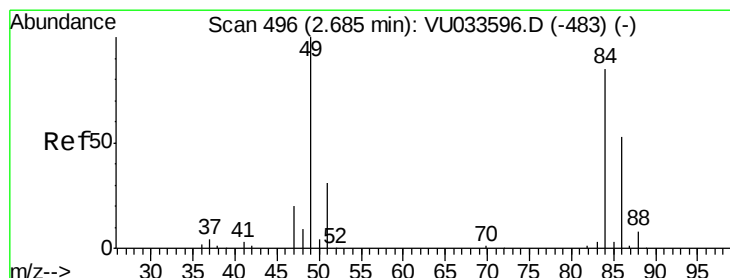
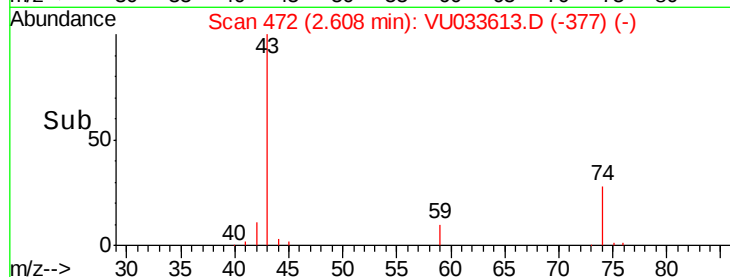
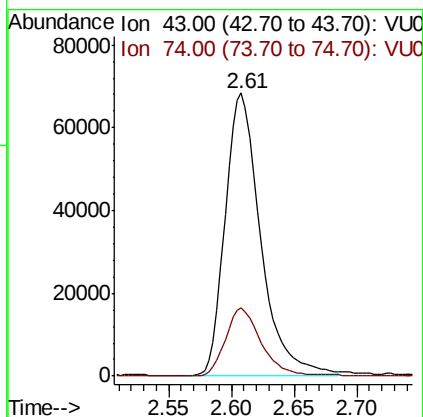
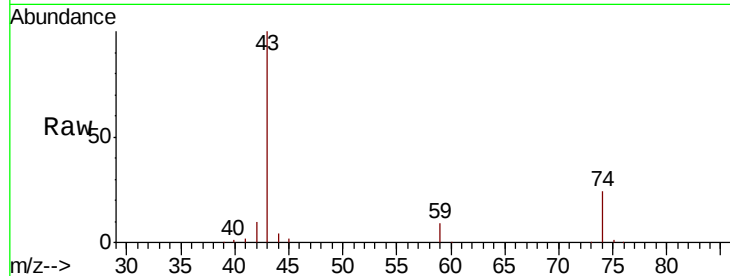




#15
Methyl Acetate
Concen: 52.515 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

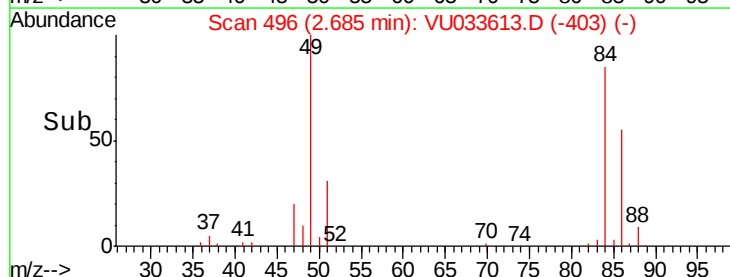
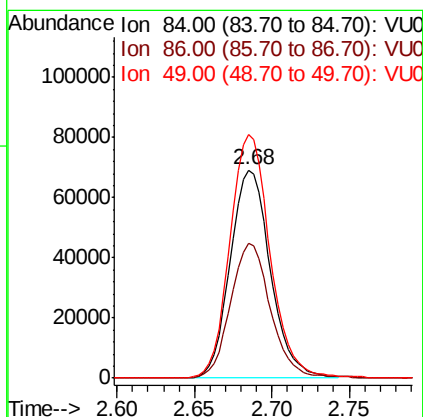
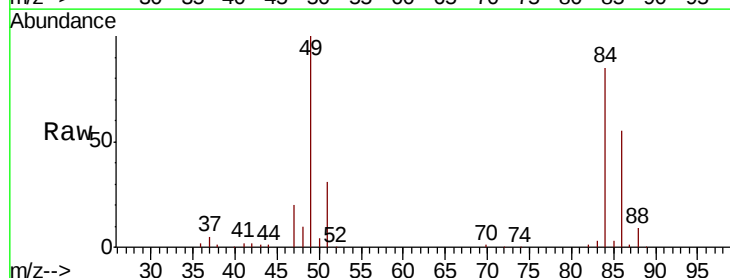
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

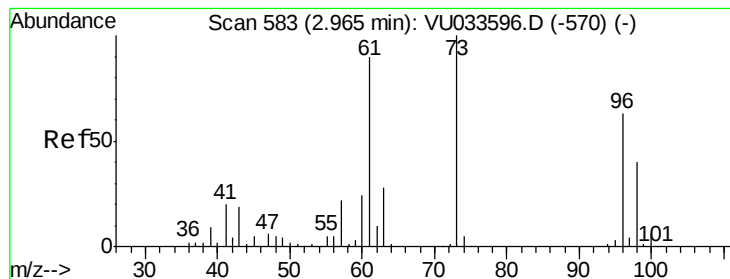
Tgt Ion: 43 Resp: 133562
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.6



#16
Methylene chloride
Concen: 54.183 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion: 84 Resp: 124711
Ion Ratio Lower Upper
84 100
86 64.6 44.9 83.5
49 117.1 83.4 155.0





#17

trans-1,2-Dichloroethene

Concen: 52.605 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

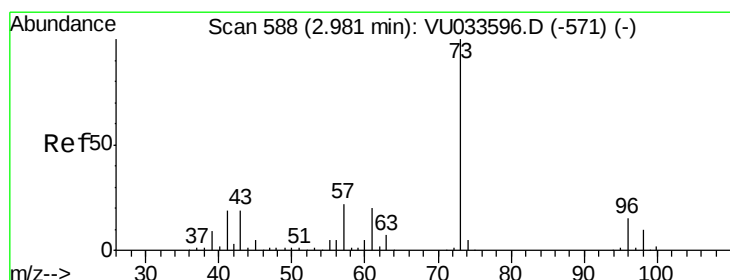
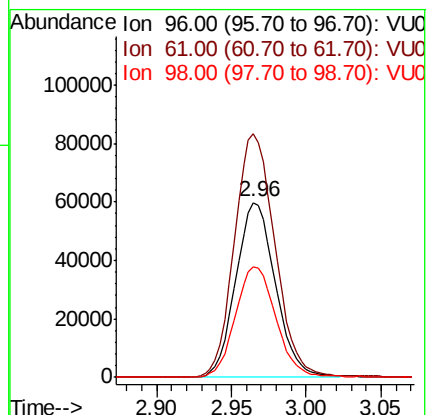
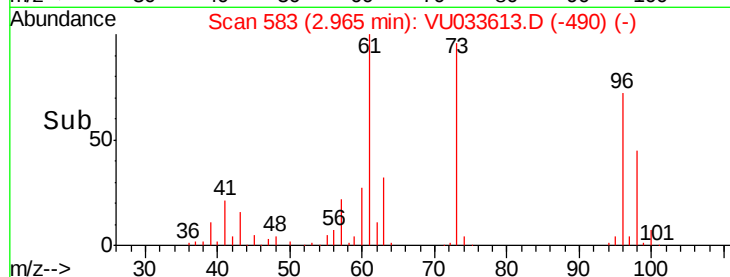
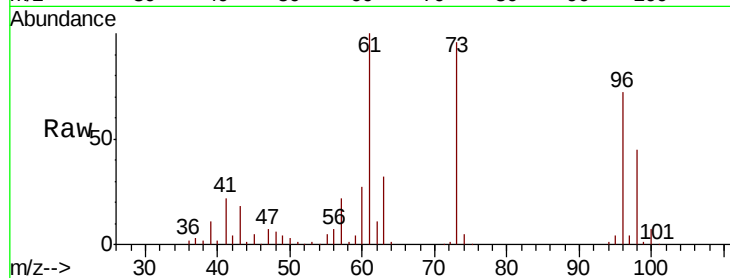
Tgt Ion: 96 Resp: 110720

Ion Ratio Lower Upper

96 100

61 139.2 98.8 183.4

98 63.2 44.9 83.5



#18

Methyl tert-butyl Ether

Concen: 52.425 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

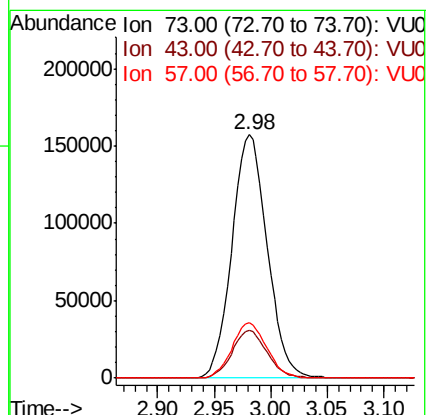
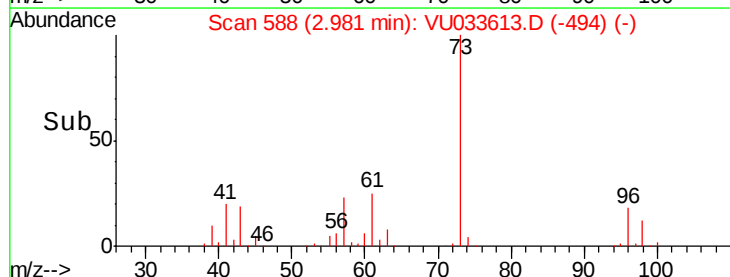
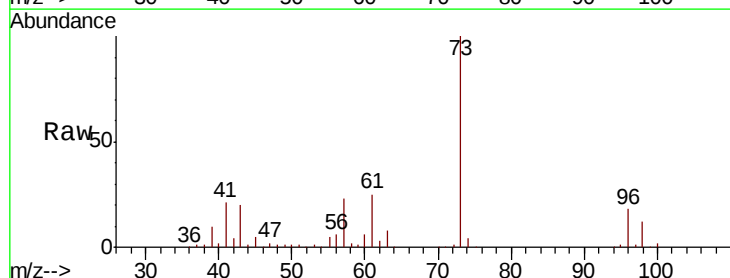
Tgt Ion: 73 Resp: 341707

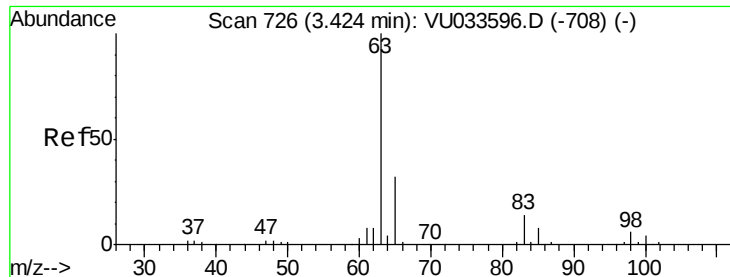
Ion Ratio Lower Upper

73 100

43 19.3 15.8 23.6

57 22.4 17.5 26.3

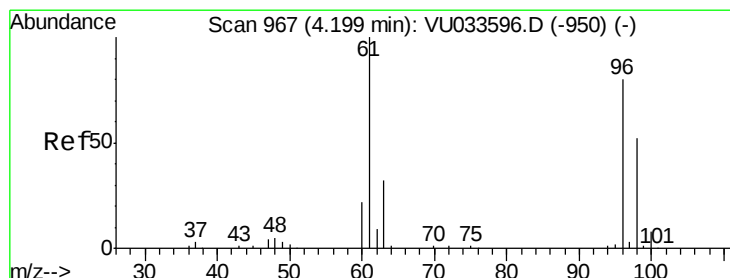
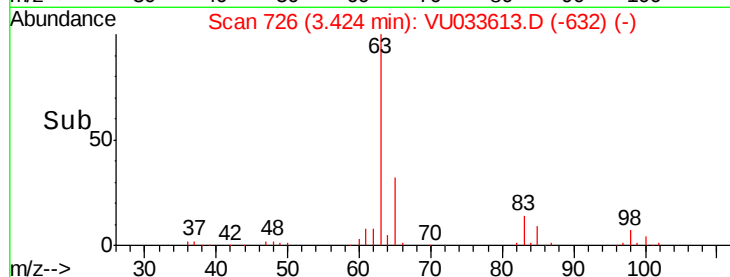
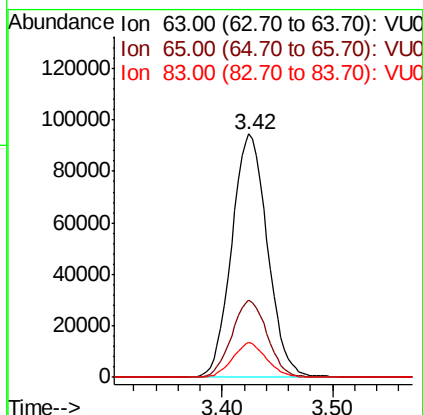
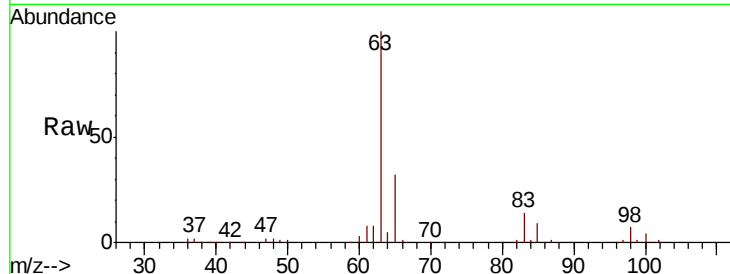




#19
 1,1-Dichloroethane
 Concen: 53.561 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

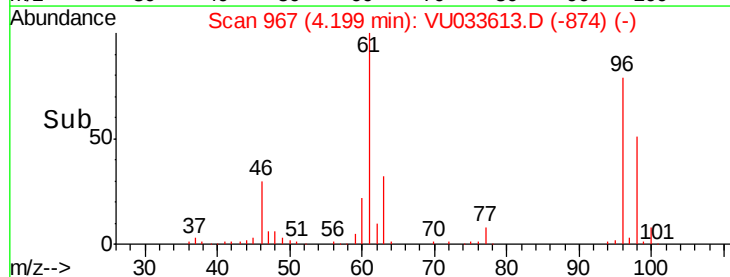
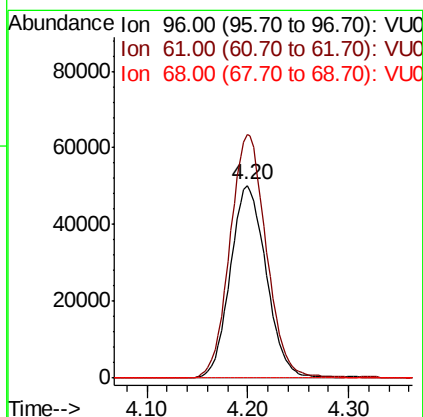
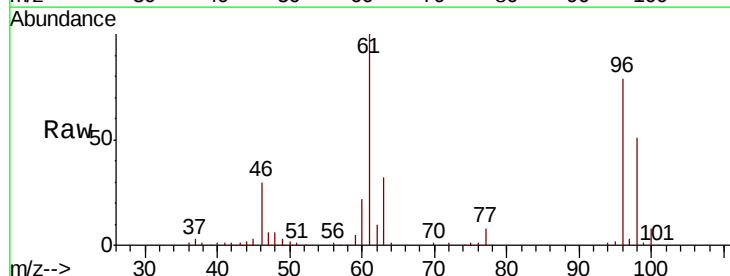
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

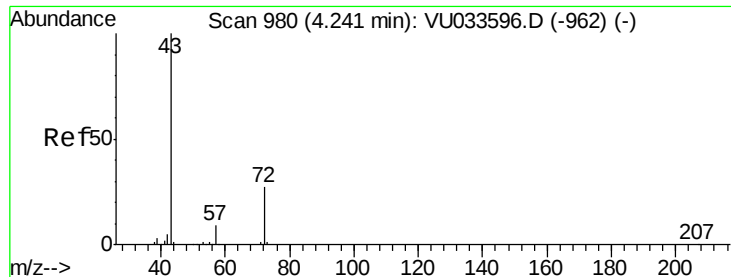
Tgt Ion: 63 Resp: 212189
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.9 42.5
 83 14.4 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 53.543 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

Tgt Ion: 96 Resp: 124301
 Ion Ratio Lower Upper
 96 100
 61 126.5 88.2 163.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 110.402 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

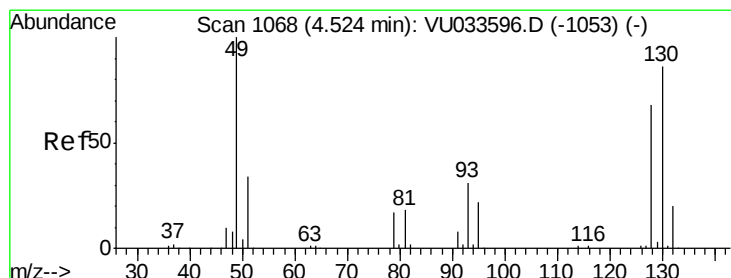
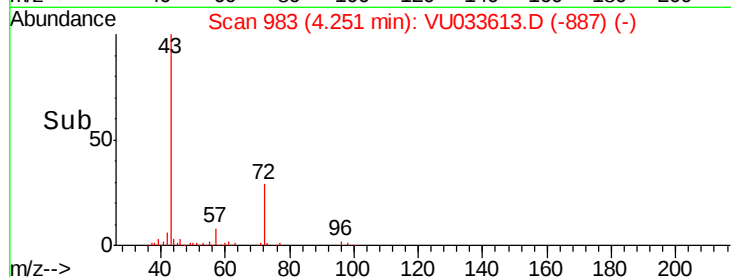
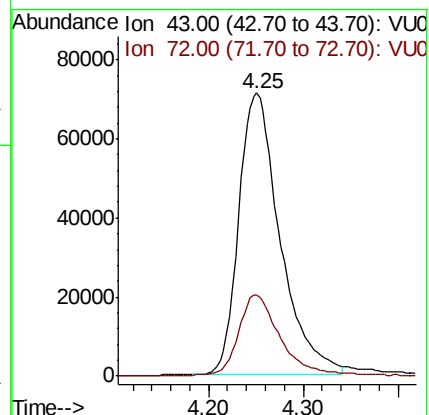
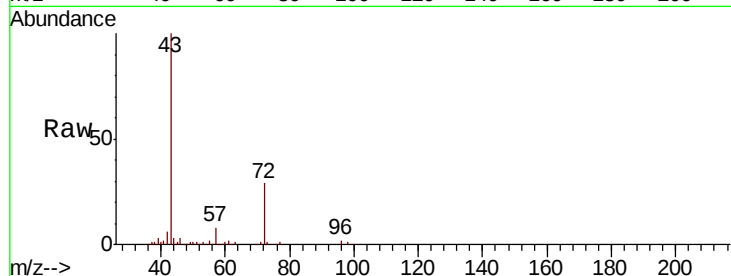
VSTD05051

Tgt Ion: 43 Resp: 216000

Ion Ratio Lower Upper

43 100

72 29.4 13.8 41.4



#23

Bromochloromethane

Concen: 54.778 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Tgt Ion: 128 Resp: 66500

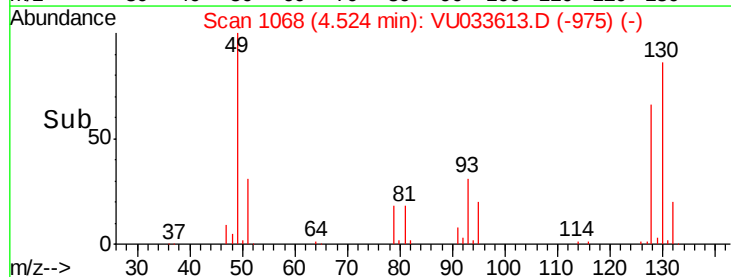
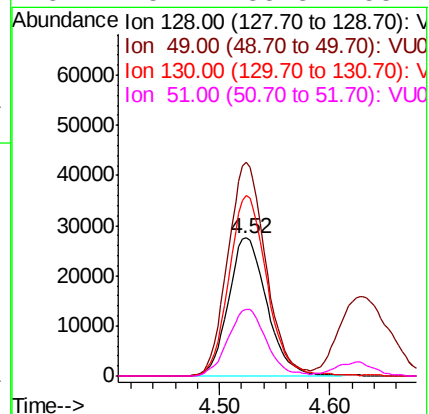
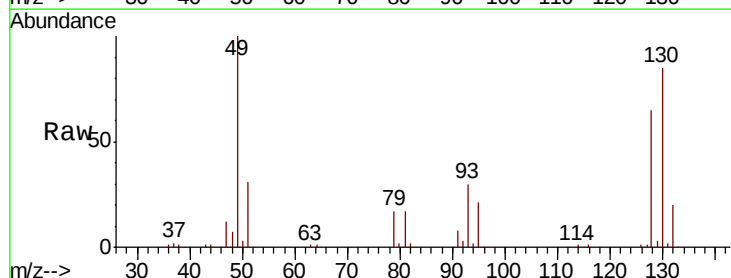
Ion Ratio Lower Upper

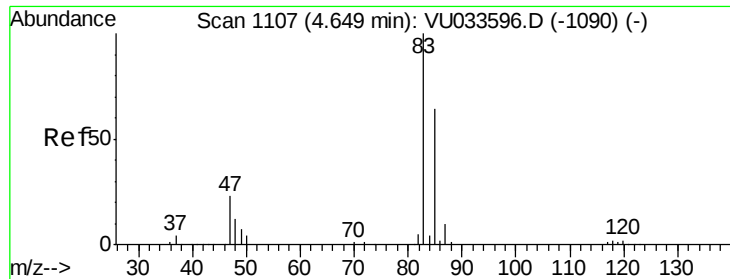
128 100

49 154.8 108.1 200.9

130 131.0 89.0 165.4

51 48.7 38.8 58.2

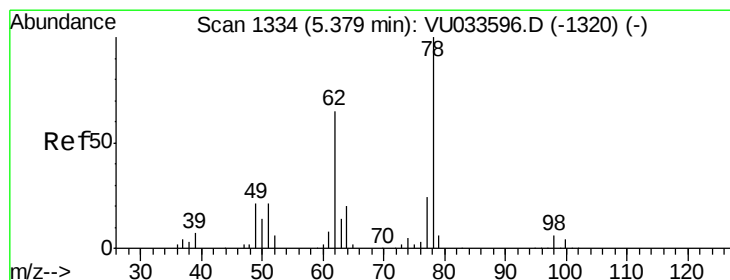
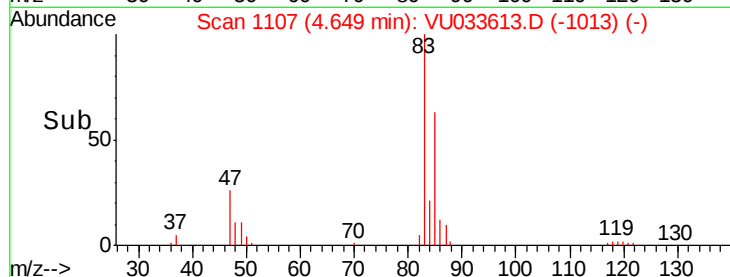
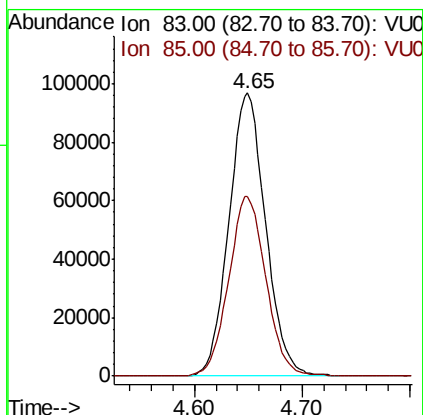
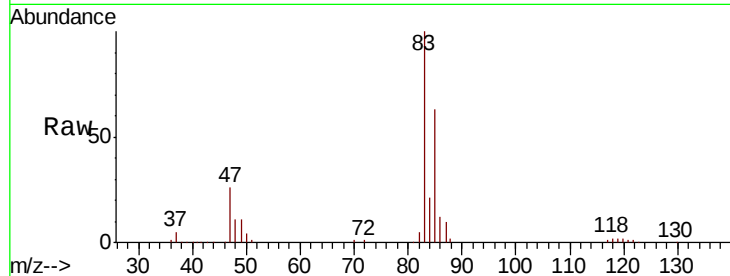




#25
Chloroform
Concen: 56.139 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

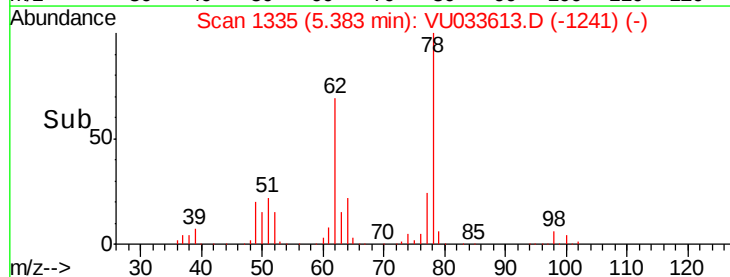
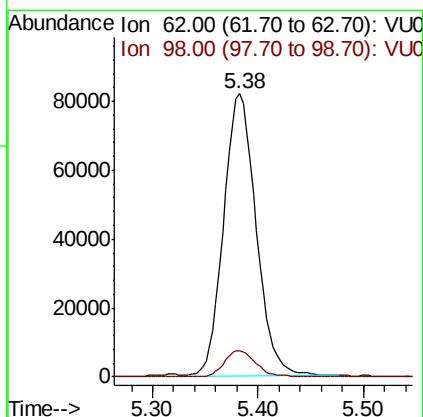
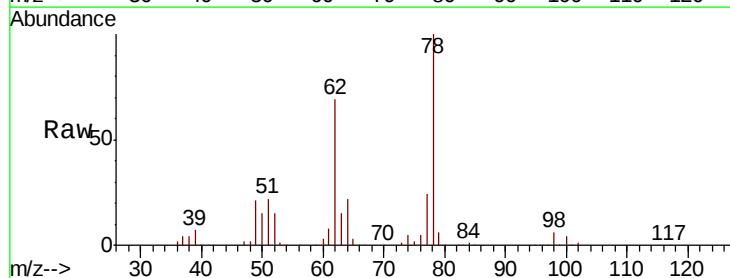
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

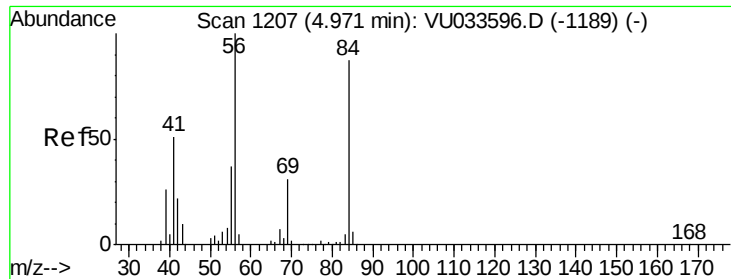
Tgt Ion: 83 Resp: 229804
Ion Ratio Lower Upper
83 100
85 63.4 44.9 83.3



#27
1,2-Dichloroethane
Concen: 54.892 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion: 62 Resp: 175549
Ion Ratio Lower Upper
62 100
98 9.4 7.0 10.4

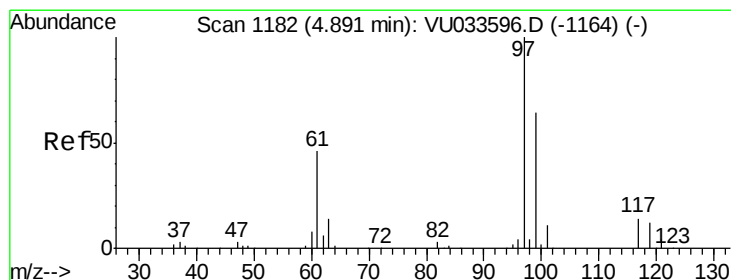
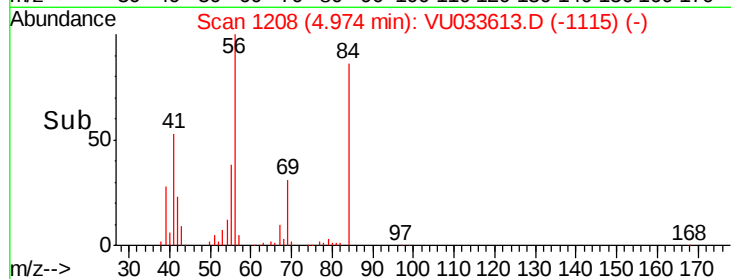
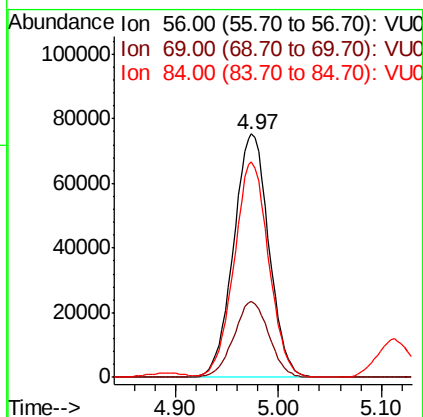
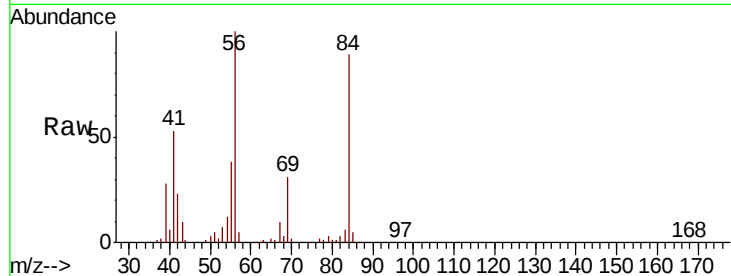




#29
Cyclohexane
Concen: 51.815 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

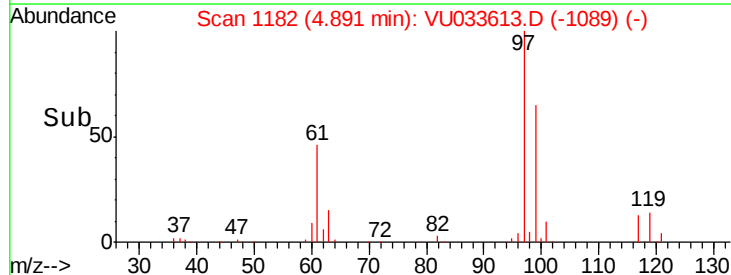
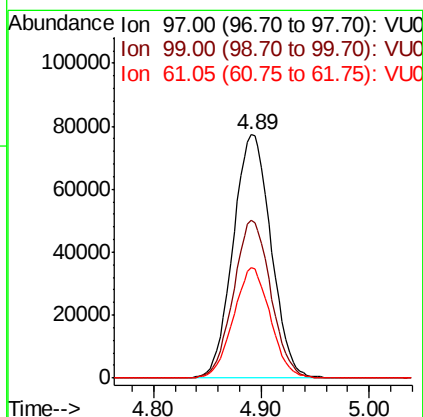
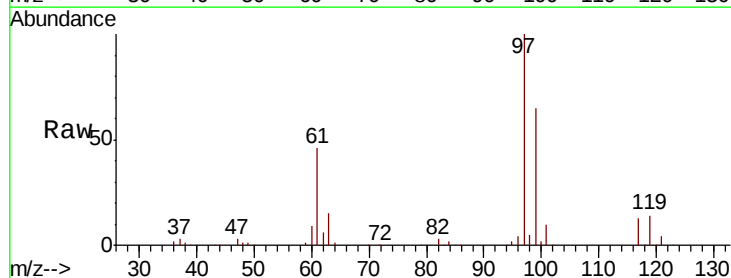
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

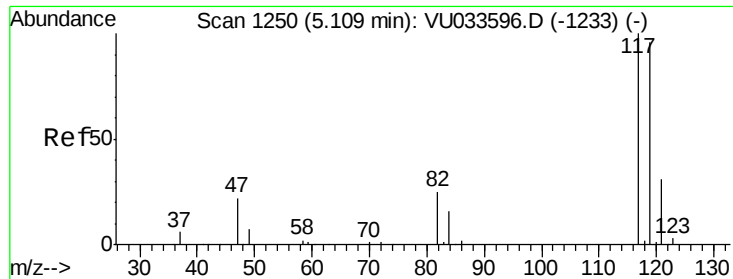
Tgt Ion: 56 Resp: 179264
Ion Ratio Lower Upper
56 100
69 31.0 24.7 37.1
84 86.8 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 53.355 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion: 97 Resp: 189598
Ion Ratio Lower Upper
97 100
99 63.6 51.8 77.6
61 44.1 36.2 54.2





#31

Carbon tetrachloride

Concen: 54.690 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

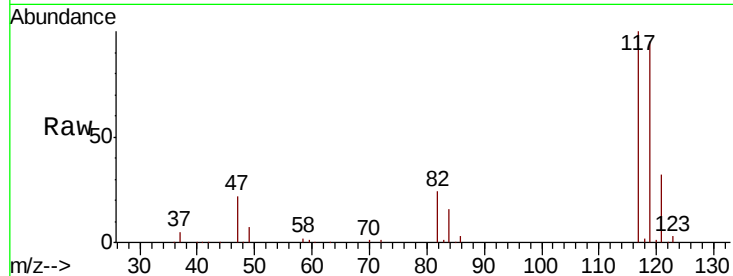
VSTD05051

Tgt Ion:117 Resp: 170591

Ion Ratio Lower Upper

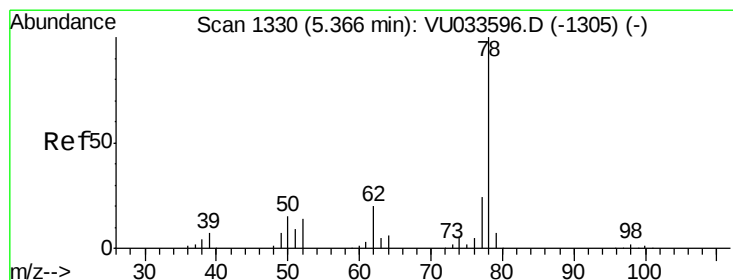
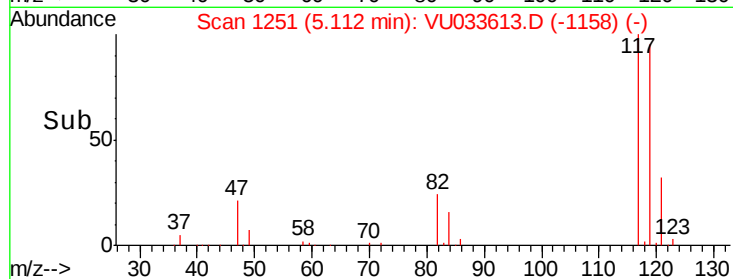
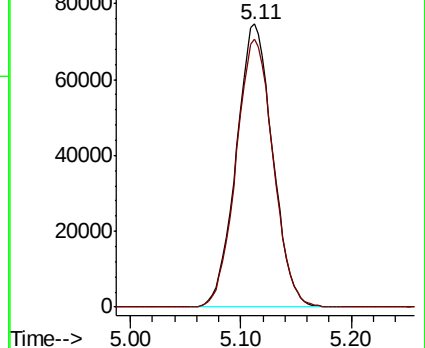
117 100

119 96.6 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.679 ug/L

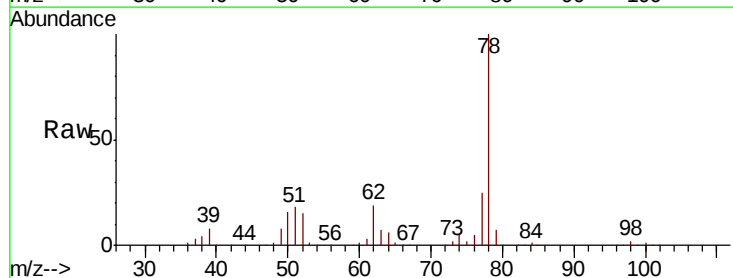
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

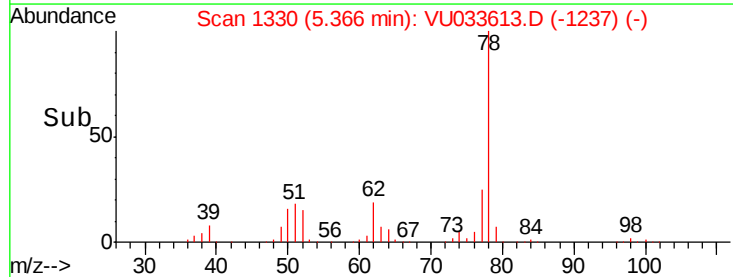
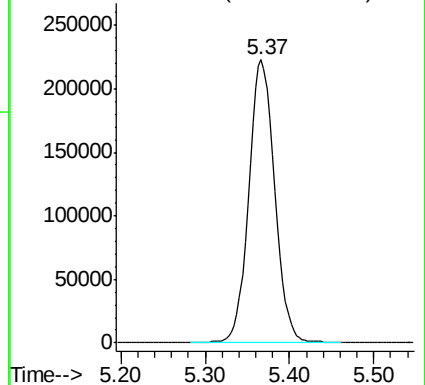
Lab File: VU033613.D

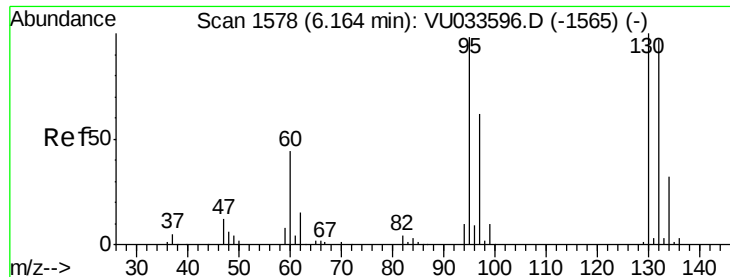
Acq: 07 Aug 2019 09:26

Tgt Ion: 78 Resp: 476376



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 53.357 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

Tgt Ion: 95 Resp: 124279

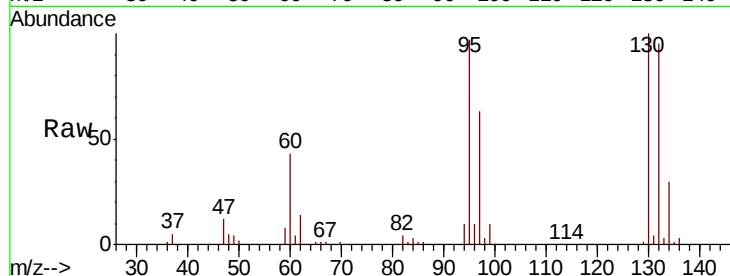
Ion Ratio Lower Upper

95 100

97 65.2 43.8 81.4

132 98.3 68.6 127.4

130 103.5 72.2 134.2

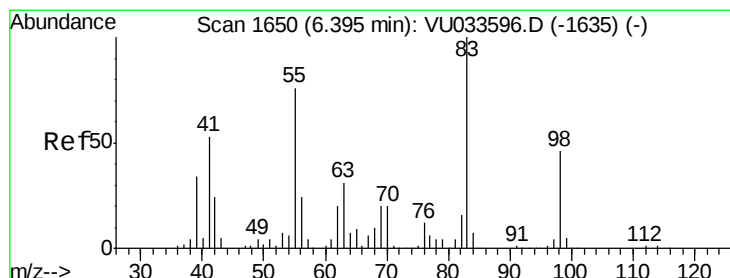
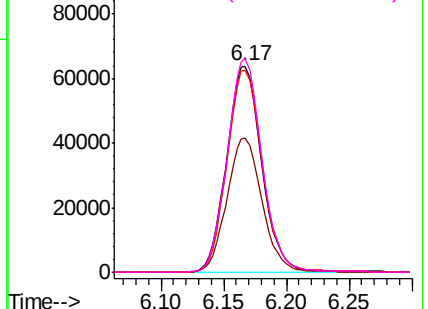
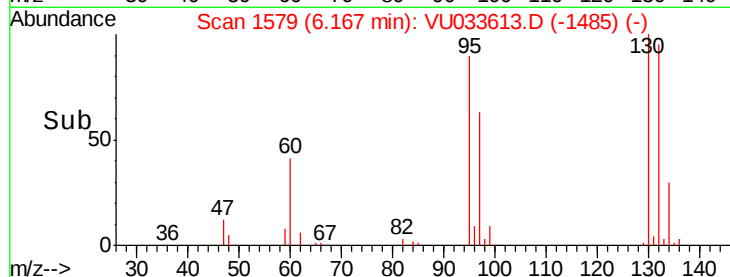


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 53.385 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

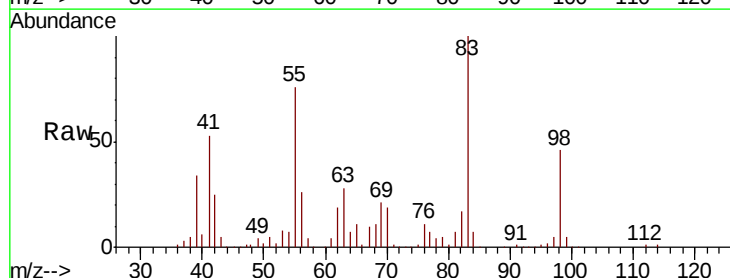
Tgt Ion: 83 Resp: 195745

Ion Ratio Lower Upper

83 100

55 77.0 60.1 90.1

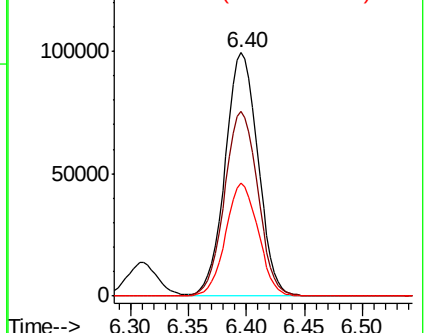
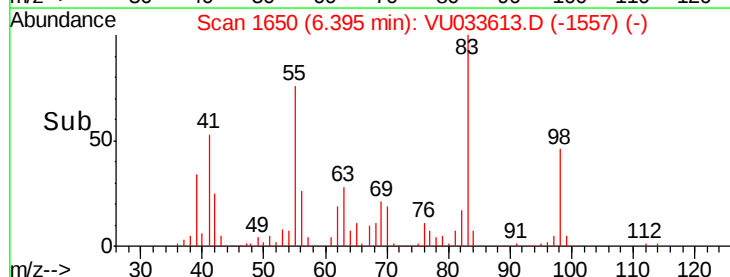
98 46.0 36.8 55.2

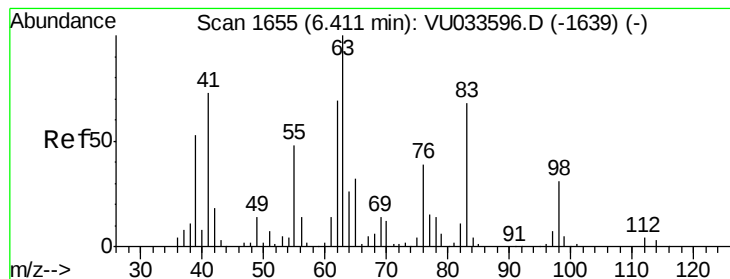


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.684 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

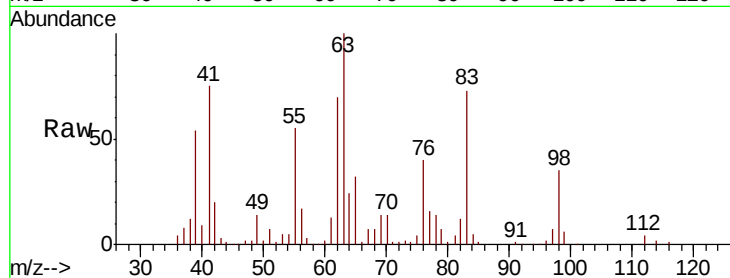
VSTD05051

Tgt Ion: 63 Resp: 130120

Ion Ratio Lower Upper

63 100

112 4.1 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU033596.D (-1639) (-)

Ion 112.00 (111.70 to 112.70): VU033596.D (-1639) (-)

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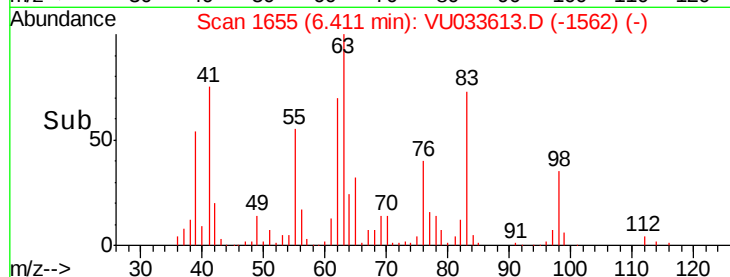
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Abundance Ion 63.00 (62.70 to 63.70): VU033613.D (-1562) (-)

Ion 112.00 (111.70 to 112.70): VU033613.D (-1562) (-)

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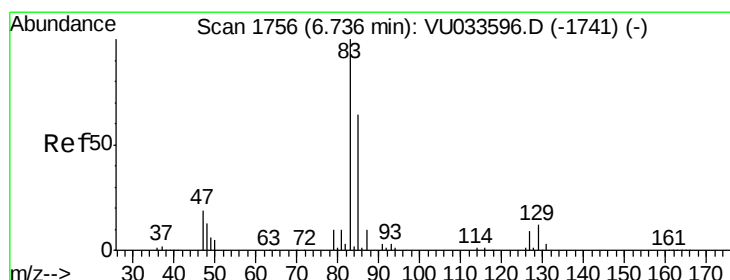
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#38

Bromodichloromethane

Concen: 53.933 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

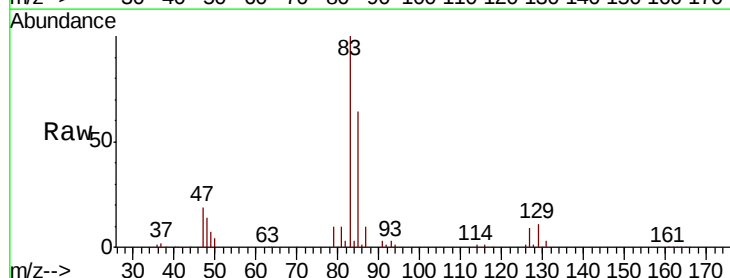
Tgt Ion: 83 Resp: 167898

Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5

127 9.0 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU033596.D (-1741) (-)

Ion 85.00 (84.70 to 85.70): VU033596.D (-1741) (-)

Ion 127.00 (126.70 to 127.70): VU033596.D (-1741) (-)

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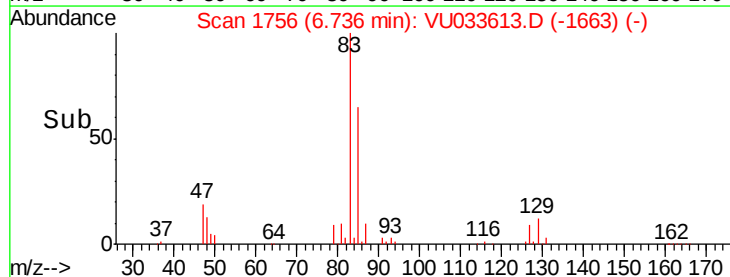
6.74

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6.74



Abundance Ion 83.00 (82.70 to 83.70): VU033613.D (-1663) (-)

Ion 85.00 (84.70 to 85.70): VU033613.D (-1663) (-)

Ion 127.00 (126.70 to 127.70): VU033613.D (-1663) (-)

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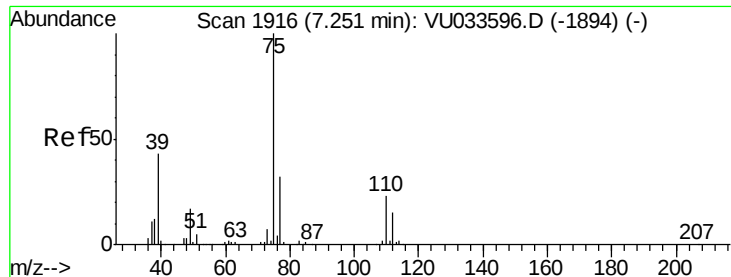
6.74

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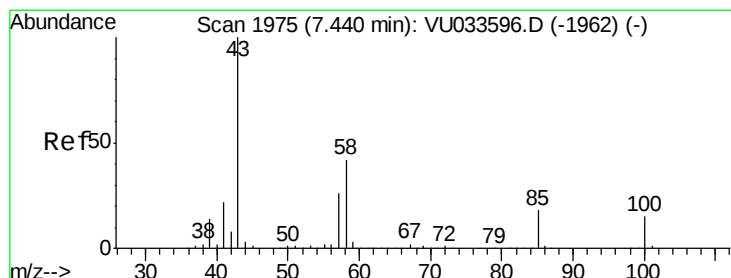
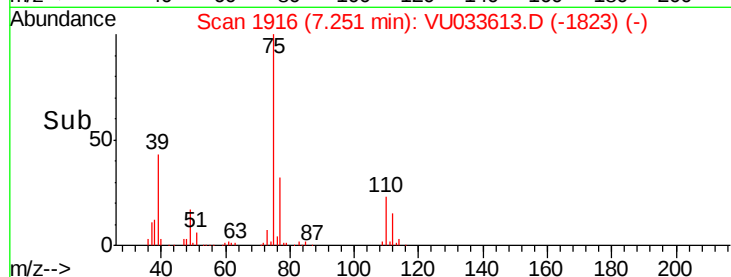
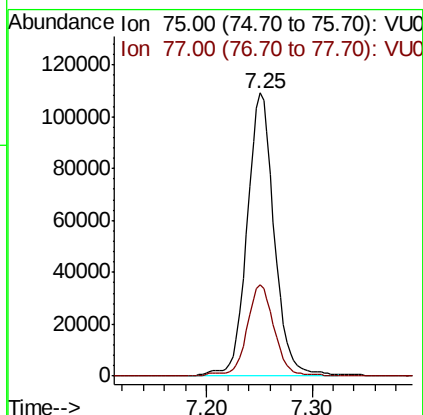
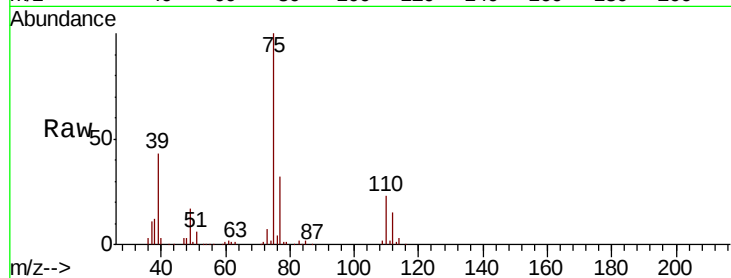
6.74



#39
 cis-1,3-Dichloropropene
 Concen: 52.277 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

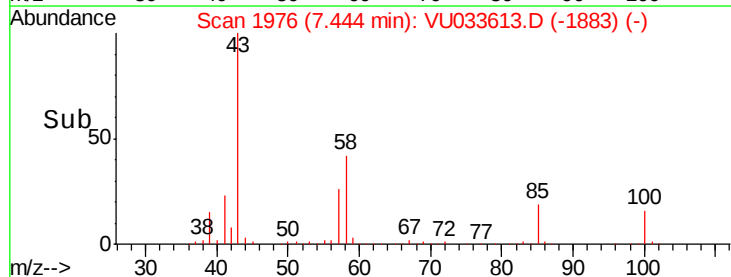
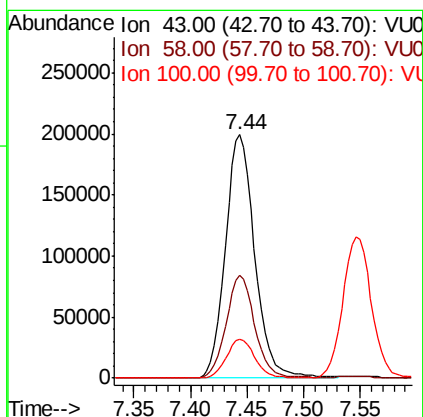
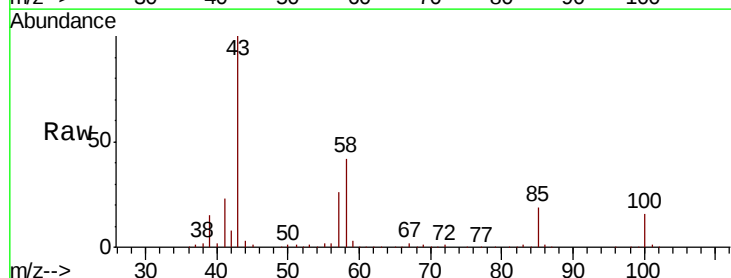
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

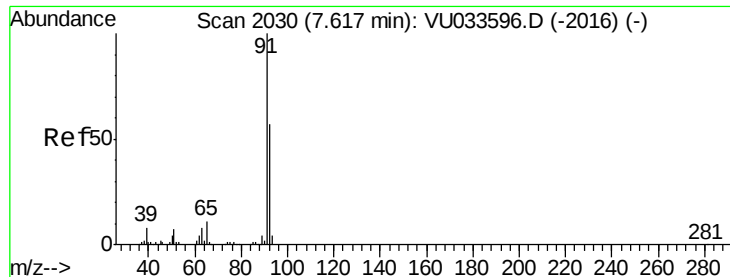
Tgt Ion: 75 Resp: 196345
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 101.943 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

Tgt Ion: 43 Resp: 360303
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.5 48.7
 100 15.7 12.6 18.8





#42

Toluene

Concen: 54.481 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

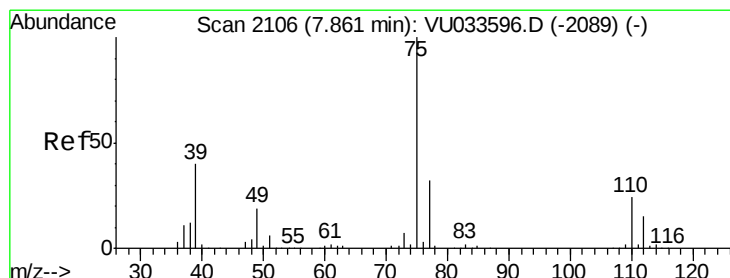
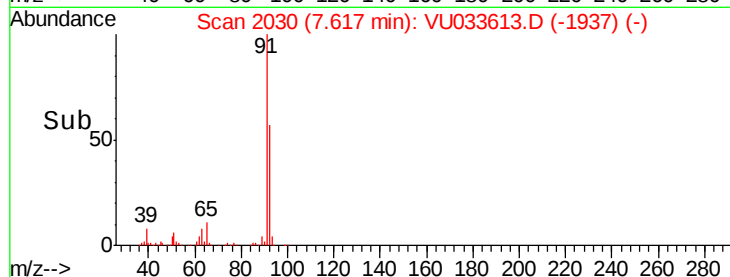
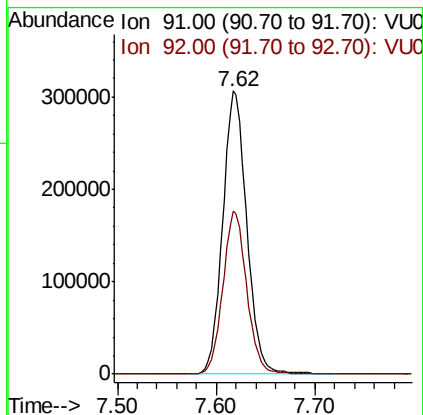
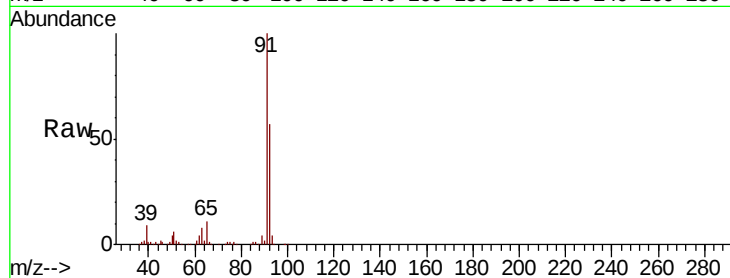
VSTD05051

Tgt Ion: 91 Resp: 526362

Ion Ratio Lower Upper

91 100

92 57.5 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 53.656 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033613.D

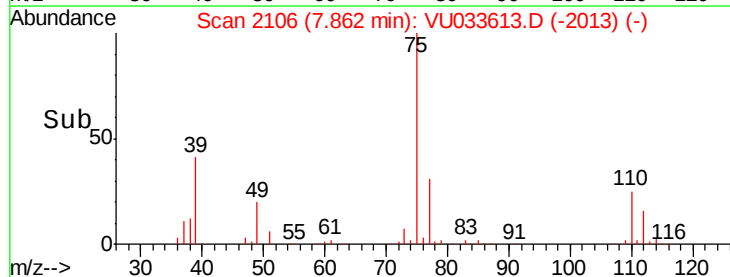
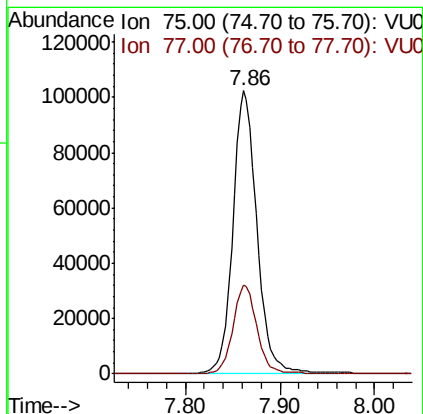
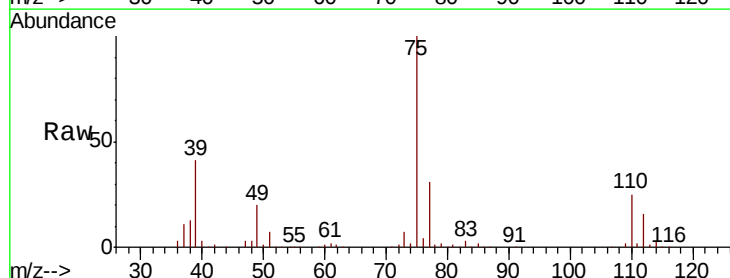
Acq: 07 Aug 2019 09:26

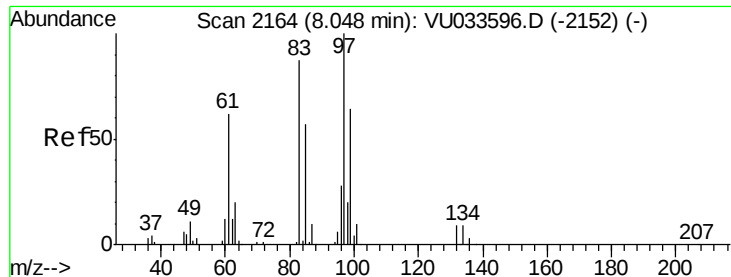
Tgt Ion: 75 Resp: 181336

Ion Ratio Lower Upper

75 100

77 31.4 21.6 40.2

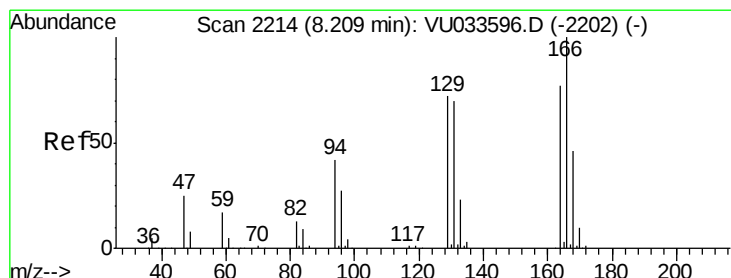
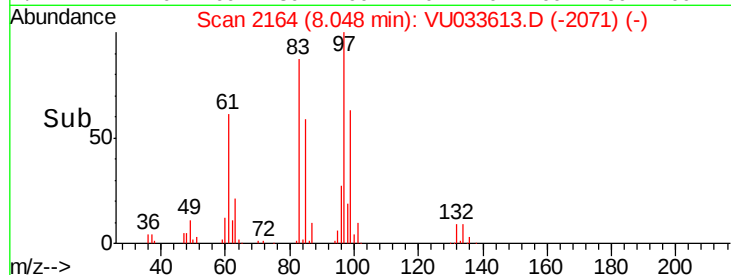
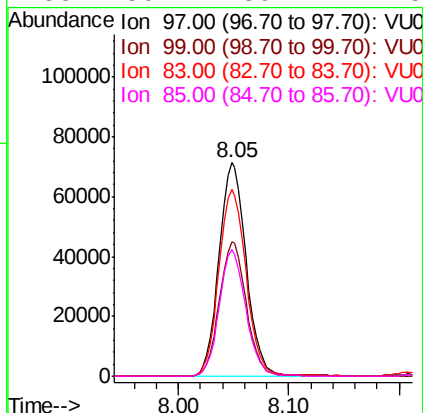
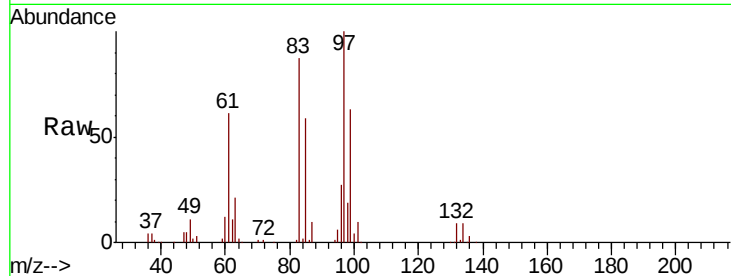




#45
 1,1,2-Trichloroethane
 Concen: 52.965 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

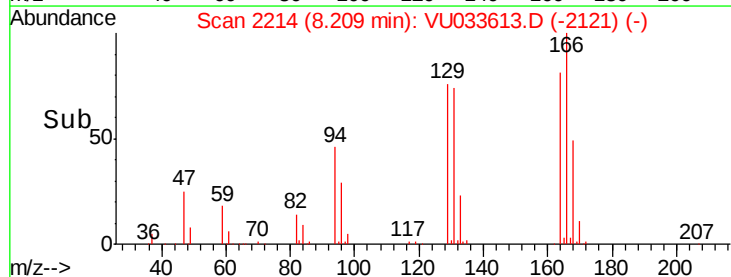
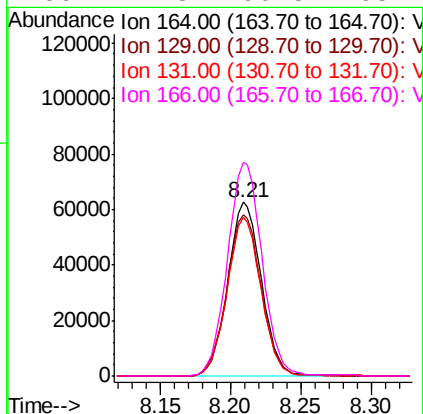
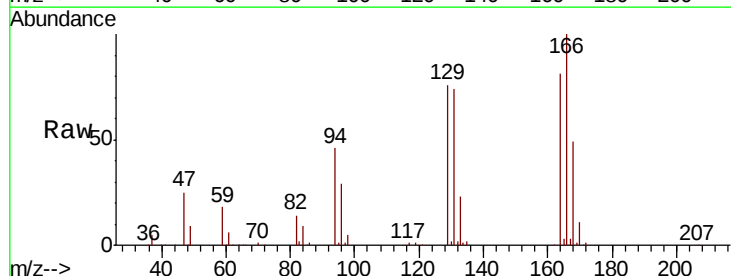
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05051

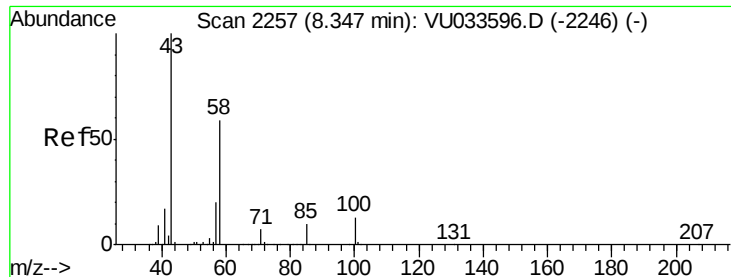
Tgt Ion:	97	Resp:	122396
Ion	Ratio	Lower	Upper
97	100		
99	63.0	42.8	79.6
83	87.2	61.3	113.9
85	59.4	39.1	72.5



#46
 Tetrachloroethene
 Concen: 54.592 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

Tgt Ion:	164	Resp:	104325
Ion	Ratio	Lower	Upper
164	100		
129	92.9	64.1	119.1
131	91.1	62.9	116.7
166	122.8	90.5	168.1

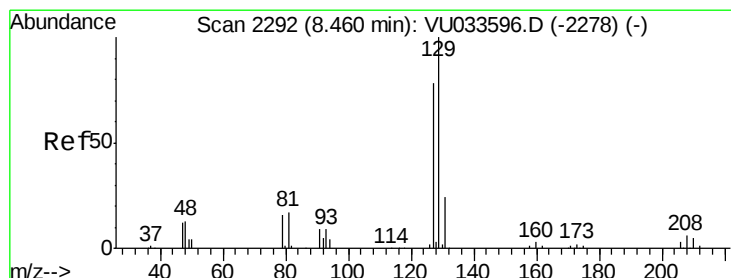
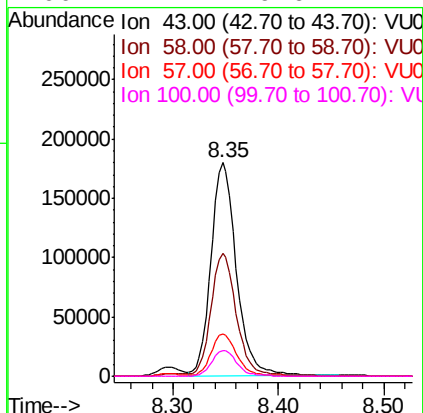
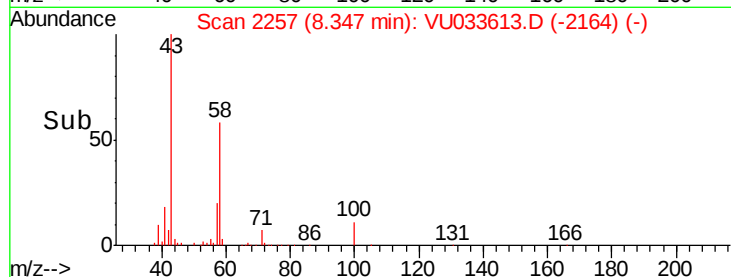
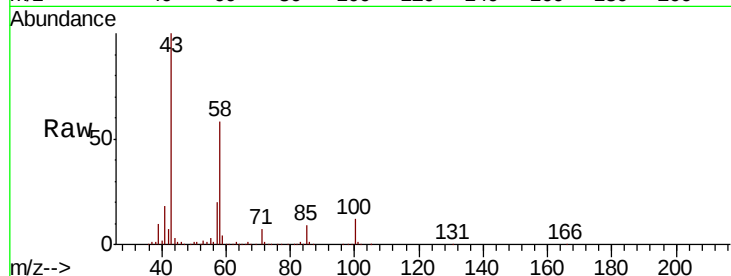




#48
2-Hexanone
Concen: 107.291 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

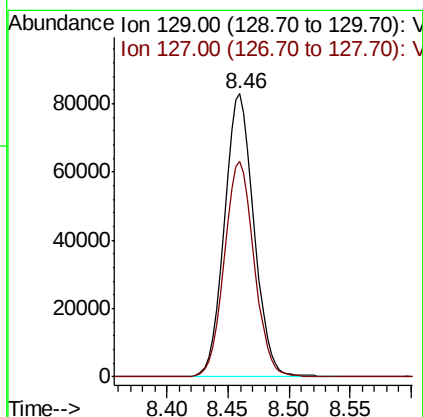
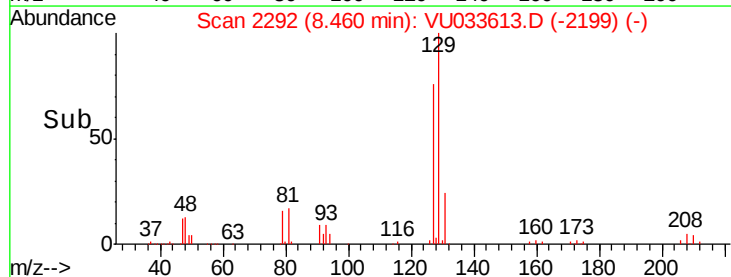
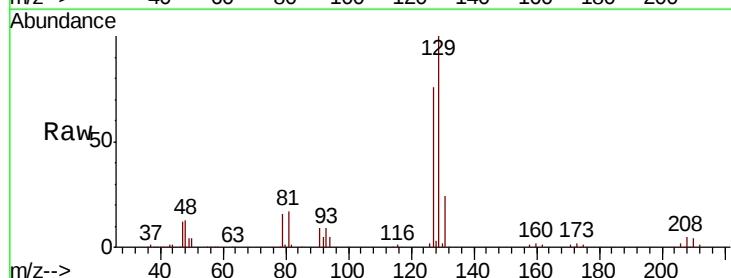
Instrument :
MSVOA_U
ClientSampled :
VSTD05051

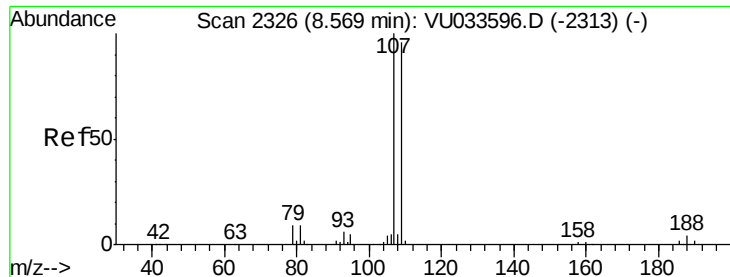
Tgt Ion: 43 Resp: 302826
Ion Ratio Lower Upper
43 100
58 57.5 45.2 67.8
57 20.3 15.4 23.2
100 12.2 9.6 14.4



#49
Dibromochloromethane
Concen: 54.270 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion: 129 Resp: 140947
Ion Ratio Lower Upper
129 100
127 76.3 53.4 99.2

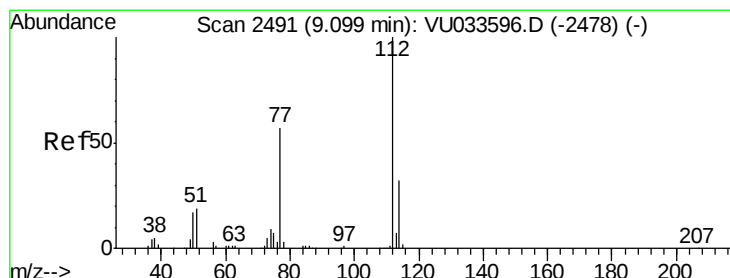
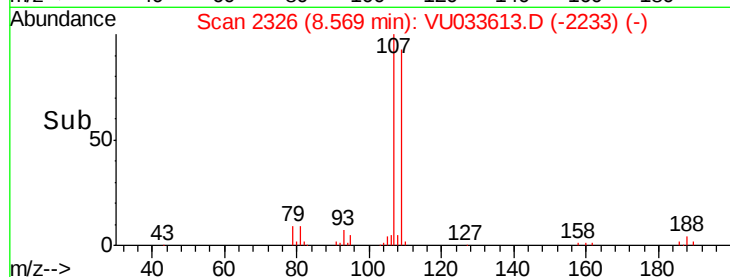
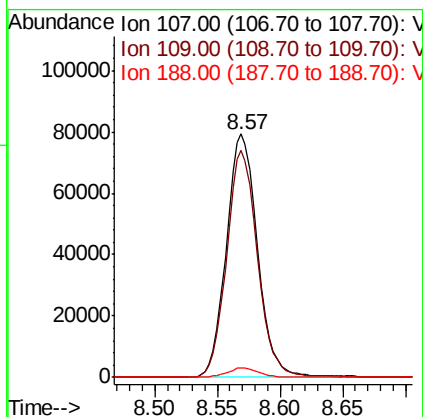
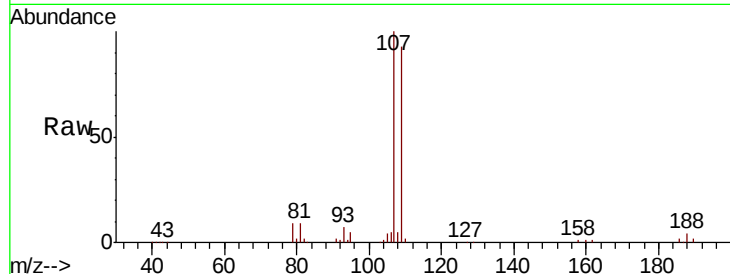




#50
1,2-Dibromoethane
Concen: 53.951 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

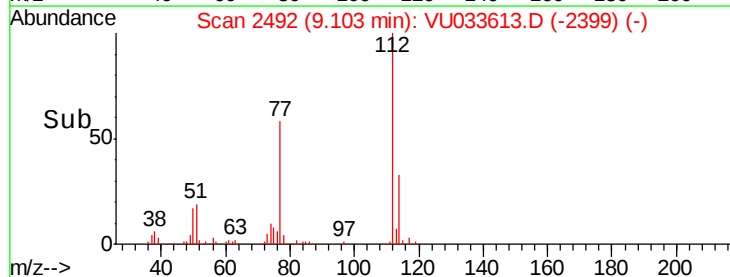
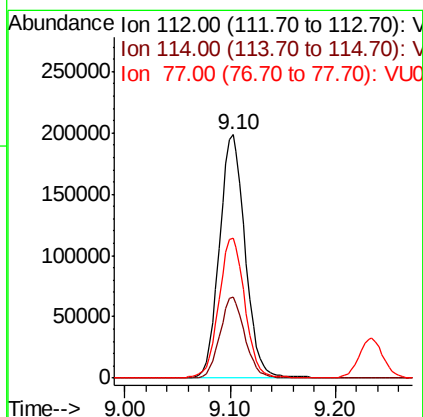
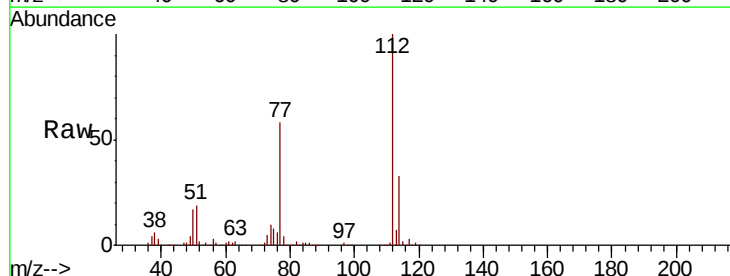
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

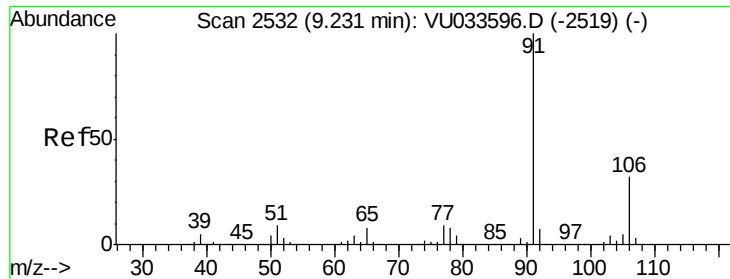
Tgt Ion:107 Resp: 136552
Ion Ratio Lower Upper
107 100
109 93.0 66.5 123.5
188 4.0 3.0 4.6



#51
Chlorobenzene
Concen: 53.131 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion:112 Resp: 335182
Ion Ratio Lower Upper
112 100
114 33.3 22.5 41.9
77 57.7 46.1 69.1





#52

Ethylbenzene

Concen: 53.706 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

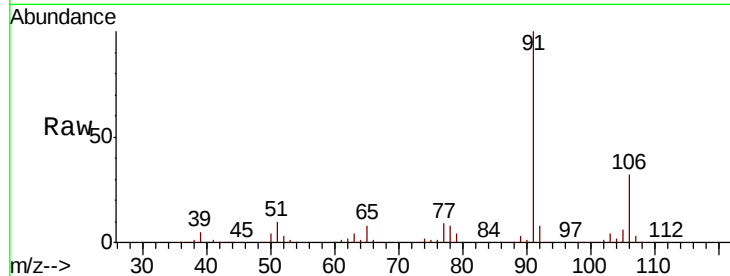
VSTD05051

Tgt Ion: 91 Resp: 562565

Ion Ratio Lower Upper

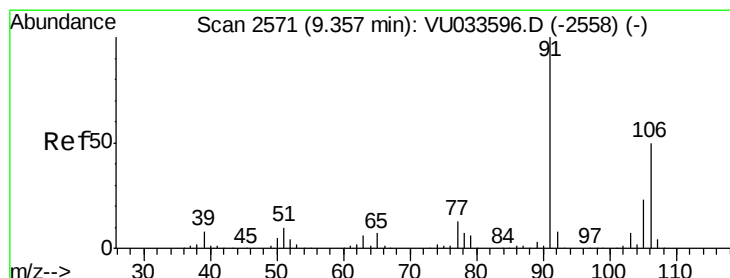
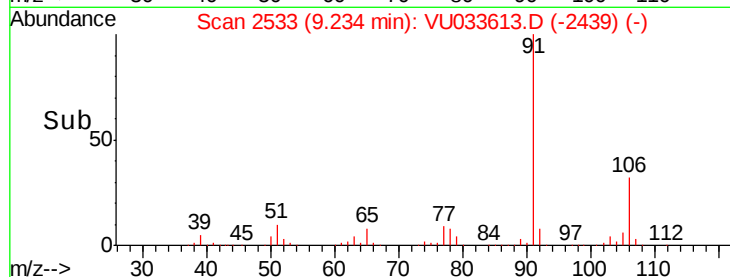
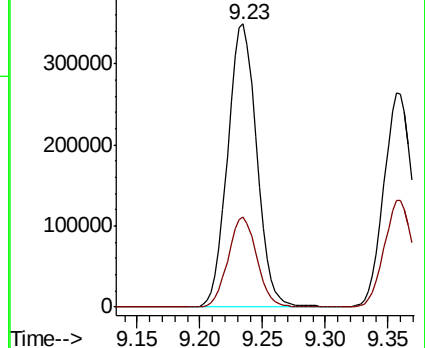
91 100

106 31.8 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VU033596.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033596.D (-2519) (-)



#53

m,p-Xylene

Concen: 54.324 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033613.D

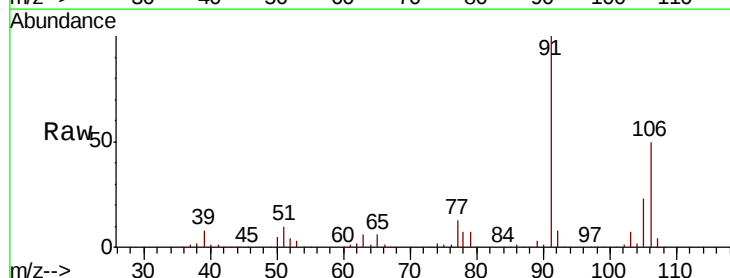
Acq: 07 Aug 2019 09:26

Tgt Ion: 106 Resp: 216702

Ion Ratio Lower Upper

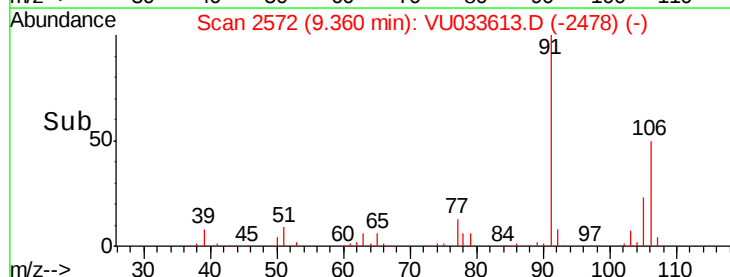
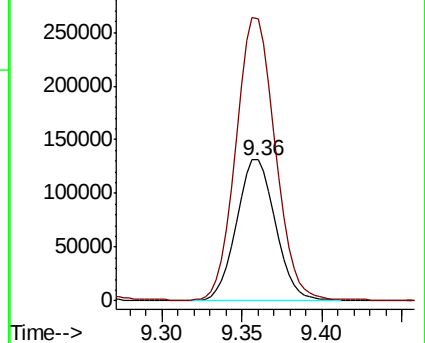
106 100

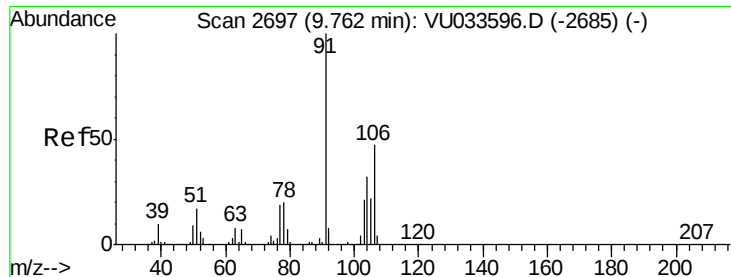
91 199.7 141.3 262.5



Abundance Ion 106.00 (105.70 to 106.70): VU033596.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033596.D (-2558) (-)





#54

o-xylene

Concen: 55.389 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

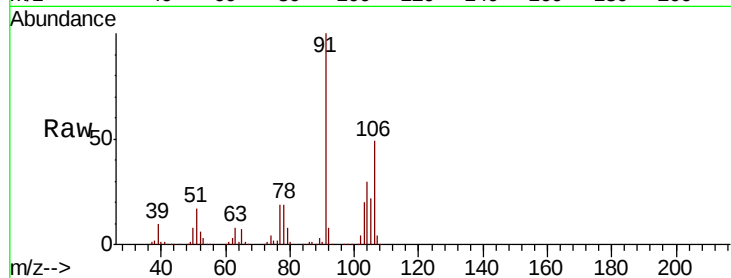
VSTD05051

Tgt Ion:106 Resp: 216428

Ion Ratio Lower Upper

106 100

91 206.0 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

300000

200000

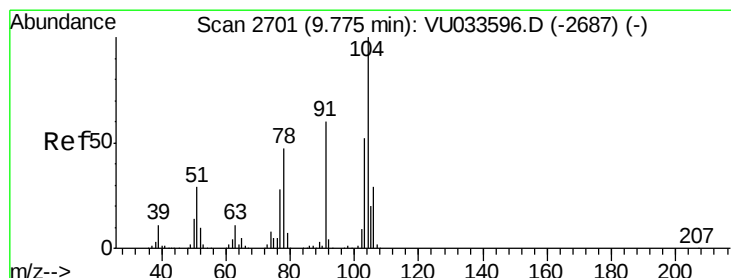
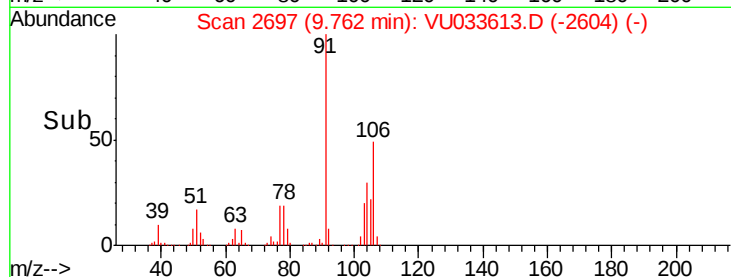
100000

0

9.76

9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 55.881 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033613.D

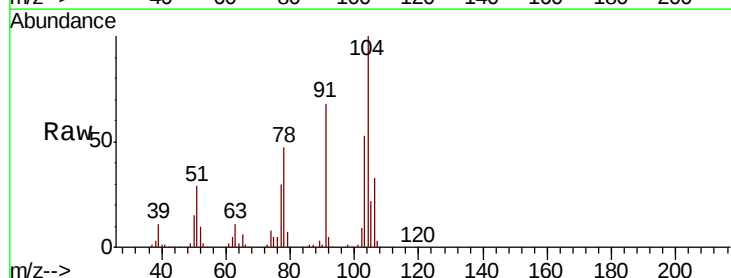
Acq: 07 Aug 2019 09:26

Tgt Ion:104 Resp: 370763

Ion Ratio Lower Upper

104 100

78 46.8 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

250000

200000

150000

100000

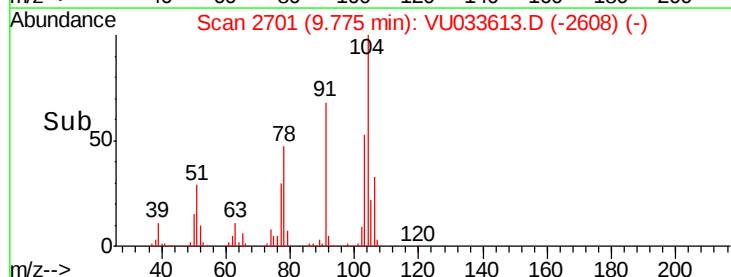
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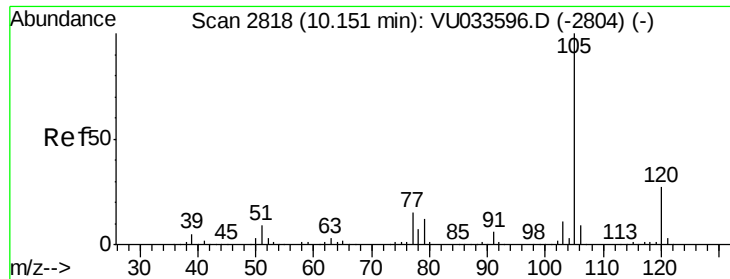
0

9.77

9.70 9.80 9.90

Time-->





#56

Isopropylbenzene

Concen: 54.593 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

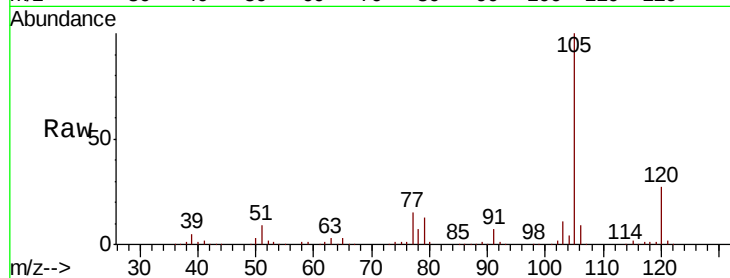
Tgt Ion: 105 Resp: 550310

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

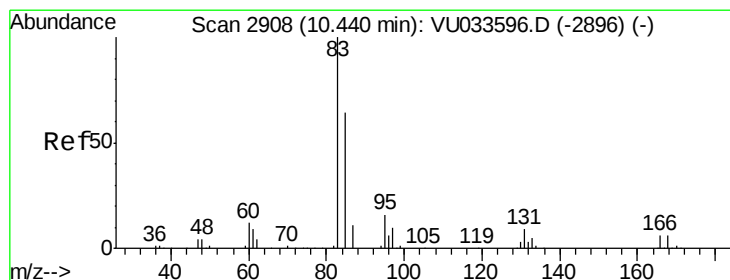
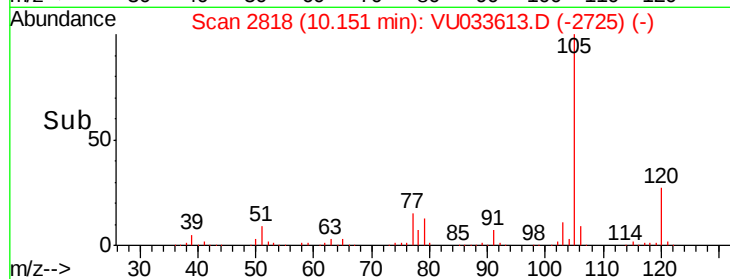
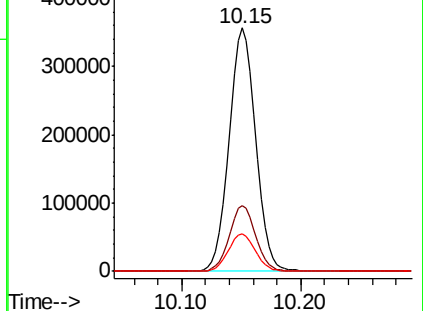
77 15.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.846 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

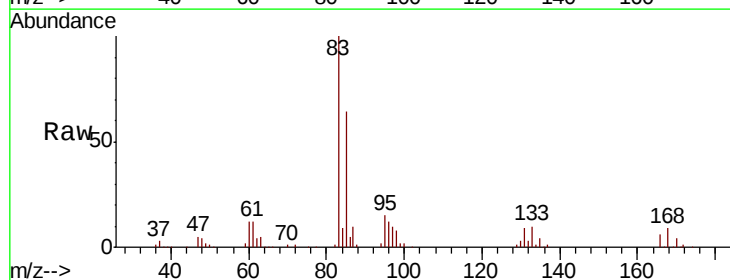
Tgt Ion: 83 Resp: 214237

Ion Ratio Lower Upper

83 100

85 64.5 44.3 82.3

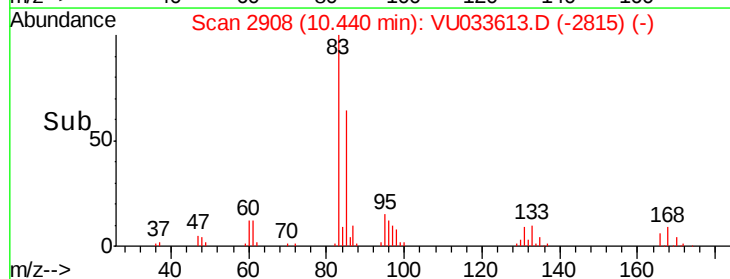
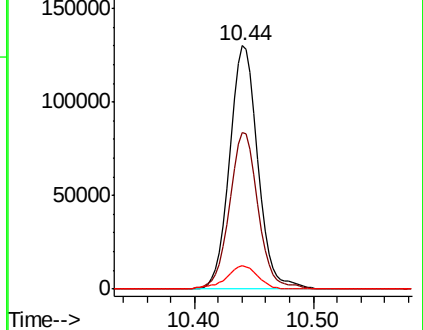
131 9.5 7.8 11.6

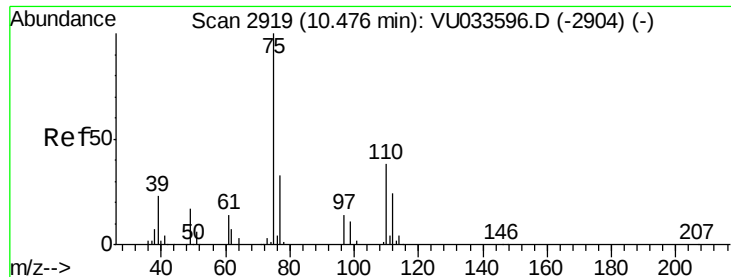


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

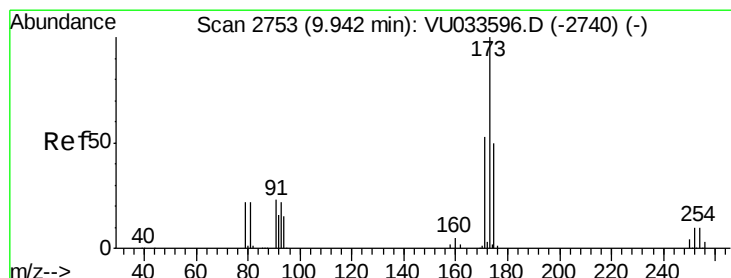
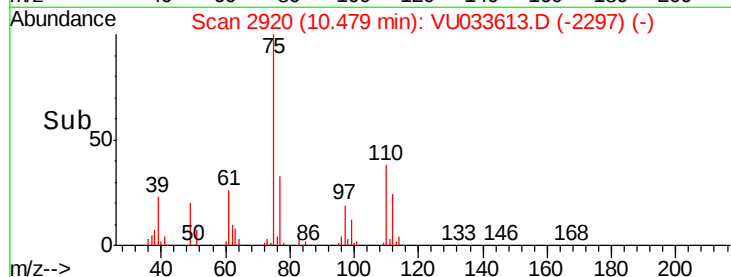
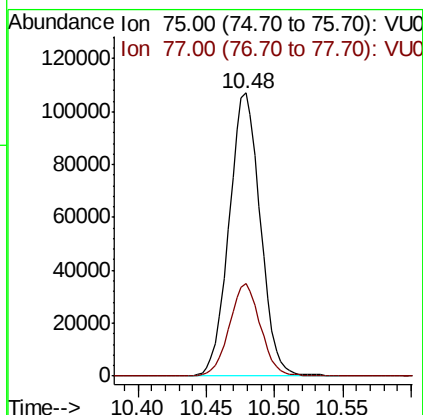
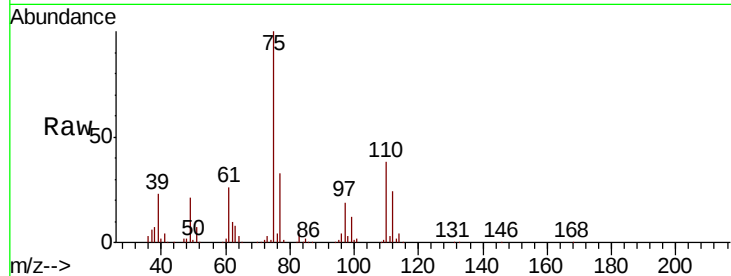




#59
 1,2,3-Trichloropropane
 Concen: 52.669 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

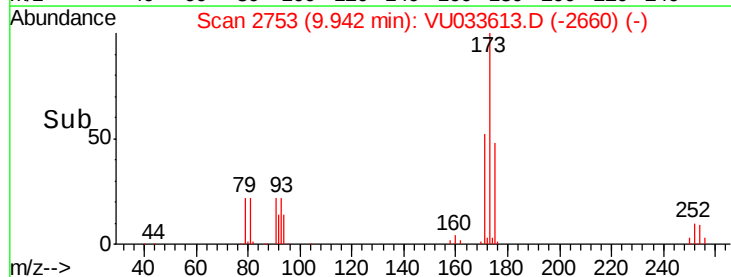
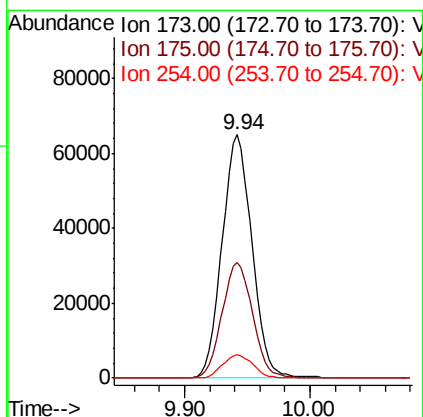
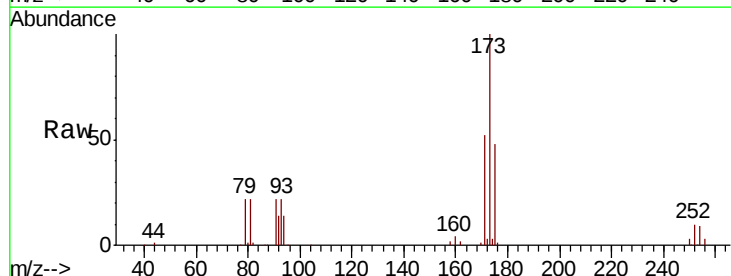
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

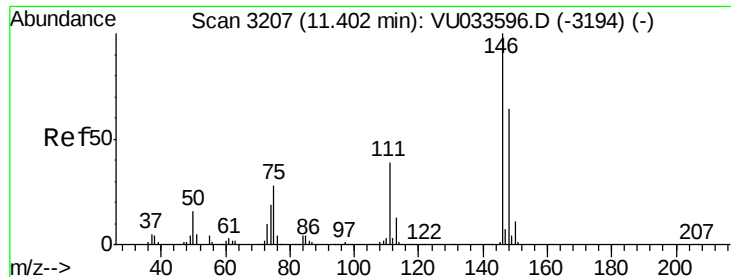
Tgt Ion: 75 Resp: 170373
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.7 38.5



#61
 Bromoform
 Concen: 52.711 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033613.D
 Acq: 07 Aug 2019 09:26

Tgt Ion: 173 Resp: 107486
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.4 59.0
 254 9.7 7.2 10.8





#62

1,3-Dichlorobenzene

Concen: 53.797 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

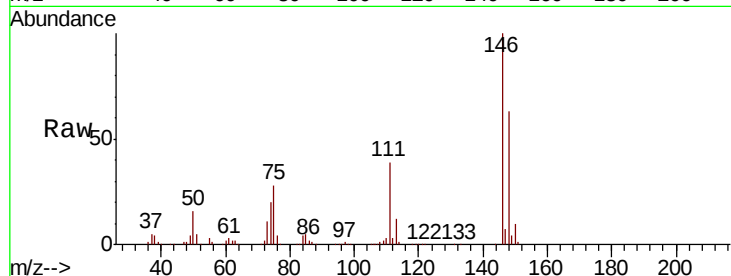
Tgt Ion:146 Resp: 276440

Ion Ratio Lower Upper

146 100

111 38.9 27.5 51.1

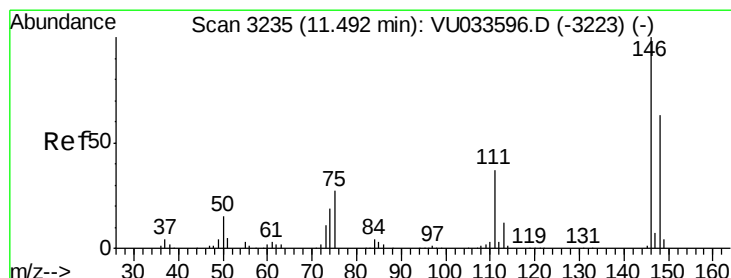
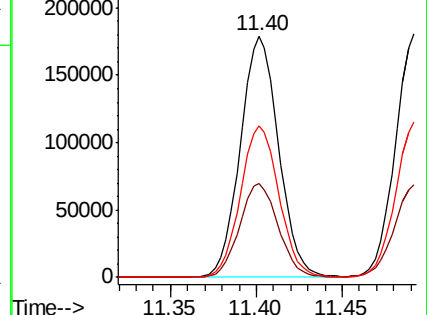
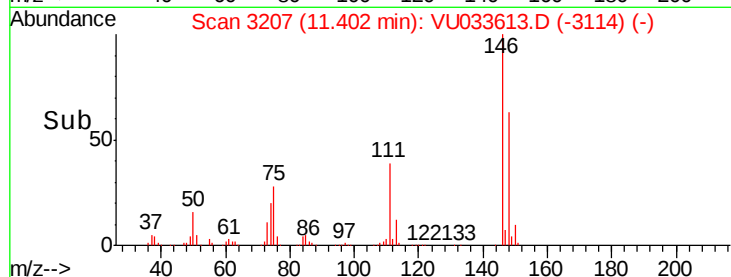
148 62.7 44.5 82.7



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: 53.132 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

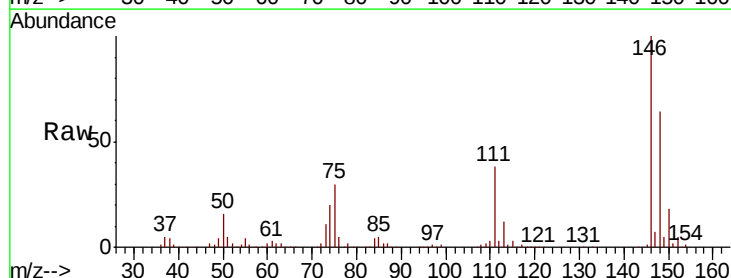
Tgt Ion:146 Resp: 278919

Ion Ratio Lower Upper

146 100

111 38.0 26.9 49.9

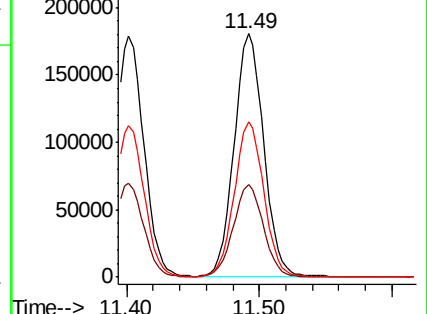
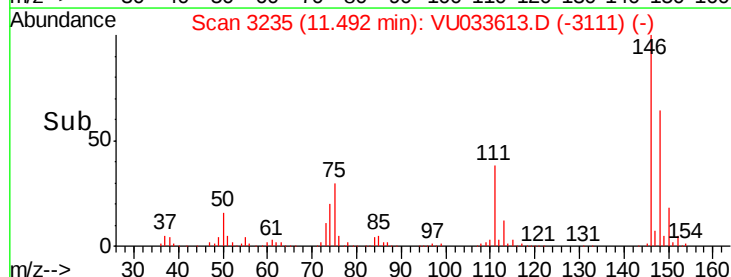
148 63.7 44.9 83.3

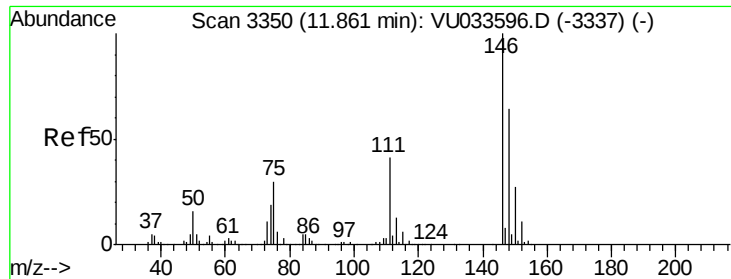


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 54.435 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

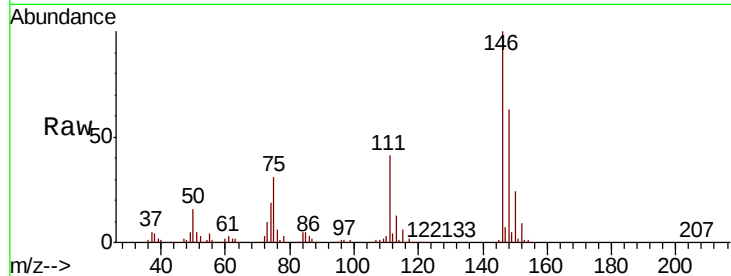
Tgt Ion:146 Resp: 278983

Ion Ratio Lower Upper

146 100

111 41.1 33.0 49.6

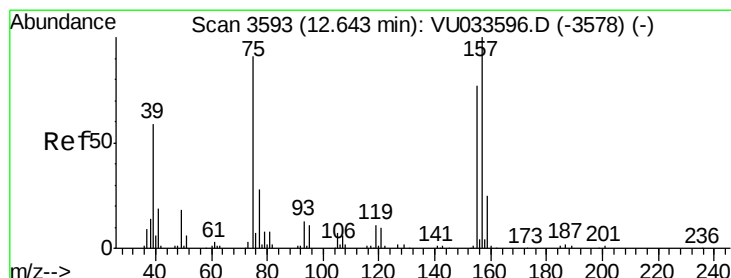
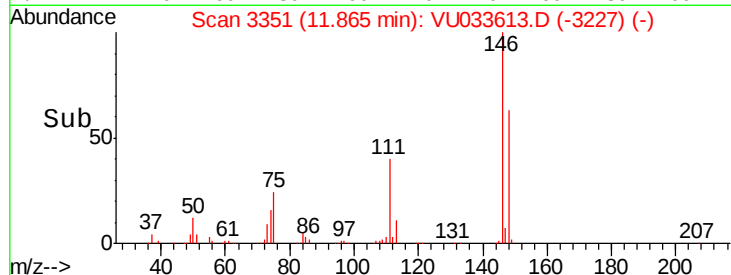
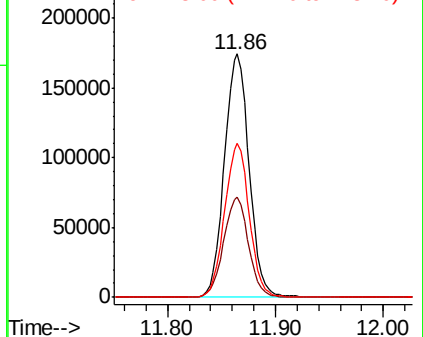
148 63.5 50.6 75.8



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: 51.943 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

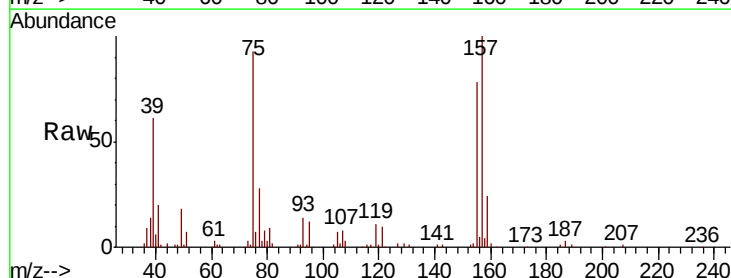
Tgt Ion: 75 Resp: 50169

Ion Ratio Lower Upper

75 100

155 84.0 69.0 103.6

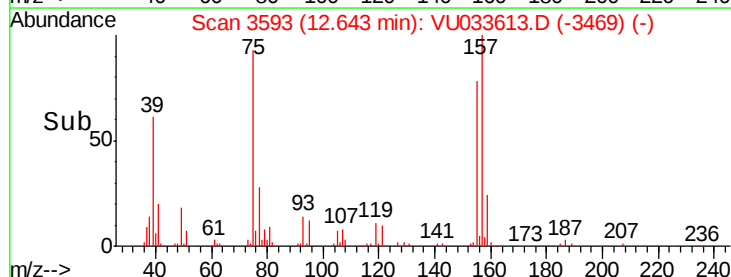
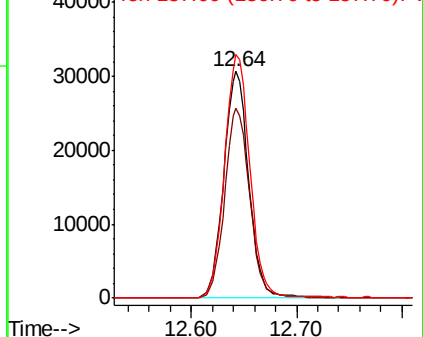
157 107.4 87.8 131.8

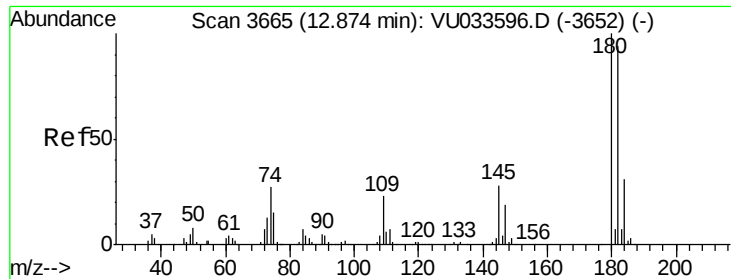


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 53.360 ug/L

RT: 12.87 min Scan# 3665

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

Tgt Ion:180 Resp: 211108

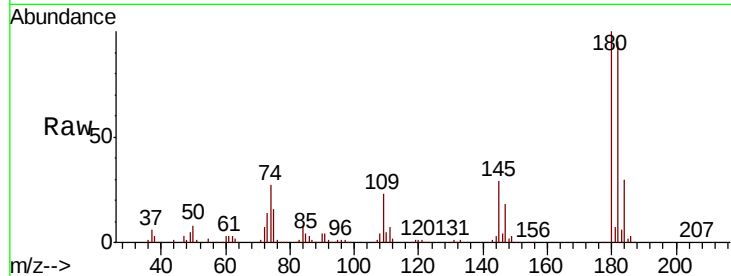
Ion Ratio Lower Upper

180 100

182 96.9 76.2 114.2

184 29.9 24.2 36.4

145 29.0 23.0 34.4

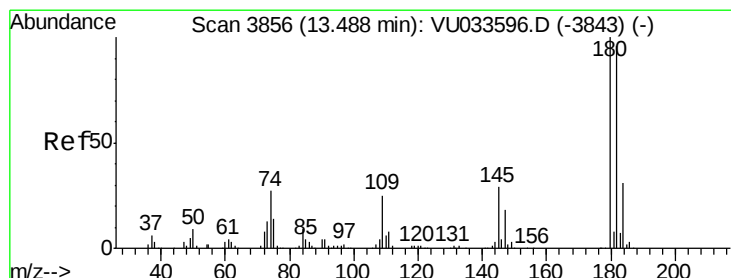
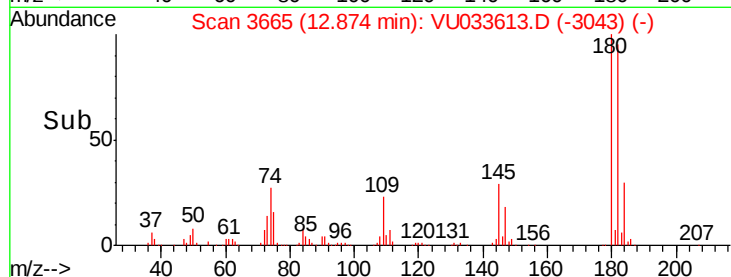
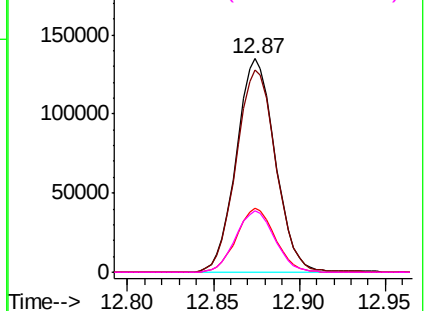


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 52.227 ug/L

RT: 13.49 min Scan# 3857

Delta R.T. 0.00 min

Lab File: VU033613.D

Acq: 07 Aug 2019 09:26

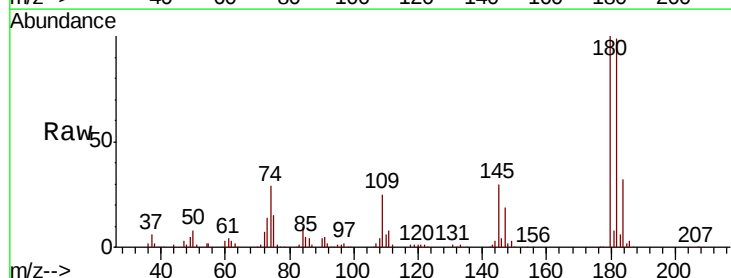
Tgt Ion:180 Resp: 176260

Ion Ratio Lower Upper

180 100

182 96.5 76.7 115.1

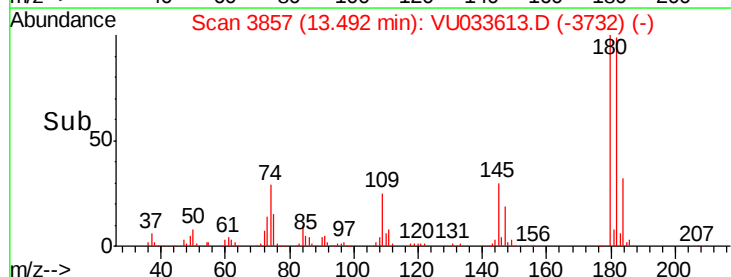
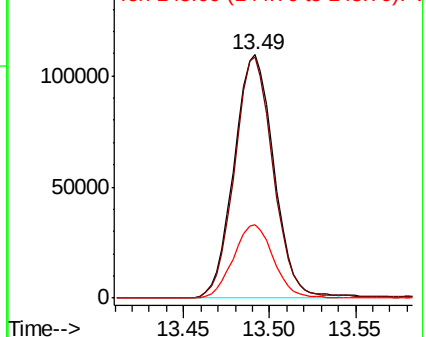
145 30.3 23.5 35.3

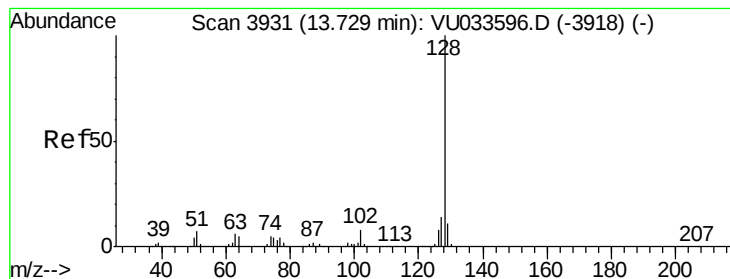


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

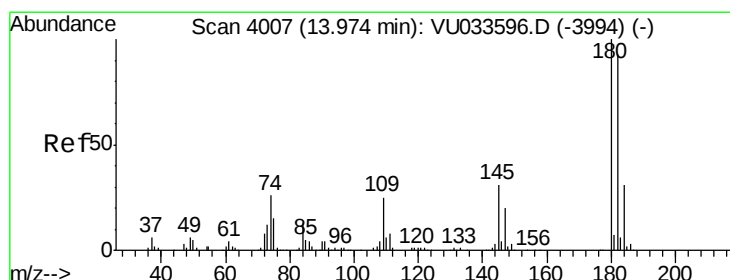
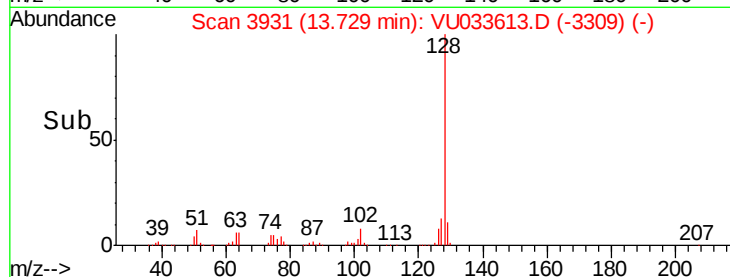
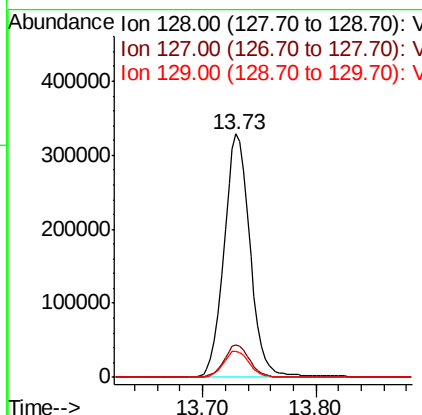
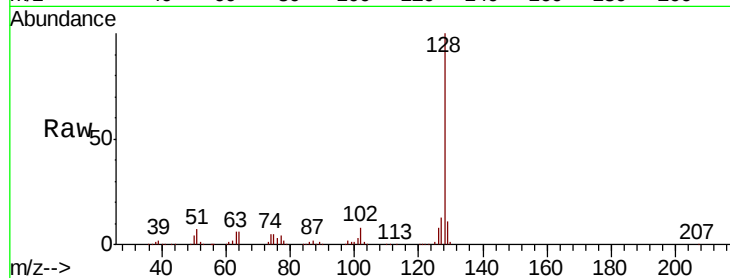




#69
Naphthalene
Concen: 53.614 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tgt Ion:128 Resp: 525847
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.6 8.6 12.8



#70
1,2,3-Trichlorobenzene
Concen: 51.984 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033613.D
Acq: 07 Aug 2019 09:26

Tgt Ion:180 Resp: 186623
Ion Ratio Lower Upper
180 100
182 95.6 77.4 116.2
145 31.3 24.5 36.7

