

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033585.D
 Acq On : 03 Aug 2019 12:04
 Operator : JC/SP
 Sample : VSTD20033
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

Quant Time: Aug 05 05:30:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 05:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	348100	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	337214	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	188266	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	488072	195.10	ug/L	0.00
7) Chloroethane-d5	1.67	69	590556	271.83	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	903201	196.71	ug/L	0.00
21) 2-Butanone-d5	4.16	46	798005	464.93	ug/L	0.00
24) Chloroform-d	4.62	84	899536	209.39	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	557626	206.06	ug/L	0.00
32) Benzene-d6	5.32	84	1804834	214.31	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	577601	219.08	ug/L	0.00
41) Toluene-d8	7.55	98	1733269	219.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	295098	225.15	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	644745	511.99	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	886337	216.57	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	717013	206.46	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	609946	189.091	ug/L	100
3) Chloromethane	1.32	50	614717	188.517	ug/L	99
5) Vinyl chloride	1.39	62	681823	194.755	ug/L	99
6) Bromomethane	1.62	94	446899	143.803	ug/L	99
8) Chloroethane	1.69	64	658113	309.266	ug/L	100
9) Trichlorofluoromethane	1.87	101	919893	200.368	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	454833	194.717	ug/L	99
12) 1,1-Dichloroethene	2.27	96	439460	197.487	ug/L	99
13) Acetone	2.32	43	629040	366.419	ug/L	100
14) Carbon disulfide	2.46	76	1268830	183.189	ug/L	99
15) Methyl Acetate	2.60	43	579055	210.593	ug/L	100
16) Methylene chloride	2.68	84	503199	196.648	ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	467143	200.085	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1546478	215.801	ug/L	99
19) 1,1-Dichloroethane	3.42	63	895460	202.983	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	543230	205.788	ug/L	97
22) 2-Butanone	4.24	43	910222	442.993	ug/L	100
23) Bromochloromethane	4.52	128	267692	195.967	ug/L	98
25) Chloroform	4.65	83	915849	197.682	ug/L	99
27) 1,2-Dichloroethane	5.38	62	720341	201.321	ug/L	99
29) Cyclohexane	4.97	56	790373	217.567	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	785930	204.041	ug/L	99
31) Carbon tetrachloride	5.11	117	704233	209.417	ug/L	100
33) Benzene	5.37	78	1994550	206.731	ug/L	100
34) Trichloroethene	6.16	95	516506	203.200	ug/L	97
35) Methylcyclohexane	6.40	83	854508	215.878	ug/L	98
37) 1,2-Dichloropropane	6.41	63	542187	208.078	ug/L	100
38) Bromodichloromethane	6.74	83	706601	210.639	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	894243	221.298	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1675763	463.299	ug/L	99

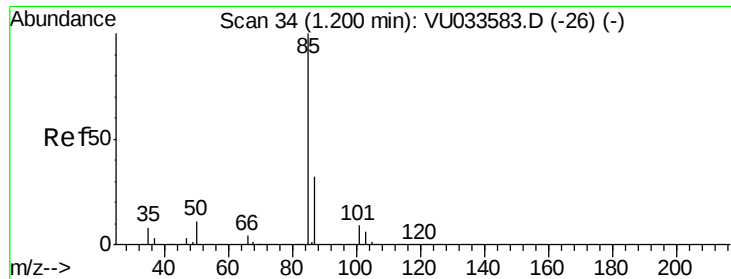
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2205555	213.002	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	807777	222.038	ug/L	96
45) 1,1,2-Trichloroethane	8.05	97	510985	207.531	ug/L	100
46) Tetrachloroethene	8.21	164	423922	205.154	ug/L	99
48) 2-Hexanone	8.35	43	1355694	465.475	ug/L	99
49) Dibromochloromethane	8.46	129	599987	214.582	ug/L	98
50) 1,2-Dibromoethane	8.57	107	568639	209.750	ug/L	100
51) Chlorobenzene	9.10	112	1390727	205.279	ug/L	100
52) Ethylbenzene	9.23	91	2433093	218.214	ug/L	99
53) m,p-Xylene	9.36	106	920429	214.462	ug/L	99
54) o-xylene	9.76	106	919723	222.160	ug/L	98
55) Styrene	9.77	104	1606065	228.238	ug/L	98
56) Isopropylbenzene	10.15	105	2417276	222.965	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	941879	211.694	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	720633	209.549	ug/L	98
61) Bromoform	9.94	173	481461	213.323	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	1163230	203.059	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	1180868	198.101	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	1171100	202.141	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	232581	214.076	ug/L	96
67) 1,3,5-Trichlorobenzene	12.87	180	935409	203.338	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	863767	220.213	ug/L	100
69) Naphthalene	13.73	128	2609146	231.367	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	865402	209.871	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 189.091 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

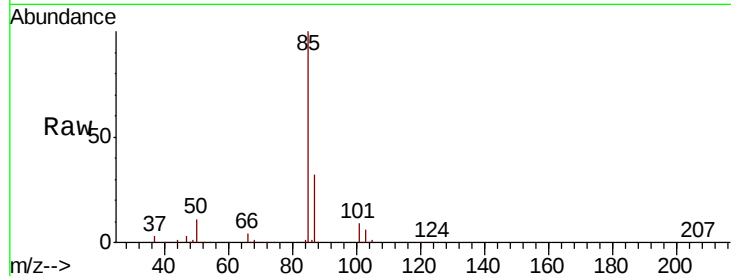
VSTD20033

Tgt Ion: 85 Resp: 609946

Ion Ratio Lower Upper

85 100

87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU033583.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033583.D (-26) (-)

1.20

600000

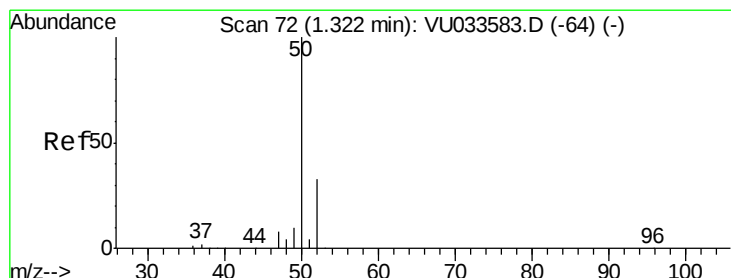
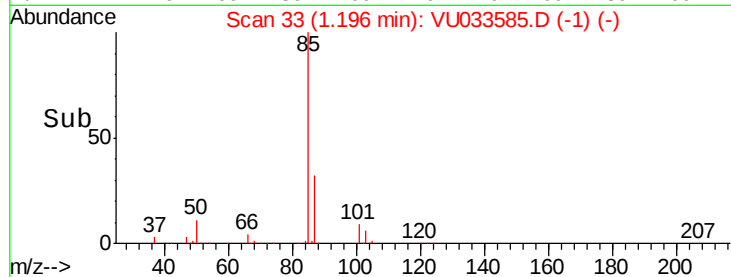
400000

200000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 188.517 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033585.D

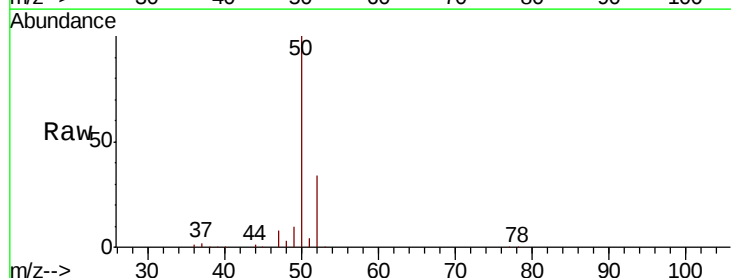
Acq: 03 Aug 2019 12:04

Tgt Ion: 50 Resp: 614717

Ion Ratio Lower Upper

50 100

52 33.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033583.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033583.D (-64) (-)

1.32

600000

500000

400000

300000

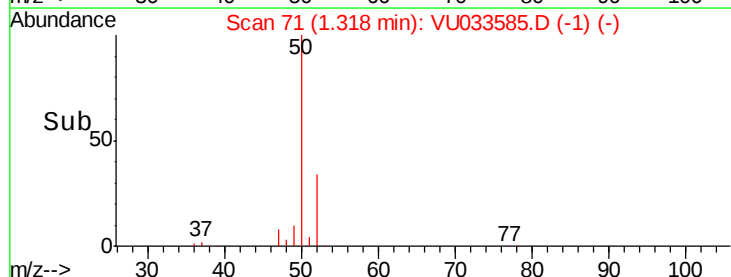
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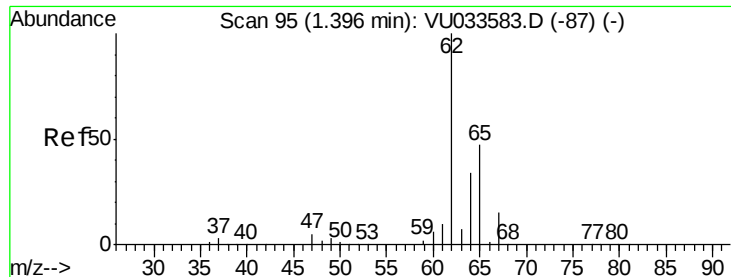
100000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 194.755 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

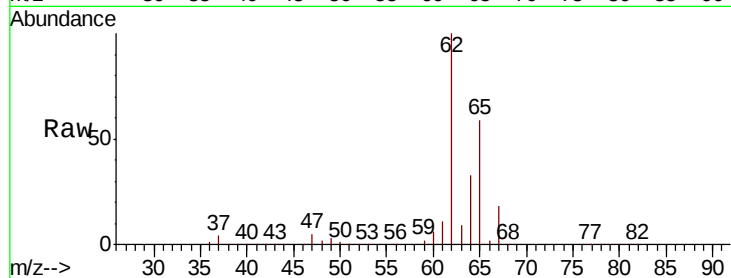
VSTD20033

Tgt Ion: 62 Resp: 681823

Ion Ratio Lower Upper

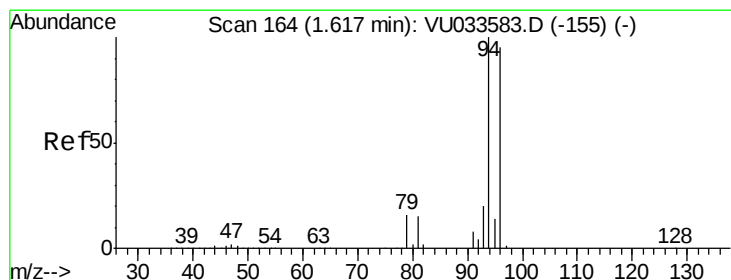
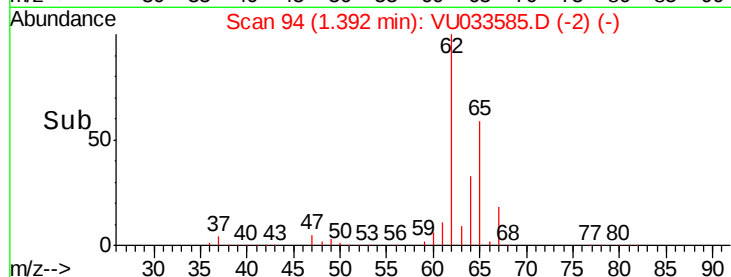
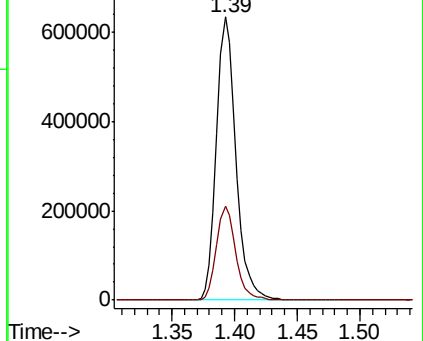
62 100

64 33.0 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 143.803 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033585.D

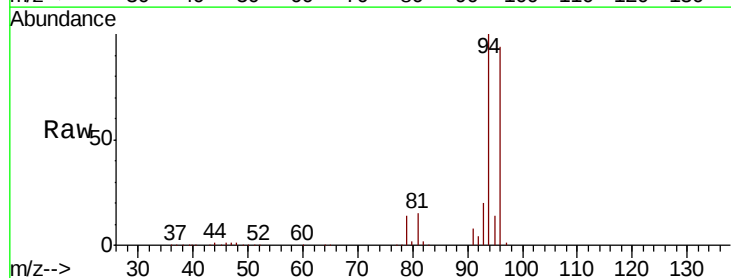
Acq: 03 Aug 2019 12:04

Tgt Ion: 94 Resp: 446899

Ion Ratio Lower Upper

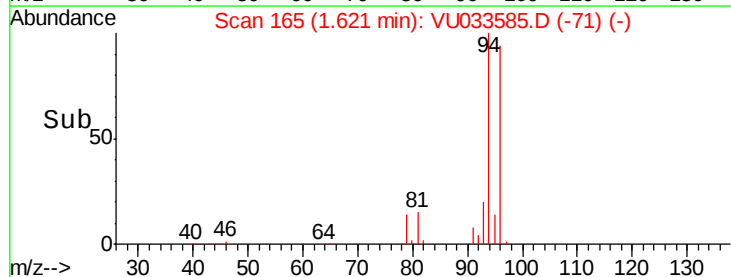
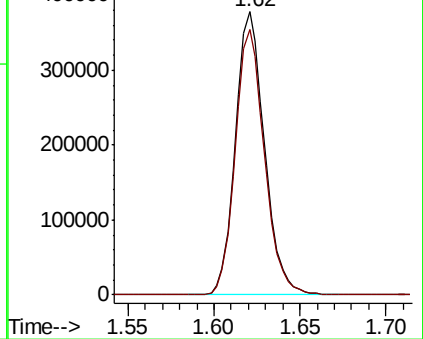
94 100

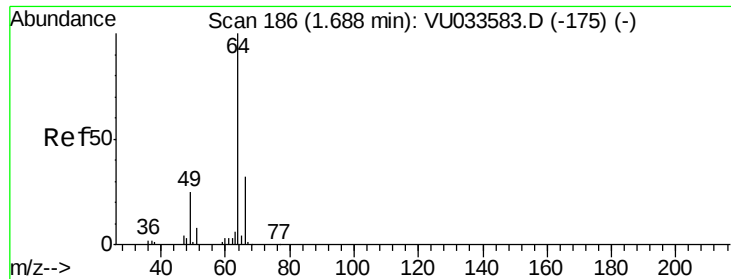
96 93.8 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 309.266 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

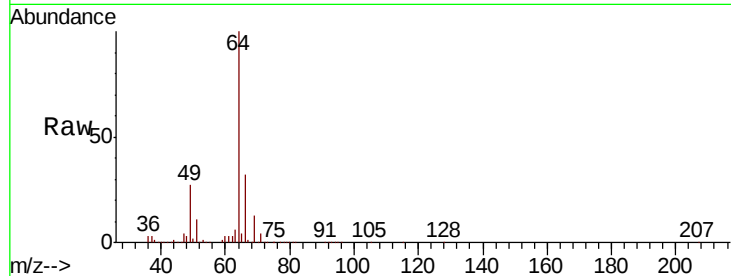
VSTD20033

Tgt Ion: 64 Resp: 658113

Ion Ratio Lower Upper

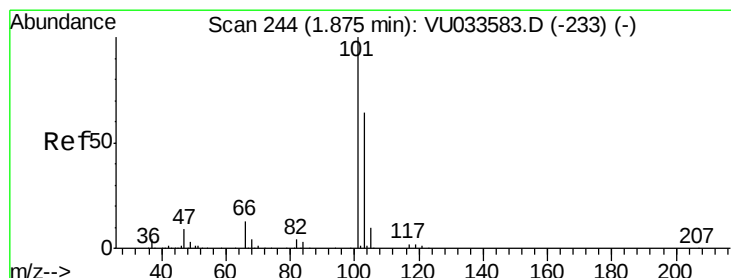
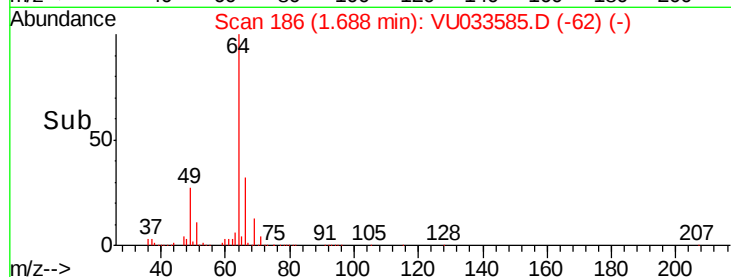
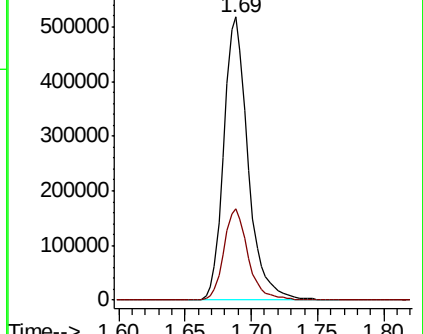
64 100

66 32.1 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VU033583.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033583.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 200.368 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU033585.D

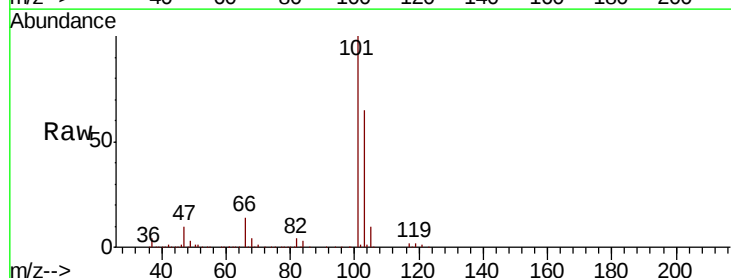
Acq: 03 Aug 2019 12:04

Tgt Ion: 101 Resp: 919893

Ion Ratio Lower Upper

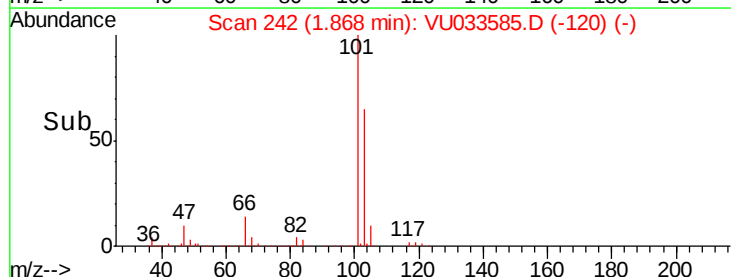
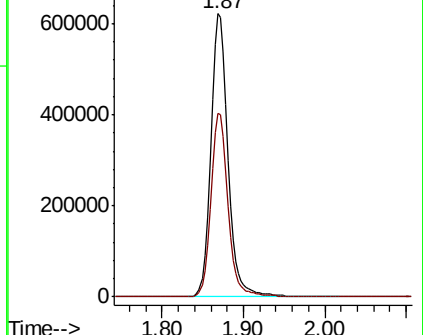
101 100

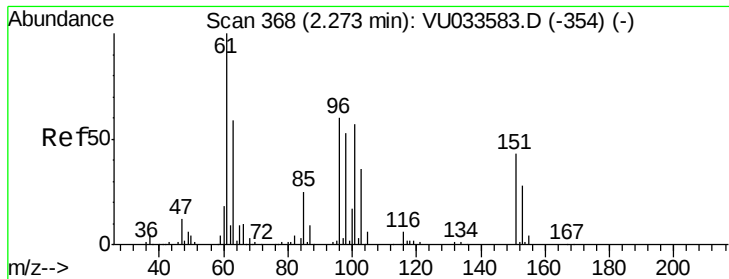
103 65.1 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU033583.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033583.D (-233) (-)





#10

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

Concen: 194.717 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

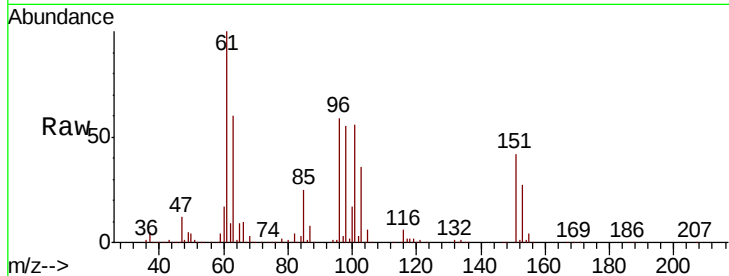
Tgt Ion:101 Resp: 454833

Ion Ratio Lower Upper

101 100

85 44.7 35.5 53.3

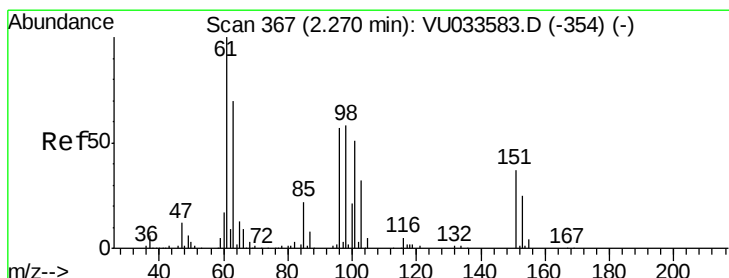
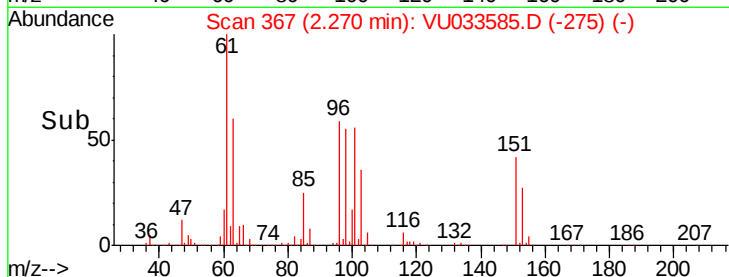
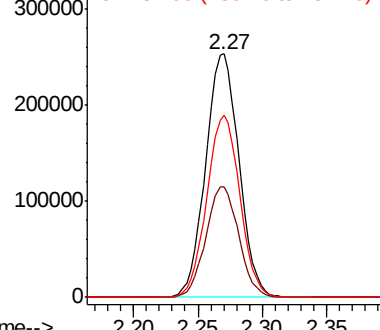
151 74.1 59.9 89.9



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: 197.487 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

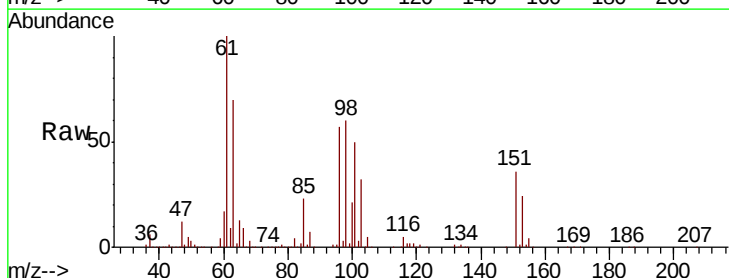
Tgt Ion: 96 Resp: 439460

Ion Ratio Lower Upper

96 100

61 174.8 122.8 228.0

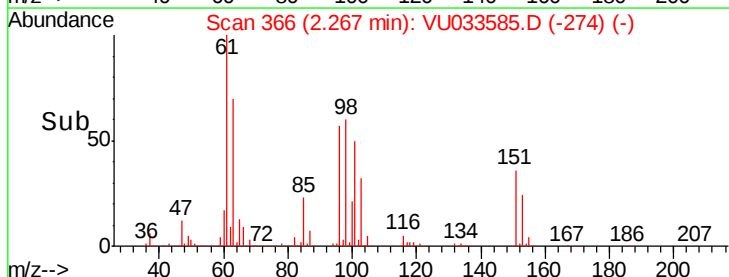
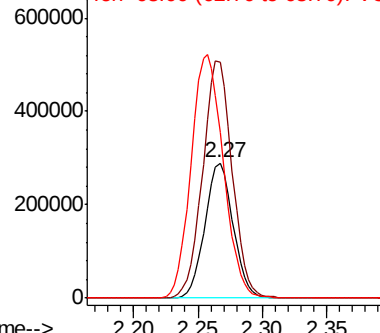
63 122.8 87.1 161.7

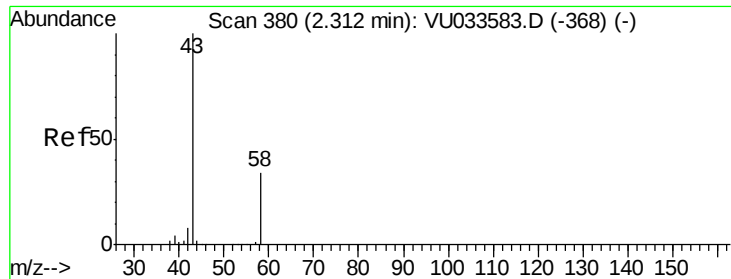


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 366.419 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

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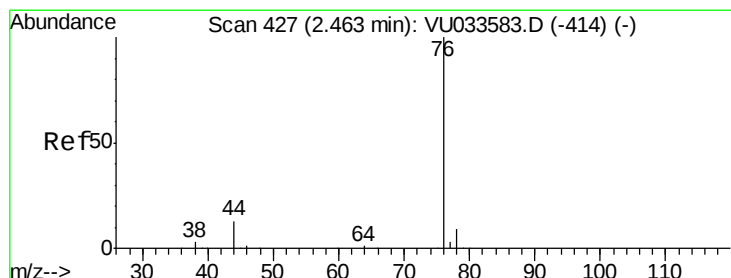
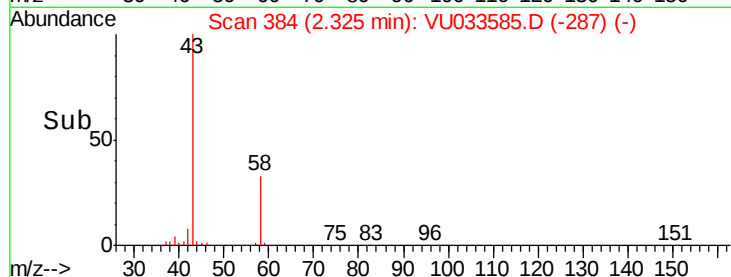
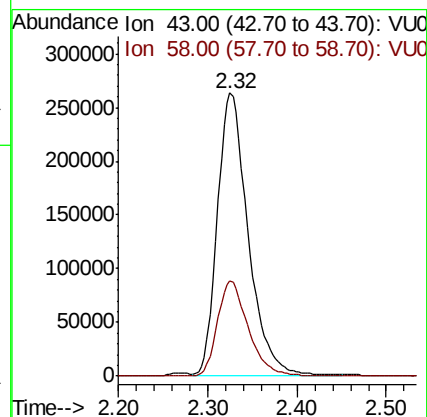
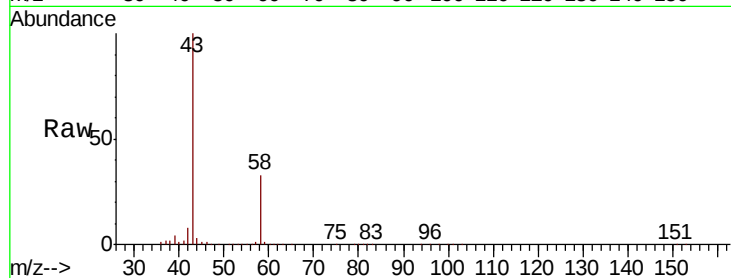
VSTD20033

Tgt Ion: 43 Resp: 629040

Ion Ratio Lower Upper

43 100

58 33.2 0.0 66.0



#14

Carbon disulfide

Concen: 183.189 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033585.D

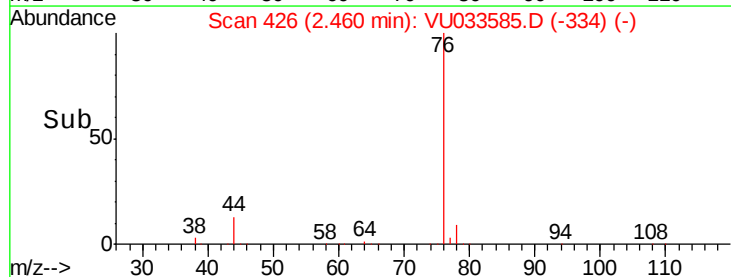
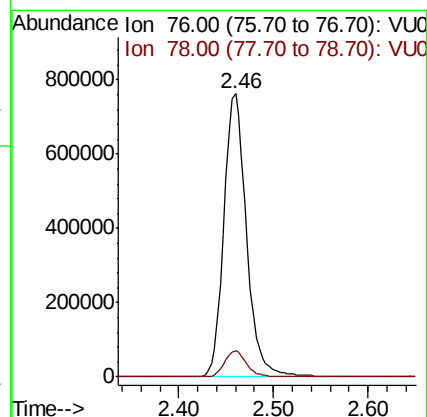
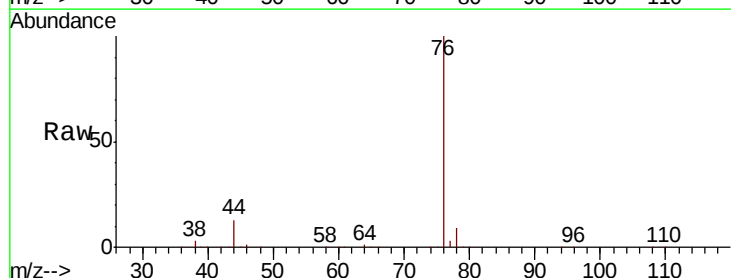
Acq: 03 Aug 2019 12:04

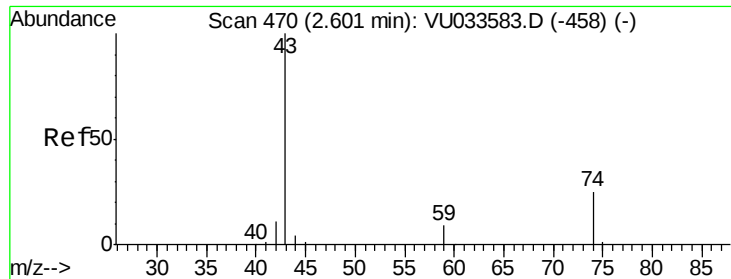
Tgt Ion: 76 Resp: 1268830

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

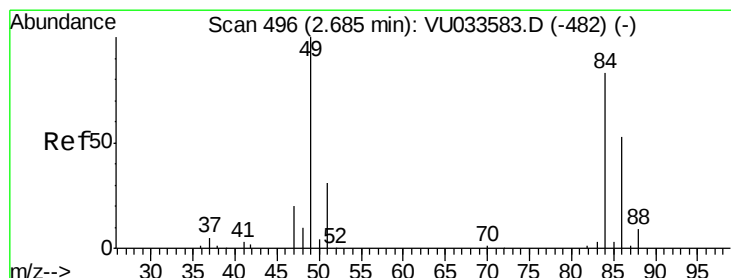
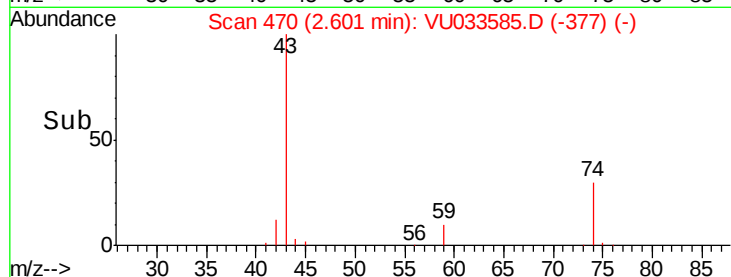
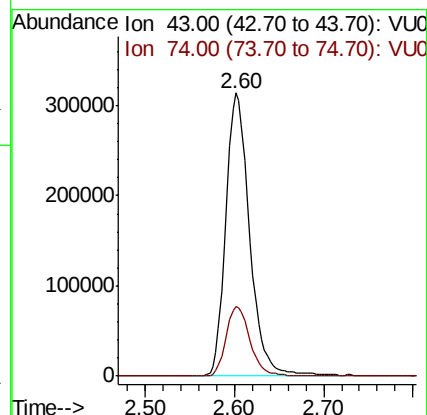
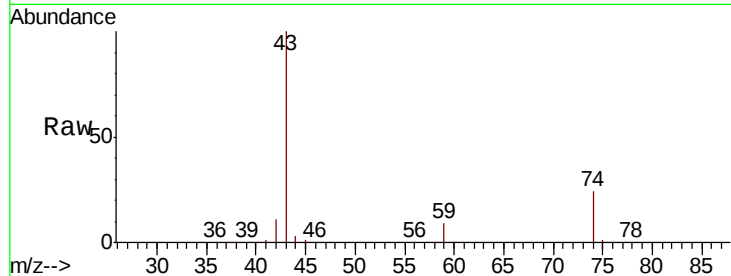




#15
Methyl Acetate
Concen: 210.593 ug/L
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

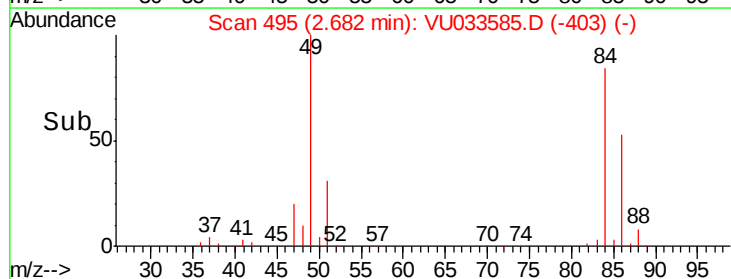
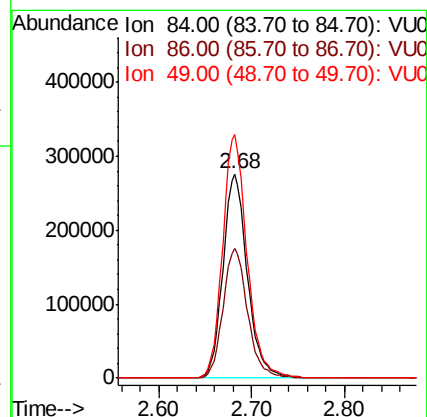
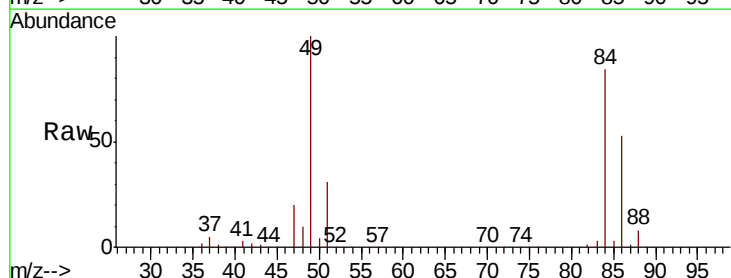
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

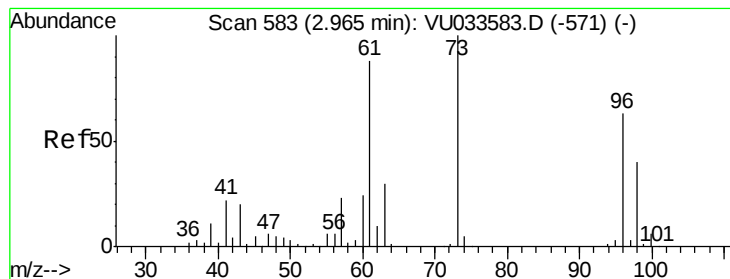
Tgt Ion: 43 Resp: 579055
Ion Ratio Lower Upper
43 100
74 25.0 19.9 29.9



#16
Methylene chloride
Concen: 196.648 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion: 84 Resp: 503199
Ion Ratio Lower Upper
84 100
86 63.5 44.5 82.7
49 119.2 84.2 156.4





#17

trans-1,2-Dichloroethene

Concen: 200.085 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

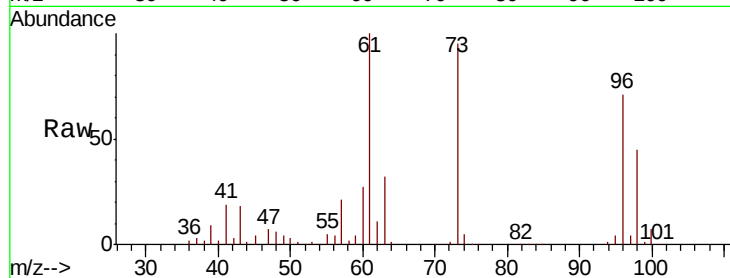
Tgt Ion: 96 Resp: 467143

Ion Ratio Lower Upper

96 100

61 141.8 98.1 182.3

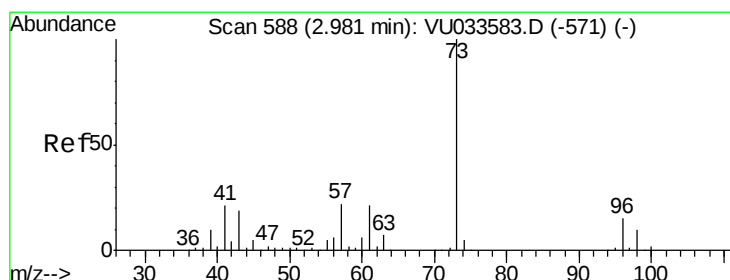
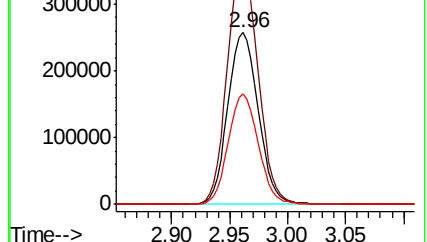
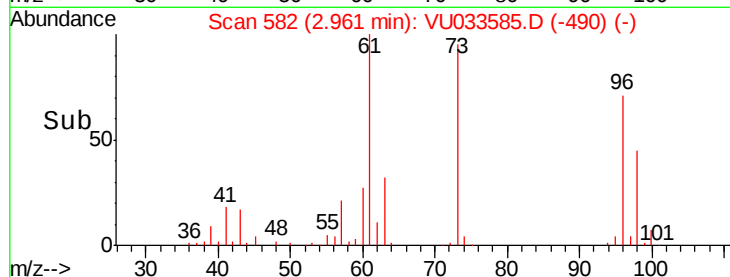
98 64.0 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU033585.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033585.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033585.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 215.801 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

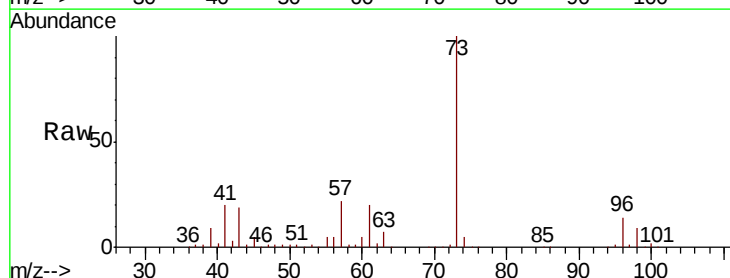
Tgt Ion: 73 Resp: 1546478

Ion Ratio Lower Upper

73 100

43 18.9 15.5 23.3

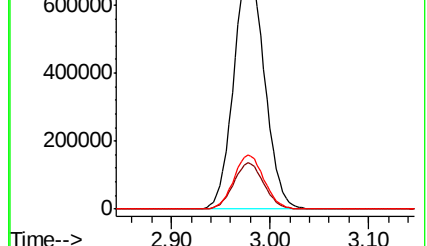
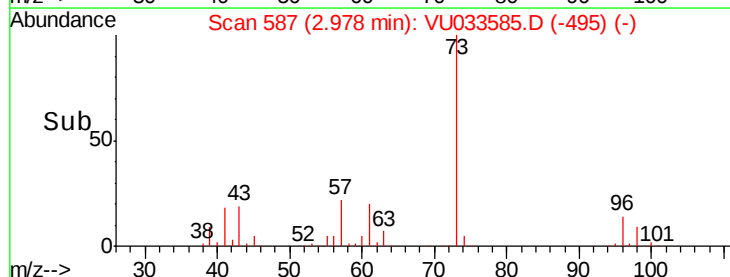
57 22.0 17.8 26.6

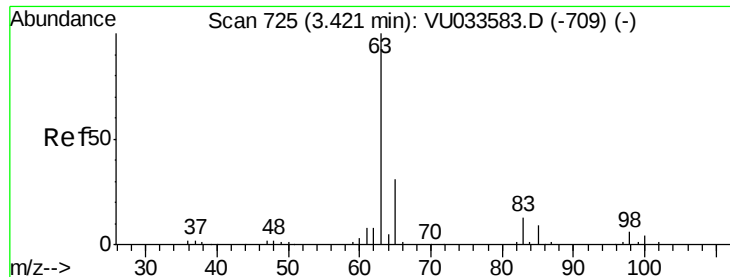


Abundance Ion 73.00 (72.70 to 73.70): VU033585.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU033585.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU033585.D (-495) (-)

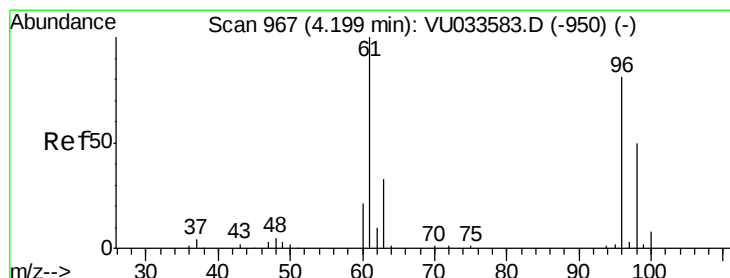
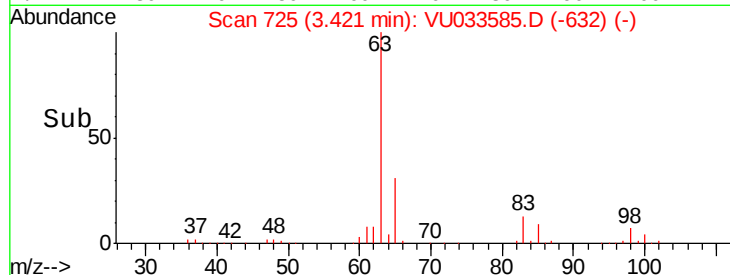
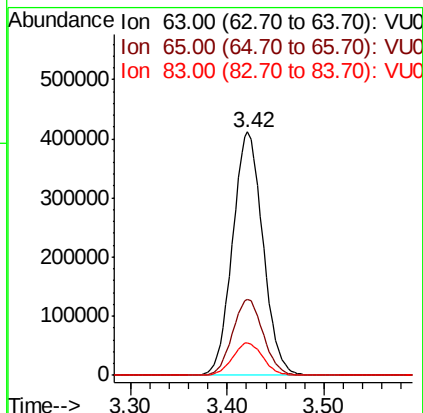
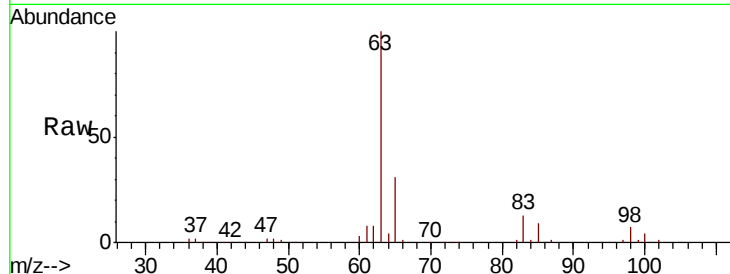




#19
 1,1-Dichloroethane
 Concen: 202.983 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

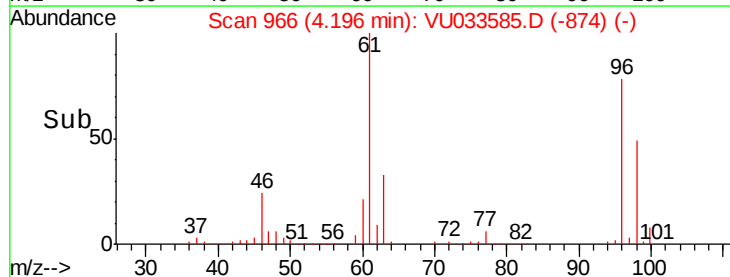
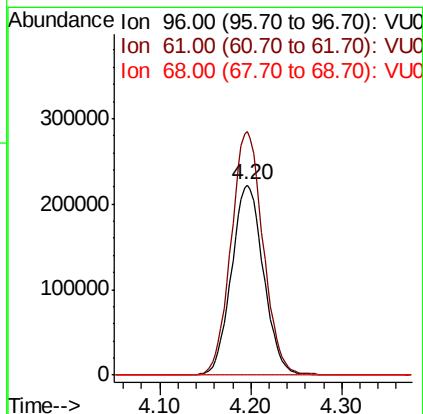
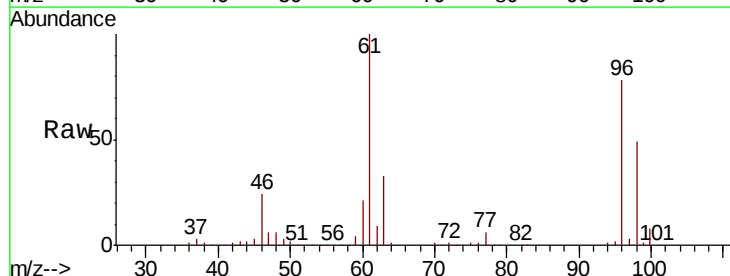
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

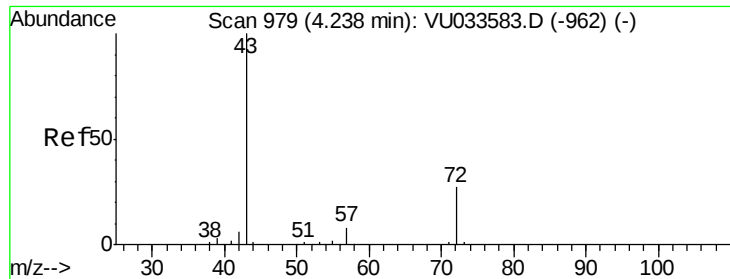
Tgt Ion: 63 Resp: 895460
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.0 40.8
 83 13.2 8.9 16.5



#20
 cis-1,2-Dichloroethene
 Concen: 205.788 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion: 96 Resp: 543230
 Ion Ratio Lower Upper
 96 100
 61 128.0 87.4 162.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 442.993 ug/L

RT: 4.24 min Scan# 981

Delta R.T. 0.01 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

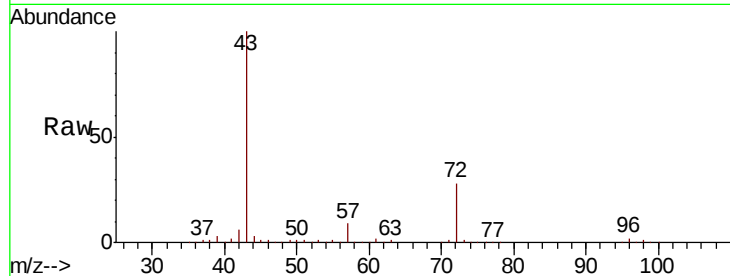
VSTD20033

Tgt Ion: 43 Resp: 910222

Ion Ratio Lower Upper

43 100

72 29.1 14.4 43.4



Abundance Ion 43.00 (42.70 to 43.70): VU033585.D (-981) (-)

Ion 72.00 (71.70 to 72.70): VU033585.D (-981) (-)

4.24

300000

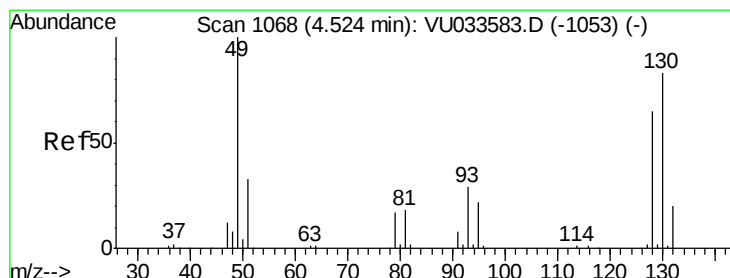
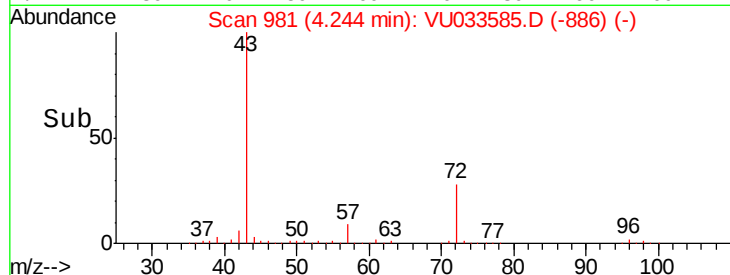
200000

100000

0

4.10 4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 195.967 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Tgt Ion: 128 Resp: 267692

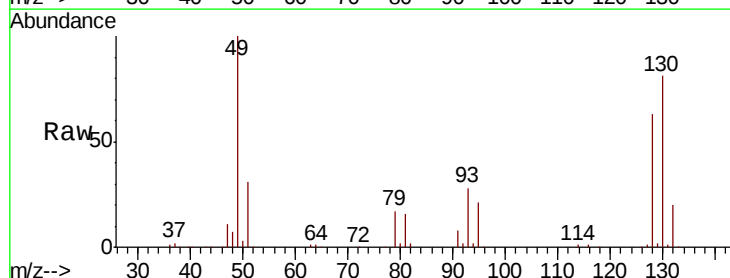
Ion Ratio Lower Upper

128 100

49 157.7 107.9 200.3

130 127.6 89.5 166.1

51 49.3 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033585.D (-1067) (-)

Ion 49.00 (48.70 to 49.70): VU033585.D (-1067) (-)

Ion 130.00 (129.70 to 130.70): VU033585.D (-1067) (-)

Ion 51.00 (50.70 to 51.70): VU033585.D (-1067) (-)

250000

200000

150000

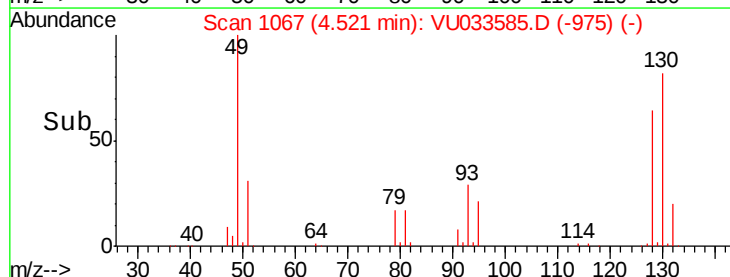
100000

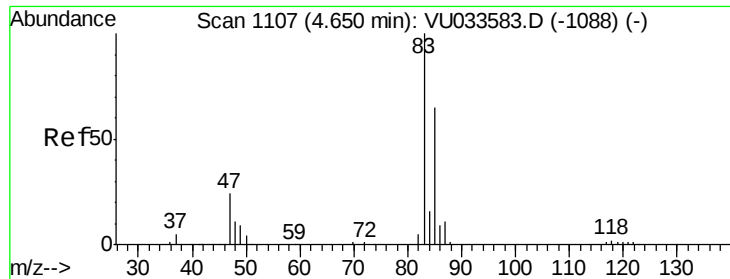
50000

0

4.40 4.50 4.60 4.70

Time-->

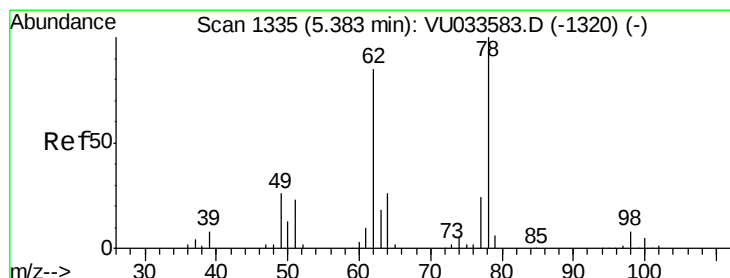
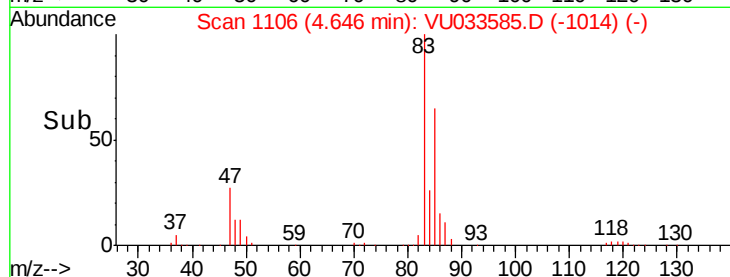
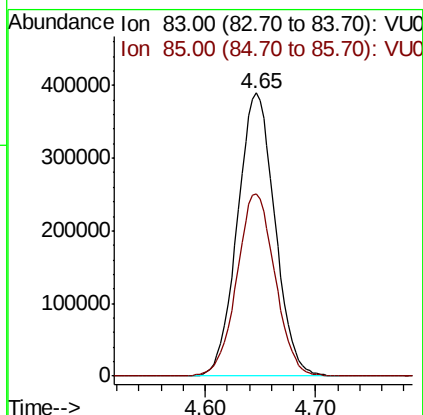
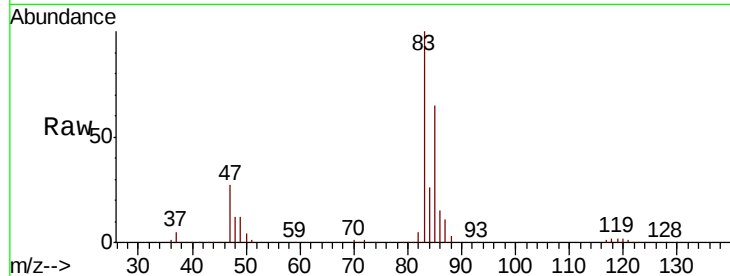




#25
Chloroform
Concen: 197.682 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

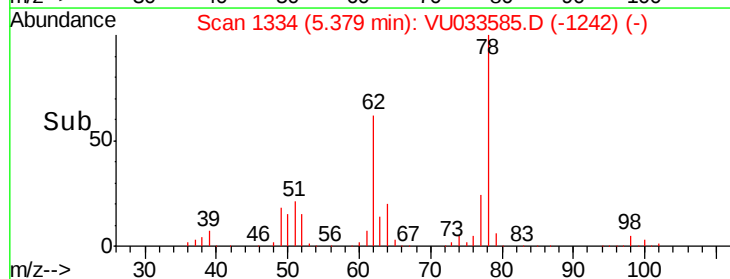
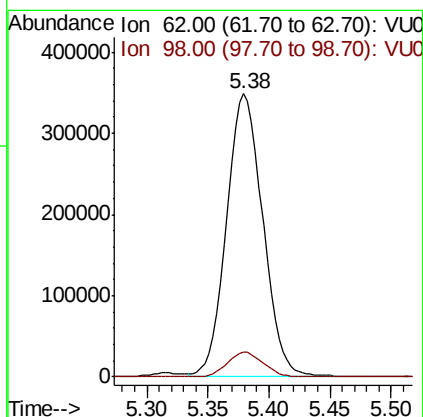
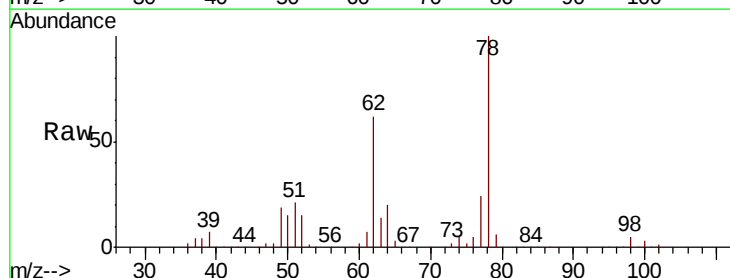
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

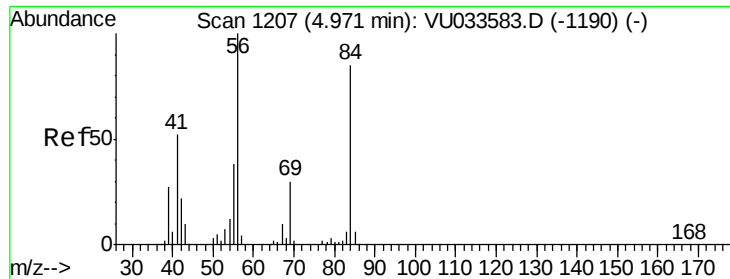
Tgt Ion: 83 Resp: 915849
Ion Ratio Lower Upper
83 100
85 64.6 45.6 84.8



#27
1,2-Dichloroethane
Concen: 201.321 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion: 62 Resp: 720341
Ion Ratio Lower Upper
62 100
98 8.8 7.4 11.0

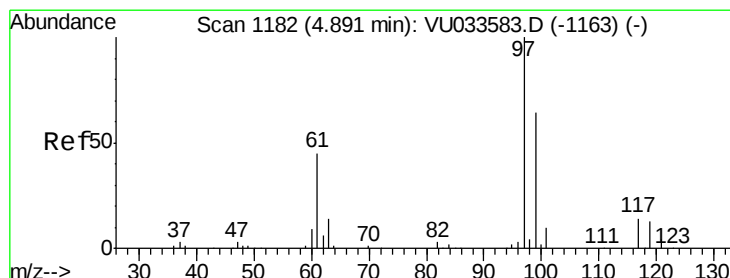
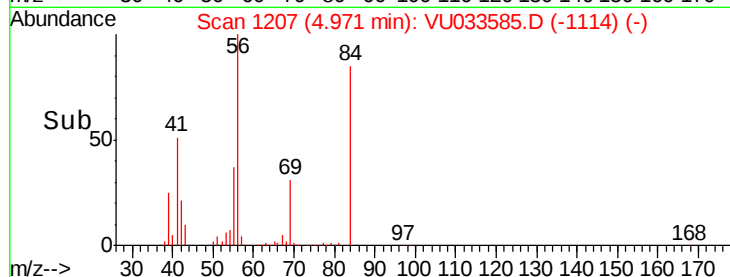
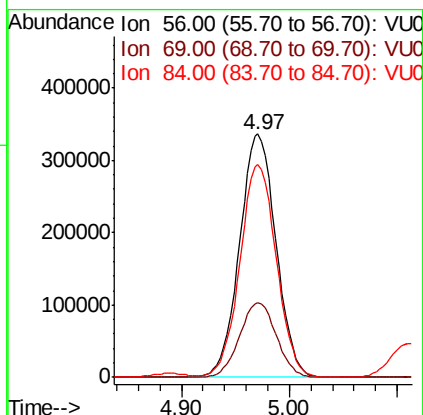
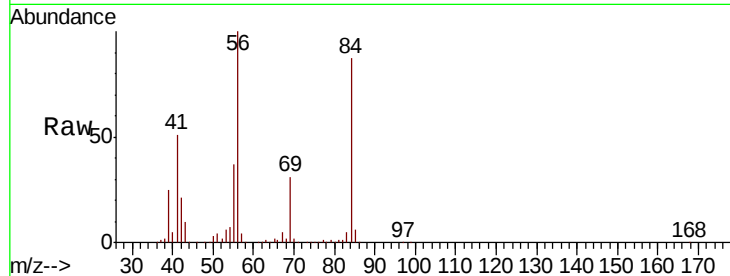




#29
Cyclohexane
Concen: 217.567 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

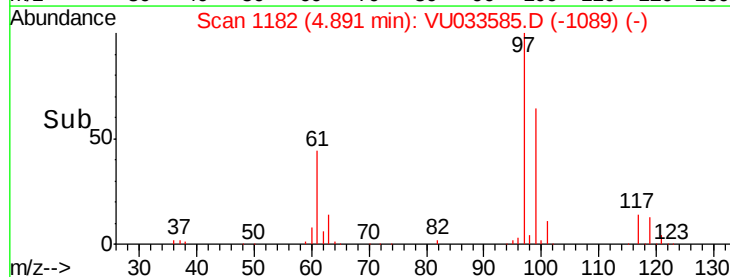
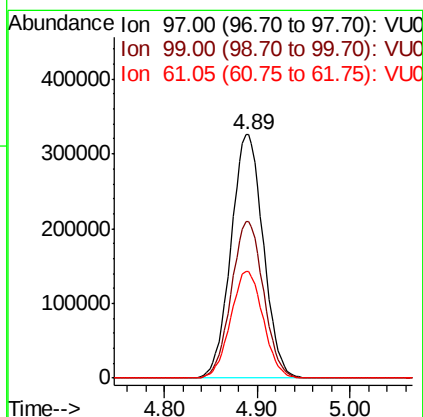
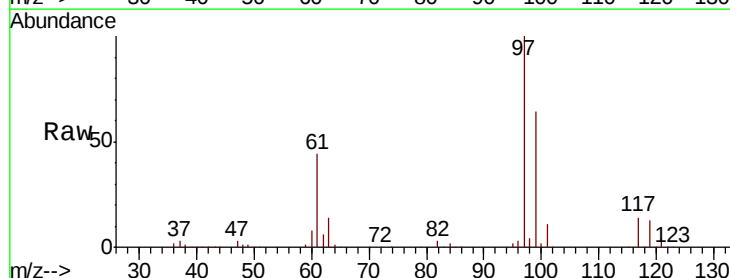
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

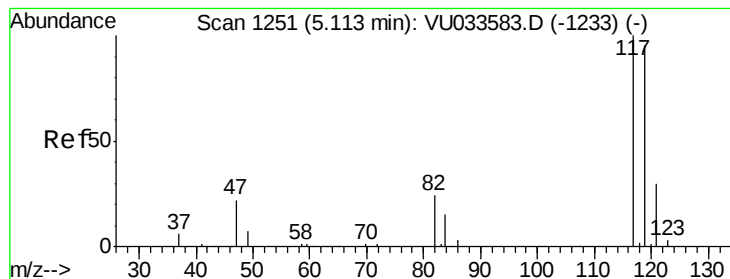
Tgt Ion: 56 Resp: 790373
Ion Ratio Lower Upper
56 100
69 31.1 24.6 36.8
84 87.5 69.8 104.6



#30
1,1,1-Trichloroethane
Concen: 204.041 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion: 97 Resp: 785930
Ion Ratio Lower Upper
97 100
99 64.2 51.5 77.3
61 44.2 36.1 54.1





#31

Carbon tetrachloride

Concen: 209.417 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

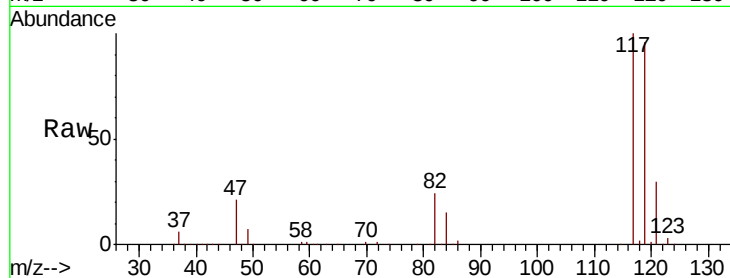
VSTD20033

Tgt Ion:117 Resp: 704233

Ion Ratio Lower Upper

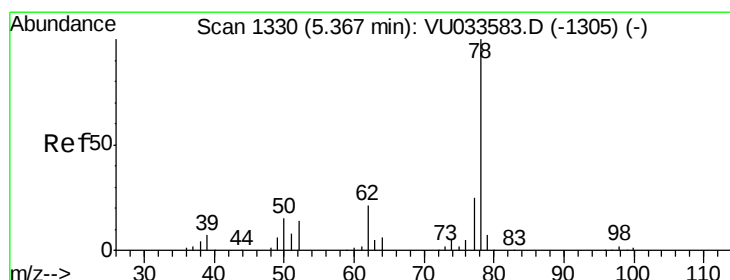
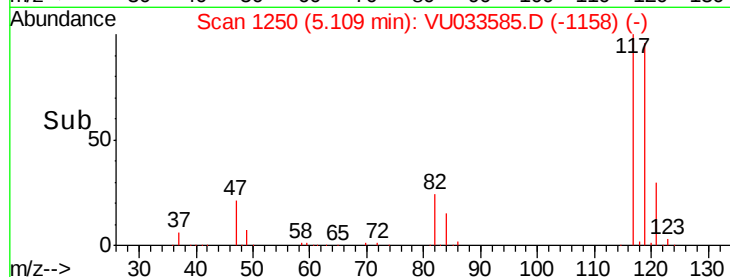
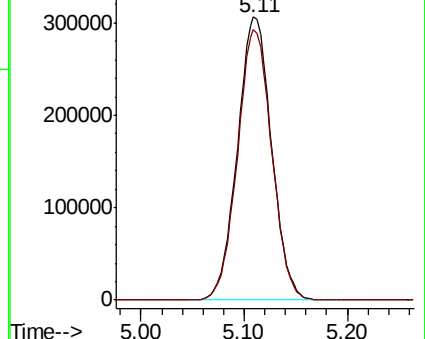
117 100

119 95.8 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: 206.731 ug/L

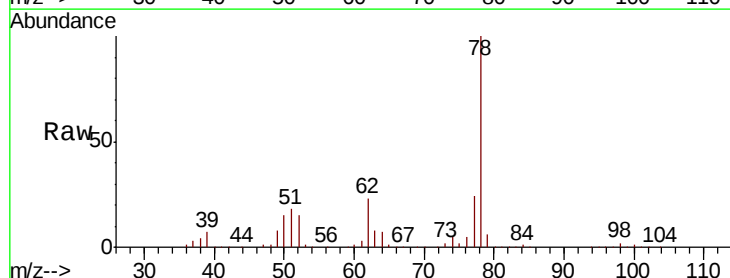
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

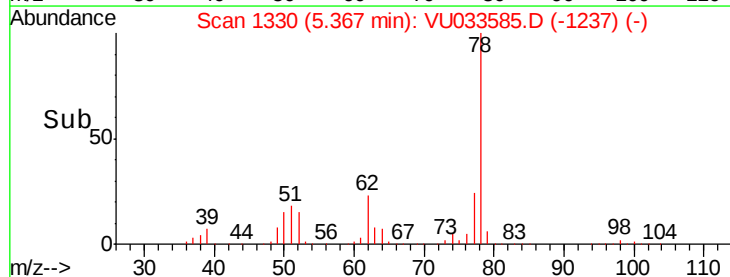
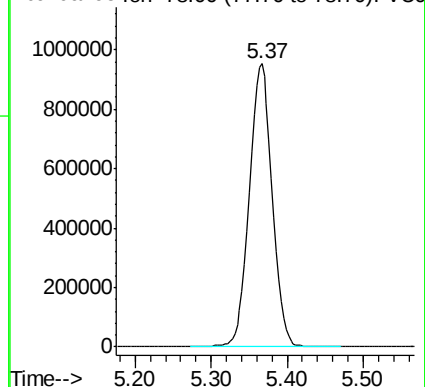
Lab File: VU033585.D

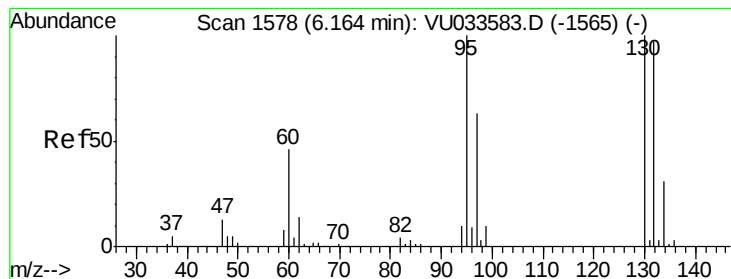
Acq: 03 Aug 2019 12:04

Tgt Ion: 78 Resp: 1994550



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 203.200 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

Tgt Ion: 95 Resp: 516506

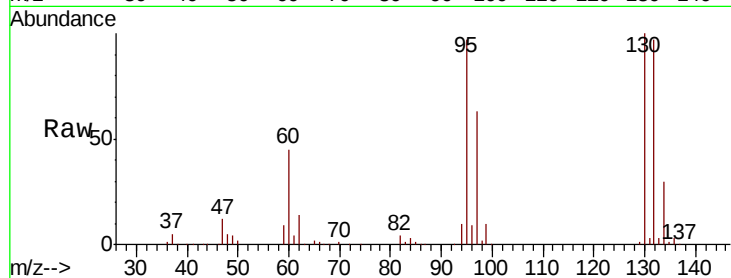
Ion Ratio Lower Upper

95 100

97 65.4 44.2 82.2

132 100.0 68.3 126.8

130 103.2 70.1 130.3



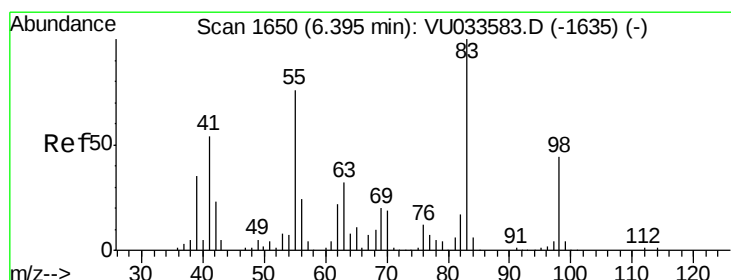
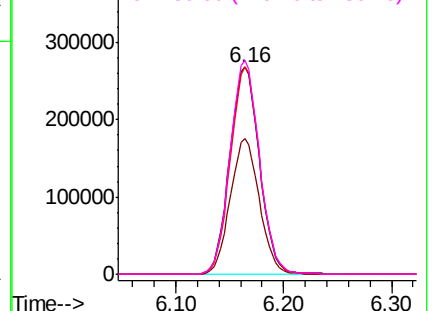
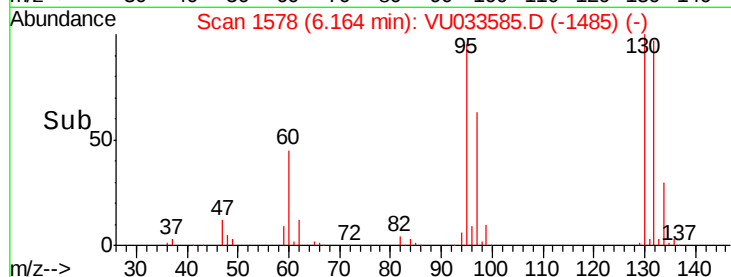
Abundance

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: 215.878 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

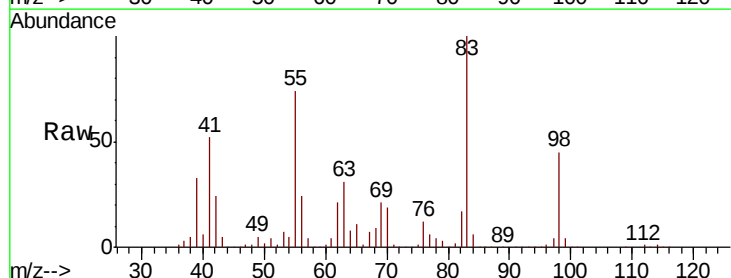
Tgt Ion: 83 Resp: 854508

Ion Ratio Lower Upper

83 100

55 73.9 60.7 91.1

98 45.8 35.4 53.2

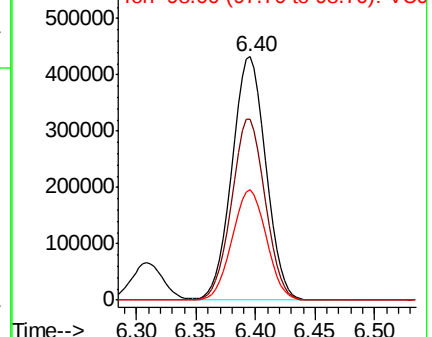
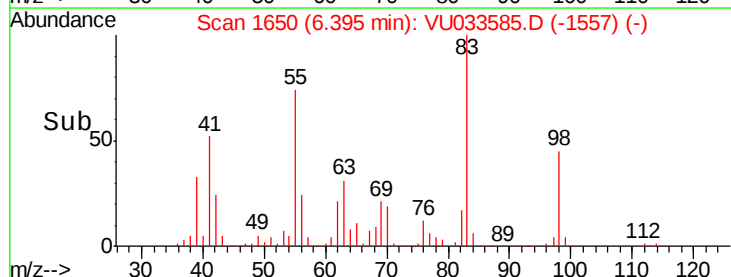


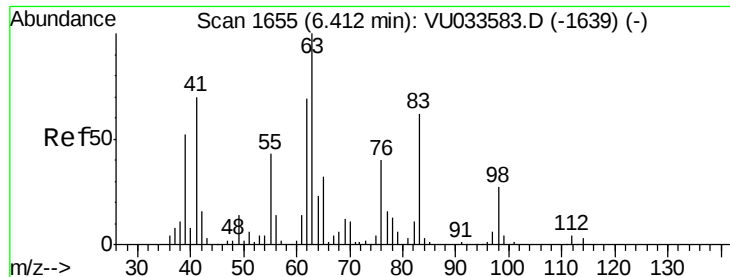
Abundance

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

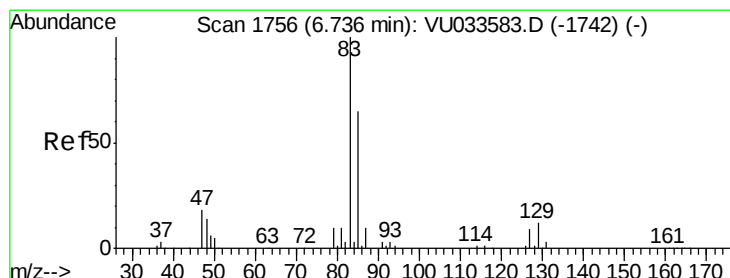
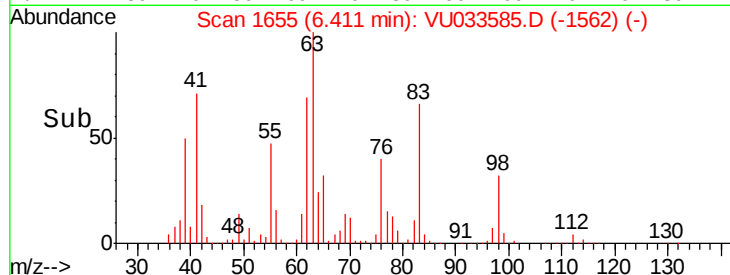
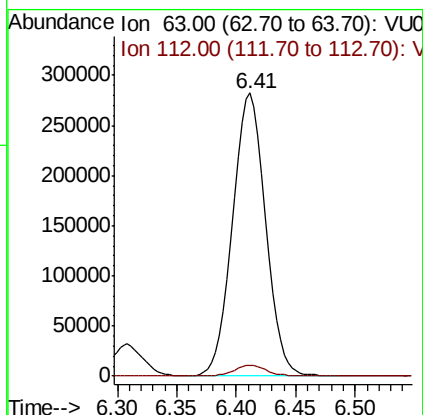
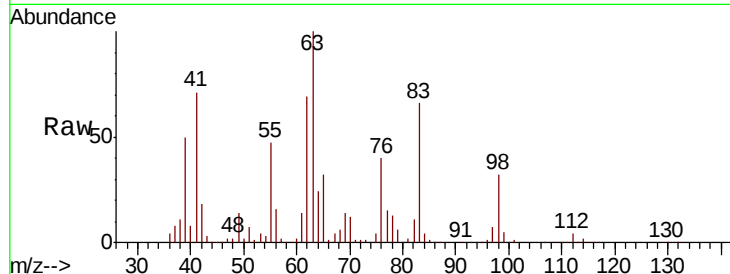




#37
 1,2-Dichloropropane
 Concen: 208.078 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

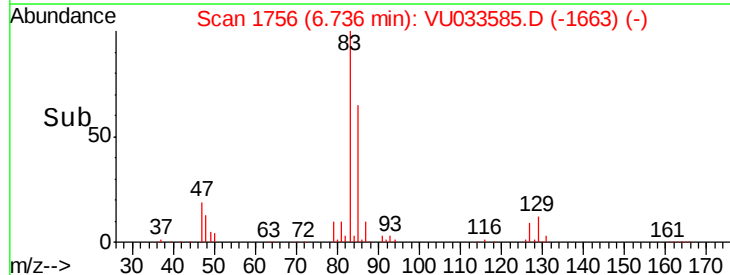
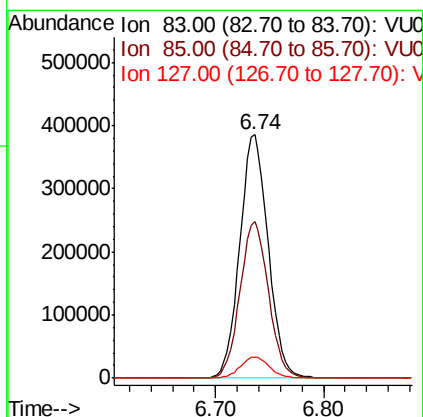
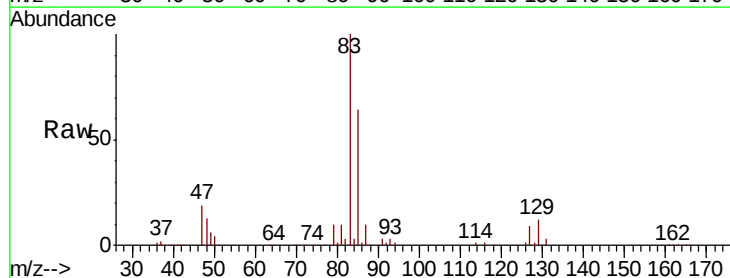
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

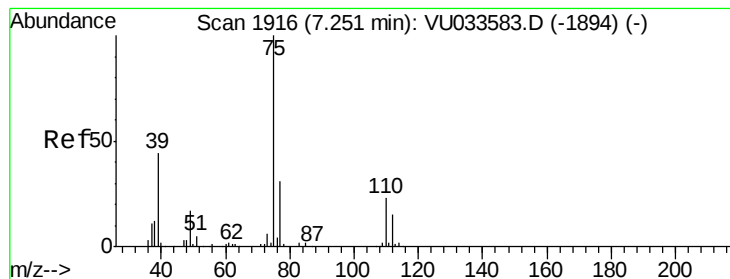
Tgt Ion: 63 Resp: 542187
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.4



#38
 Bromodichloromethane
 Concen: 210.639 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion: 83 Resp: 706601
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.5 84.5
 127 8.8 6.9 10.3



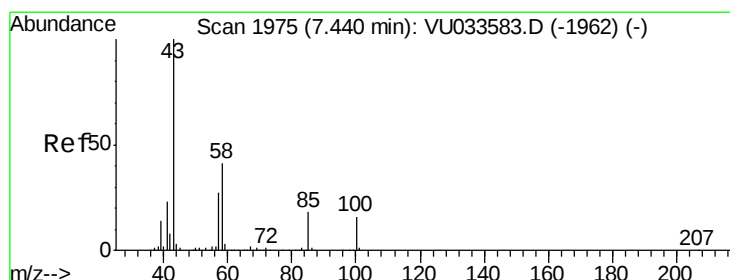
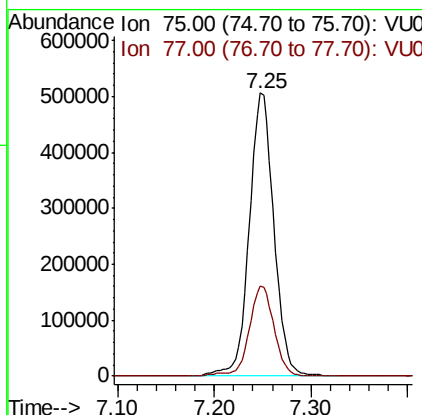
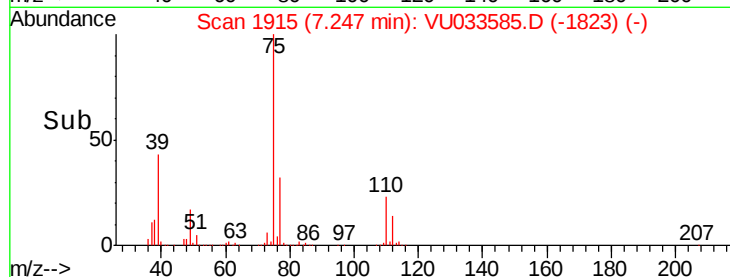
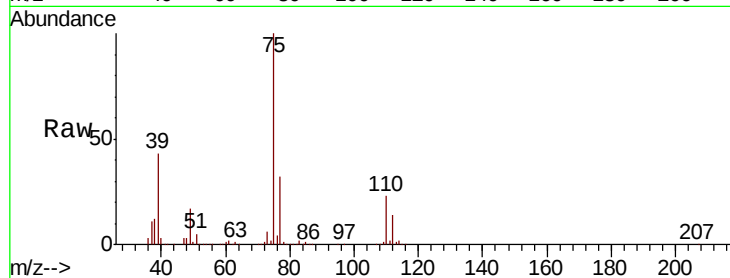


#39

cis-1,3-Dichloropropene
Concen: 221.298 ug/L
RT: 7.25 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Instrument :
MSVOA_U
ClientSampled :
VSTD20033

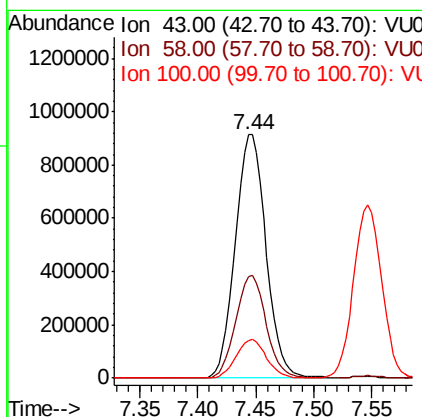
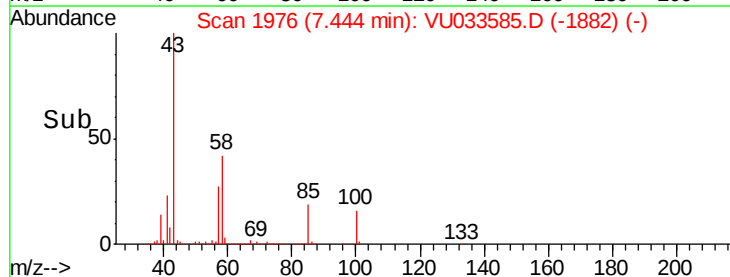
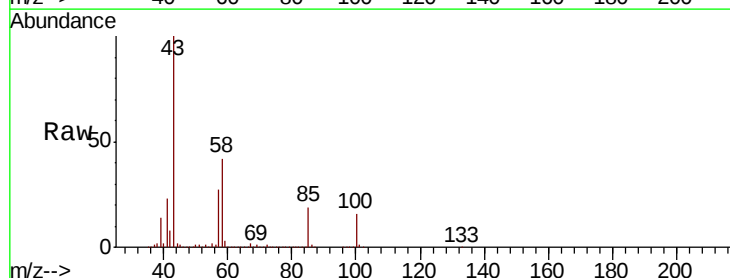
Tgt Ion: 75 Resp: 894243
Ion Ratio Lower Upper
75 100
77 31.8 21.9 40.7

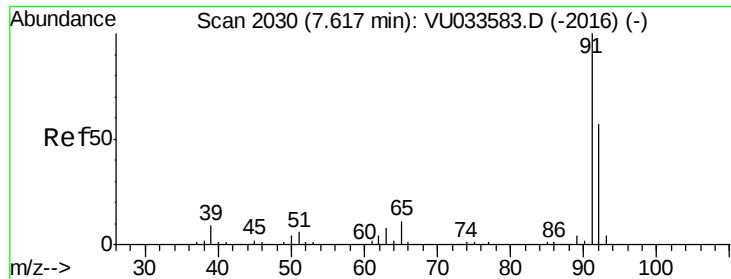


#40

4-Methyl-2-pentanone
Concen: 463.299 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion: 43 Resp: 1675763
Ion Ratio Lower Upper
43 100
58 41.6 33.0 49.4
100 15.7 12.4 18.6





#42

Toluene

Concen: 213.002 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

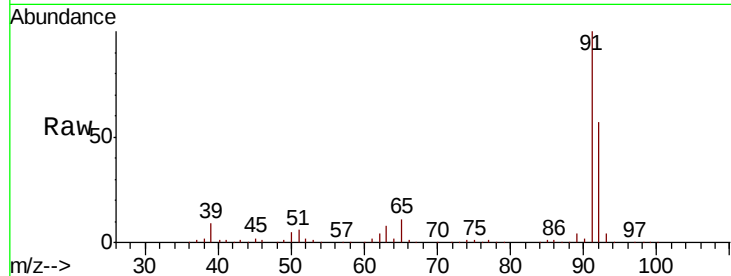
VSTD20033

Tgt Ion: 91 Resp: 2205555

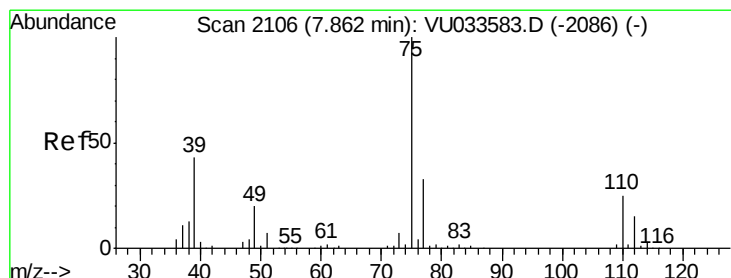
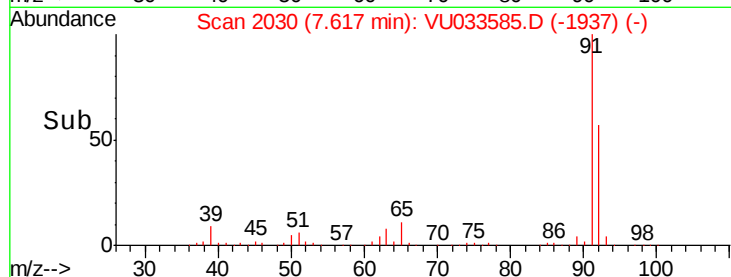
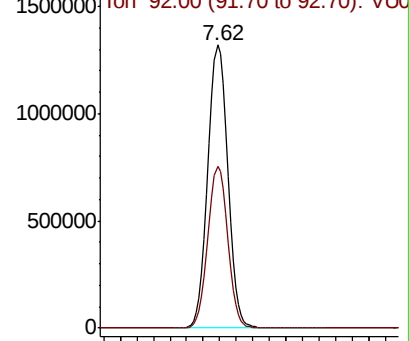
Ion Ratio Lower Upper

91 100

92 57.1 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033585.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 222.038 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033585.D

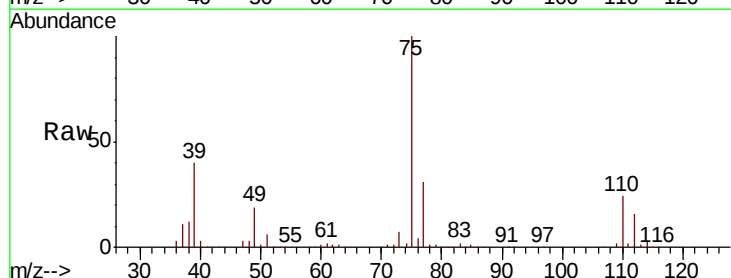
Acq: 03 Aug 2019 12:04

Tgt Ion: 75 Resp: 807777

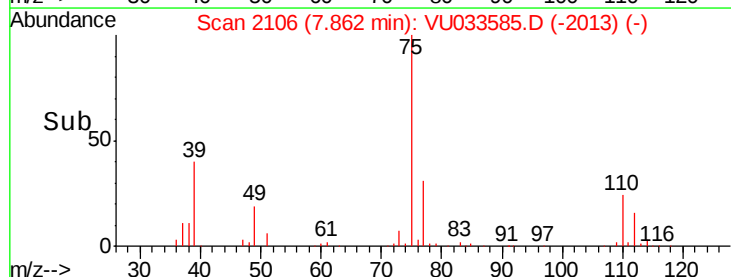
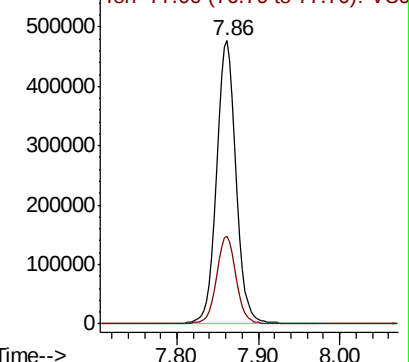
Ion Ratio Lower Upper

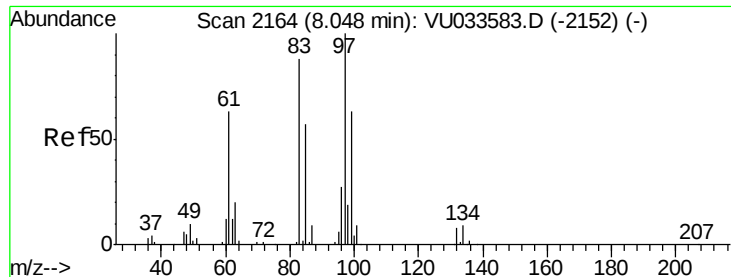
75 100

77 31.1 23.4 43.4



Abundance Ion 75.00 (74.70 to 75.70): VU033585.D (-2013) (-)

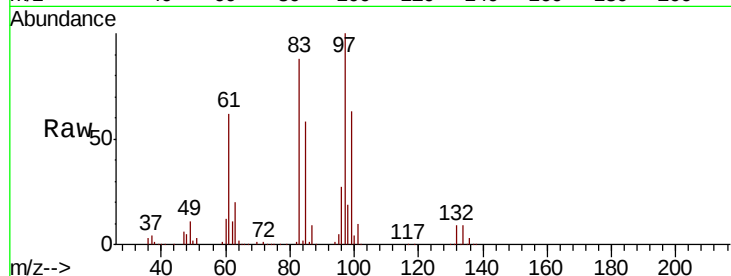




#45
 1,1,2-Trichloroethane
 Concen: 207.531 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

Tgt Ion:	97	Resp:	510985
Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.9	81.5
83	88.4	61.9	114.9
85	57.6	39.8	73.8



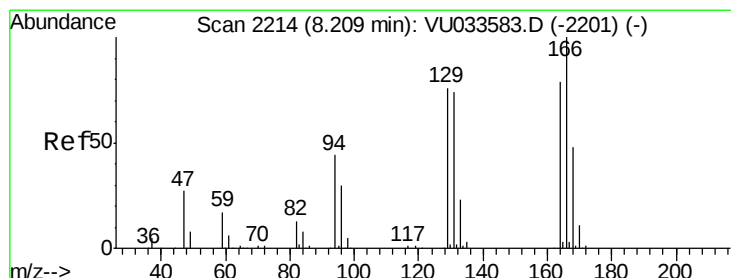
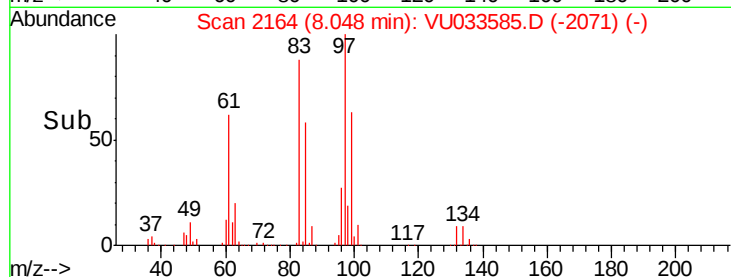
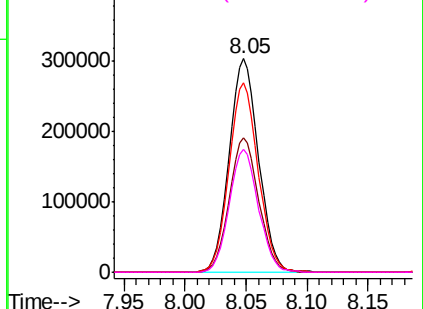
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

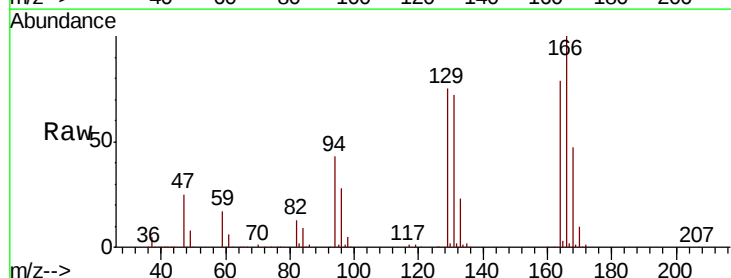
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 205.154 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion:	164	Resp:	423922
Ion	Ratio	Lower	Upper
164	100		
129	94.0	67.0	124.4
131	90.9	65.0	120.6
166	126.1	88.1	163.7



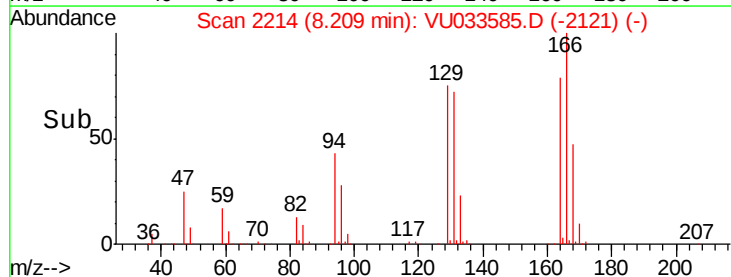
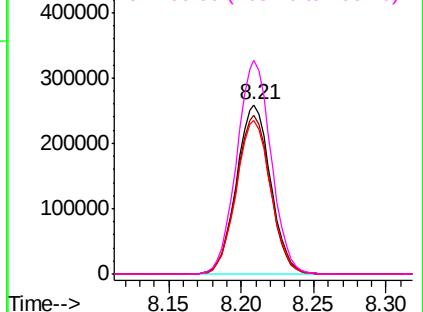
Abundance

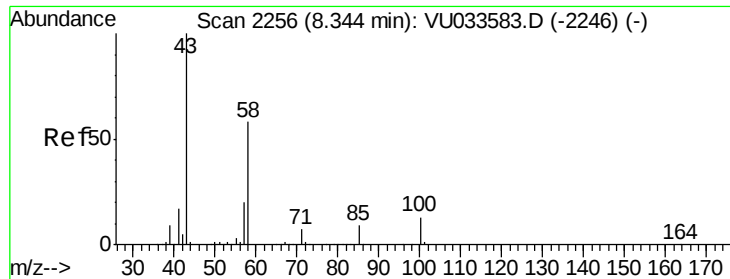
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

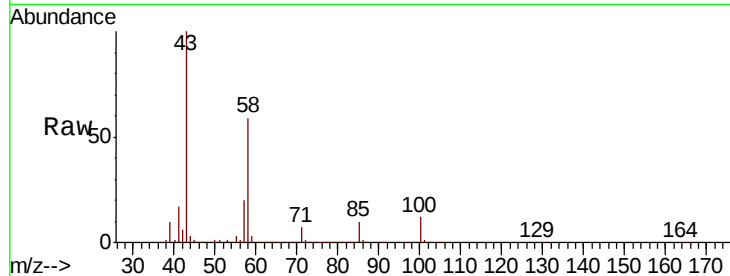




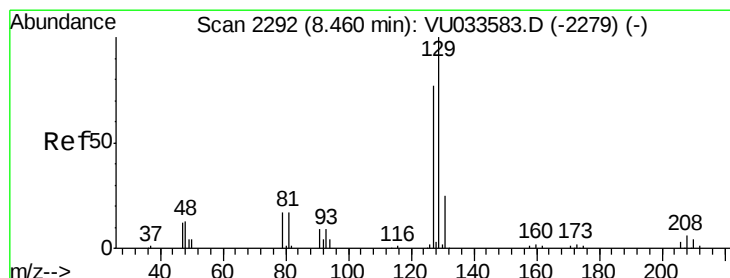
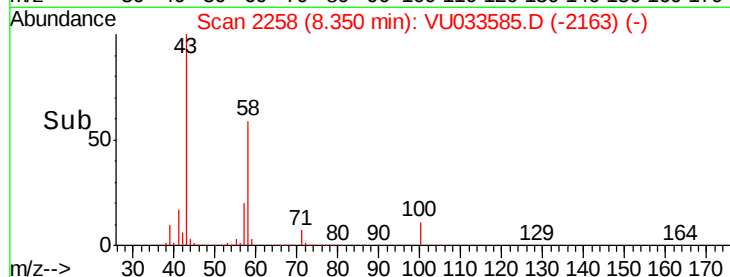
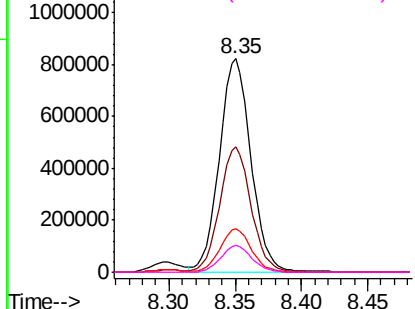
#48
2-Hexanone
Concen: 465.475 ug/L
RT: 8.35 min Scan# 2256
Delta R.T. 0.01 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

Tgt Ion: 43 Resp: 1355694
Ion Ratio Lower Upper
43 100
58 58.8 45.9 68.9
57 20.2 16.2 24.2
100 12.2 9.9 14.9

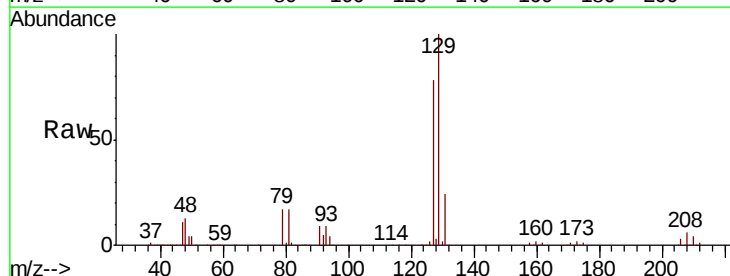


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

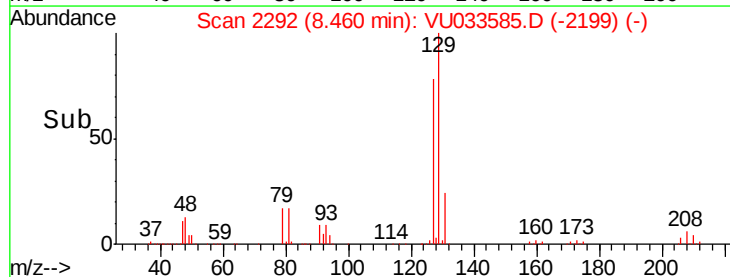
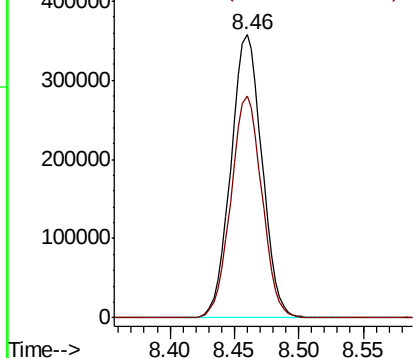


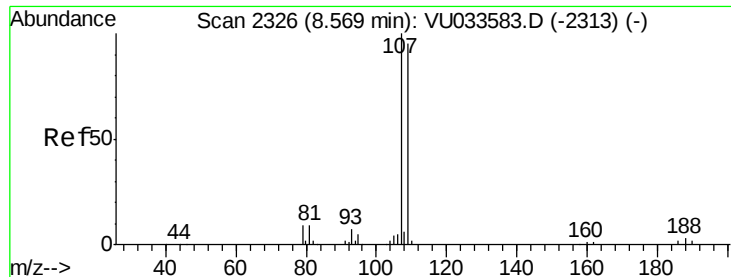
#49
Dibromochloromethane
Concen: 214.582 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion: 129 Resp: 599987
Ion Ratio Lower Upper
129 100
127 78.4 53.7 99.7



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

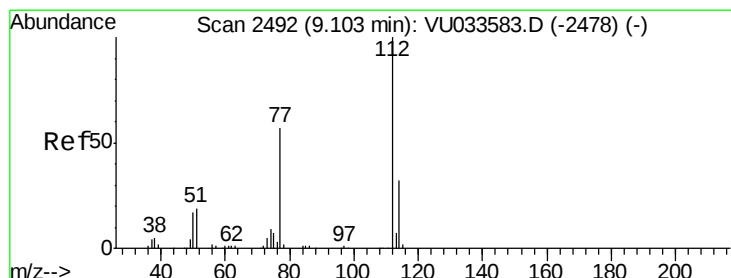
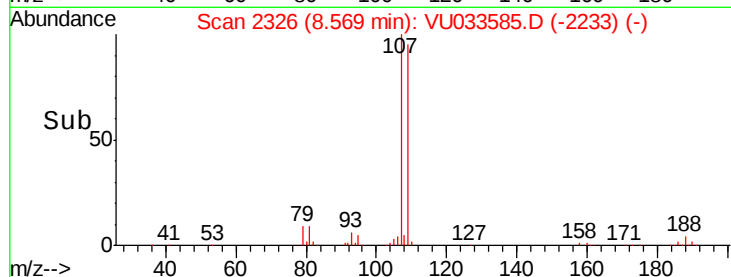
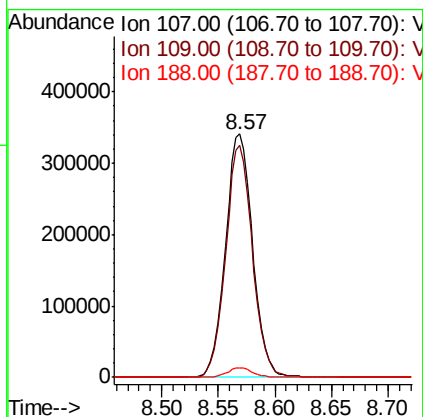
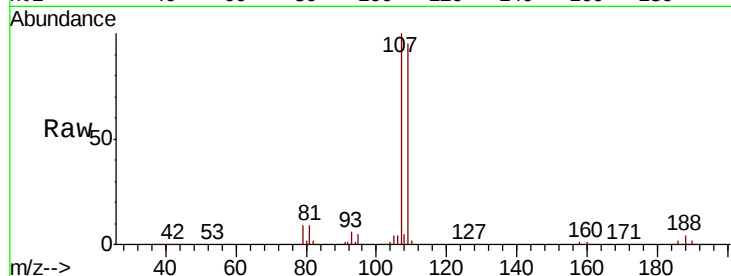




#50
1,2-Dibromoethane
Concen: 209.750 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

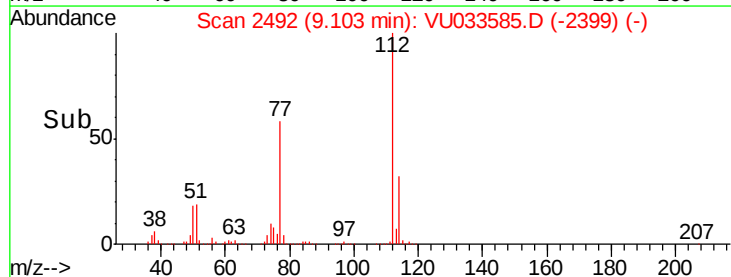
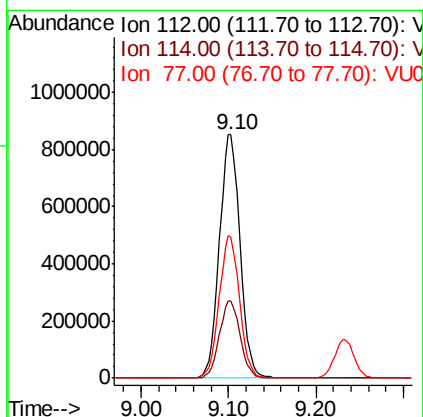
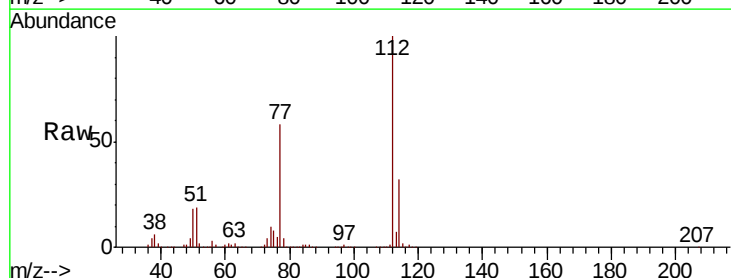
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

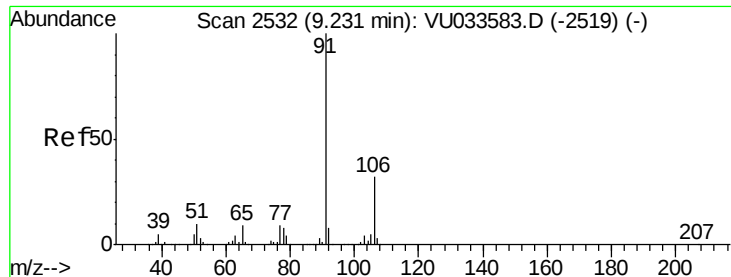
Tgt Ion:107 Resp: 568639
Ion Ratio Lower Upper
107 100
109 95.3 66.6 123.6
188 3.8 2.6 4.0



#51
Chlorobenzene
Concen: 205.279 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033585.D
Acq: 03 Aug 2019 12:04

Tgt Ion:112 Resp: 1390727
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.3
77 57.7 46.3 69.5





#52

Ethylbenzene

Concen: 218.214 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

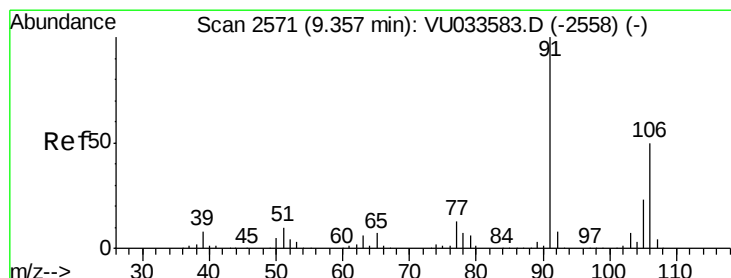
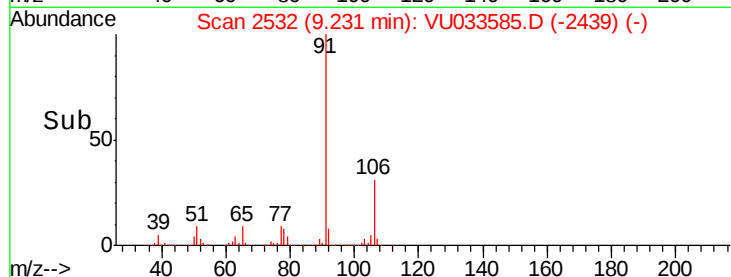
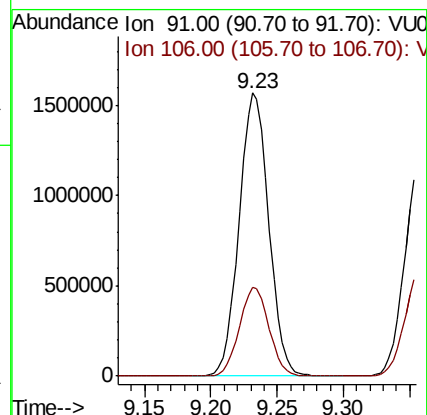
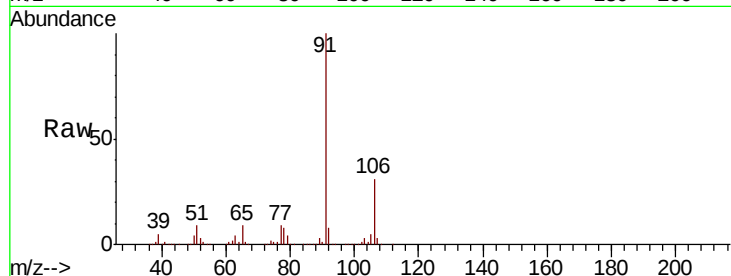
VSTD20033

Tgt Ion: 91 Resp: 2433093

Ion Ratio Lower Upper

91 100

106 31.2 22.1 41.1



#53

m,p-Xylene

Concen: 214.462 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033585.D

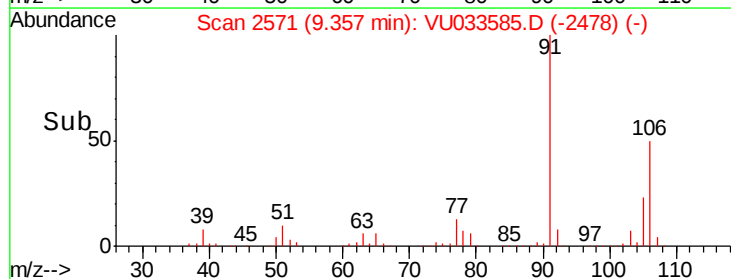
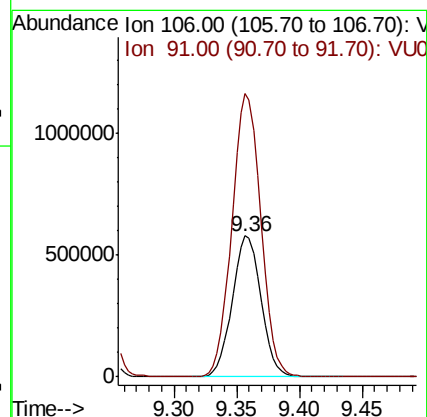
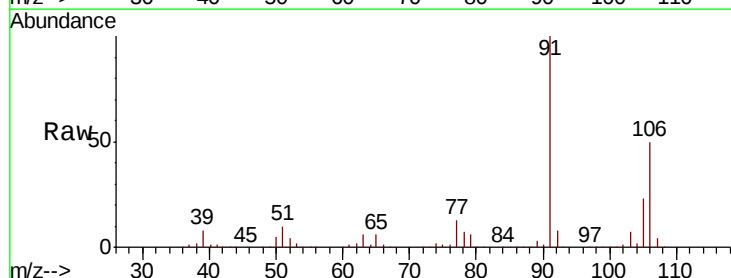
Acq: 03 Aug 2019 12:04

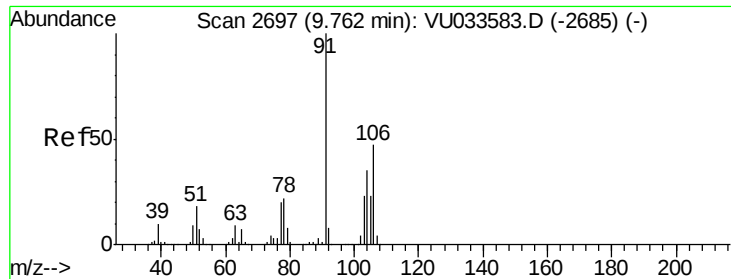
Tgt Ion: 106 Resp: 920429

Ion Ratio Lower Upper

106 100

91 200.9 141.2 262.2





#54

o-xylene

Concen: 222.160 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

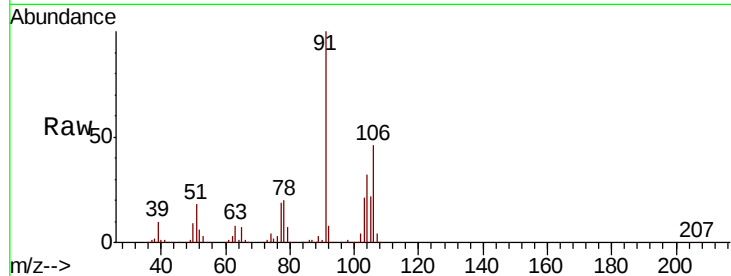
VSTD20033

Tgt Ion:106 Resp: 919723

Ion Ratio Lower Upper

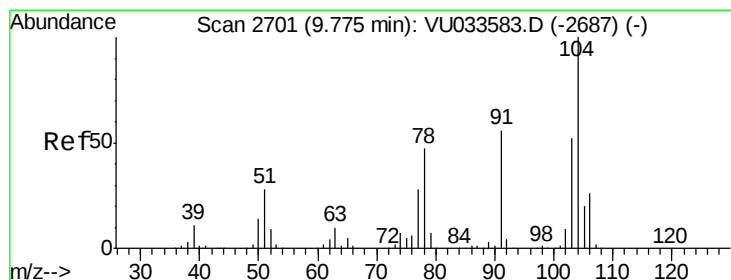
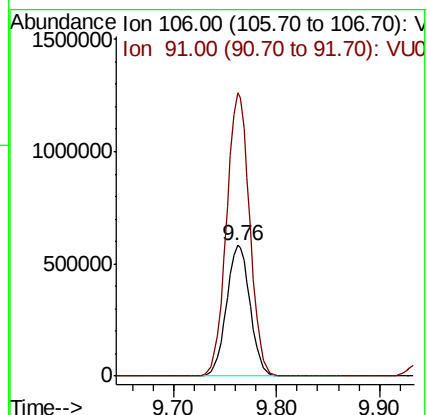
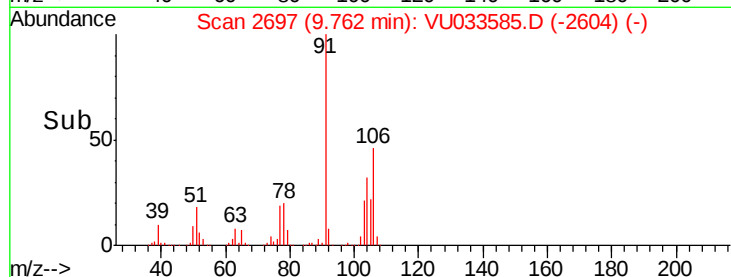
106 100

91 216.6 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 228.238 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033585.D

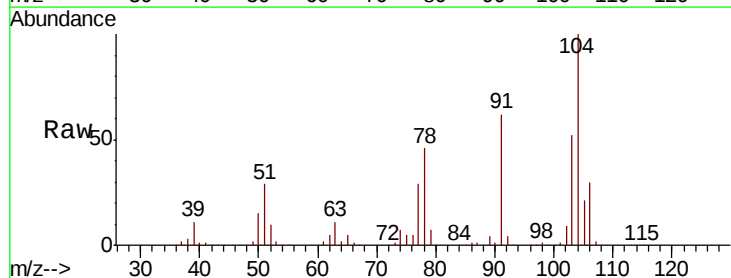
Acq: 03 Aug 2019 12:04

Tgt Ion:104 Resp: 1606065

Ion Ratio Lower Upper

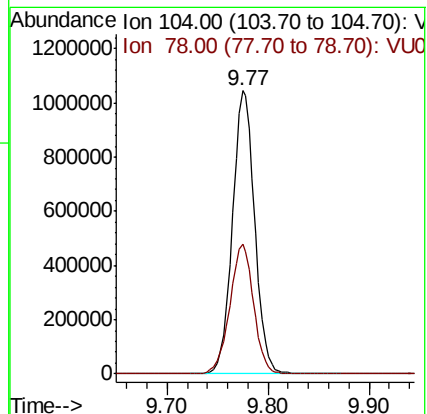
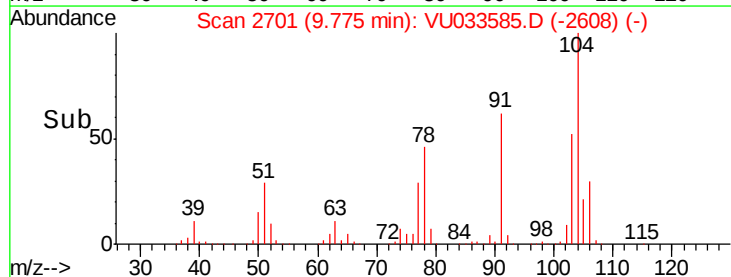
104 100

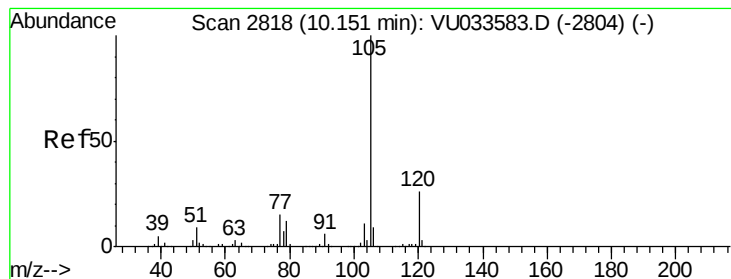
78 45.8 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 222.965 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

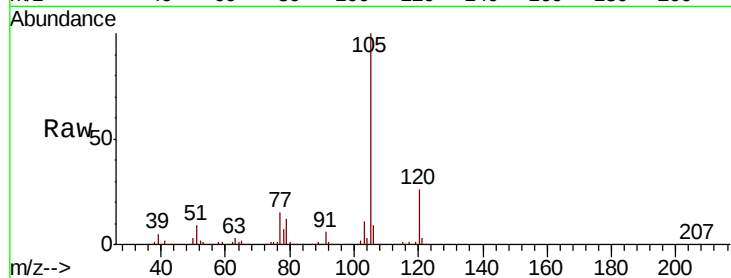
Tgt Ion:105 Resp: 2417276

Ion Ratio Lower Upper

105 100

120 26.3 21.1 31.7

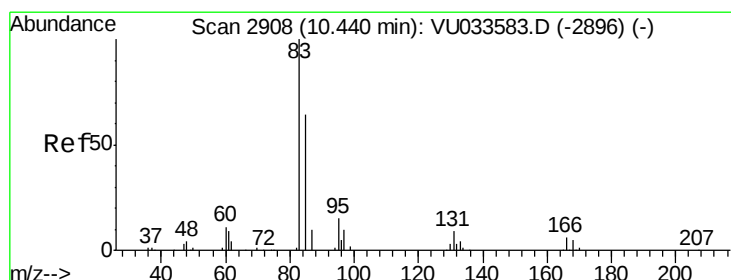
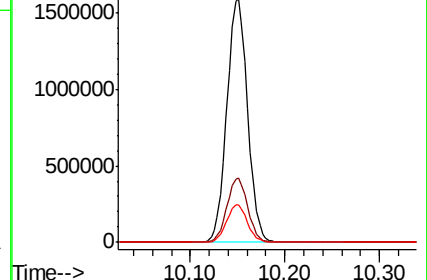
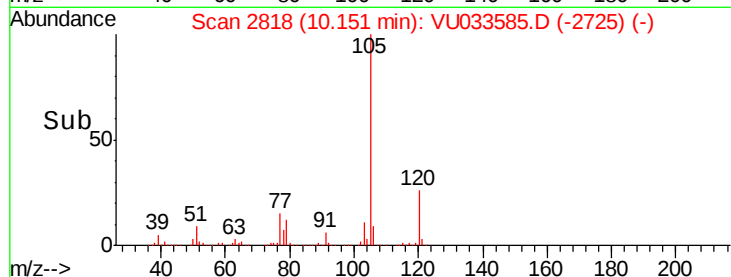
77 15.5 12.6 18.8



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: 211.694 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

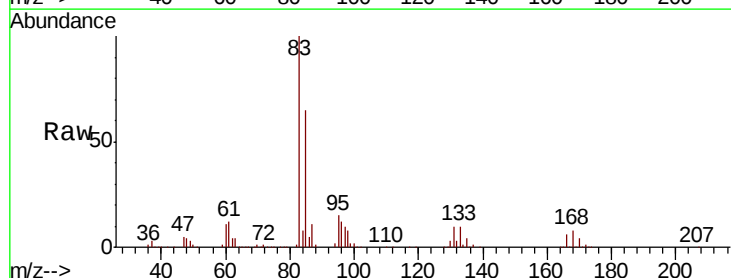
Tgt Ion: 83 Resp: 941879

Ion Ratio Lower Upper

83 100

85 64.8 45.1 83.9

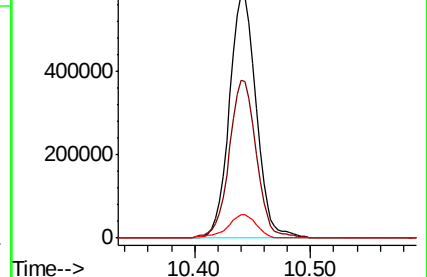
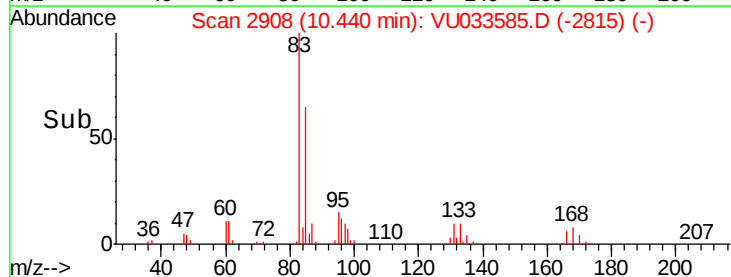
131 9.6 7.4 11.2

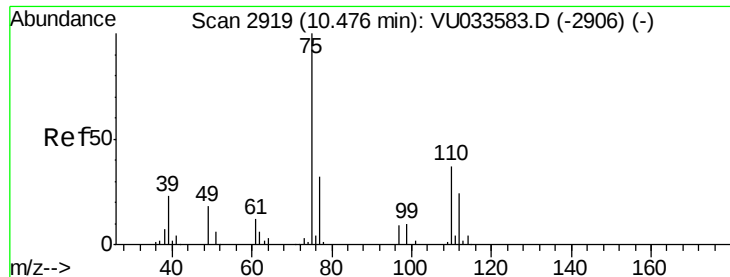


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

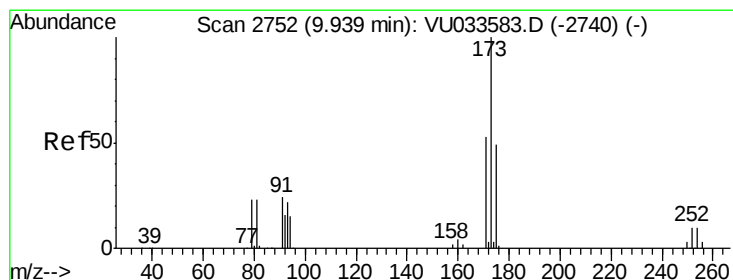
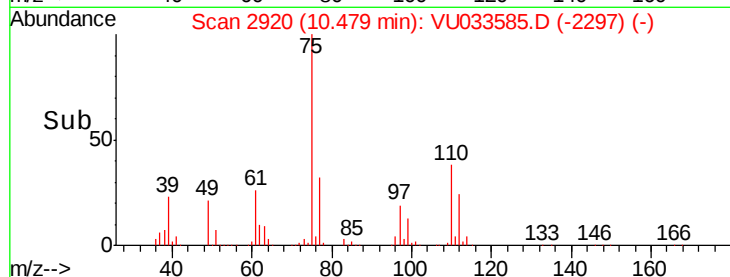
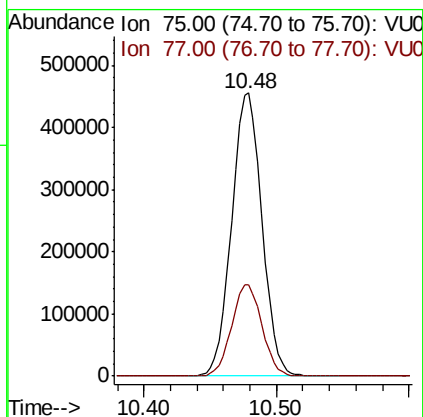
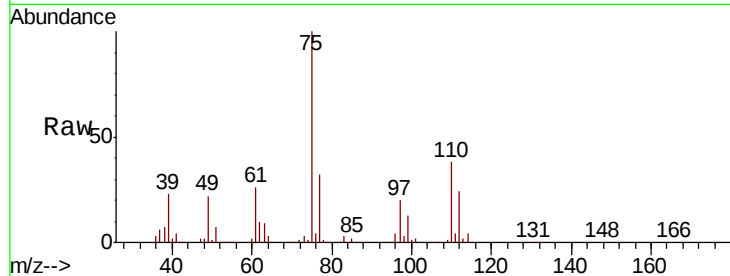




#59
 1,2,3-Trichloropropane
 Concen: 209.549 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

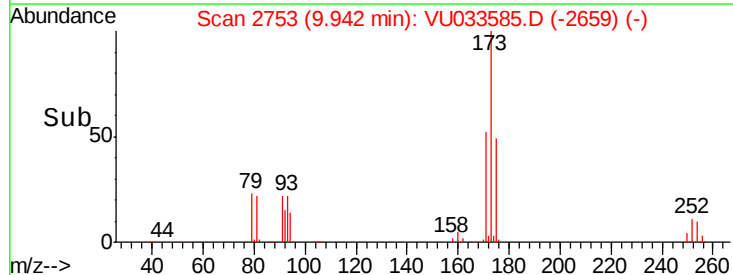
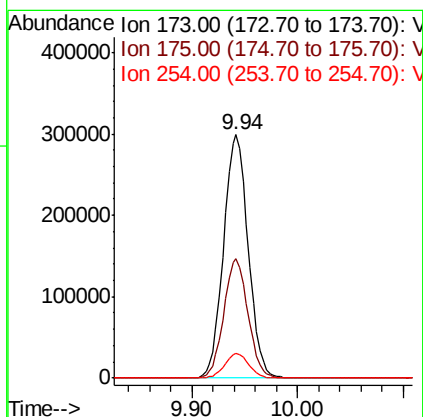
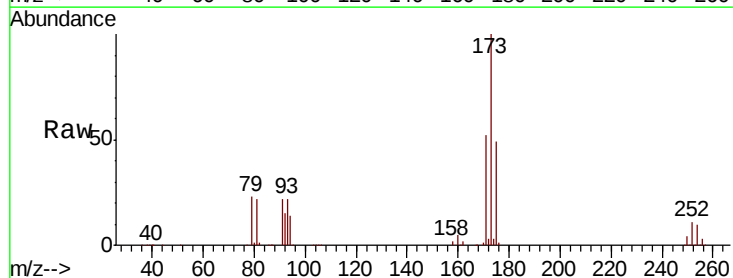
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

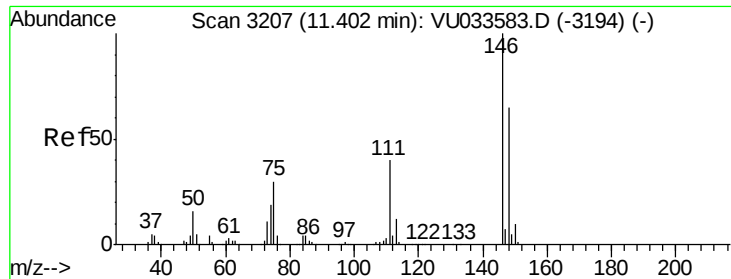
Tgt Ion: 75 Resp: 720633
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.1 37.7



#61
 Bromoform
 Concen: 213.323 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion: 173 Resp: 481461
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.5 59.3
 254 9.9 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 203.059 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampled :

VSTD20033

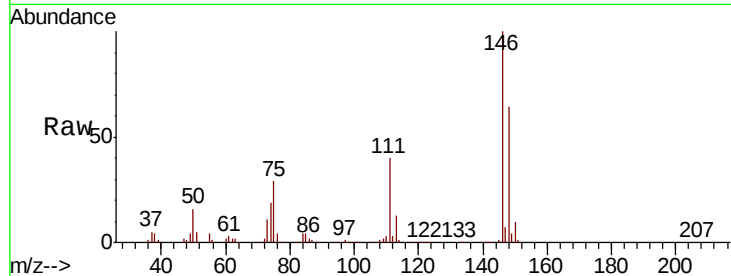
Tgt Ion:146 Resp: 1163230

Ion Ratio Lower Upper

146 100

111 39.5 27.7 51.5

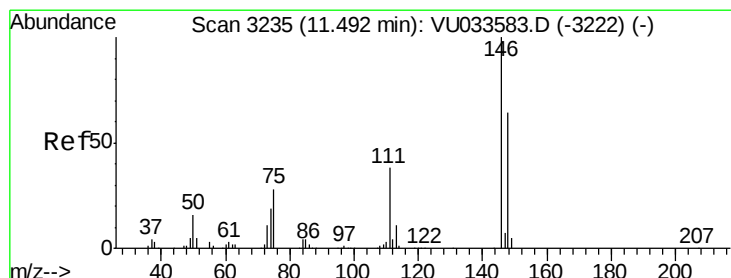
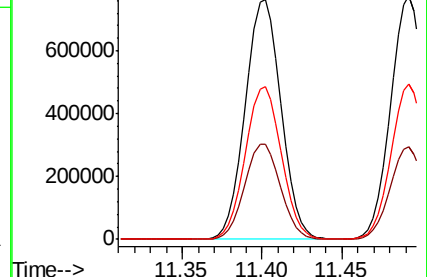
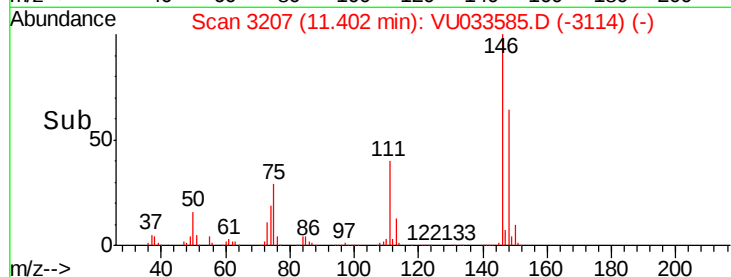
148 63.5 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 198.101 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

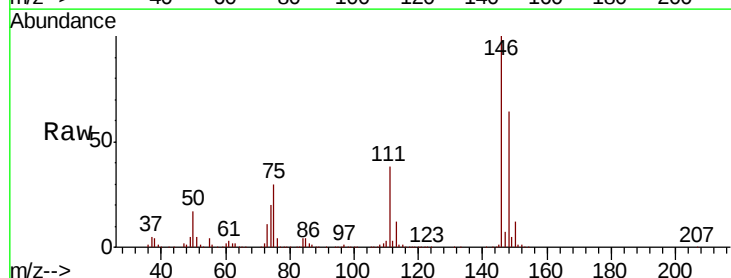
Tgt Ion:146 Resp: 1180868

Ion Ratio Lower Upper

146 100

111 37.9 26.8 49.8

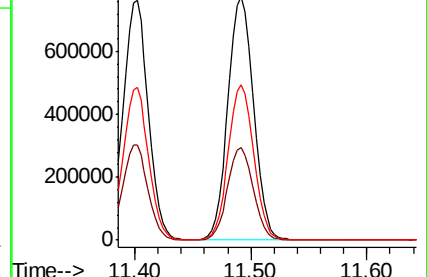
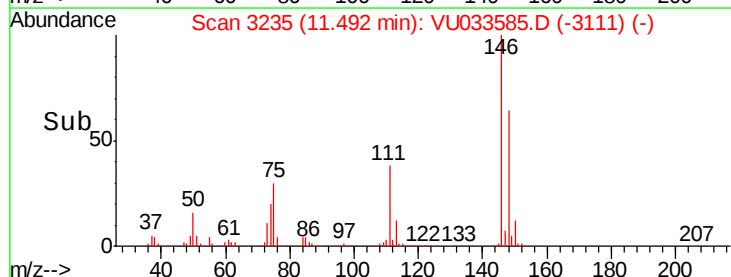
148 63.8 45.0 83.6

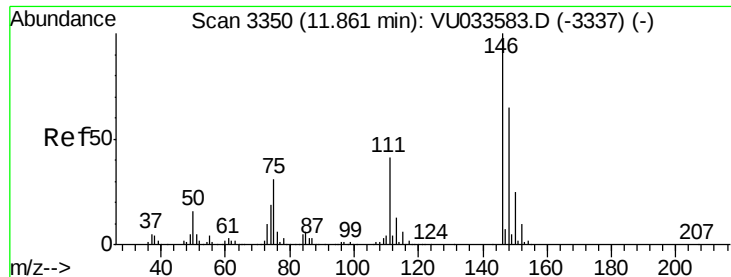


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

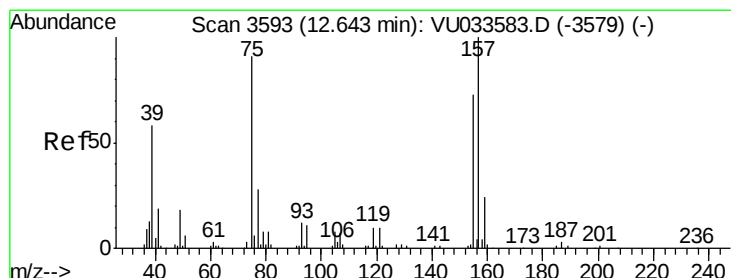
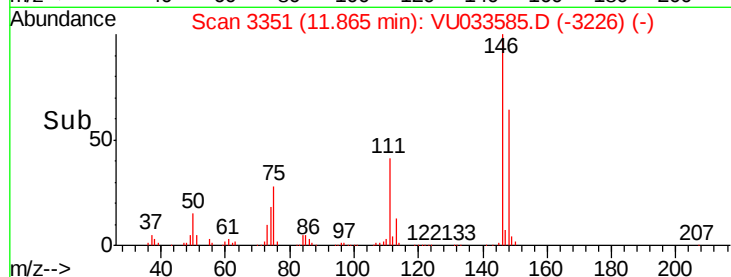
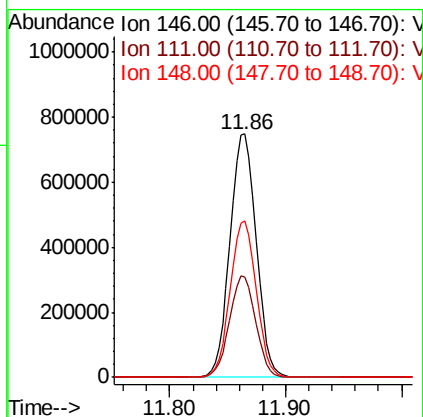
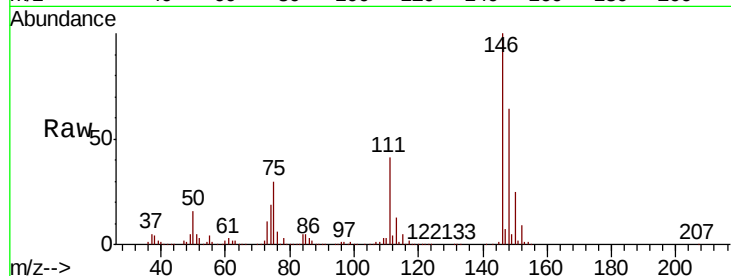




#65
 1,2-Dichlorobenzene
 Concen: 202.141 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

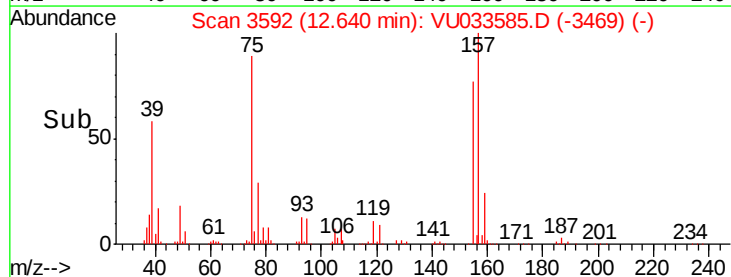
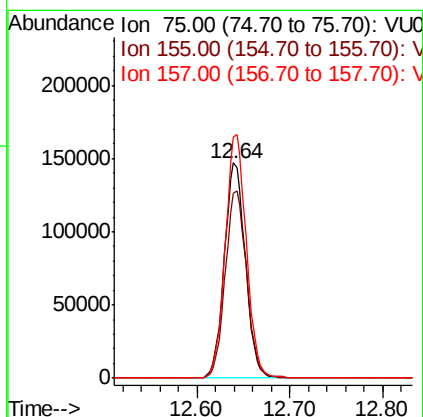
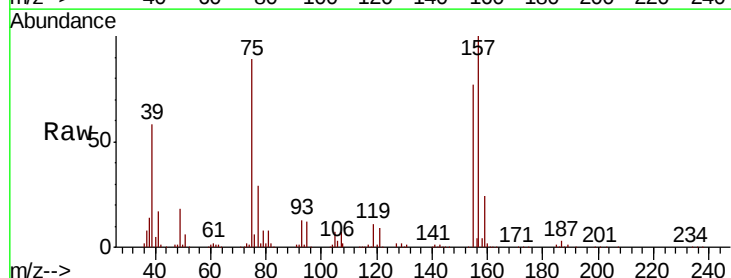
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

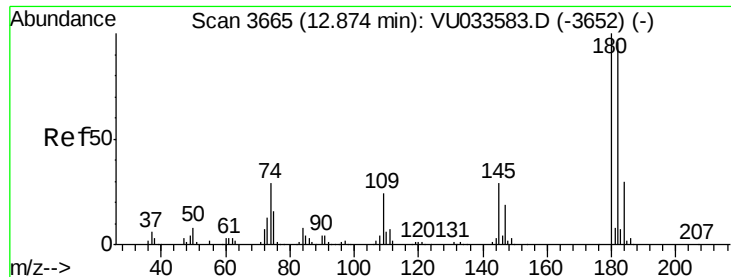
Tgt Ion:146 Resp: 1171100
 Ion Ratio Lower Upper
 146 100
 111 41.4 33.1 49.7
 148 64.3 52.1 78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 214.076 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion: 75 Resp: 232581
 Ion Ratio Lower Upper
 75 100
 155 86.2 64.3 96.5
 157 112.3 88.0 132.0

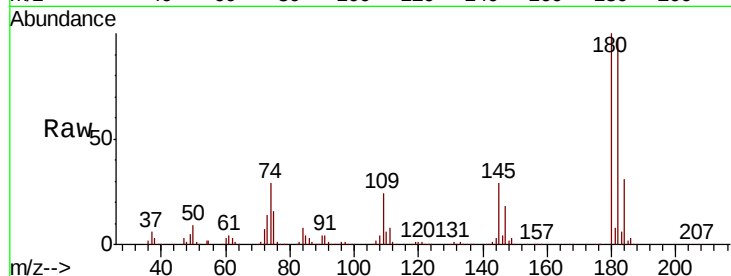




#67
 1,3,5-Trichlorobenzene
 Concen: 203.338 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
184	30.8	23.9	35.9
145	28.9	23.3	34.9



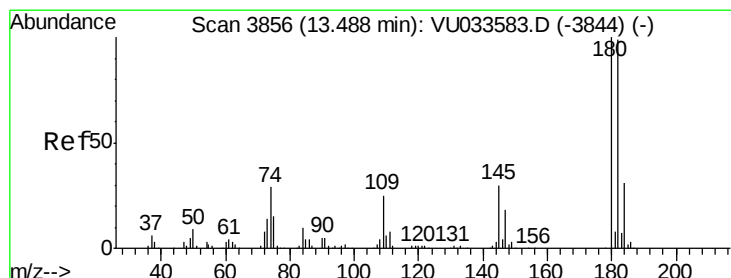
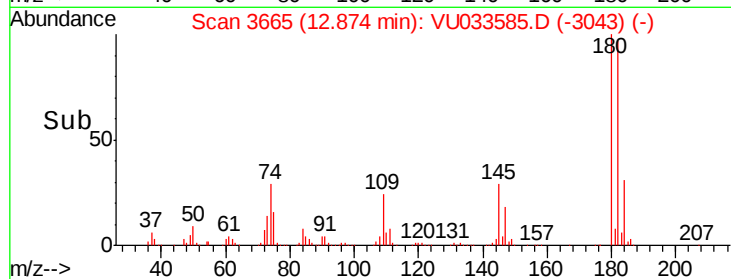
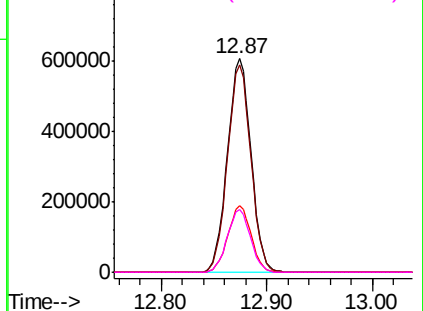
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

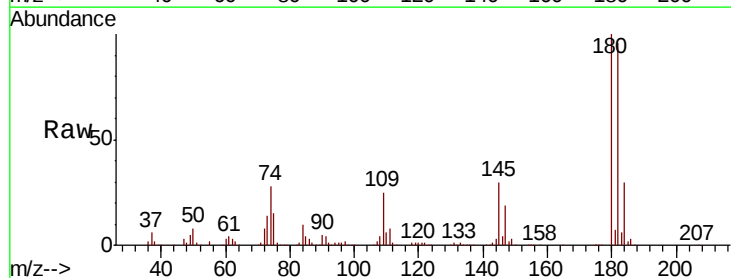
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 220.213 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033585.D
 Acq: 03 Aug 2019 12:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.2	115.8
145	29.3	23.6	35.4

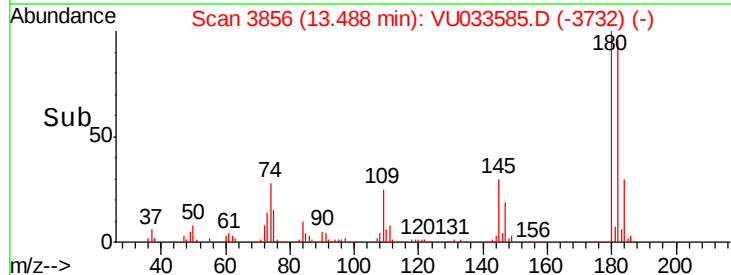
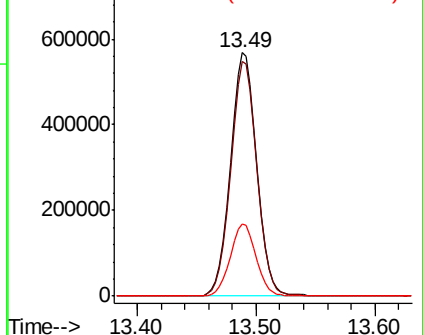


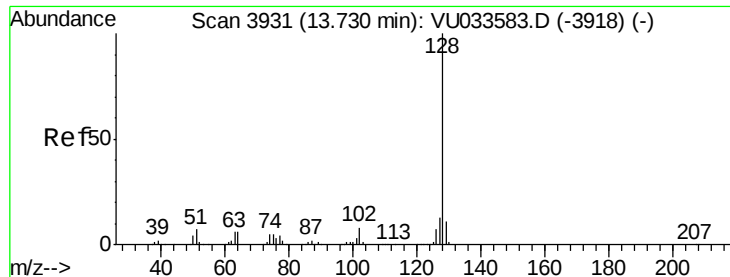
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 231.367 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

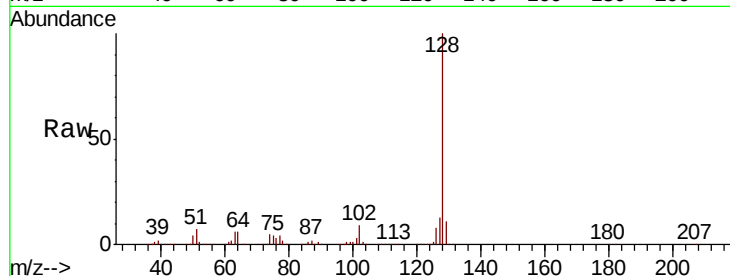
Tgt Ion:128 Resp: 2609146

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

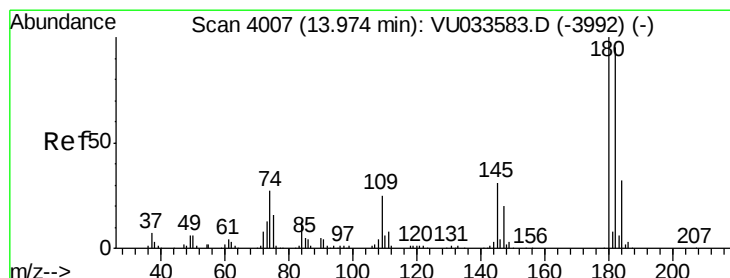
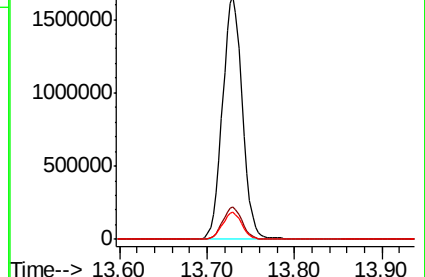
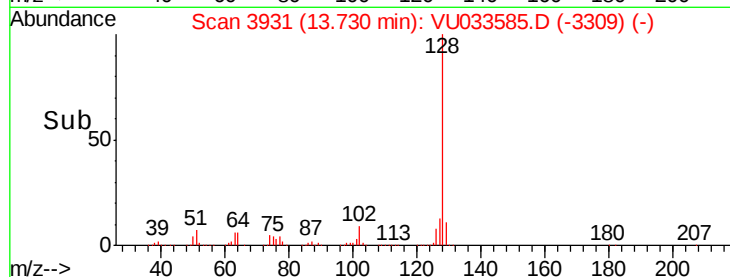
129 10.9 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 209.871 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033585.D

Acq: 03 Aug 2019 12:04

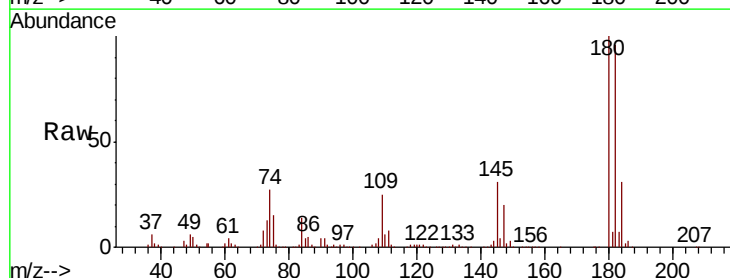
Tgt Ion:180 Resp: 865402

Ion Ratio Lower Upper

180 100

182 95.3 76.5 114.7

145 30.6 24.7 37.1



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

