

Data File : VU032316.D
Acq On : 24 May 2019 17:58
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: May 24 23:38:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052419WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 24 23:32:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	791606	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	779203	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	394265	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	196359	47.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.90%
7) Chloroethane-d5	1.67	69	180094	45.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.70%
11) 1,1-Dichloroethene-d2	2.27	63	417059	50.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.64%
21) 2-Butanone-d5	4.17	46	333814	84.56	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	84.56%
24) Chloroform-d	4.64	84	461161	43.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.42%
26) 1,2-Dichloroethane-d4	5.30	65	272865	41.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.36%
32) Benzene-d6	5.33	84	930870	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.84%
36) 1,2-Dichloropropane-d6	6.32	67	279640	44.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.56%
41) Toluene-d8	7.56	98	901897	49.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.32%
43) trans-1,3-Dichloropropene-	7.85	79	133496	45.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.92%
47) 2-Hexanone-d5	8.31	63	242147	91.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.19%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	448990	42.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.12%
64) 1,2-Dichlorobenzene-d4	11.85	152	386090	46.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	290914	58.890	ug/L	98
3) Chloromethane	1.32	50	273082	44.545	ug/L	97
5) Vinyl chloride	1.40	62	297817	52.357	ug/L	99
6) Bromomethane	1.61	94	205359	44.780	ug/L	99
8) Chloroethane	1.69	64	185536	47.675	ug/L	95
9) Trichlorofluoromethane	1.88	101	406621	56.750	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	244383	58.694	ug/L	98
12) 1,1-Dichloroethene	2.28	96	247482	53.343	ug/L	92
13) Acetone	2.32	43	311236	97.816	ug/L	95
14) Carbon disulfide	2.47	76	701956	50.818	ug/L	100
15) Methyl Acetate	2.61	43	249257	40.138	ug/L	100
16) Methylene chloride	2.69	84	281438	42.514	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	259160	48.005	ug/L	98
18) Methyl tert-butyl Ether	2.99	73	792711	42.644	ug/L	99
19) 1,1-Dichloroethane	3.44	63	448904	45.982	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	292779	45.361	ug/L	94
22) 2-Butanone	4.26	43	382383	88.218	ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	156531	43.871	ug/L	95
25) Chloroform	4.67	83	486960	45.014	ug/L	99
27) 1,2-Dichloroethane	5.40	62	359836	42.571	ug/L	100
29) Cyclohexane	4.99	56	385522	63.235	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	404431	52.459	ug/L	99
31) Carbon tetrachloride	5.13	117	352676	55.895	ug/L	100
33) Benzene	5.38	78	1075079	48.277	ug/L	100
34) Trichloroethene	6.18	95	284737	51.649	ug/L	98
35) Methylcyclohexane	6.41	83	424493	63.556	ug/L	99
37) 1,2-Dichloropropane	6.43	63	266013	45.937	ug/L	100
38) Bromodichloromethane	6.75	83	360768	44.882	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	423146	49.767	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	681102	85.518	ug/L	100
42) Toluene	7.63	91	1207599	51.454	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	368045	49.003	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	285479	44.542	ug/L	97
46) Tetrachloroethene	8.22	164	233210	56.317	ug/L	97
48) 2-Hexanone	8.36	43	573078	91.674	ug/L	100
49) Dibromochloromethane	8.47	129	304100	44.850	ug/L	99
50) 1,2-Dibromoethane	8.58	107	300219	43.573	ug/L	97
51) Chlorobenzene	9.12	112	769853	48.940	ug/L	99
52) Ethylbenzene	9.24	91	1297535	54.398	ug/L	99
53) m,p-Xylene	9.37	106	514773	55.913	ug/L	100
54) o-xylene	9.77	106	517059	53.855	ug/L	98
55) Styrene	9.79	104	895602	54.361	ug/L	97
56) Isopropylbenzene	10.16	105	1300733	58.013	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	471560	43.254	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	362177	42.208	ug/L	99
61) Bromoform	9.95	173	238581	40.533	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	619193	49.317	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	636322	48.764	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	645049	47.233	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	99286	39.971	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	478332	53.744	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	388481	55.280	ug/L	99
69) Naphthalene	13.74	128	1244978	50.672	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	422079	52.164	ug/L	99

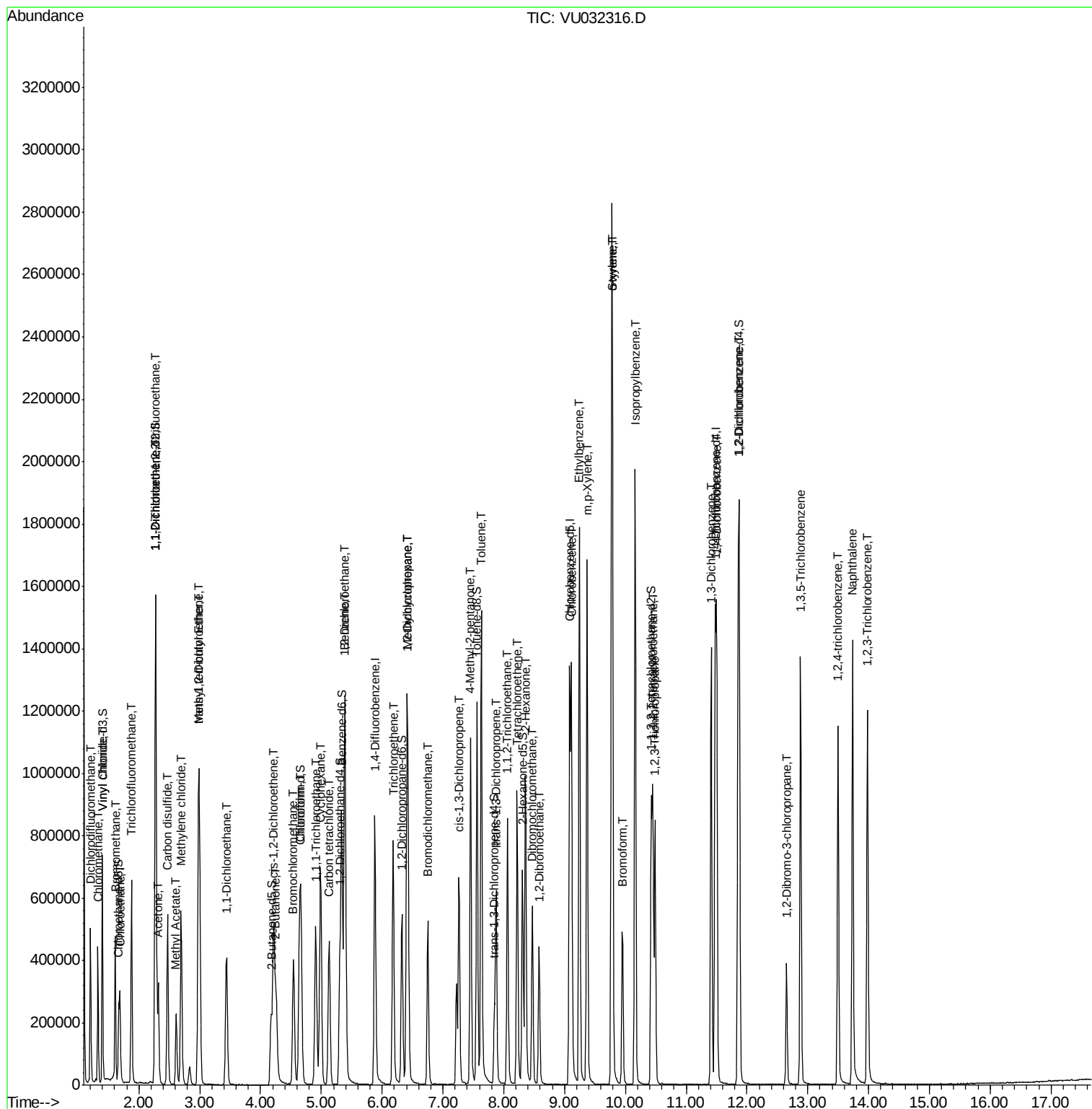
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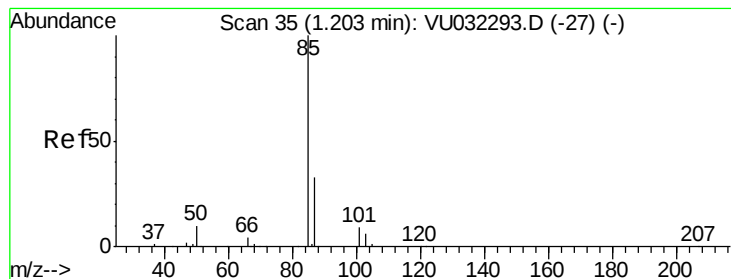
Data File : VU032316.D

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#2

Dichlorodifluoromethane

Concen: 58.890 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

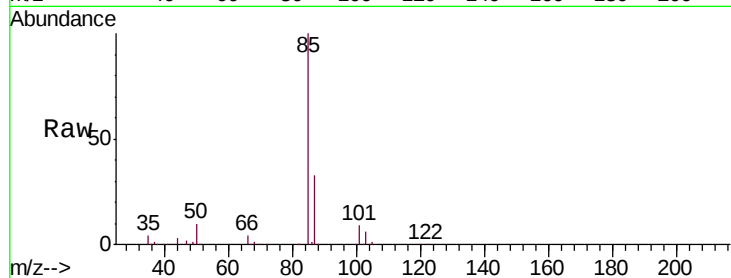
VSTD05051

Tgt Ion: 85 Resp: 290914

Ion Ratio Lower Upper

85 100

87 32.9 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VU032293.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032293.D (-27) (-)

1.20

300000

250000

200000

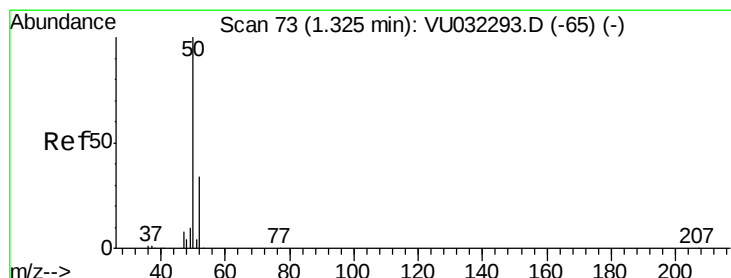
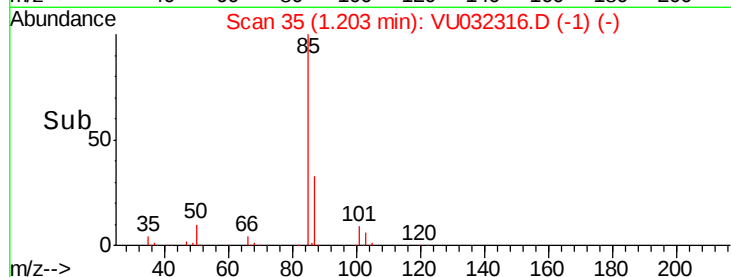
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 44.545 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032316.D

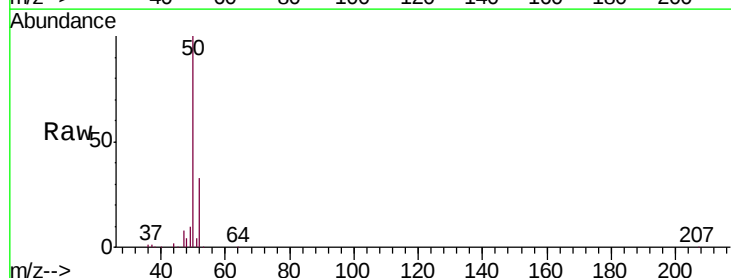
Acq: 24 May 2019 17:58

Tgt Ion: 50 Resp: 273082

Ion Ratio Lower Upper

50 100

52 33.1 24.2 45.0



Abundance Ion 50.00 (49.70 to 50.70): VU032293.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032293.D (-65) (-)

1.32

300000

250000

200000

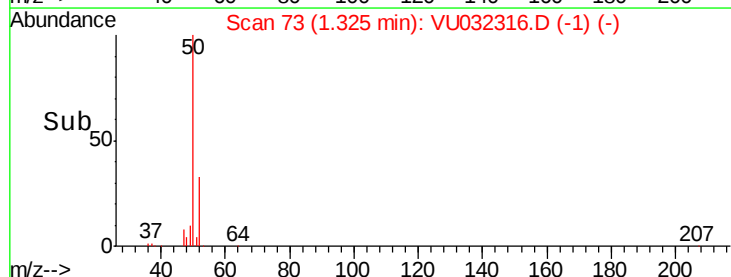
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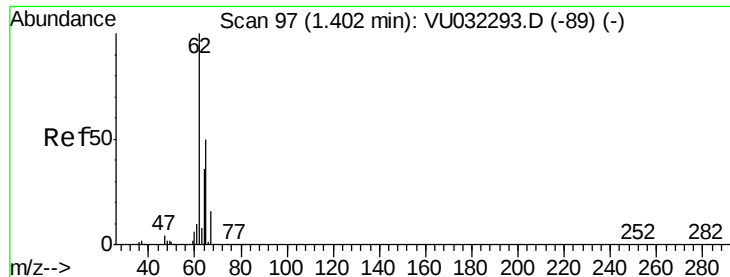
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.357 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

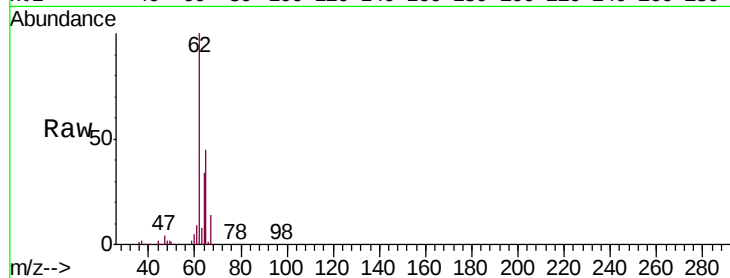
VSTD05051

Tgt Ion: 62 Resp: 297817

Ion Ratio Lower Upper

62 100

64 33.5 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU032293.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032293.D (-89) (-)

1.40

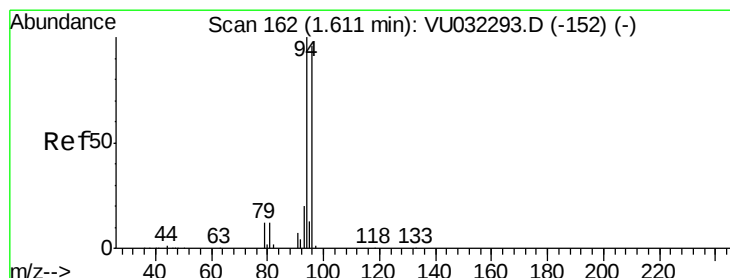
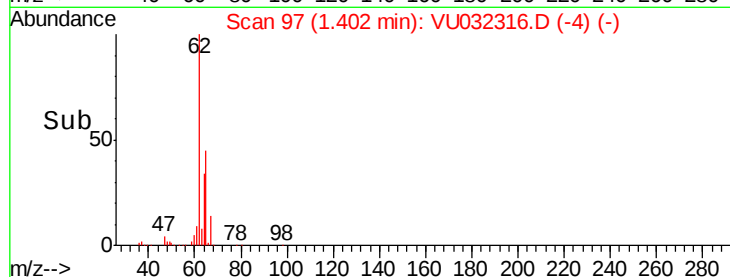
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 44.780 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU032316.D

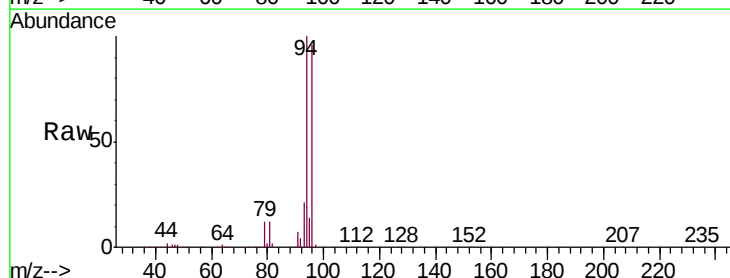
Acq: 24 May 2019 17:58

Tgt Ion: 94 Resp: 205359

Ion Ratio Lower Upper

94 100

96 95.6 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU032293.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032293.D (-152) (-)

1.61

200000

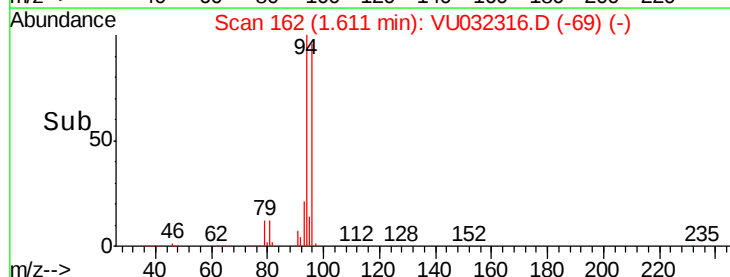
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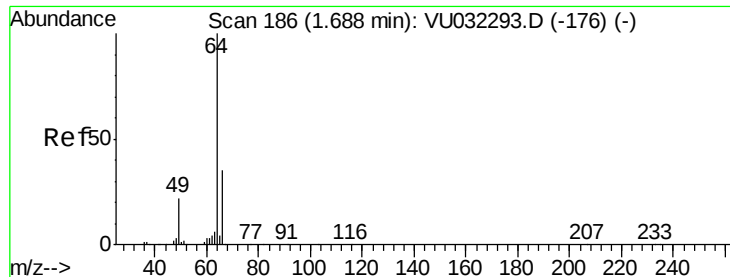
100000

50000

0

Time-->





#8

Chloroethane

Concen: 47.675 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

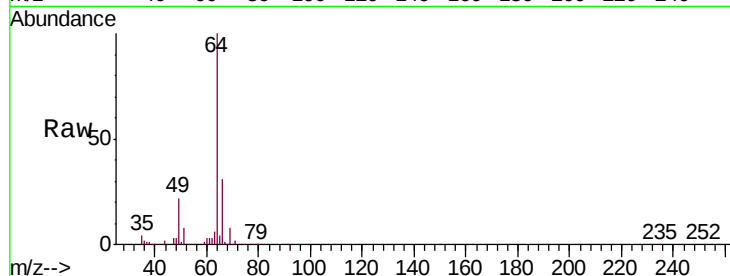
VSTD05051

Tgt Ion: 64 Resp: 185536

Ion Ratio Lower Upper

64 100

66 30.5 23.4 43.6



Abundance Ion 64.00 (63.70 to 64.70): VU032316.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU032316.D (-176) (-)

1.69

150000

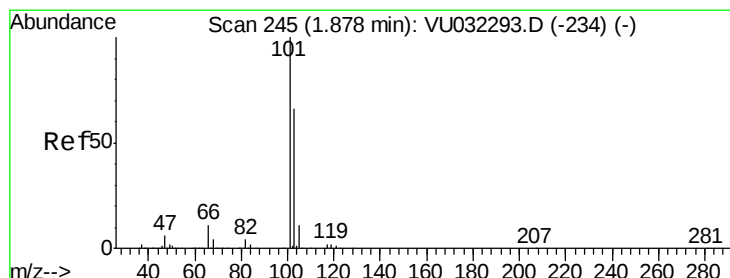
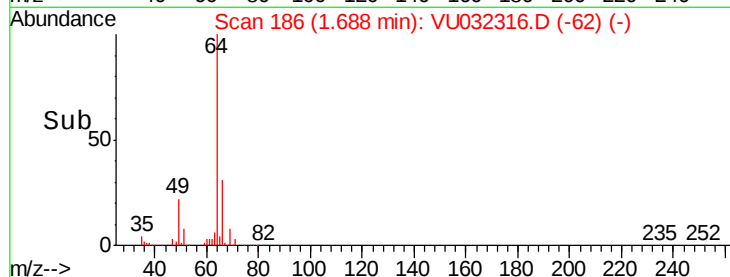
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 56.750 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU032316.D

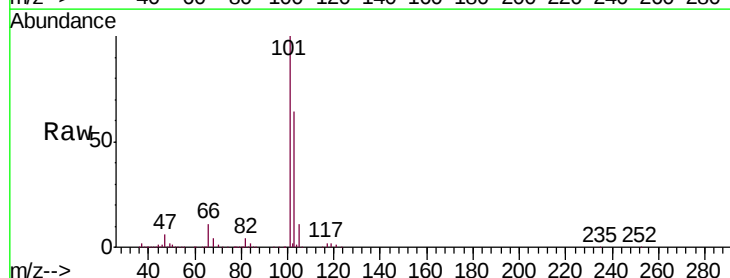
Acq: 24 May 2019 17:58

Tgt Ion: 101 Resp: 406621

Ion Ratio Lower Upper

101 100

103 65.0 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): VU032316.D (-121) (-)

Ion 103.00 (102.70 to 103.70): VU032316.D (-121) (-)

1.88

300000

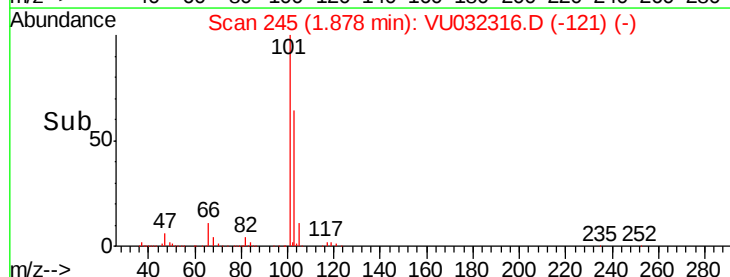
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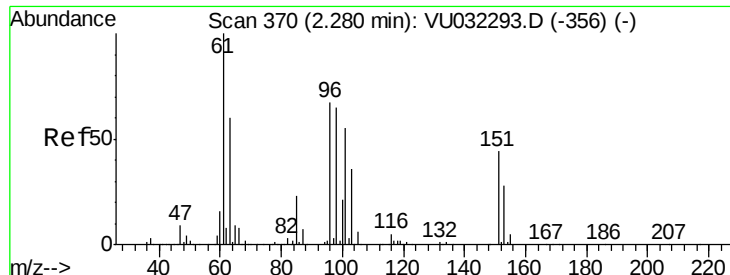
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 58.694 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

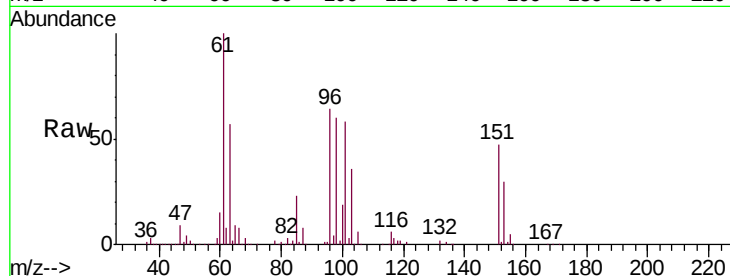
Tgt Ion:101 Resp: 244383

Ion Ratio Lower Upper

101 100

85 40.5 32.8 49.2

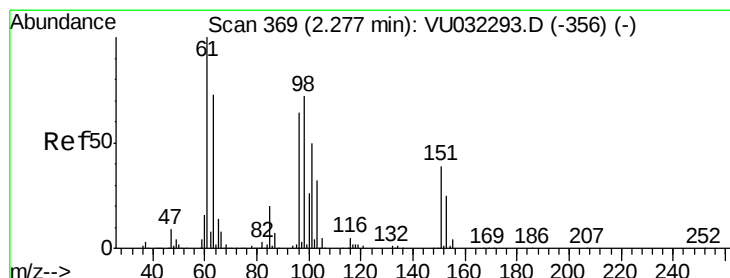
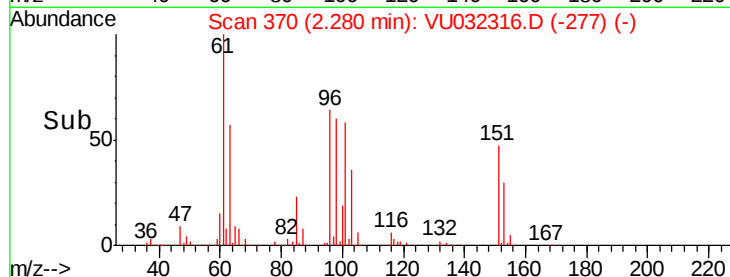
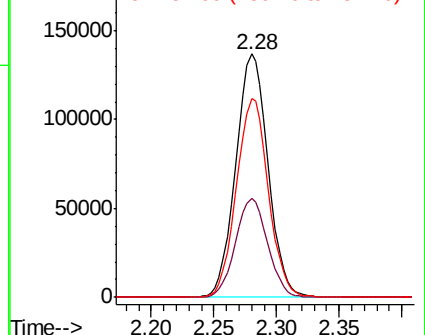
151 81.1 63.5 95.3



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: 53.343 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

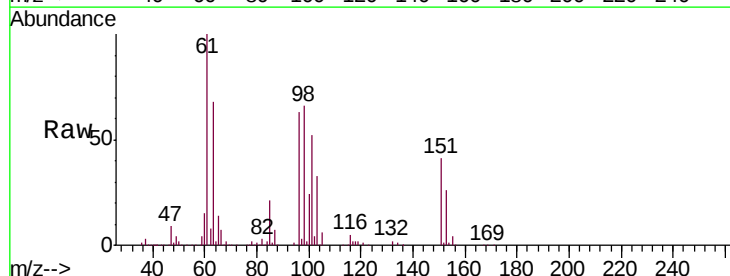
Tgt Ion: 96 Resp: 247482

Ion Ratio Lower Upper

96 100

61 159.8 108.0 200.6

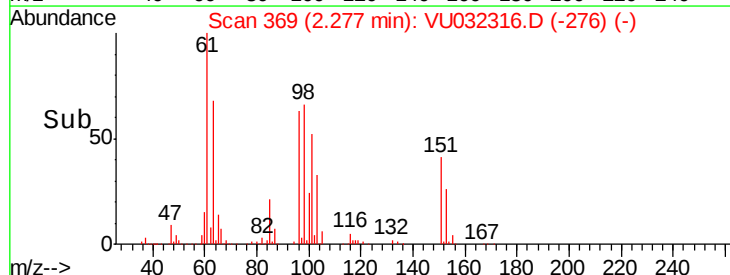
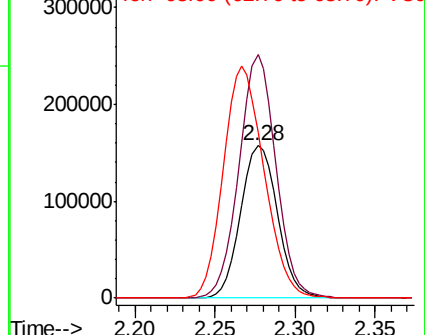
63 108.4 85.5 158.7

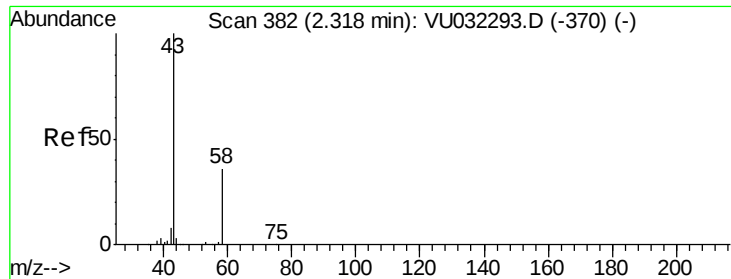


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 97.816 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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ClientSampleId :

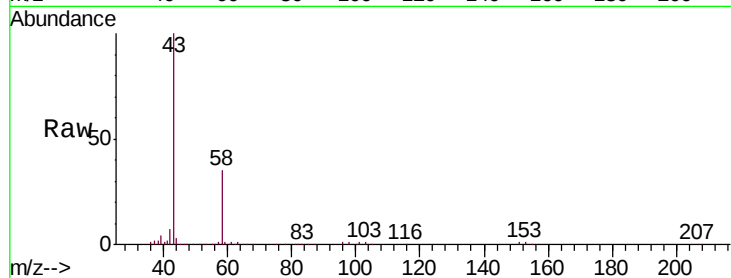
VSTD05051

Tgt Ion: 43 Resp: 311236

Ion Ratio Lower Upper

43 100

58 35.6 0.0 77.2



Abundance Ion 43.00 (42.70 to 43.70): VU032293.D (-370) (-)

Ion 58.00 (57.70 to 58.70): VU032293.D (-370) (-)

2.32

200000

150000

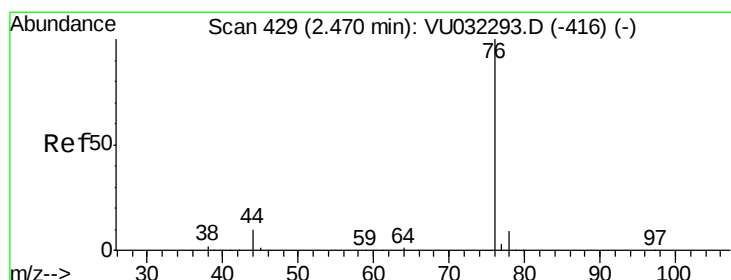
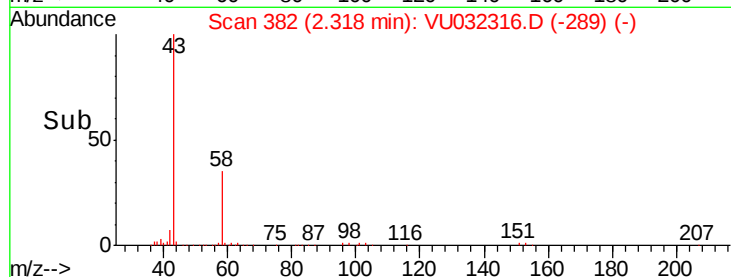
100000

50000

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 50.818 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032316.D

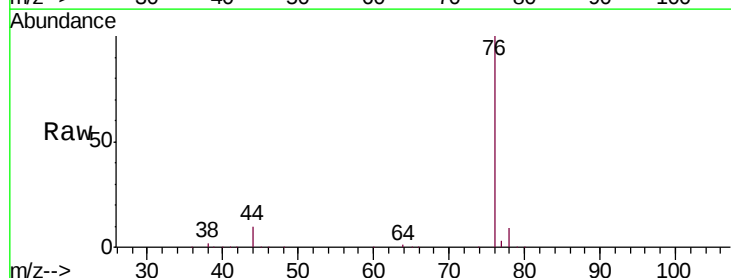
Acq: 24 May 2019 17:58

Tgt Ion: 76 Resp: 701956

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU032293.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032293.D (-416) (-)

2.47

500000

400000

300000

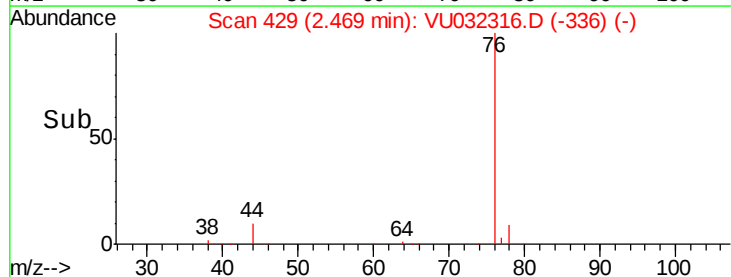
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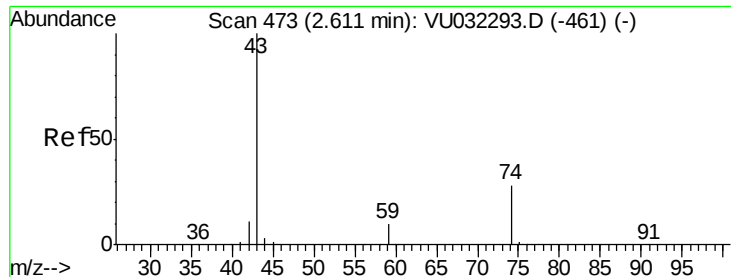
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2.40 2.45 2.50 2.55 2.60

Time-->

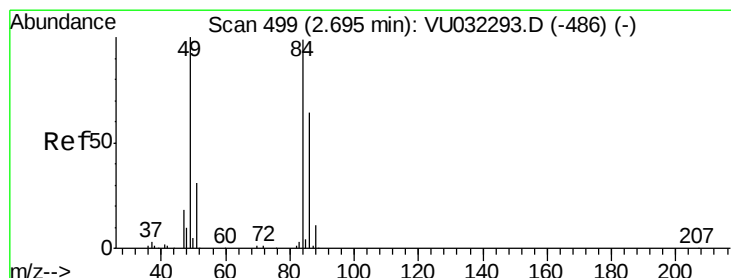
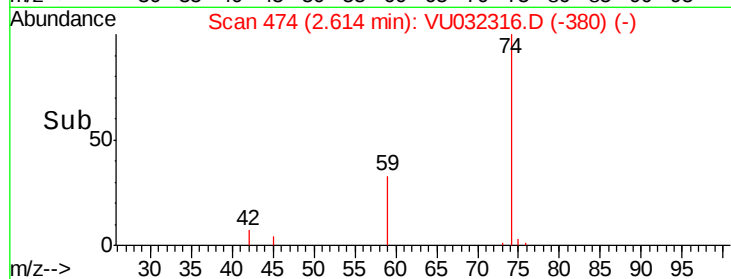
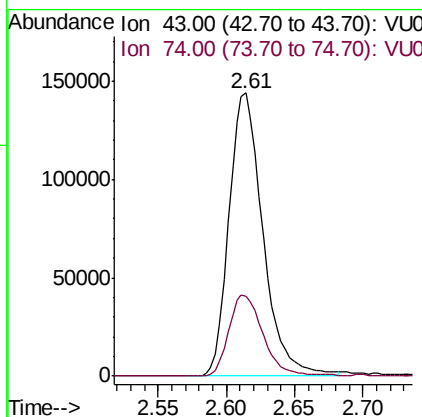
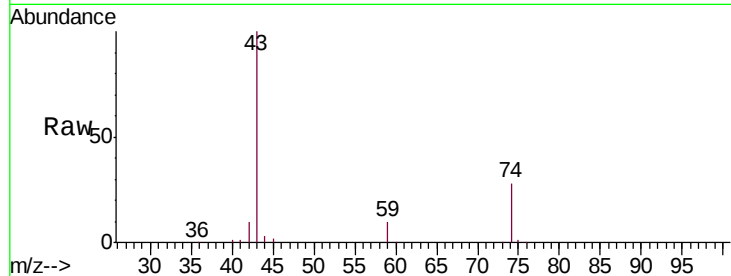




#15
Methyl Acetate
Concen: 40.138 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

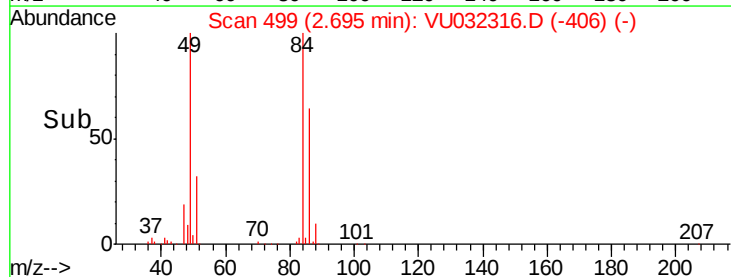
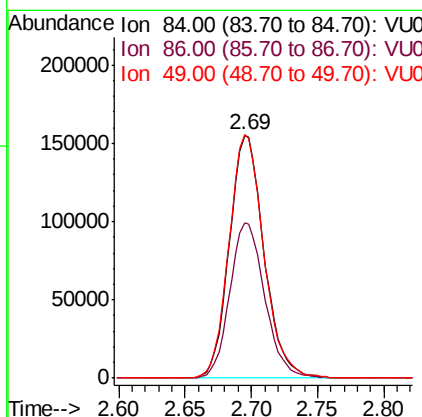
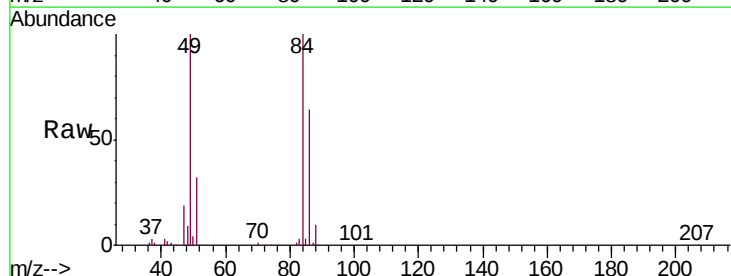
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

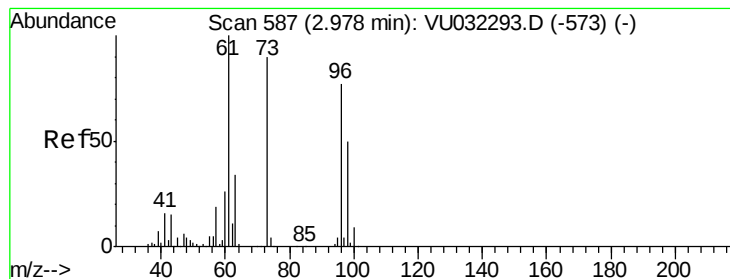
Tgt Ion: 43 Resp: 249257
Ion Ratio Lower Upper
43 100
74 29.1 23.1 34.7



#16
Methylene chloride
Concen: 42.514 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

Tgt Ion: 84 Resp: 281438
Ion Ratio Lower Upper
84 100
86 64.2 45.7 84.9
49 100.4 70.0 130.0





#17

trans-1,2-Dichloroethene

Concen: 48.005 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

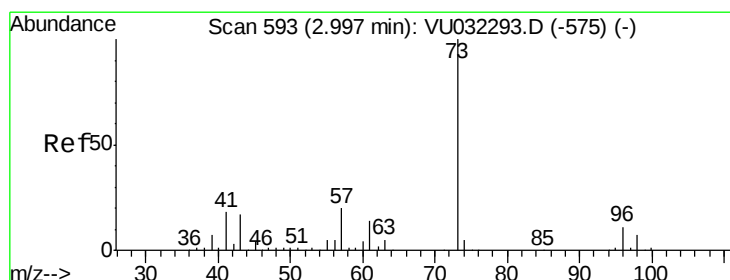
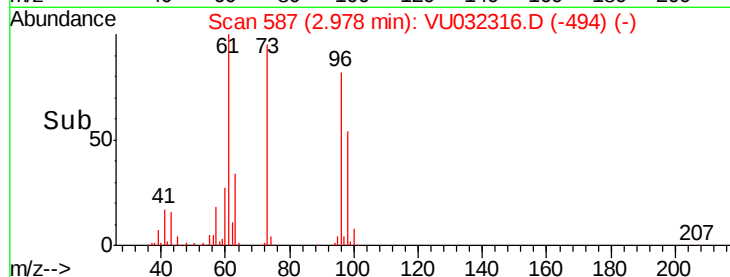
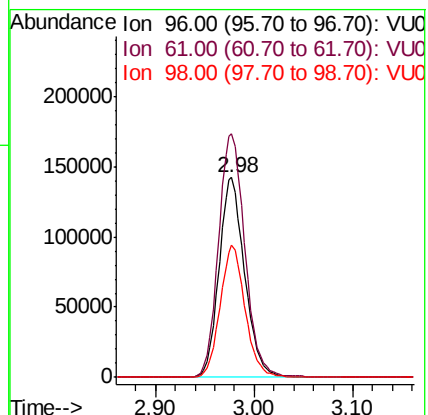
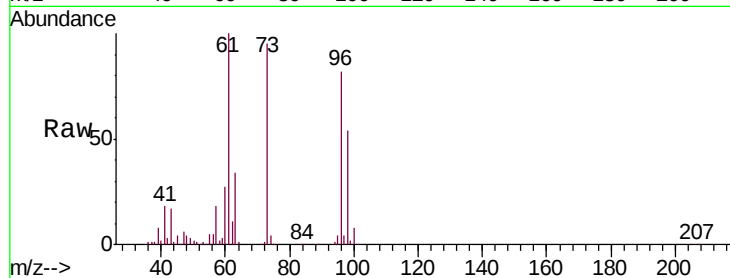
Tgt Ion: 96 Resp: 259160

Ion Ratio Lower Upper

96 100

61 121.9 86.5 160.7

98 66.0 44.2 82.0



#18

Methyl tert-butyl Ether

Concen: 42.644 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

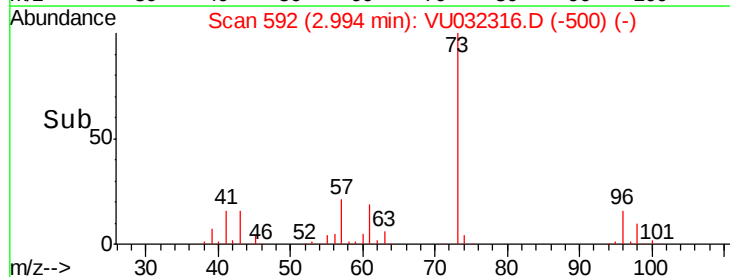
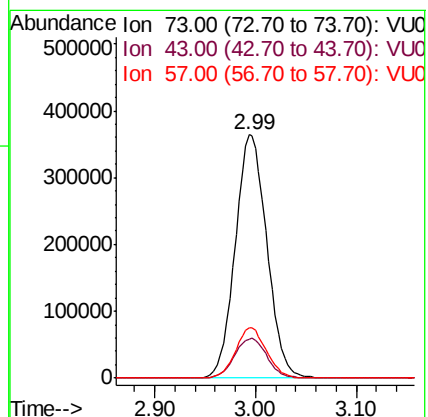
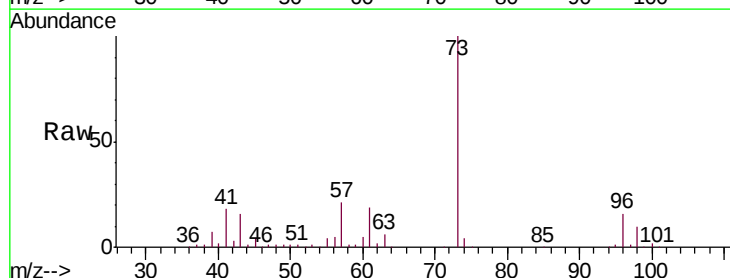
Tgt Ion: 73 Resp: 792711

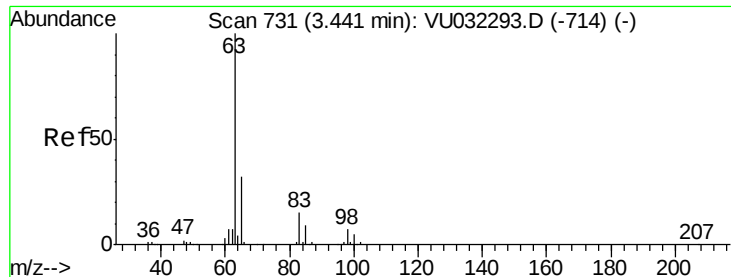
Ion Ratio Lower Upper

73 100

43 16.7 13.2 19.8

57 20.1 16.5 24.7

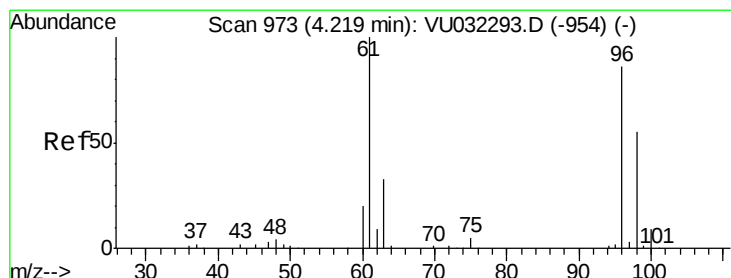
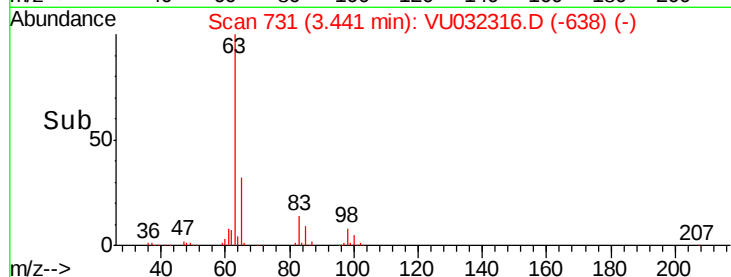
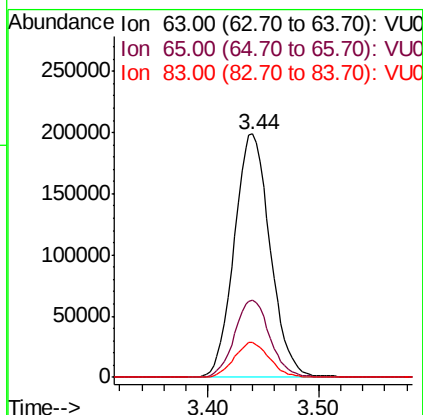
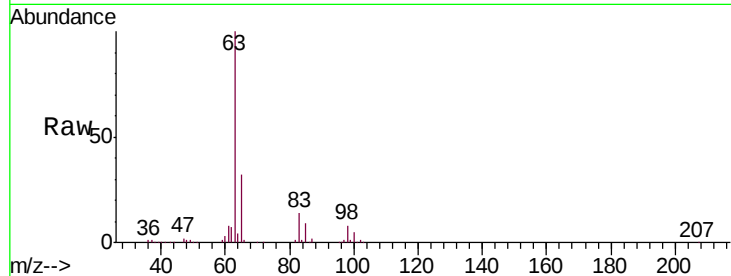




#19
 1,1-Dichloroethane
 Concen: 45.982 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

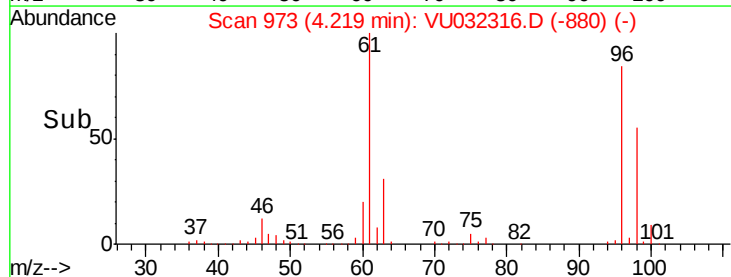
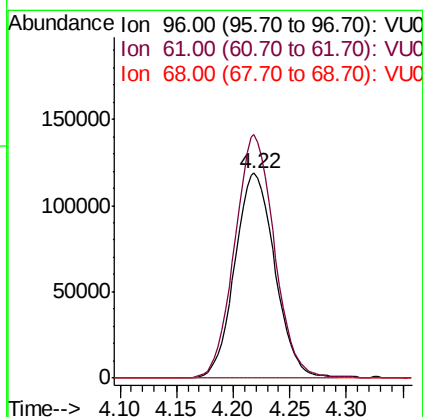
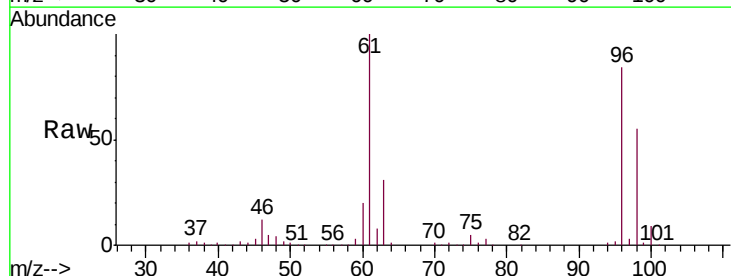
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

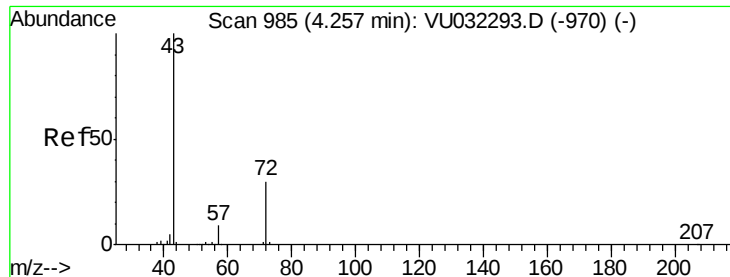
Tgt Ion: 63 Resp: 448904
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.6 40.0
 83 14.2 10.3 19.1



#20
 cis-1,2-Dichloroethene
 Concen: 45.361 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion: 96 Resp: 292779
 Ion Ratio Lower Upper
 96 100
 61 118.8 78.5 145.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.218 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampled :

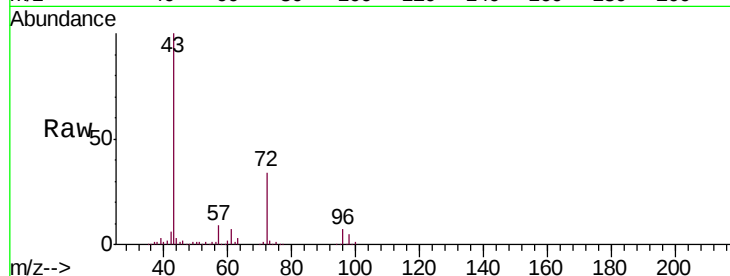
VSTD05051

Tgt Ion: 43 Resp: 382383

Ion Ratio Lower Upper

43 100

72 35.1 16.6 49.7



Abundance Ion 43.00 (42.70 to 43.70): VU032293.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU032293.D (-970) (-)

4.26

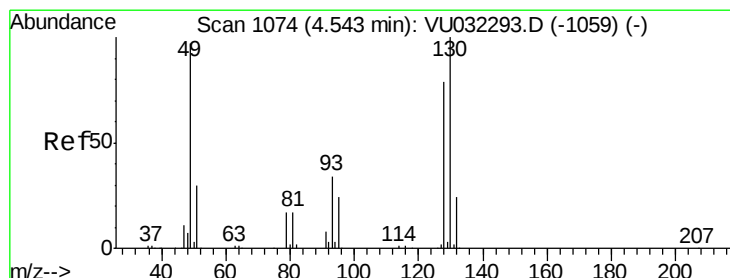
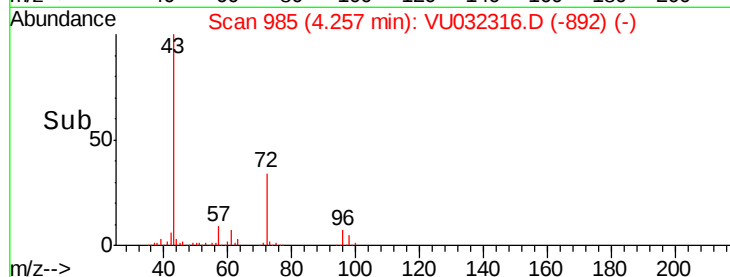
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 43.871 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Tgt Ion: 128 Resp: 156531

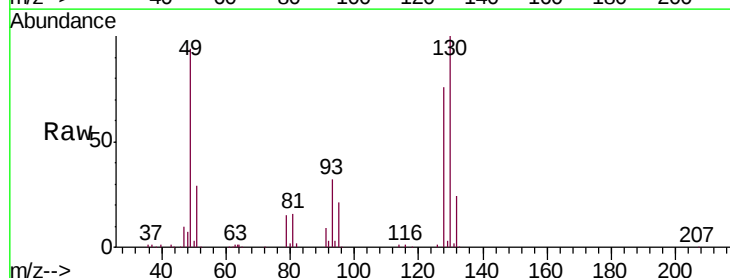
Ion Ratio Lower Upper

128 100

49 122.5 89.5 166.1

130 130.8 87.4 162.2

51 38.2 31.6 47.4



Abundance Ion 128.00 (127.70 to 128.70): VU032293.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032293.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032293.D (-1059) (-)

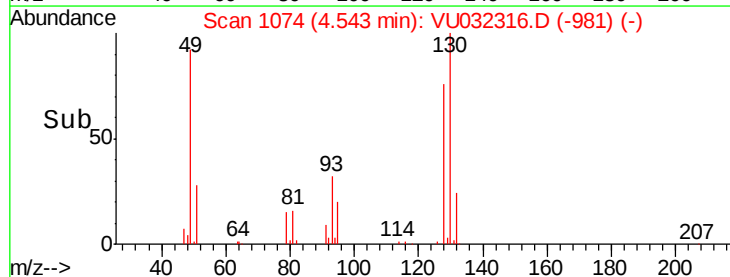
Ion 51.00 (50.70 to 51.70): VU032293.D (-1059) (-)

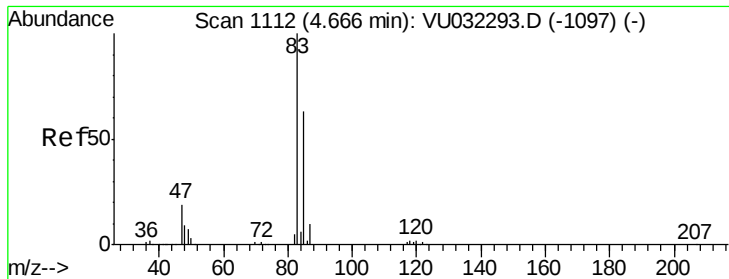
100000

50000

0

Time-->





#25

Chloroform

Concen: 45.014 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

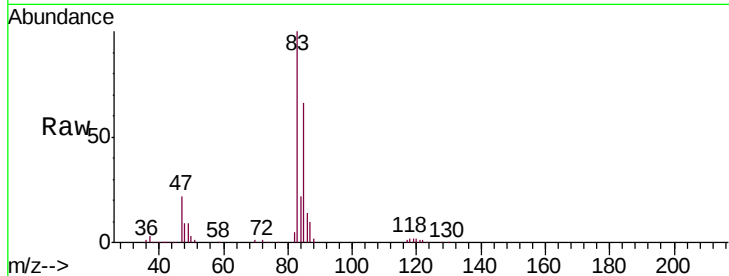
VSTD05051

Tgt Ion: 83 Resp: 486960

Ion Ratio Lower Upper

83 100

85 66.5 46.8 87.0



Abundance Ion 83.00 (82.70 to 83.70): VU032293.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU032293.D (-1097) (-)

4.67

200000

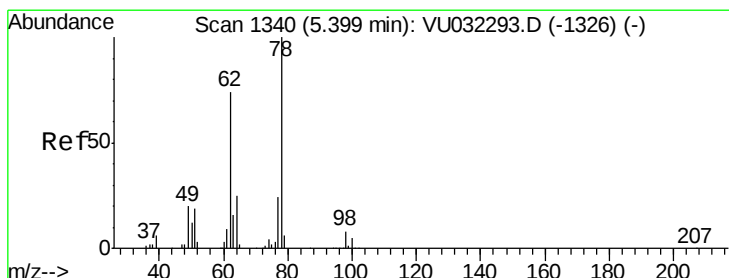
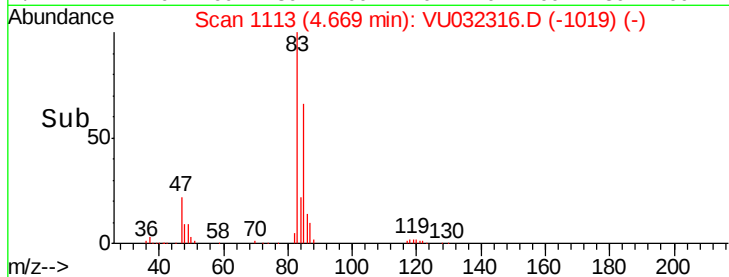
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 42.571 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU032316.D

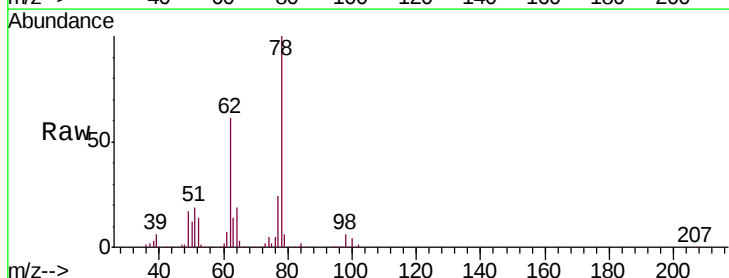
Acq: 24 May 2019 17:58

Tgt Ion: 62 Resp: 359836

Ion Ratio Lower Upper

62 100

98 9.9 7.9 11.9



Abundance Ion 62.00 (61.70 to 62.70): VU032293.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU032293.D (-1326) (-)

5.40

200000

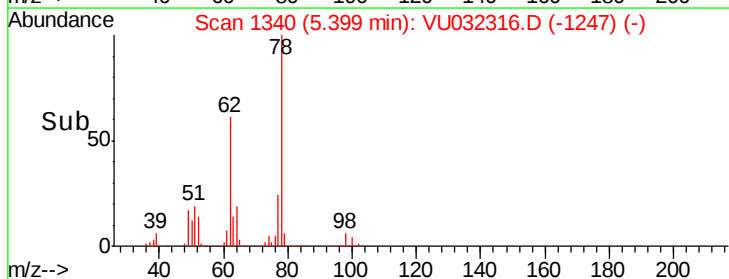
150000

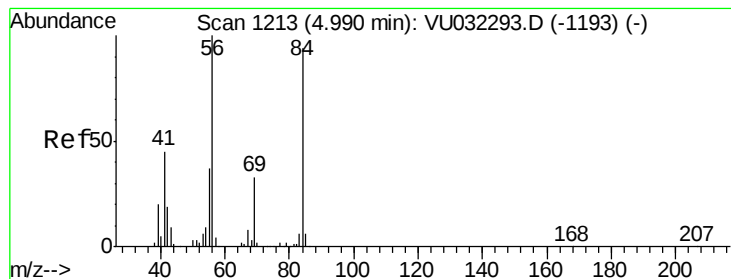
100000

50000

0

Time-->





#29

Cyclohexane

Concen: 63.235 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

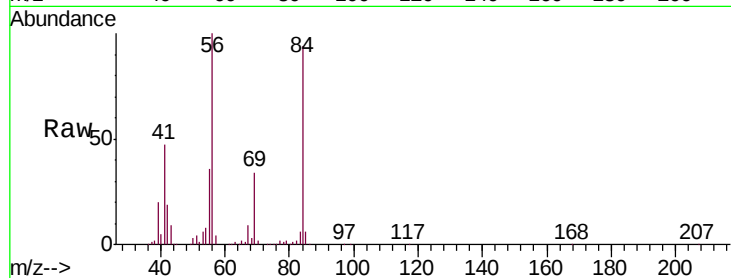
Tgt Ion: 56 Resp: 385522

Ion Ratio Lower Upper

56 100

69 33.0 26.6 40.0

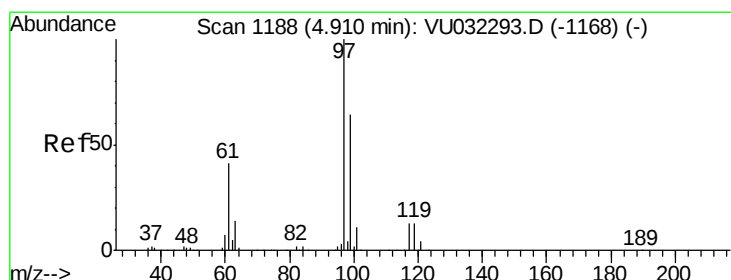
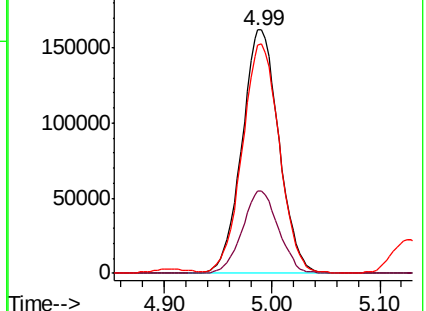
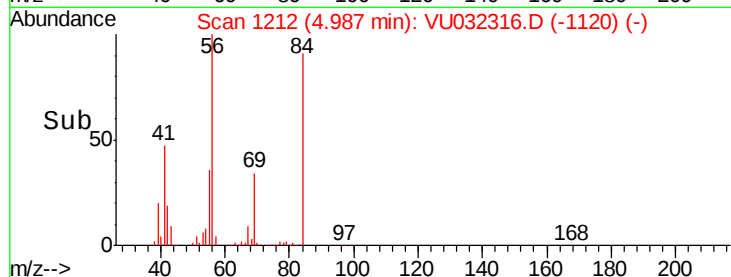
84 94.2 73.8 110.8



Abundance Ion 56.00 (55.70 to 56.70): VU032316.D (-1120) (-)

Ion 69.00 (68.70 to 69.70): VU032316.D (-1120) (-)

Ion 84.00 (83.70 to 84.70): VU032316.D (-1120) (-)



#30

1,1,1-Trichloroethane

Concen: 52.459 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

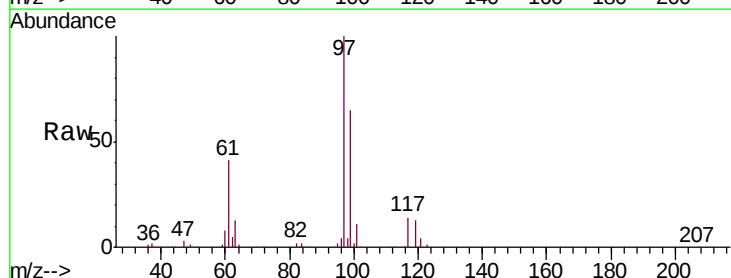
Tgt Ion: 97 Resp: 404431

Ion Ratio Lower Upper

97 100

99 64.7 51.2 76.8

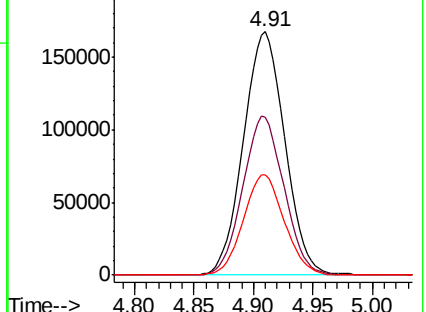
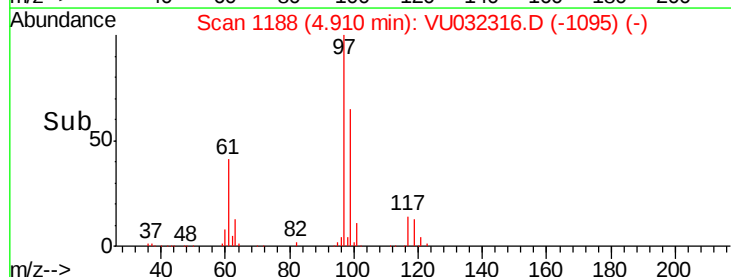
61 40.7 32.2 48.4

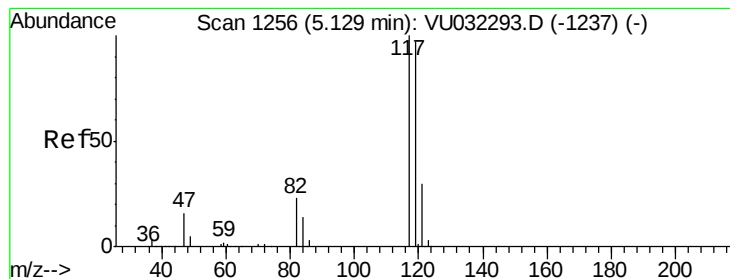


Abundance Ion 97.00 (96.70 to 97.70): VU032316.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU032316.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU032316.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 55.895 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

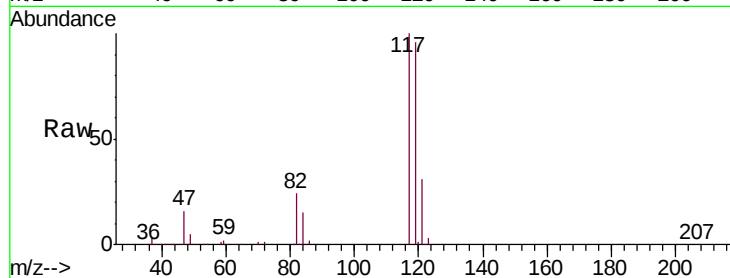
VSTD05051

Tgt Ion:117 Resp: 352676

Ion Ratio Lower Upper

117 100

119 97.0 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

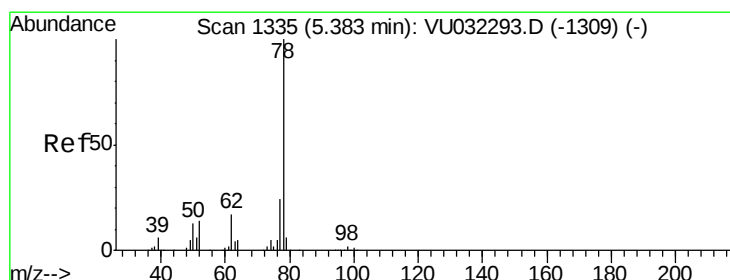
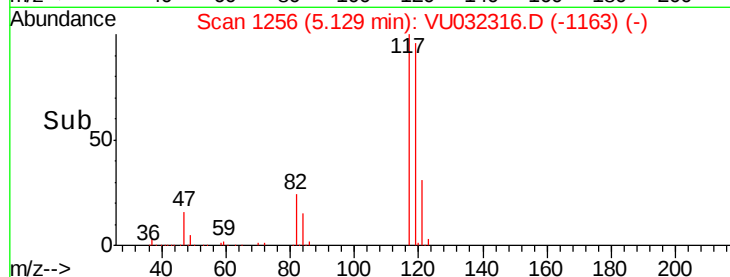
100000

50000

0

5.05 5.10 5.15 5.20

Time-->



#33

Benzene

Concen: 48.277 ug/L

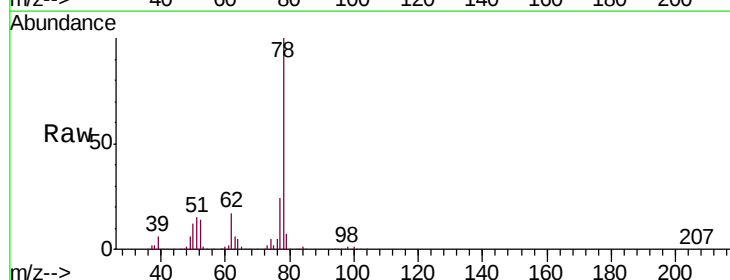
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Tgt Ion: 78 Resp: 1075079



Abundance Ion 78.00 (77.70 to 78.70): VU0

600000

500000

400000

300000

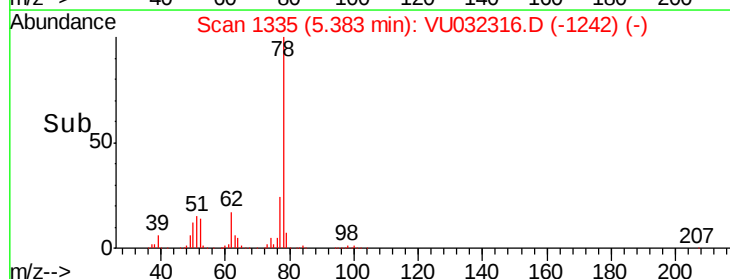
200000

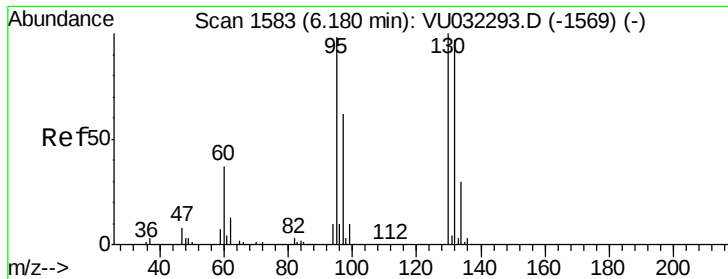
100000

0

5.30 5.40 5.50

Time-->

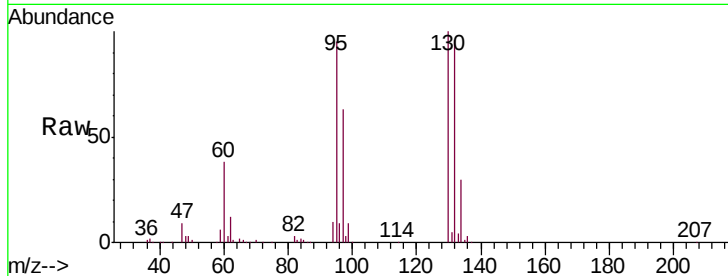




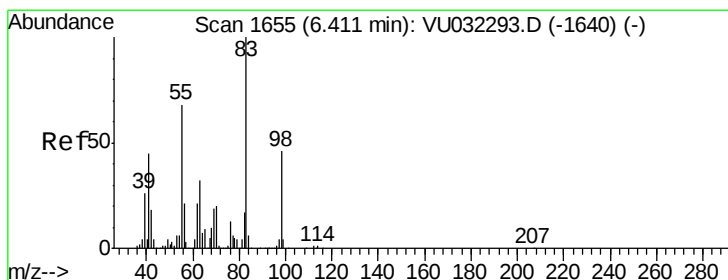
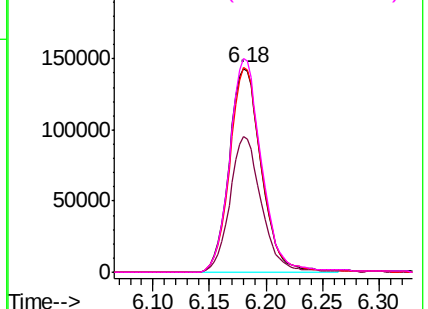
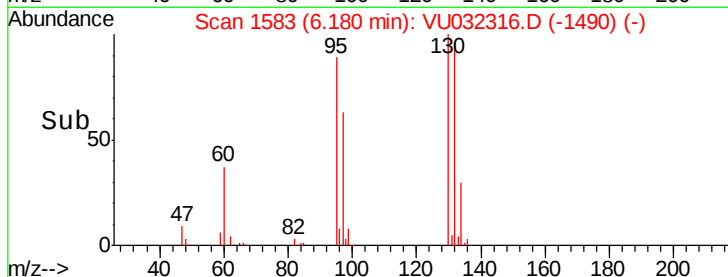
#34
 Trichloroethene
 Concen: 51.649 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:	95	Resp:	284737
Ion	Ratio	Lower	Upper
95	100		
97	66.5	45.3	84.1
132	100.2	68.0	126.2
130	104.8	73.2	136.0

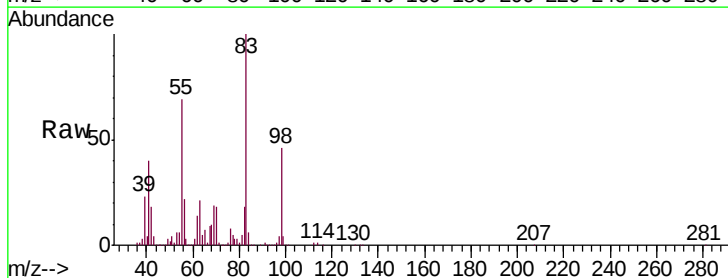


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

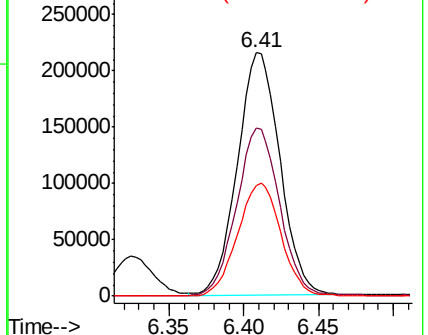
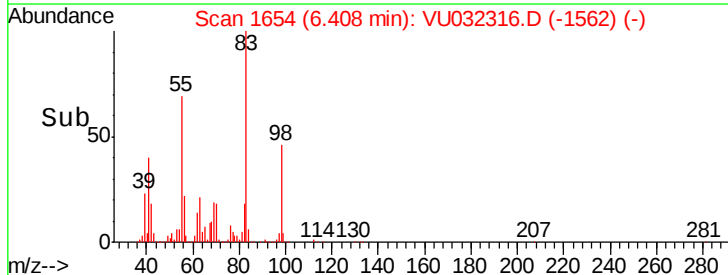


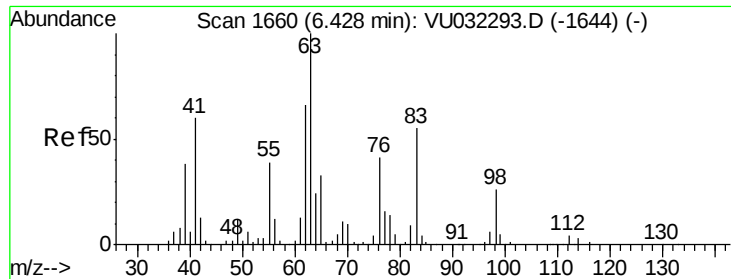
#35
 Methylcyclohexane
 Concen: 63.556 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion:	83	Resp:	424493
Ion	Ratio	Lower	Upper
83	100		
55	70.5	56.1	84.1
98	47.5	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

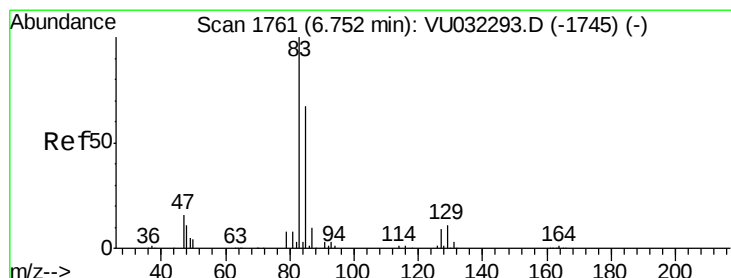
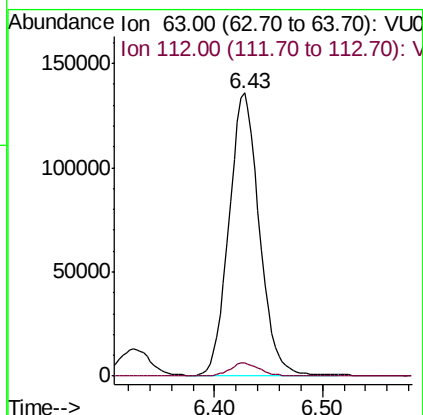
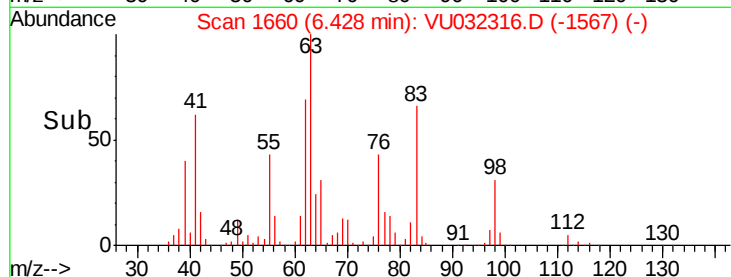
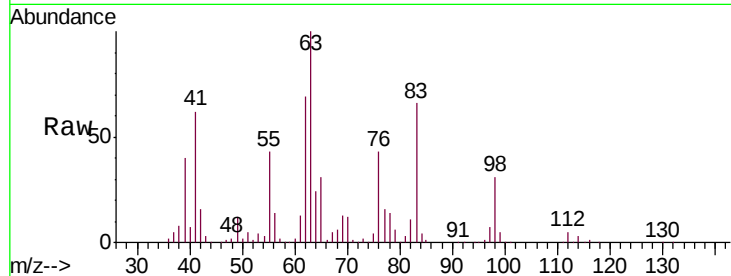




#37
 1,2-Dichloropropane
 Concen: 45.937 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

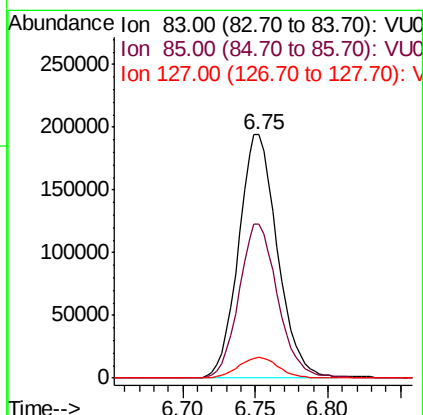
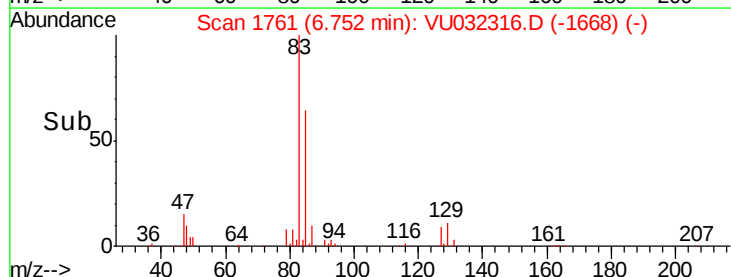
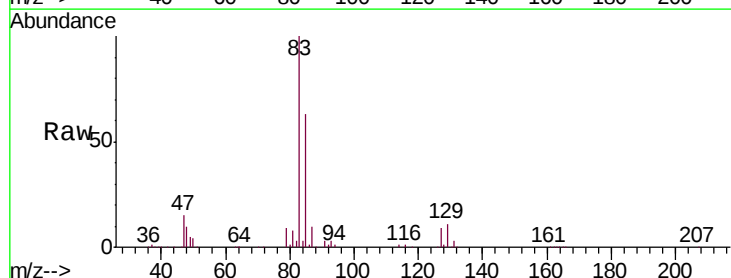
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

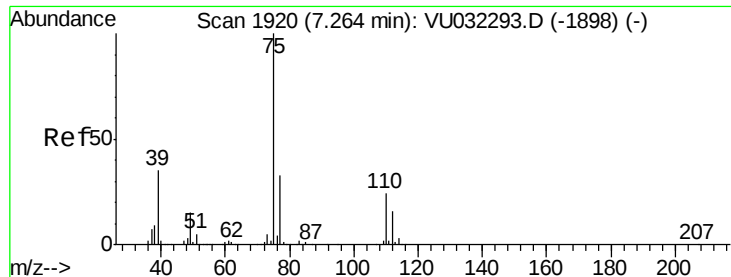
Tgt Ion: 63 Resp: 266013
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.6 5.4



#38
 Bromodichloromethane
 Concen: 44.882 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion: 83 Resp: 360768
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.7 82.9
 127 8.5 7.4 11.0

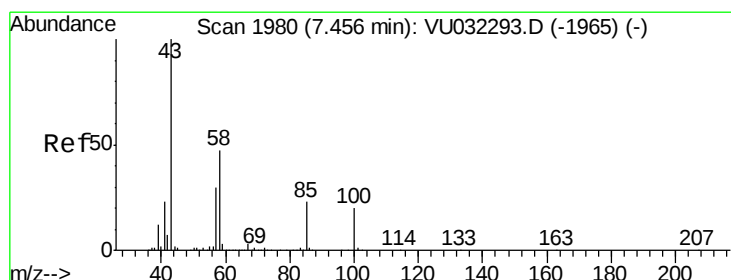
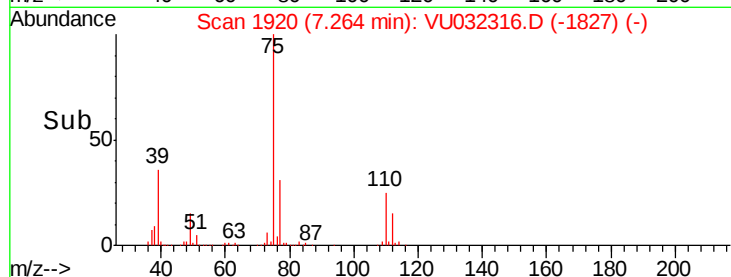
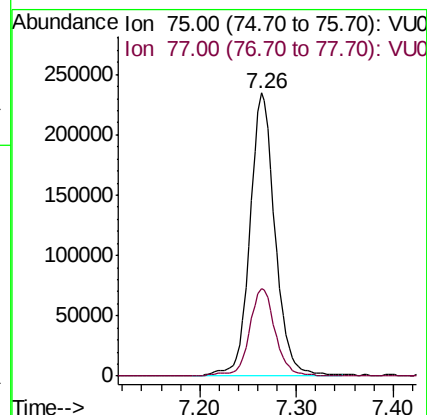
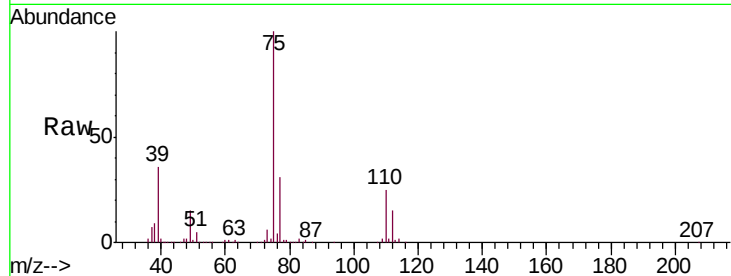




#39
 cis-1,3-Dichloropropene
 Concen: 49.767 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

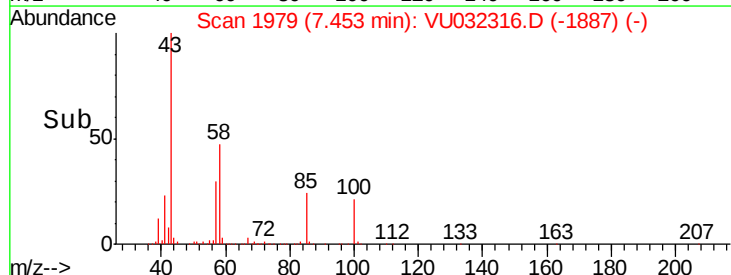
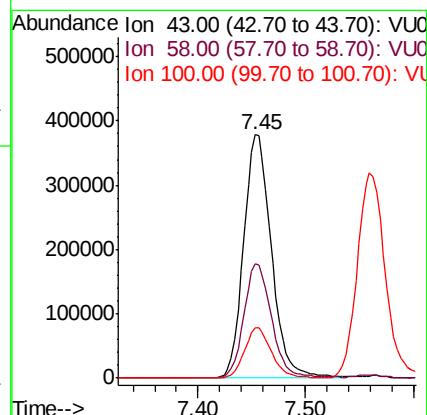
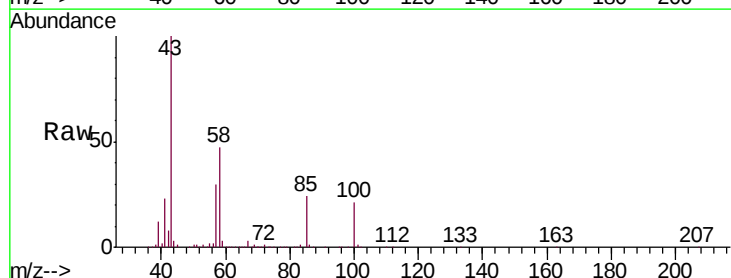
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

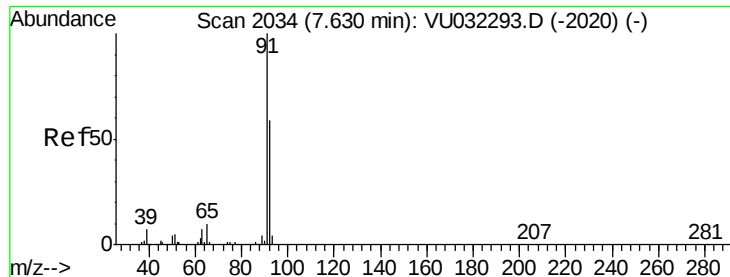
Tgt Ion: 75 Resp: 423146
 Ion Ratio Lower Upper
 75 100
 77 31.0 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 85.518 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion: 43 Resp: 681102
 Ion Ratio Lower Upper
 43 100
 58 46.6 37.1 55.7
 100 20.2 16.3 24.5





#42

Toluene

Concen: 51.454 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

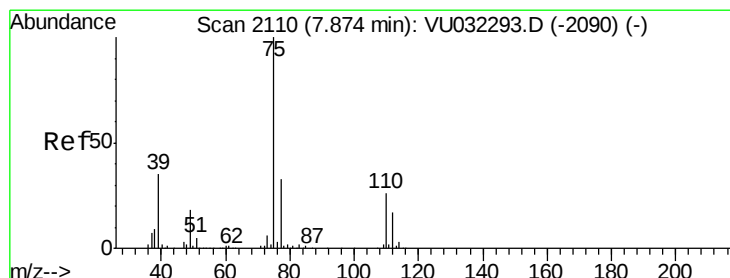
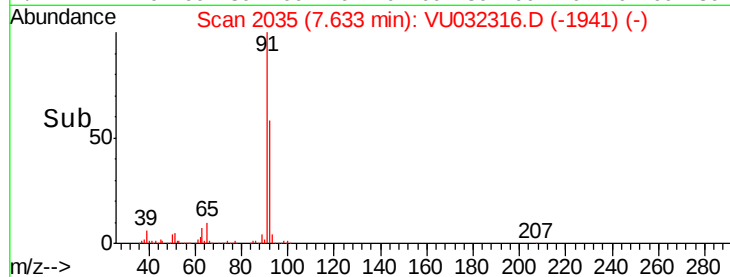
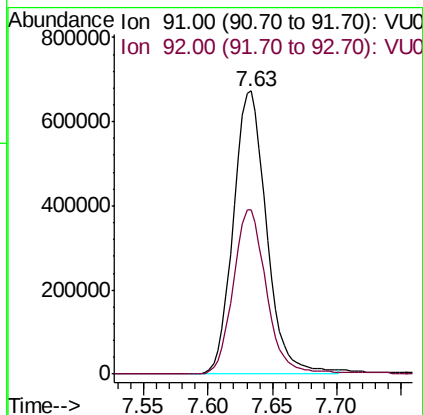
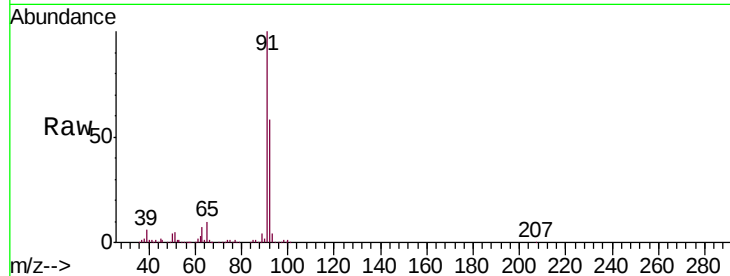
VSTD05051

Tgt Ion: 91 Resp: 1207599

Ion Ratio Lower Upper

91 100

92 57.9 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 49.003 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032316.D

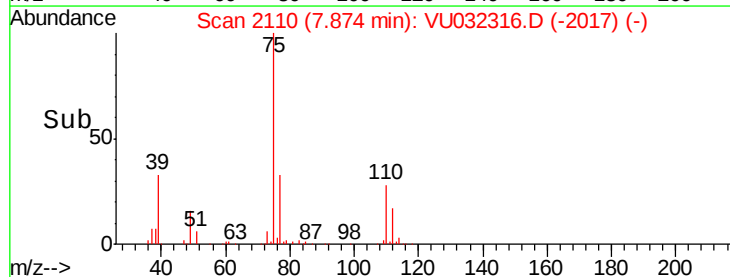
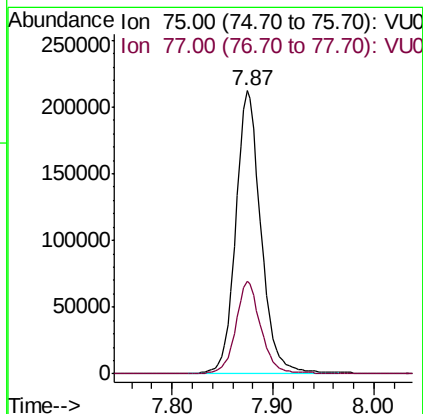
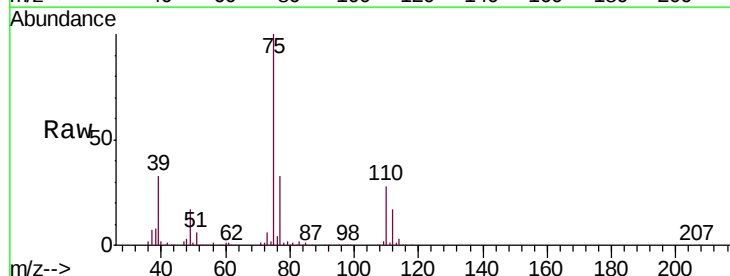
Acq: 24 May 2019 17:58

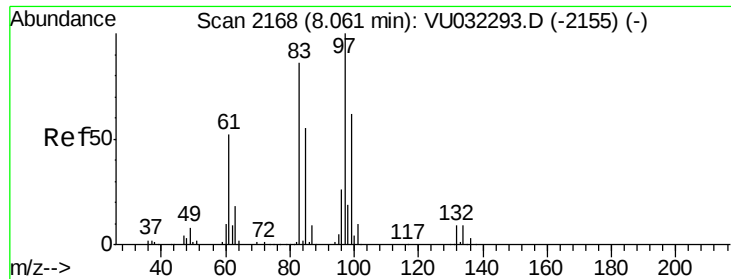
Tgt Ion: 75 Resp: 368045

Ion Ratio Lower Upper

75 100

77 32.9 22.4 41.6

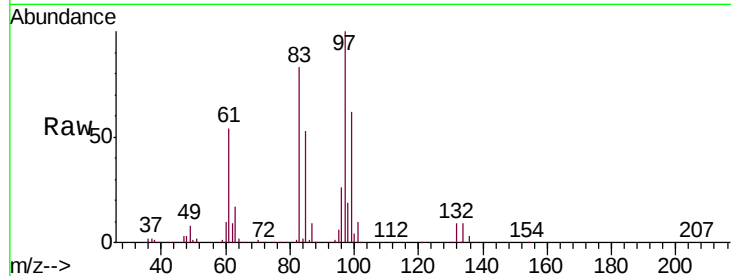




#45
 1,1,2-Trichloroethane
 Concen: 44.542 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:	97	Resp:	285479
Ion	Ratio	Lower	Upper
97	100		
99	62.0	43.9	81.5
83	83.2	61.2	113.6
85	53.5	39.3	73.1



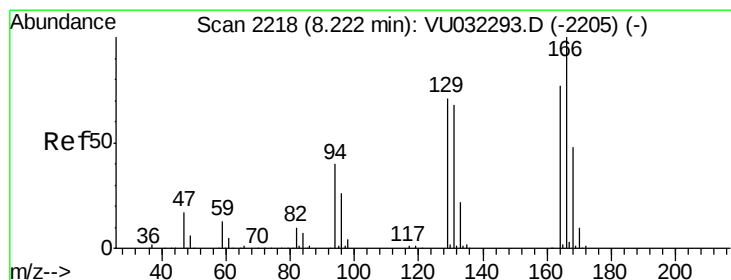
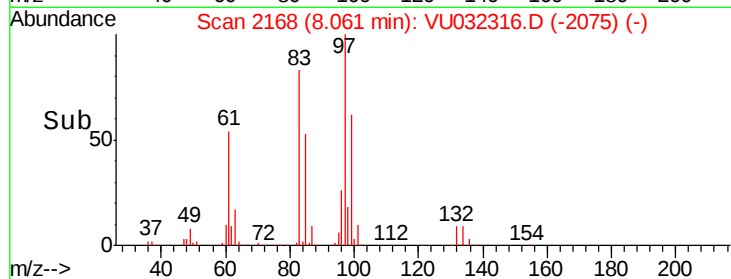
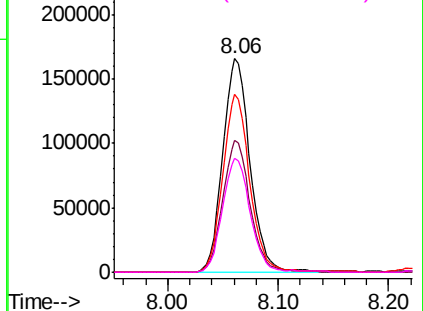
Abundance

Ion 97.00 (96.70 to 97.70): VU032293.D (-2155) (-)

Ion 99.00 (98.70 to 99.70): VU032293.D (-2155) (-)

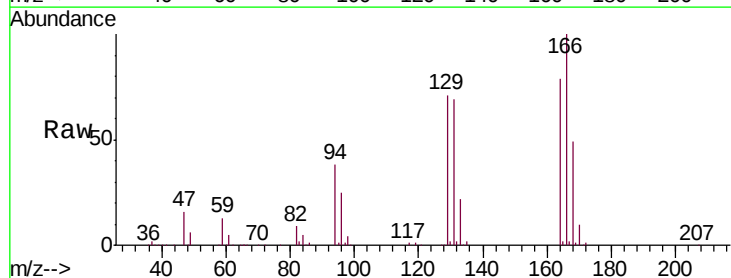
Ion 83.00 (82.70 to 83.70): VU032293.D (-2155) (-)

Ion 85.00 (84.70 to 85.70): VU032293.D (-2155) (-)



#46
 Tetrachloroethene
 Concen: 56.317 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion:	164	Resp:	233210
Ion	Ratio	Lower	Upper
164	100		
129	90.0	66.2	123.0
131	87.5	61.9	114.9
166	127.1	91.8	170.4



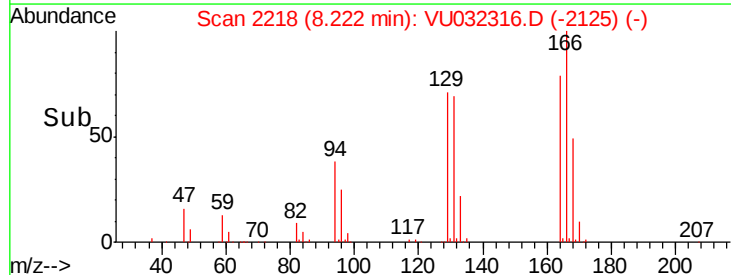
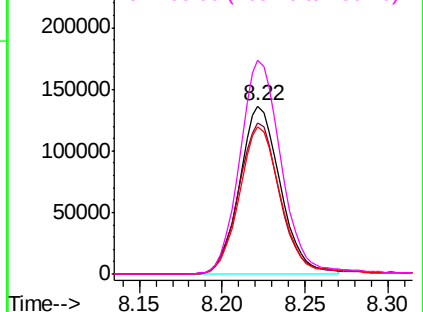
Abundance

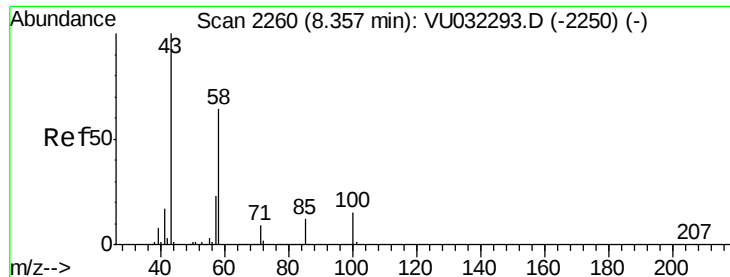
Ion 164.00 (163.70 to 164.70): VU032293.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU032293.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU032293.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU032293.D (-2205) (-)

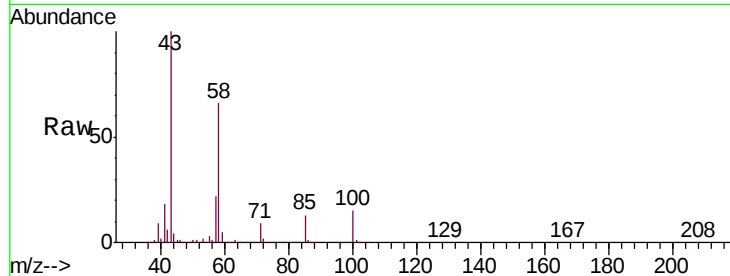




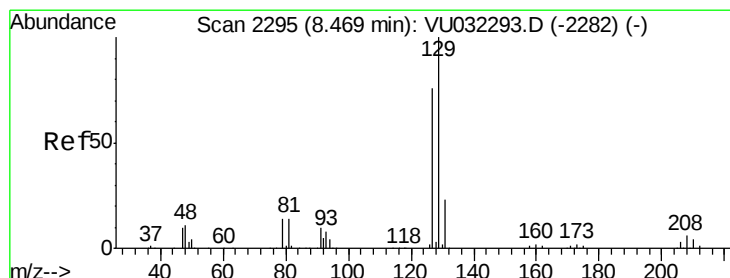
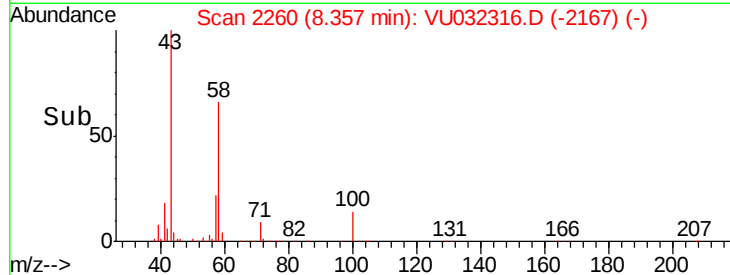
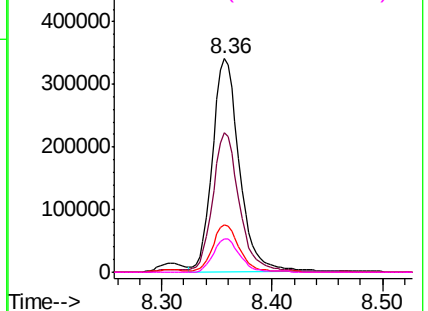
#48
2-Hexanone
Concen: 91.674 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tgt Ion: 43 Resp: 573078
Ion Ratio Lower Upper
43 100
58 64.2 51.4 77.0
57 22.7 17.8 26.8
100 15.3 12.8 19.2

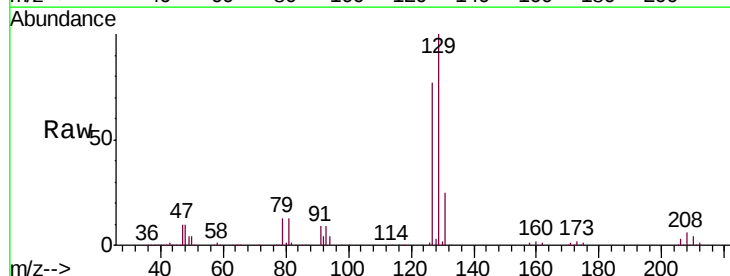


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

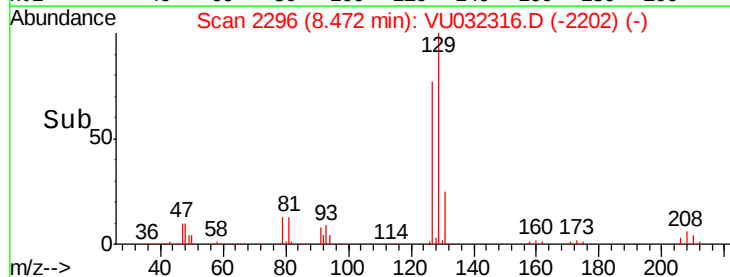
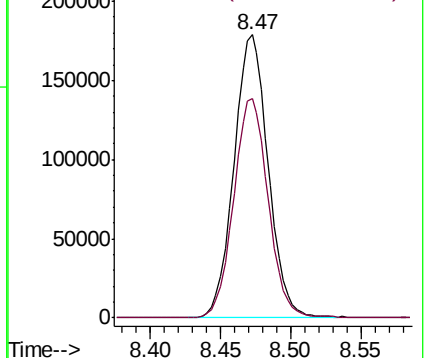


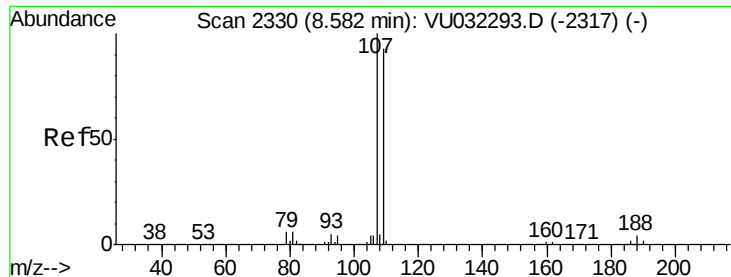
#49
Dibromochloromethane
Concen: 44.850 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

Tgt Ion: 129 Resp: 304100
Ion Ratio Lower Upper
129 100
127 77.4 54.5 101.3



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

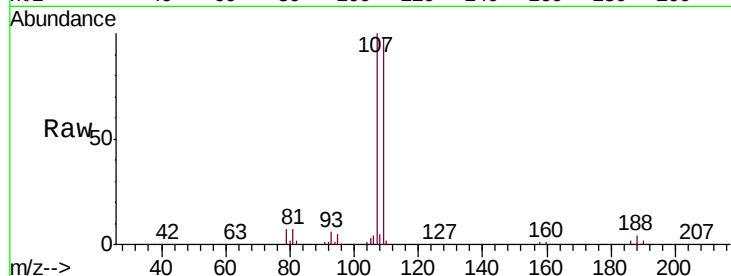




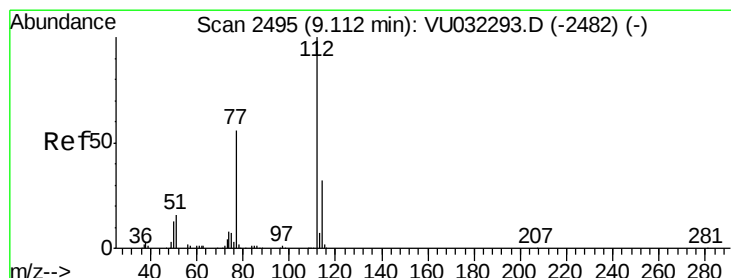
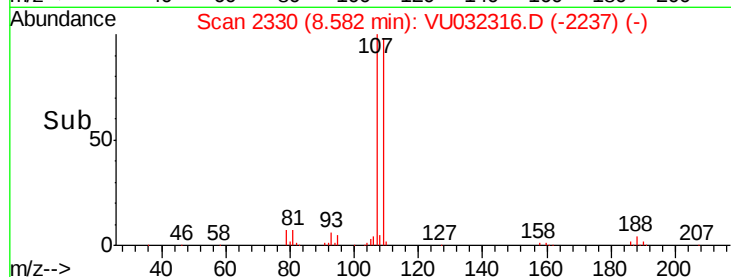
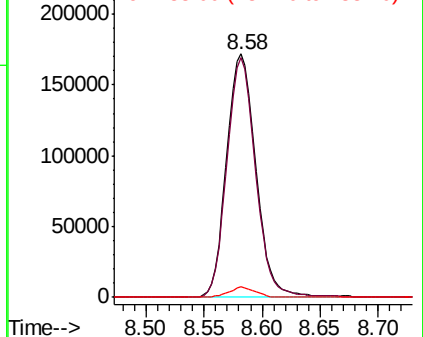
#50
1,2-Dibromoethane
Concen: 43.573 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tgt Ion	Ratio	Lower	Upper
107	100		
109	98.3	66.6	123.8
188	4.2	3.2	4.8

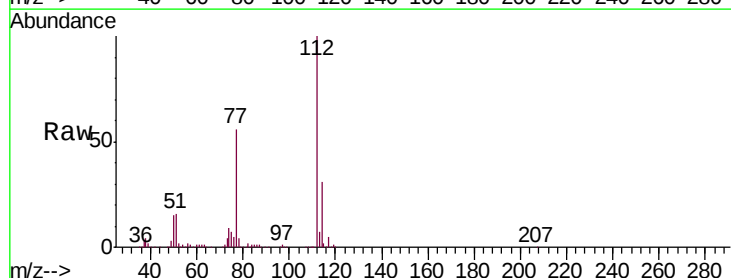


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

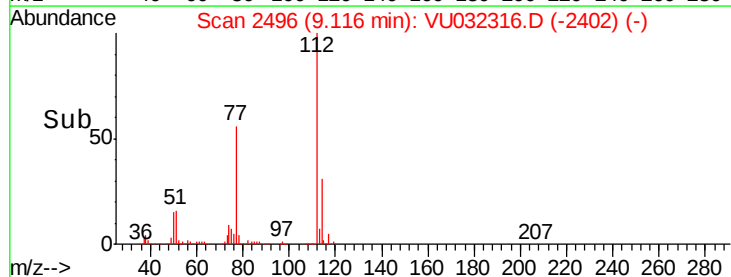
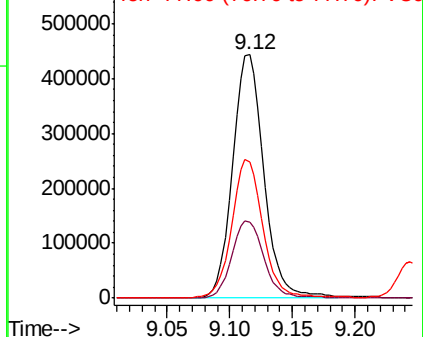


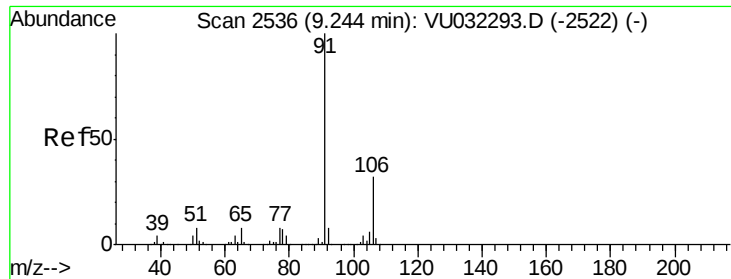
#51
Chlorobenzene
Concen: 48.940 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032316.D
Acq: 24 May 2019 17:58

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.5	41.7
77	56.1	45.8	68.6



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





#52

Ethylbenzene

Concen: 54.398 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

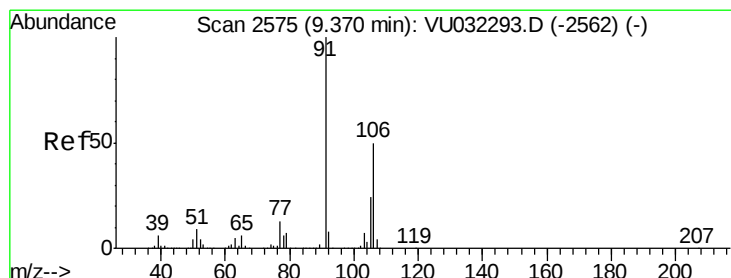
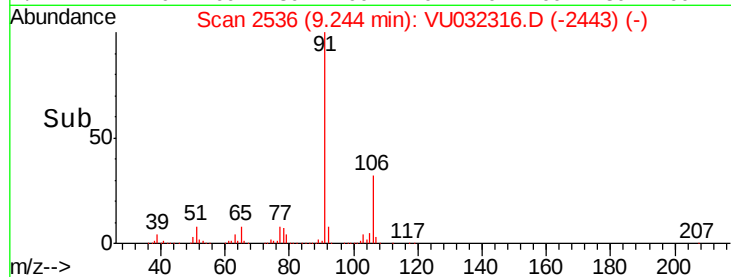
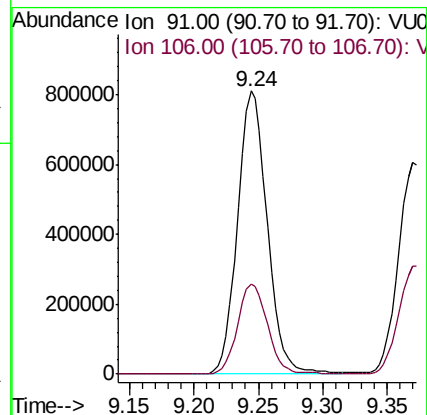
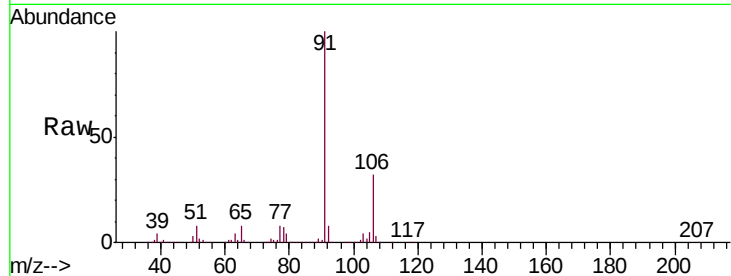
VSTD05051

Tgt Ion: 91 Resp: 1297535

Ion Ratio Lower Upper

91 100

106 31.9 22.0 41.0



#53

m,p-Xylene

Concen: 55.913 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032316.D

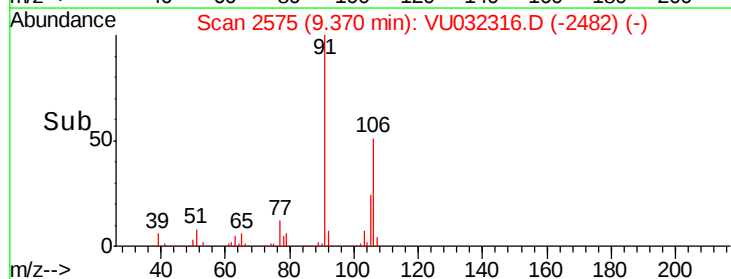
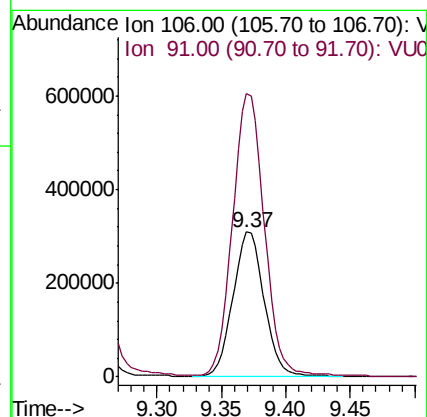
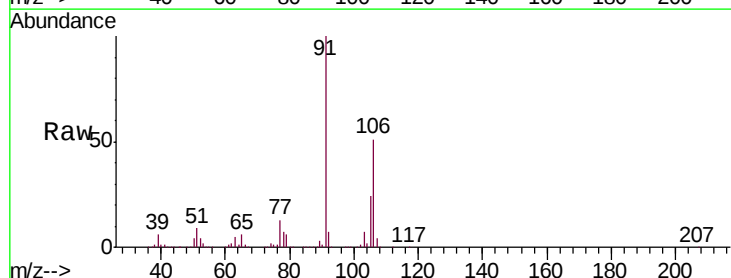
Acq: 24 May 2019 17:58

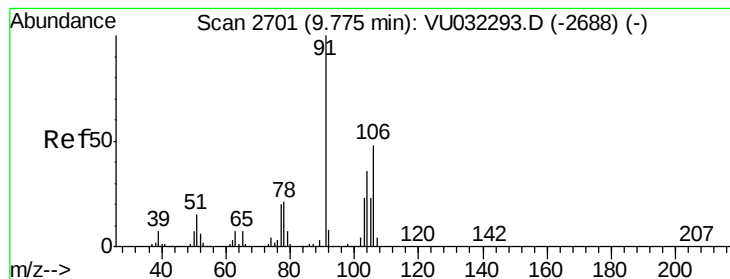
Tgt Ion: 106 Resp: 514773

Ion Ratio Lower Upper

106 100

91 195.2 136.5 253.5





#54

o-xylene

Concen: 53.855 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

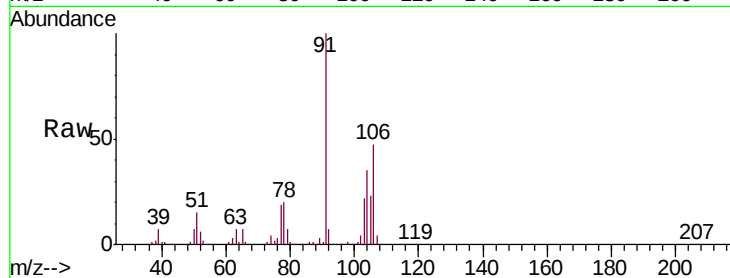
VSTD05051

Tgt Ion:106 Resp: 517059

Ion Ratio Lower Upper

106 100

91 212.2 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

800000

600000

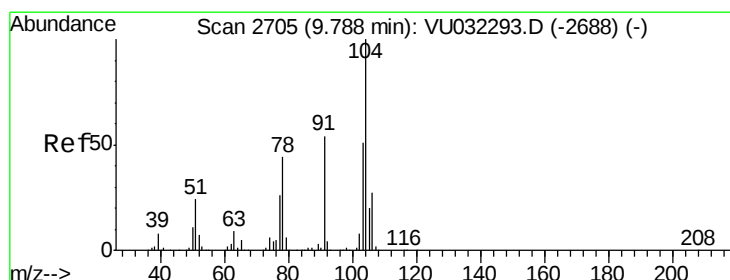
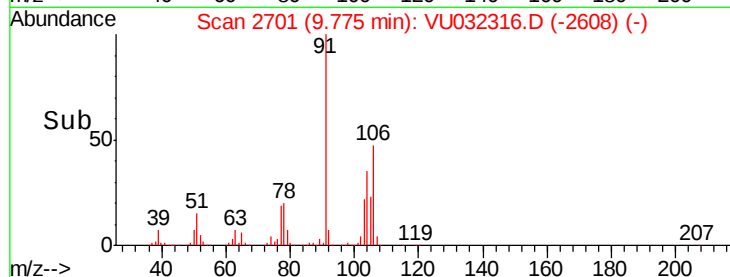
400000

200000

0

9.70 9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 54.361 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU032316.D

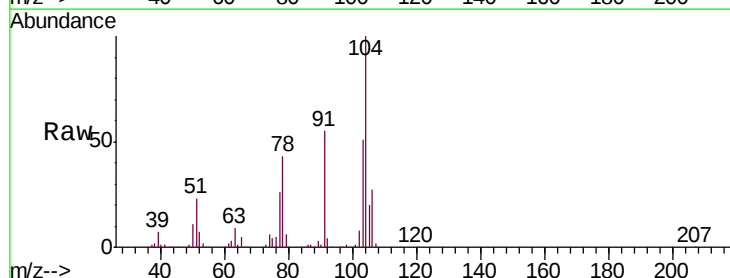
Acq: 24 May 2019 17:58

Tgt Ion:104 Resp: 895602

Ion Ratio Lower Upper

104 100

78 42.8 31.1 57.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

600000

500000

400000

300000

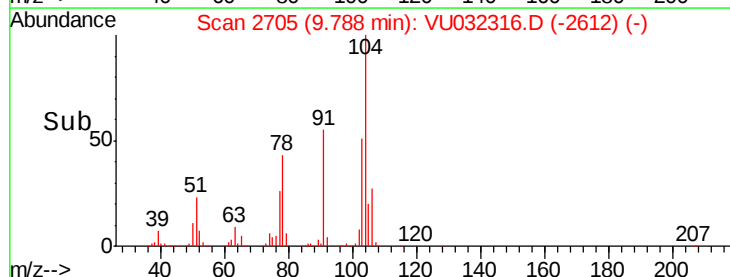
200000

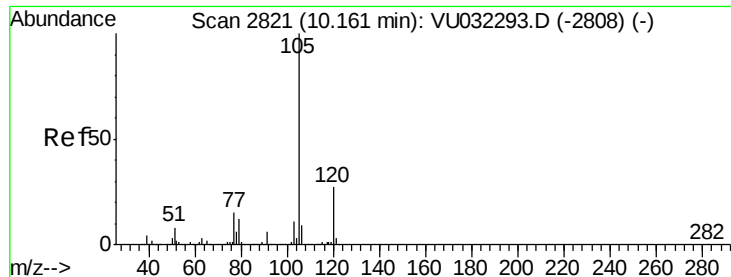
100000

0

9.70 9.80 9.90

Time-->





#56

Isopropylbenzene

Concen: 58.013 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

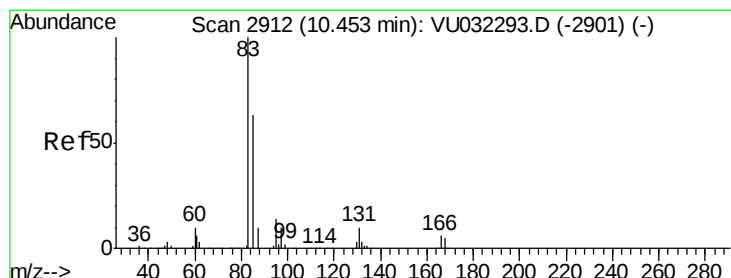
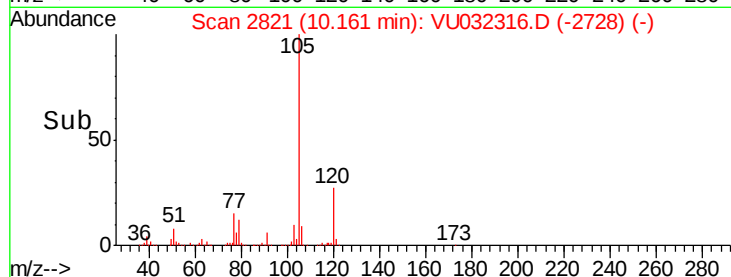
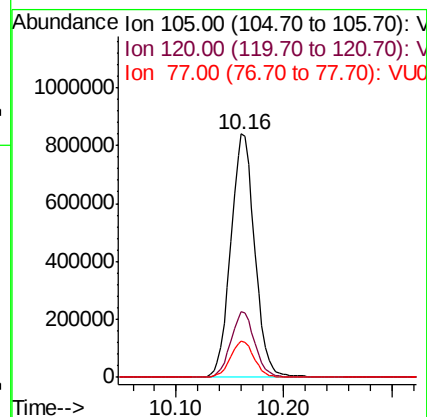
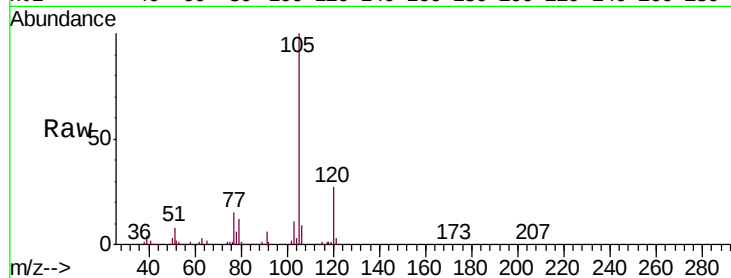
Tgt Ion:105 Resp: 1300733

Ion Ratio Lower Upper

105 100

120 26.9 21.0 31.4

77 14.7 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 43.254 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

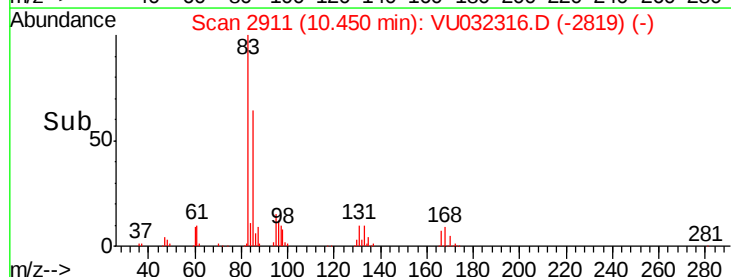
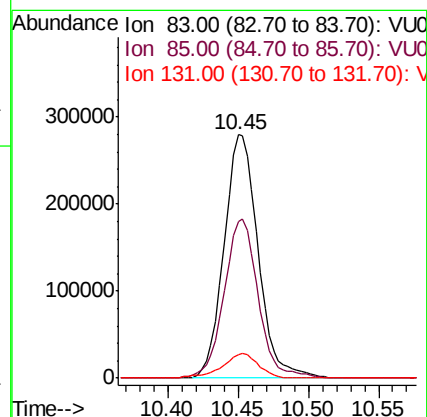
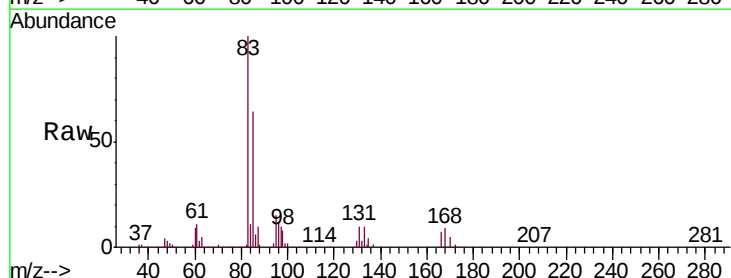
Tgt Ion: 83 Resp: 471560

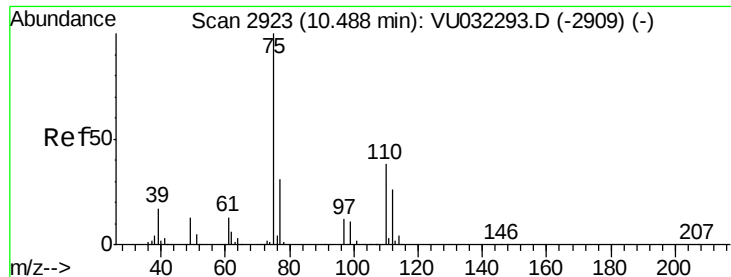
Ion Ratio Lower Upper

83 100

85 64.4 45.4 84.2

131 9.7 8.4 12.6





#59

1,2,3-Trichloropropane

Concen: 42.208 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

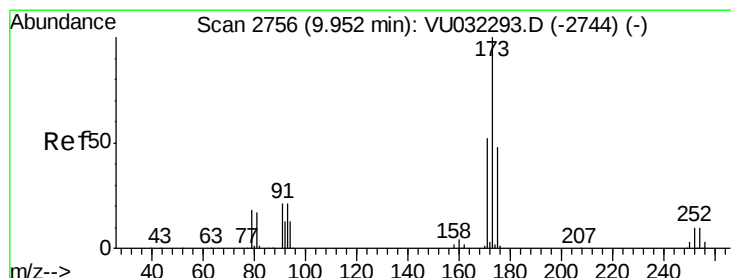
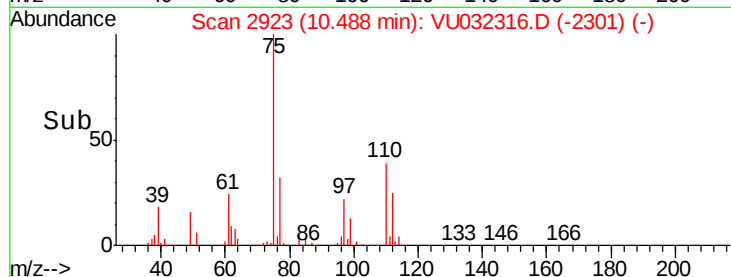
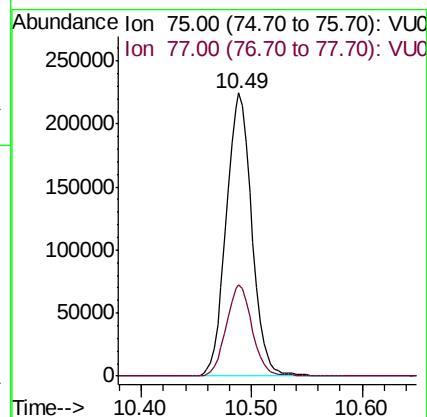
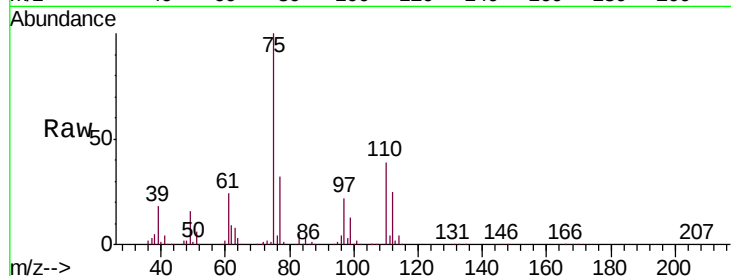
VSTD05051

Tgt Ion: 75 Resp: 362177

Ion Ratio Lower Upper

75 100

77 32.6 25.7 38.5



#61

Bromoform

Concen: 40.533 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

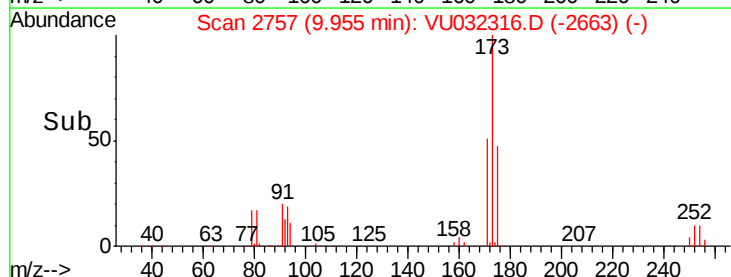
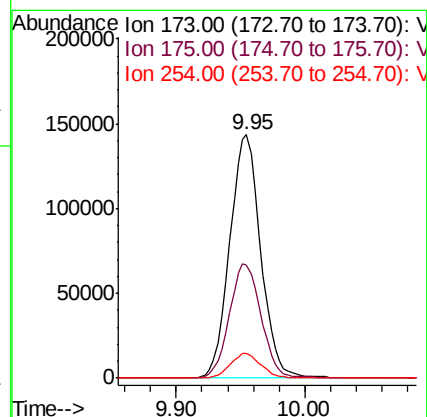
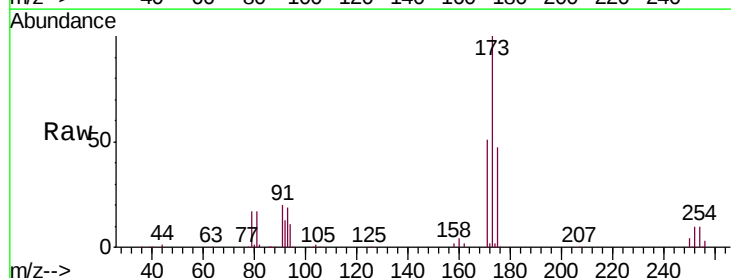
Tgt Ion: 173 Resp: 238581

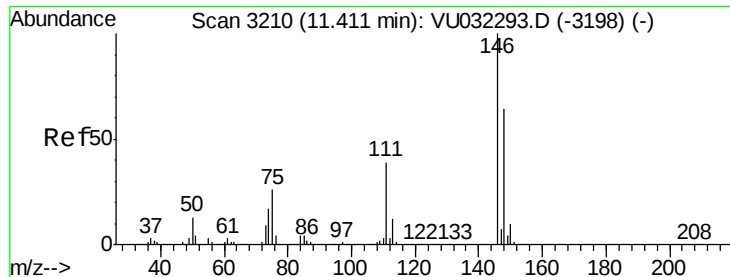
Ion Ratio Lower Upper

173 100

175 48.3 38.6 57.8

254 10.0 7.8 11.8

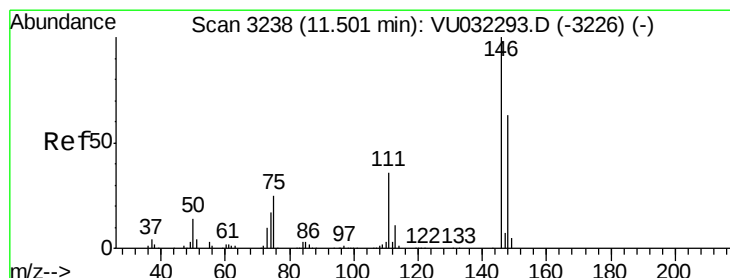
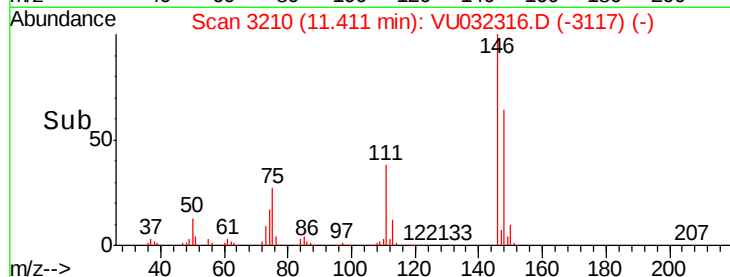
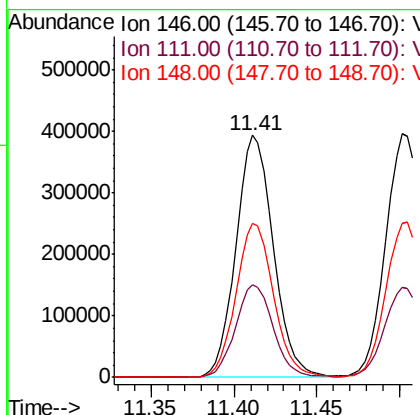
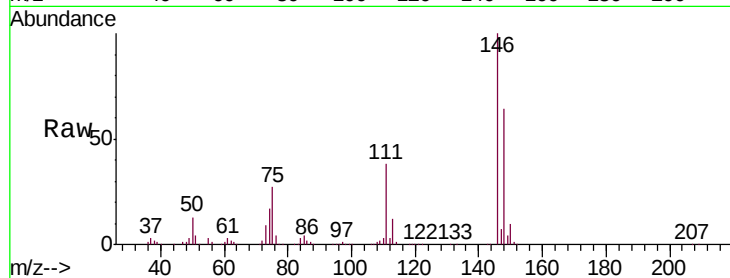




#62
 1,3-Dichlorobenzene
 Concen: 49.317 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

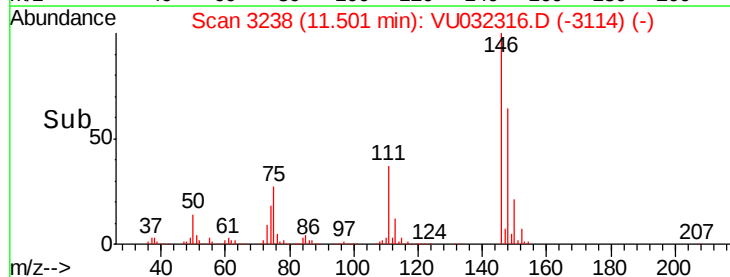
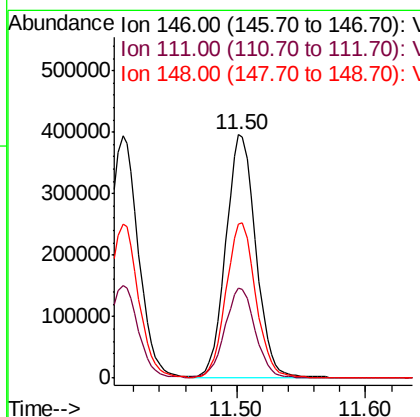
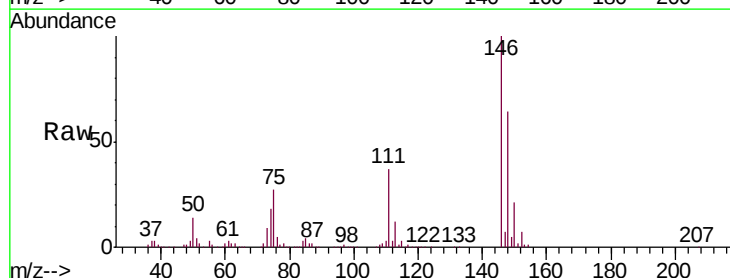
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

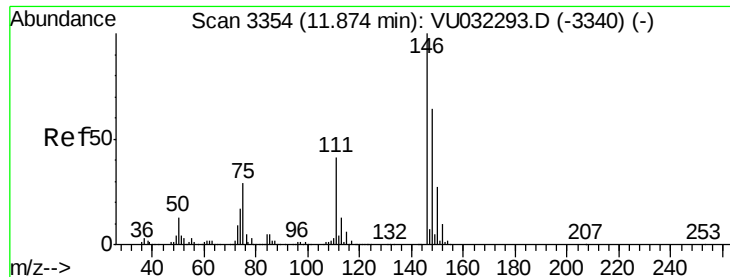
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	26.4	49.0
148	63.9	45.1	83.7



#63
 1,4-Dichlorobenzene
 Concen: 48.764 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	25.3	47.1
148	63.5	44.7	83.1

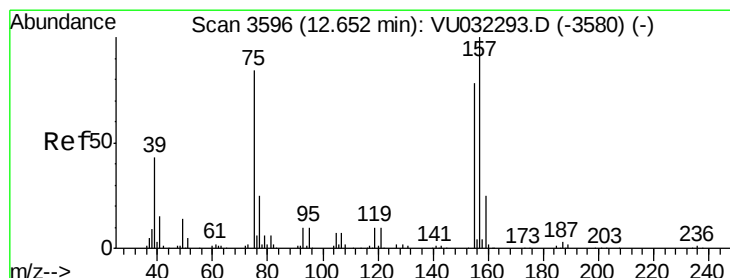
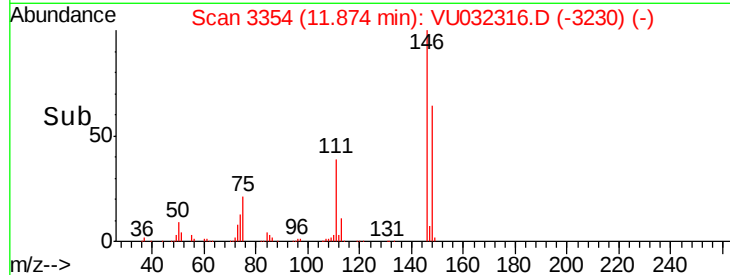
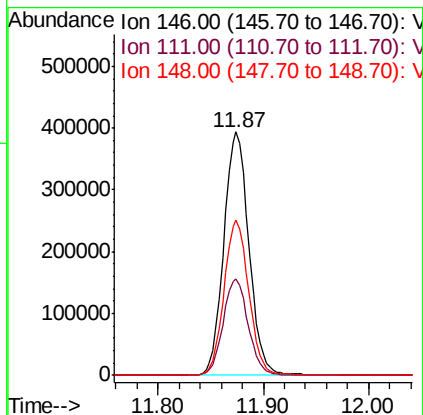
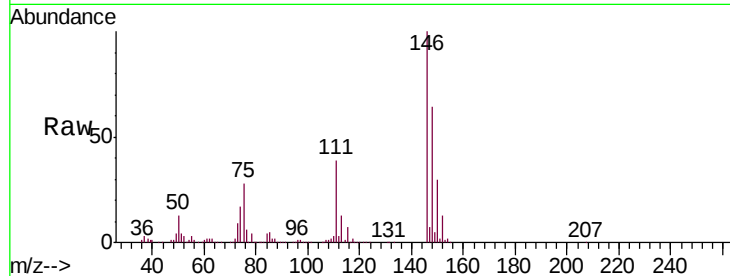




#65
 1,2-Dichlorobenzene
 Concen: 47.233 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

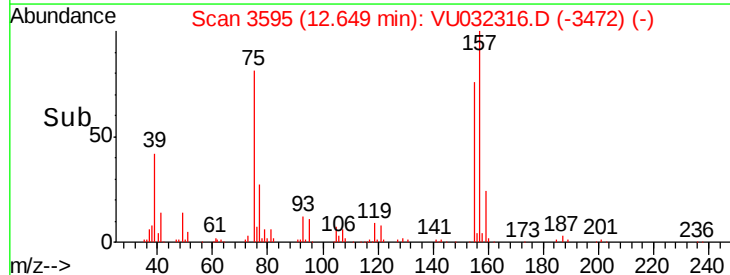
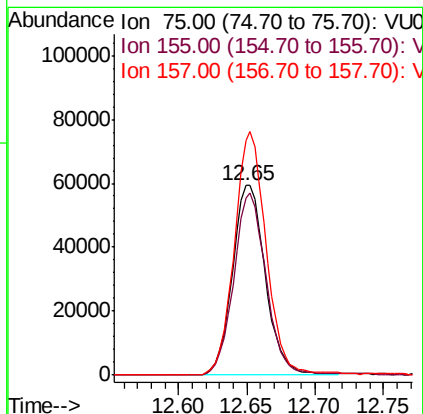
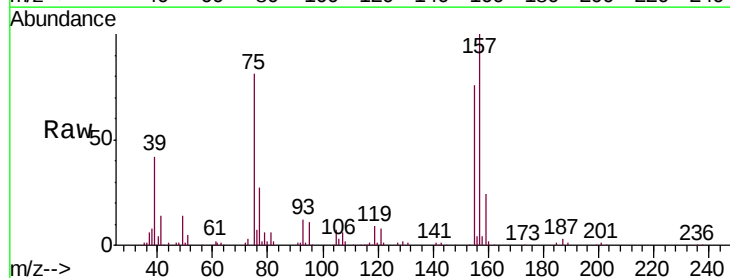
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

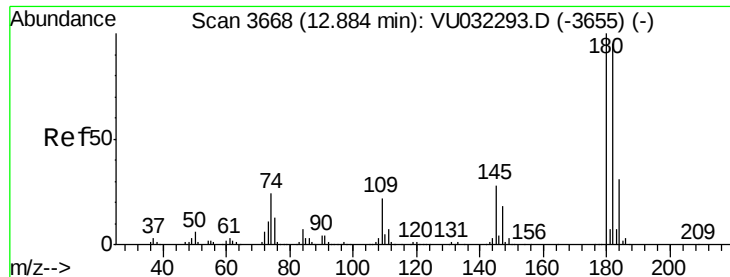
Tgt Ion:146 Resp: 645049
 Ion Ratio Lower Upper
 146 100
 111 39.5 31.7 47.5
 148 63.6 52.2 78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 39.971 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion: 75 Resp: 99286
 Ion Ratio Lower Upper
 75 100
 155 93.5 75.8 113.8
 157 123.5 96.4 144.6

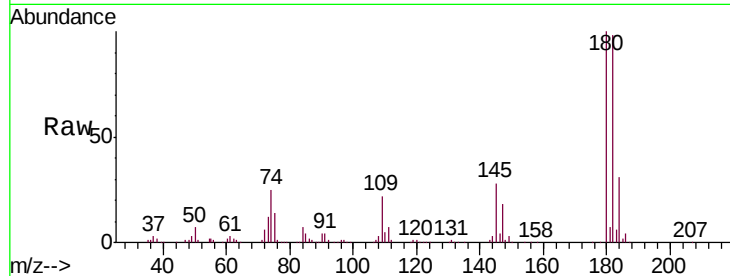




#67
 1,3,5-Trichlorobenzene
 Concen: 53.744 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.5	113.3
184	30.0	24.2	36.4
145	27.5	22.0	33.0



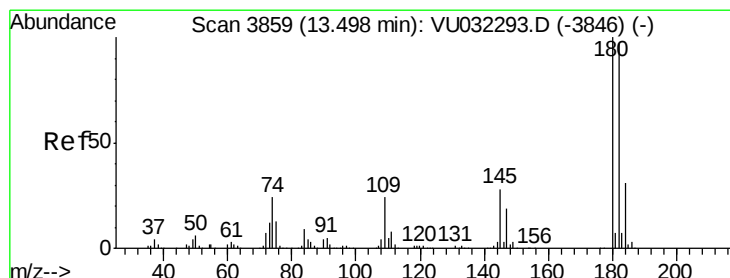
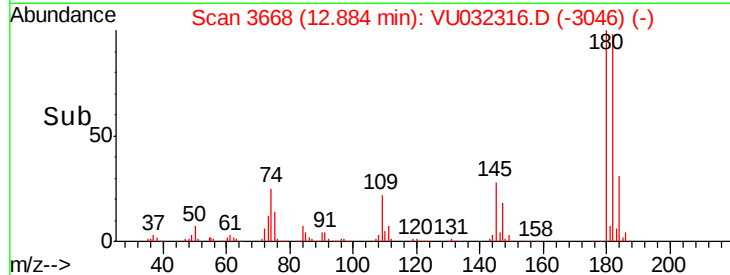
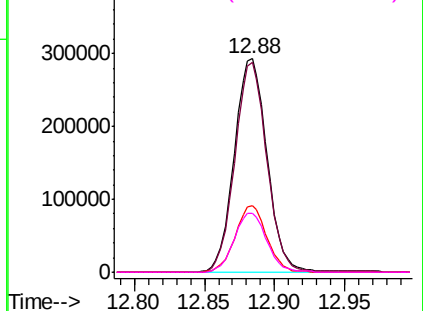
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

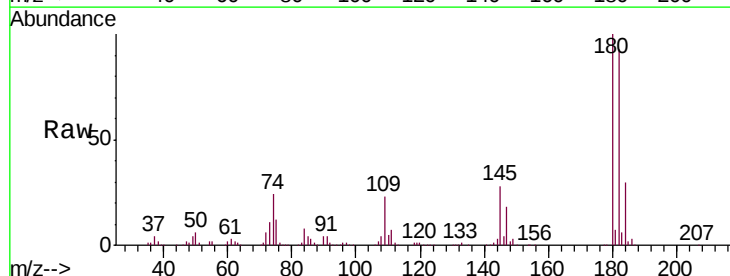
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 55.280 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU032316.D
 Acq: 24 May 2019 17:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.3	112.9
145	28.2	23.0	34.6

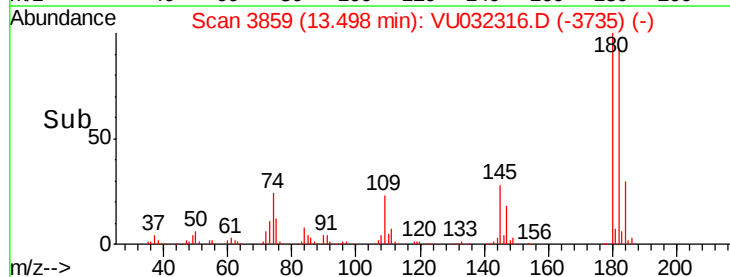
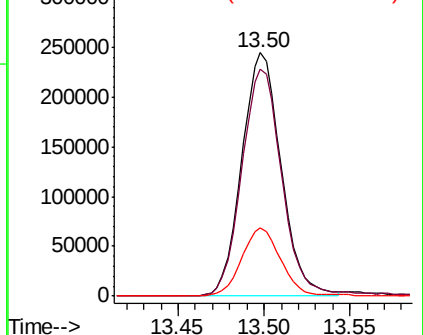


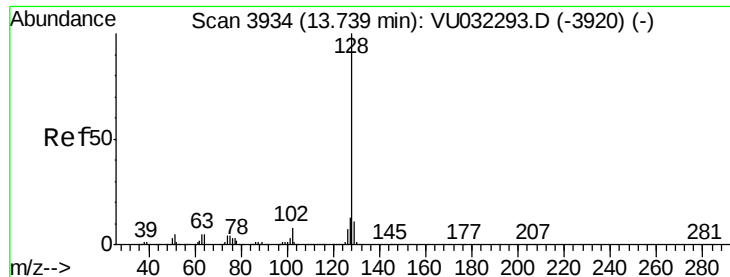
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.672 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

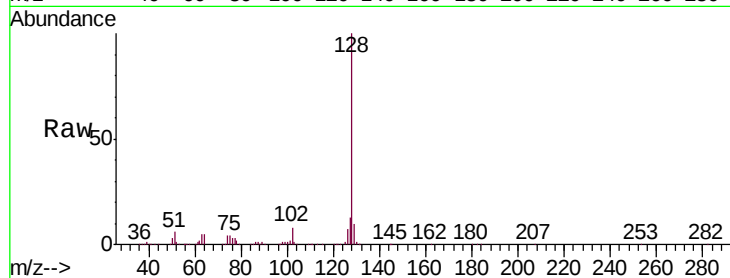
Tgt Ion:128 Resp: 1244978

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

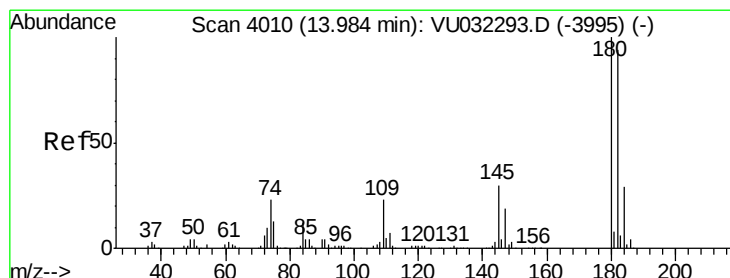
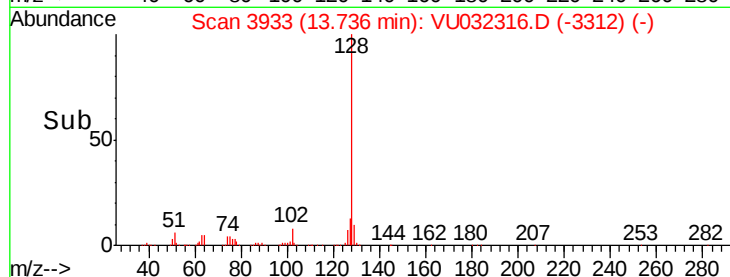
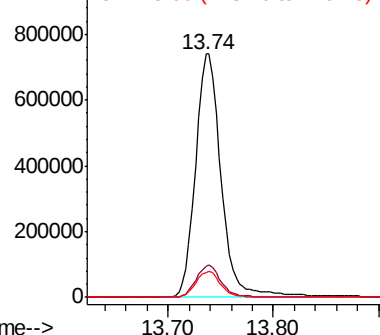
129 10.4 8.3 12.5



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: 52.164 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032316.D

Acq: 24 May 2019 17:58

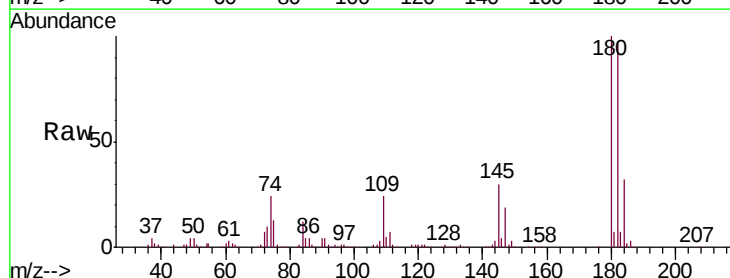
Tgt Ion:180 Resp: 422079

Ion Ratio Lower Upper

180 100

182 97.8 77.2 115.8

145 29.6 23.9 35.9



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

