

Data File : VU031715.D
Acq On : 02 May 2019 16:24
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

Quant Time: May 03 04:42:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 04:37:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	956179	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	902673	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	420242	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	359133	44.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.76%
7) Chloroethane-d5	1.68	69	274135	44.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.66%
11) 1,1-Dichloroethene-d2	2.27	63	701682	44.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.06%
21) 2-Butanone-d5	4.19	46	738579	101.86	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.86%
24) Chloroform-d	4.64	84	634663	43.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.31	65	405648	42.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.72%
32) Benzene-d6	5.34	84	1270731	45.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.68%
36) 1,2-Dichloropropane-d6	6.32	67	441889	45.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.62%
41) Toluene-d8	7.56	98	1094058	45.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.64%
43) trans-1,3-Dichloropropene-	7.85	79	202070	48.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.54%
47) 2-Hexanone-d5	8.31	63	497947	117.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.97%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	606689	46.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.72%
64) 1,2-Dichlorobenzene-d4	11.85	152	395044	44.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	441595	41.999	ug/L	100
3) Chloromethane	1.32	50	519262	40.817	ug/L	100
5) Vinyl chloride	1.40	62	496214	41.721	ug/L	100
6) Bromomethane	1.63	94	258016	41.136	ug/L	99
8) Chloroethane	1.69	64	276720	42.563	ug/L	99
9) Trichlorofluoromethane	1.88	101	573234	42.279	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	354101	46.200	ug/L	98
12) 1,1-Dichloroethene	2.28	96	336783	45.144	ug/L	92
13) Acetone	2.34	43	703016	86.077	ug/L	99
14) Carbon disulfide	2.47	76	1003374	40.531	ug/L	99
15) Methyl Acetate	2.62	43	567865	45.951	ug/L	97
16) Methylene chloride	2.70	84	401166	45.566	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	354028	45.543	ug/L	96
18) Methyl tert-butyl Ether	3.00	73	1304632	52.678	ug/L	98
19) 1,1-Dichloroethane	3.44	63	769800	47.022	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	406589	48.761	ug/L	97
22) 2-Butanone	4.27	43	938292	103.695	ug/L	99

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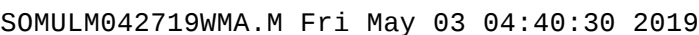
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

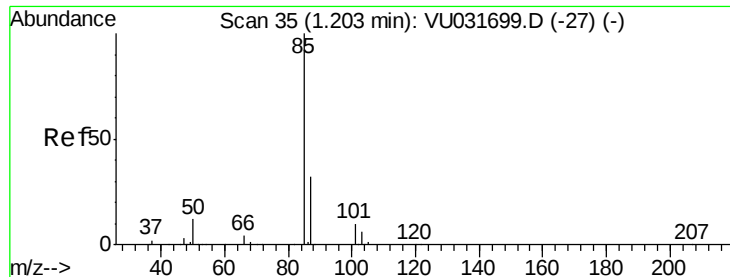
Quant Time: May 03 04:42:49 2019
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	188137	46.433	ug/L	97
25) Chloroform	4.67	83	708862	45.281	ug/L	98
27) 1,2-Dichloroethane	5.40	62	578538	45.498	ug/L	99
29) Cyclohexane	4.99	56	733108	51.316	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	576515	45.584	ug/L	99
31) Carbon tetrachloride	5.13	117	482528	44.637	ug/L	100
33) Benzene	5.39	78	1590576	47.927	ug/L	100
34) Trichloroethene	6.18	95	394951	49.094	ug/L	99
35) Methylcyclohexane	6.41	83	639643	53.054	ug/L	95
37) 1,2-Dichloropropane	6.43	63	463025	49.145	ug/L	100
38) Bromodichloromethane	6.75	83	534447	46.784	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	696105	55.914	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1562297	107.777	ug/L	99
42) Toluene	7.63	91	1673830	50.631	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	598162	52.973	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	385922	49.686	ug/L	98
46) Tetrachloroethene	8.22	164	273004	49.778	ug/L	94
48) 2-Hexanone	8.36	43	1253322	106.903	ug/L	98
49) Dibromochloromethane	8.47	129	396202	49.025	ug/L	99
50) 1,2-Dibromoethane	8.58	107	411542	50.168	ug/L	100
51) Chlorobenzene	9.12	112	984006	50.369	ug/L	97
52) Ethylbenzene	9.25	91	1826082	53.250	ug/L	100
53) m,p-Xylene	9.37	106	639737	53.543	ug/L	98
54) o-xylene	9.77	106	655296	55.321	ug/L	95
55) Styrene	9.79	104	1112520	54.973	ug/L	99
56) Isopropylbenzene	10.16	105	1724016	55.349	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	681459	49.443	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	549637	49.204	ug/L	99
61) Bromoform	9.95	173	282638	45.371	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	720924	51.825	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	721617	50.089	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	730036	49.379	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	159513	46.488	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	521731	50.075	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	475111	57.601	ug/L	99
69) Naphthalene	13.74	128	1953947	69.479	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	486814	51.840	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 41.999 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

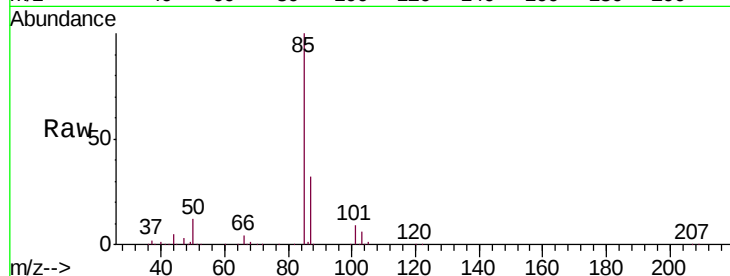
VSTD05031

Tgt Ion: 85 Resp: 441595

Ion Ratio Lower Upper

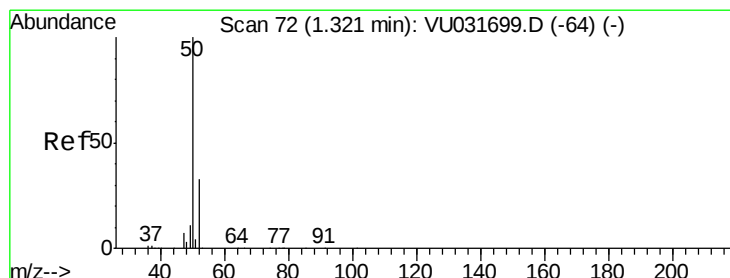
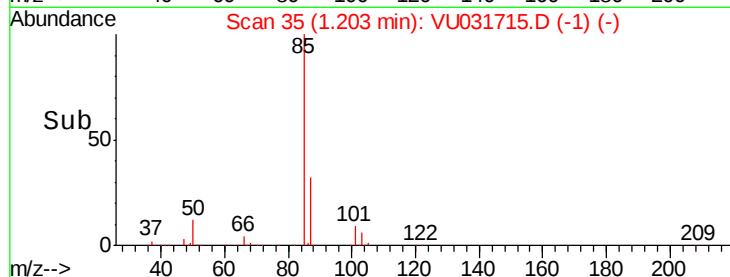
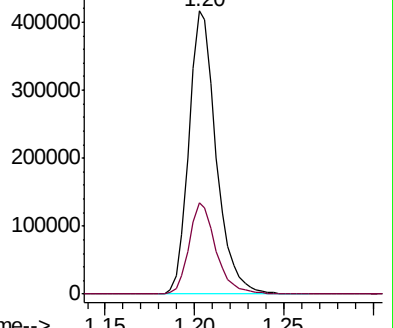
85 100

87 31.8 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031699.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031699.D (-27) (-)



#3

Chloromethane

Concen: 40.817 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031715.D

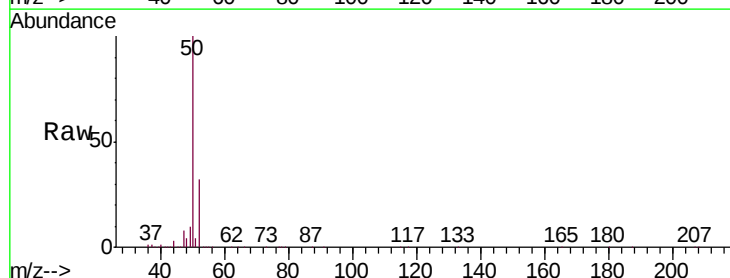
Acq: 02 May 2019 16:24

Tgt Ion: 50 Resp: 519262

Ion Ratio Lower Upper

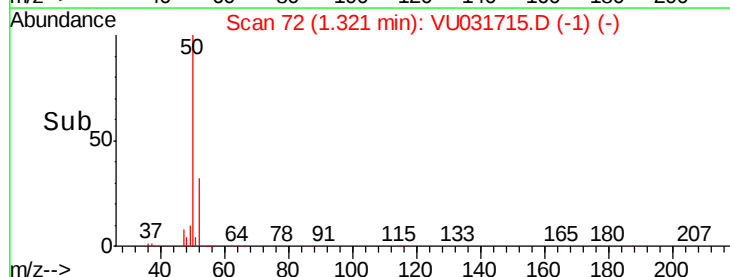
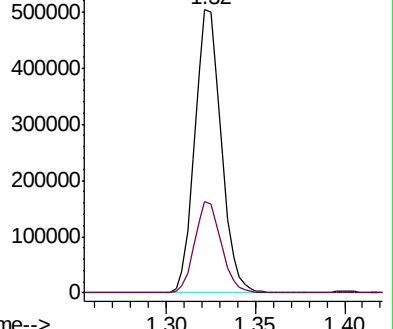
50 100

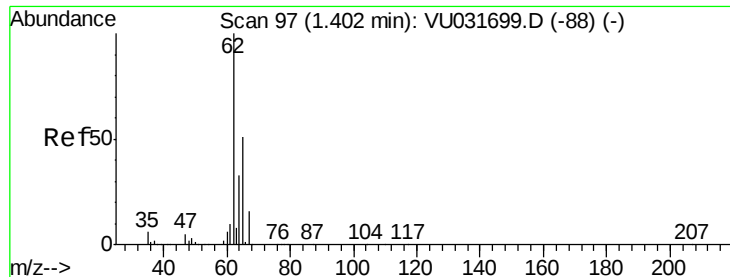
52 32.2 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031699.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031699.D (-64) (-)





#5

Vinyl chloride

Concen: 41.721 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

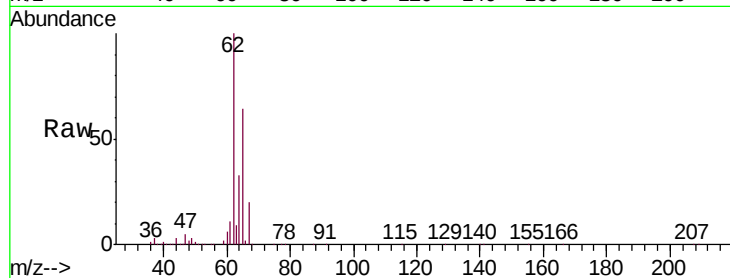
VSTD05031

Tgt Ion: 62 Resp: 496214

Ion Ratio Lower Upper

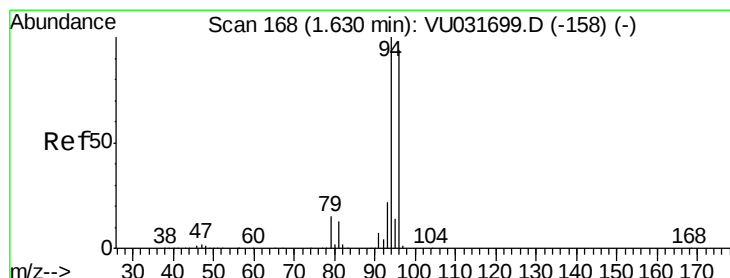
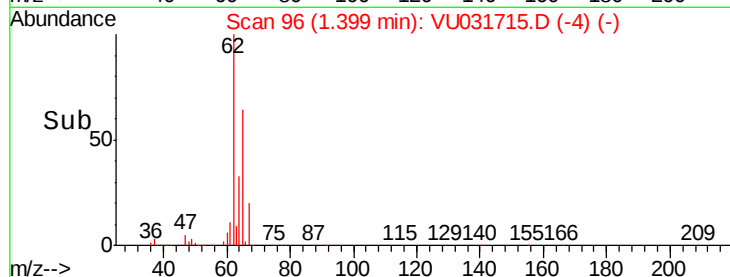
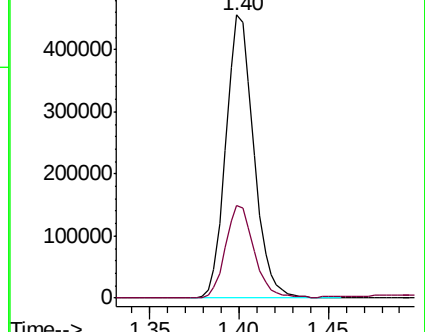
62 100

64 32.9 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031699.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031699.D (-88) (-)



#6

Bromomethane

Concen: 41.136 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031715.D

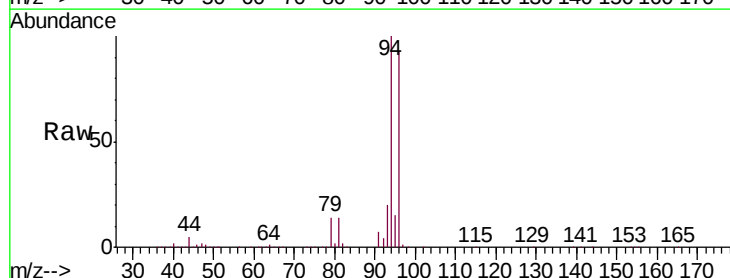
Acq: 02 May 2019 16:24

Tgt Ion: 94 Resp: 258016

Ion Ratio Lower Upper

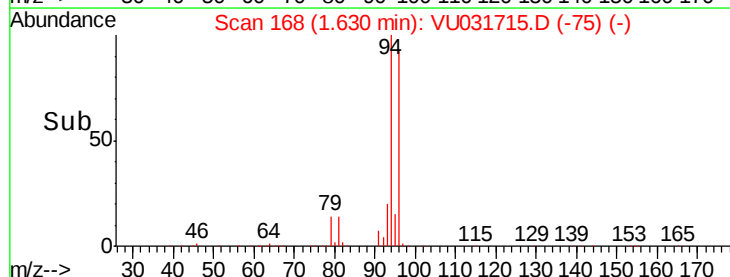
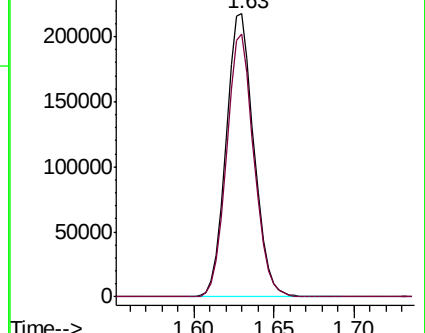
94 100

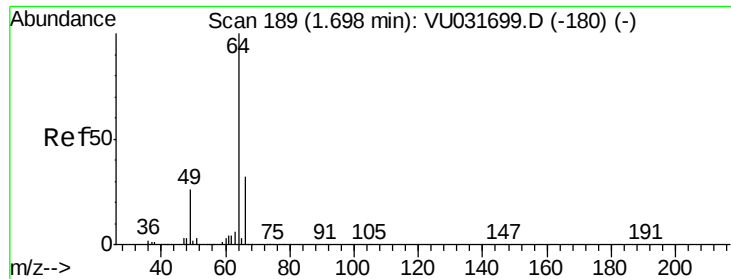
96 93.0 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031699.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031699.D (-158) (-)





#8

Chloroethane

Concen: 42.563 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

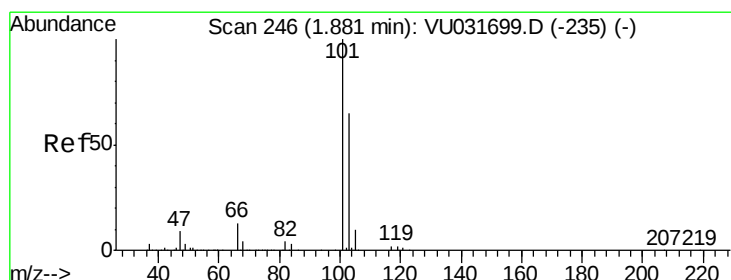
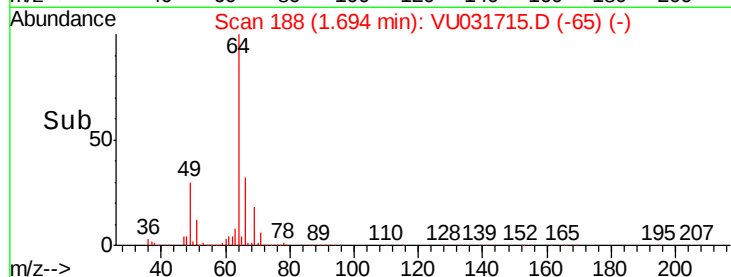
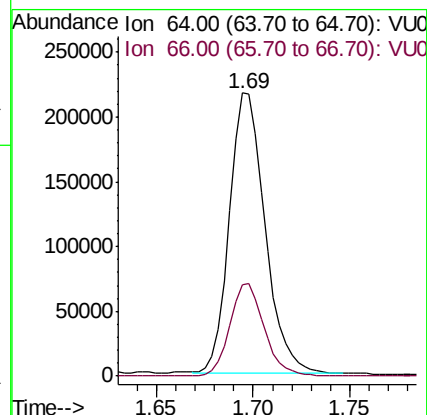
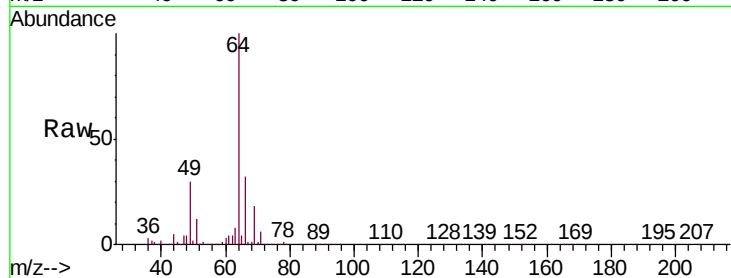
VSTD05031

Tgt Ion: 64 Resp: 276720

Ion Ratio Lower Upper

64 100

66 32.4 23.2 43.0



#9

Trichlorofluoromethane

Concen: 42.279 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031715.D

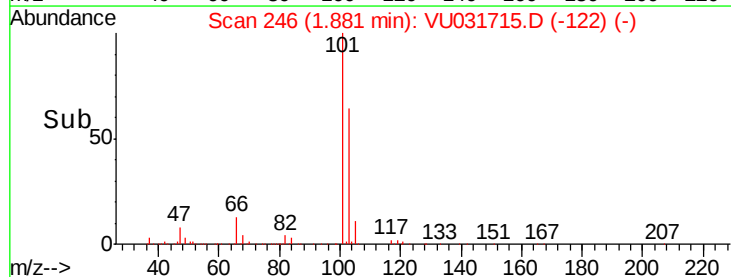
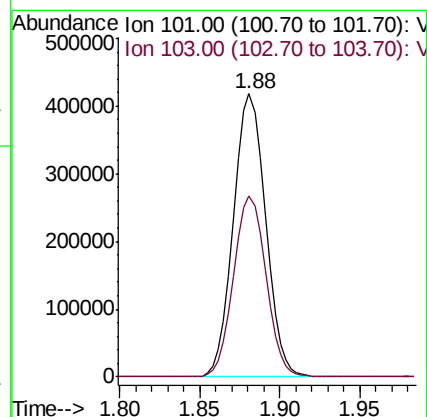
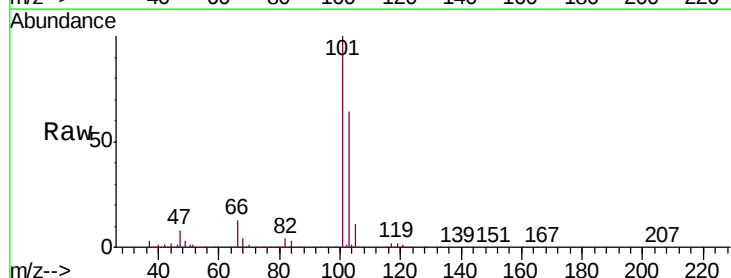
Acq: 02 May 2019 16:24

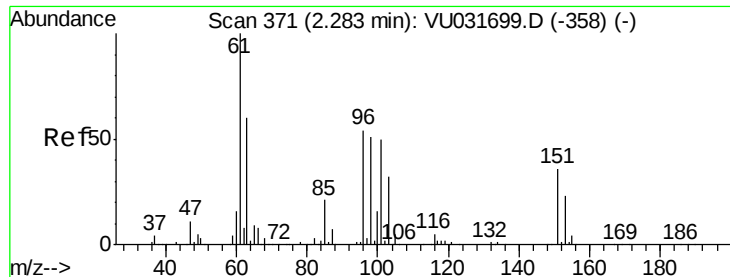
Tgt Ion: 101 Resp: 573234

Ion Ratio Lower Upper

101 100

103 64.4 50.8 76.2





#10

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

Concen: 46.200 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

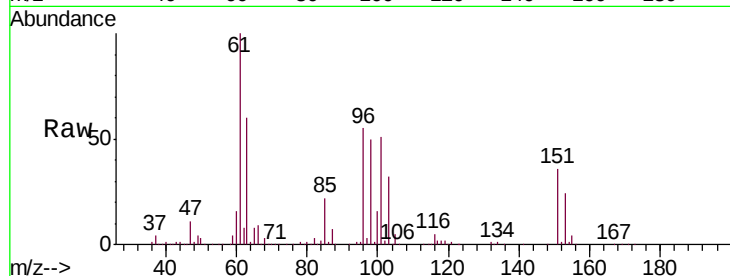
Tgt Ion: 101 Resp: 354101

Ion Ratio Lower Upper

101 100

85 43.5 36.1 54.1

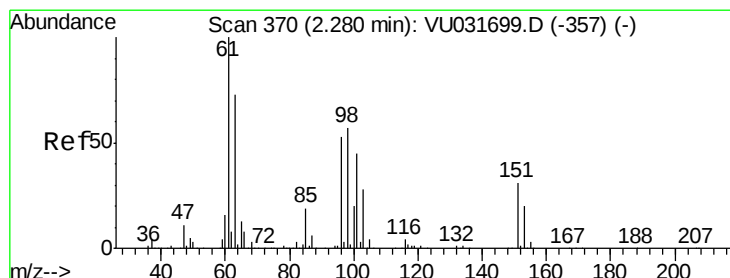
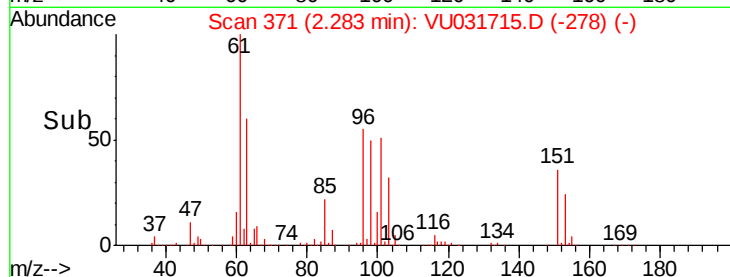
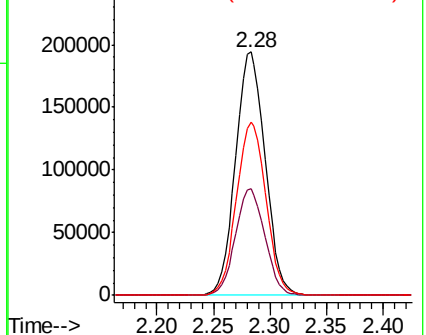
151 71.0 56.1 84.1



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: 45.144 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

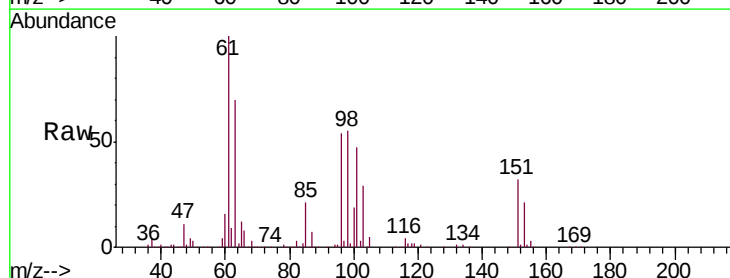
Tgt Ion: 96 Resp: 336783

Ion Ratio Lower Upper

96 100

61 186.6 135.0 250.6

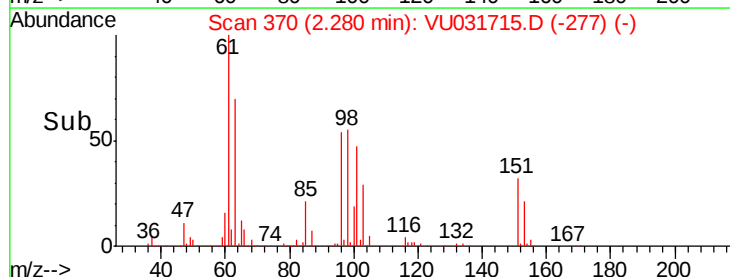
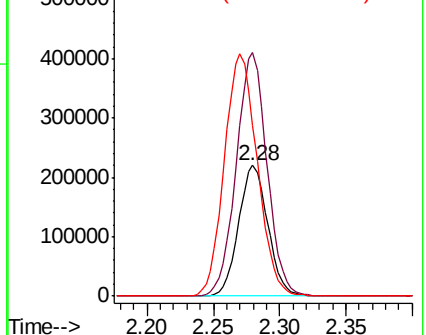
63 130.8 103.5 192.3

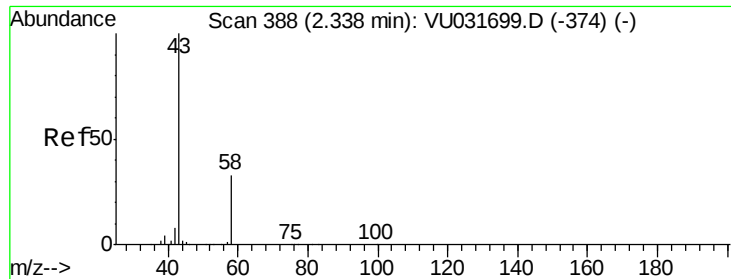


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 86.077 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

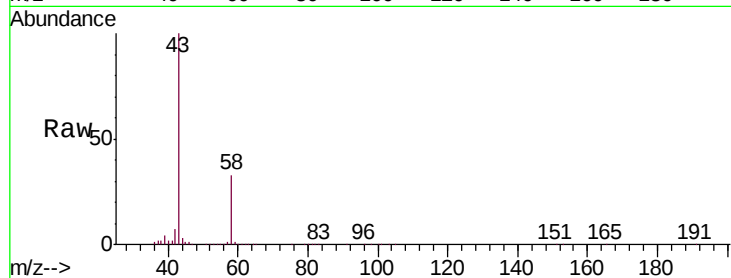
VSTD05031

Tgt Ion: 43 Resp: 703016

Ion Ratio Lower Upper

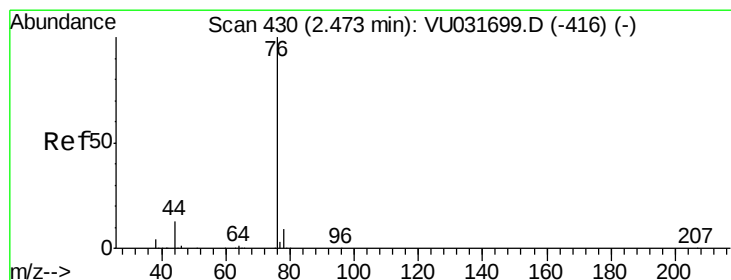
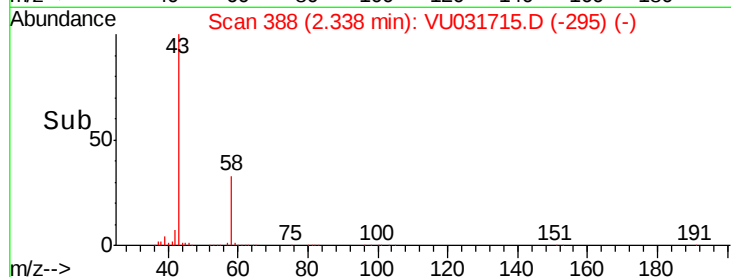
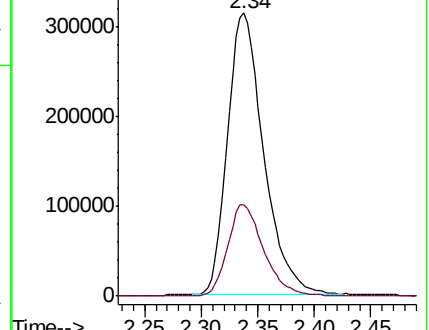
43 100

58 31.8 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031699.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031699.D (-374) (-)



#14

Carbon disulfide

Concen: 40.531 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031715.D

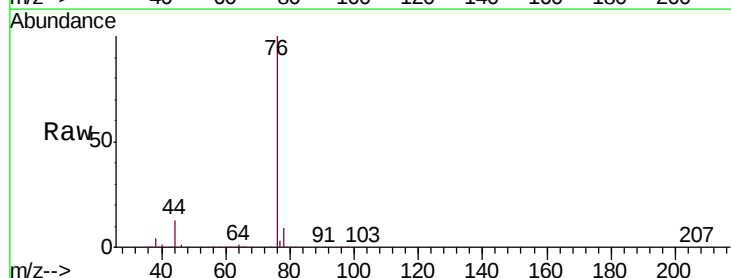
Acq: 02 May 2019 16:24

Tgt Ion: 76 Resp: 1003374

Ion Ratio Lower Upper

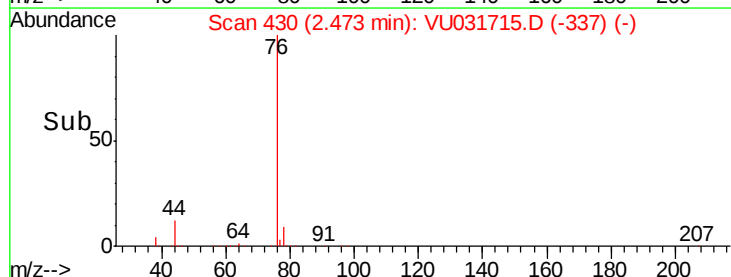
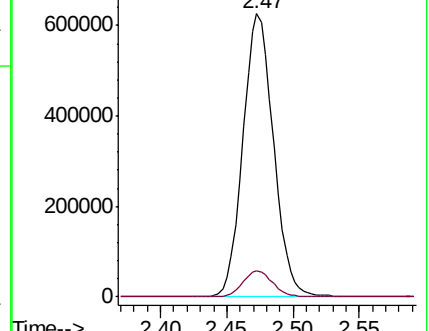
76 100

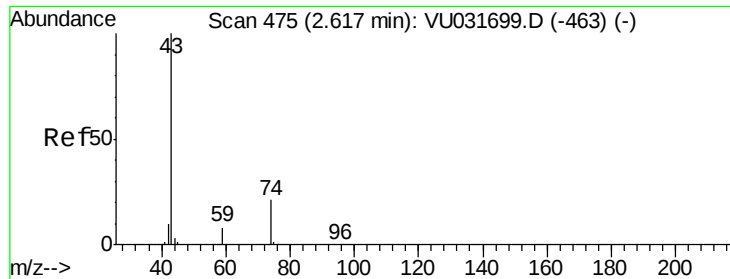
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031699.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031699.D (-416) (-)

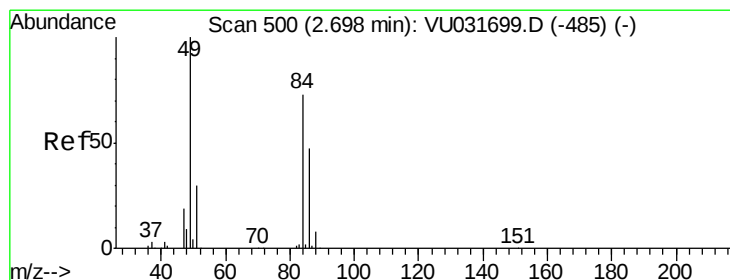
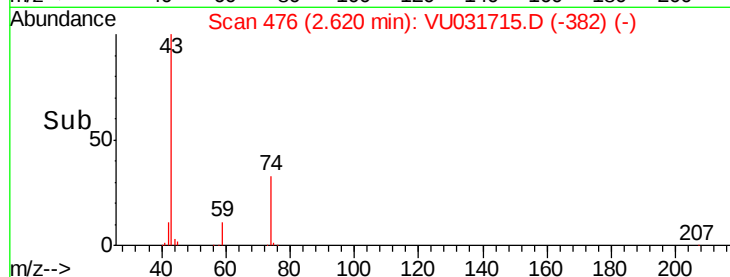
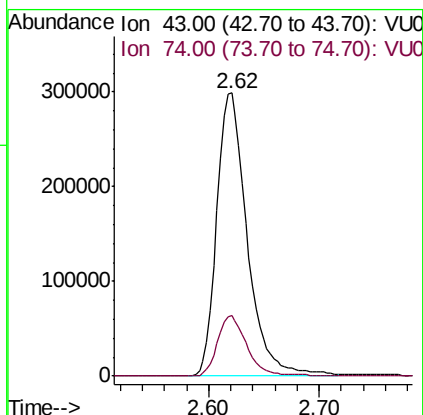
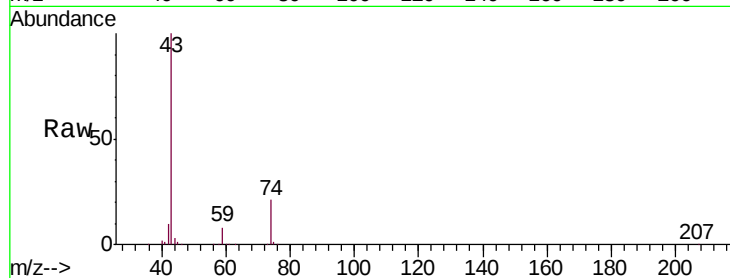




#15
Methyl Acetate
Concen: 45.951 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

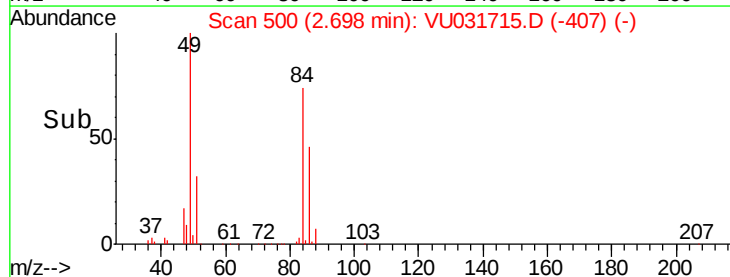
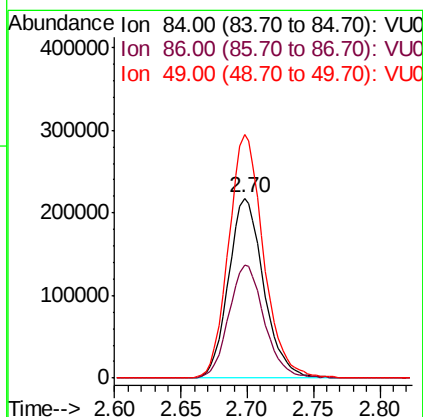
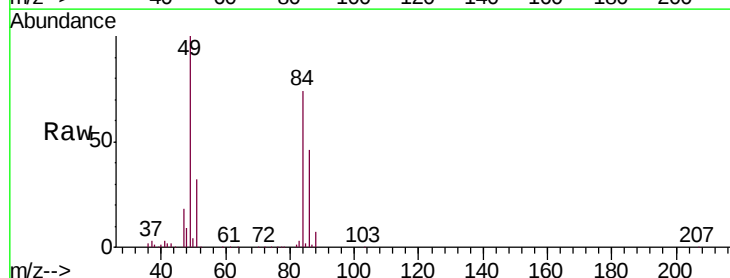
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

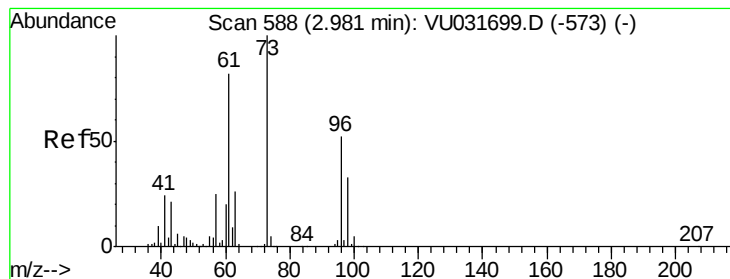
Tgt Ion: 43 Resp: 567865
Ion Ratio Lower Upper
43 100
74 21.0 15.7 23.5



#16
Methylene chloride
Concen: 45.566 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion: 84 Resp: 401166
Ion Ratio Lower Upper
84 100
86 62.8 44.7 83.1
49 135.4 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 45.543 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

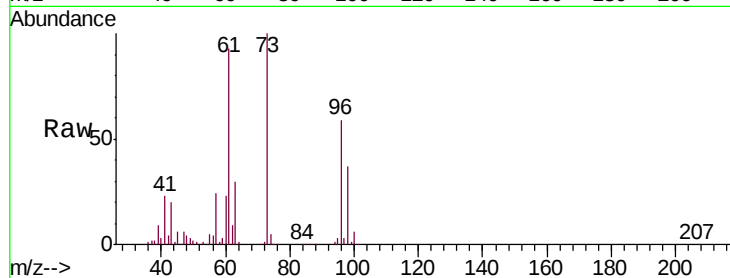
Tgt Ion: 96 Resp: 354028

Ion Ratio Lower Upper

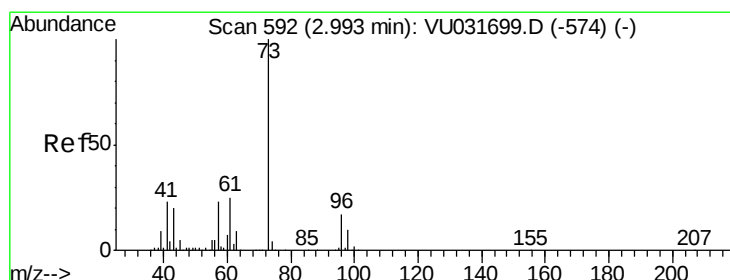
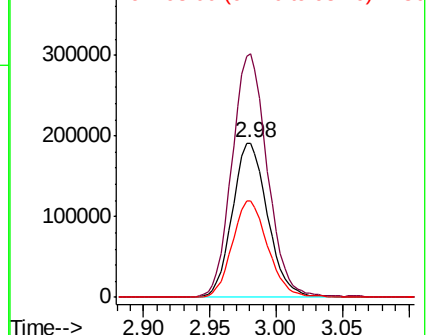
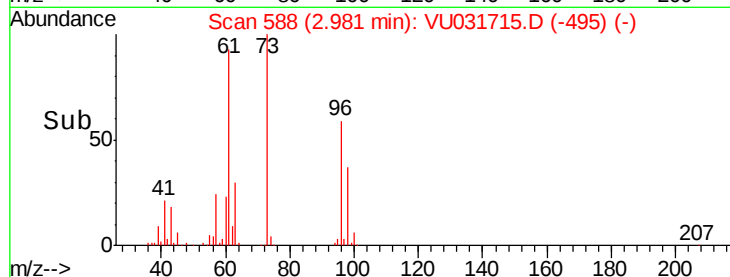
96 100

61 158.0 114.5 212.7

98 62.8 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031715.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 52.678 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

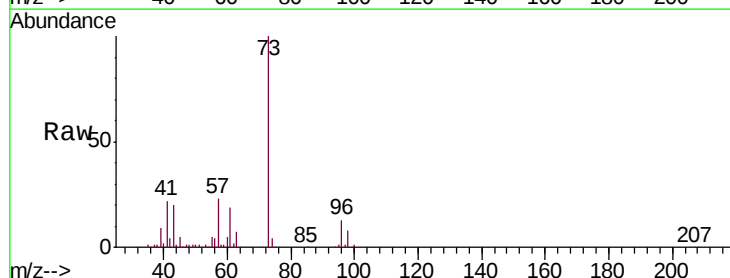
Tgt Ion: 73 Resp: 1304632

Ion Ratio Lower Upper

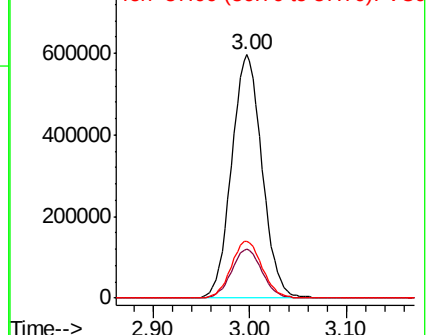
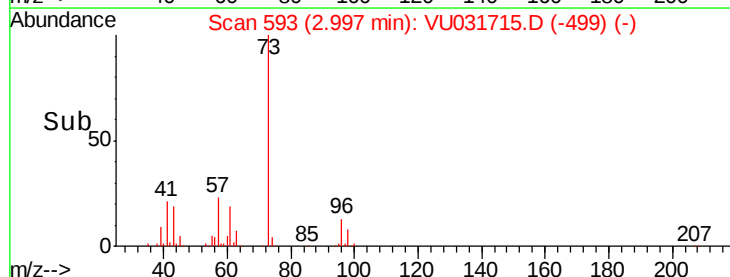
73 100

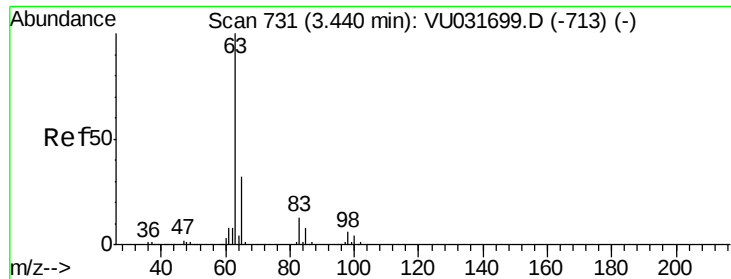
43 20.0 17.0 25.4

57 23.7 19.5 29.3



Abundance Ion 73.00 (72.70 to 73.70): VU031715.D (-499) (-)

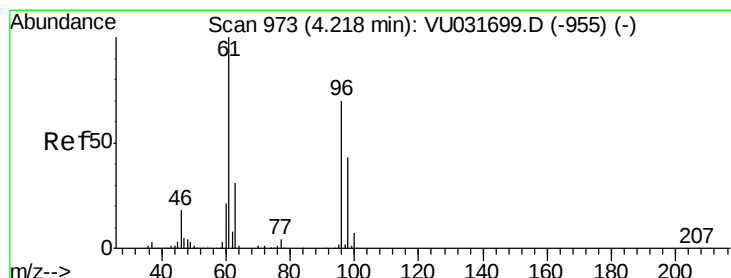
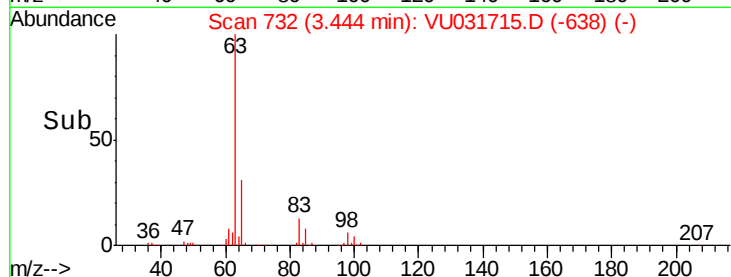
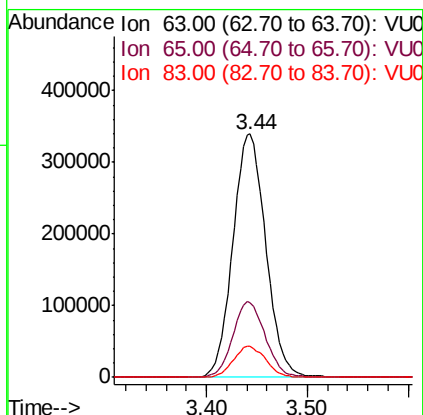
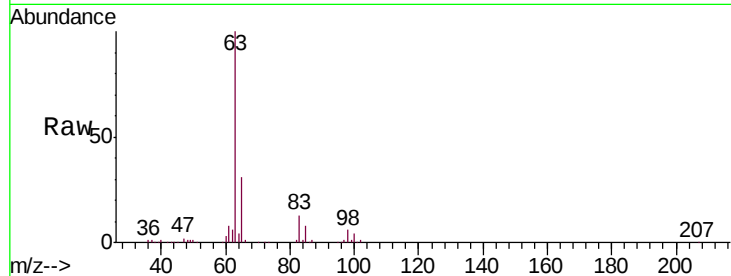




#19
 1,1-Dichloroethane
 Concen: 47.022 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

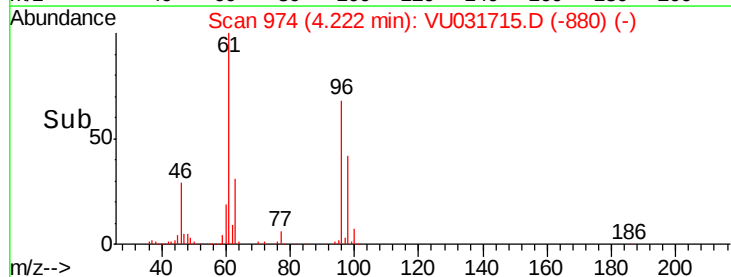
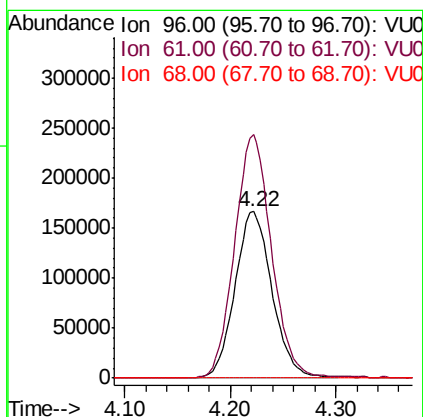
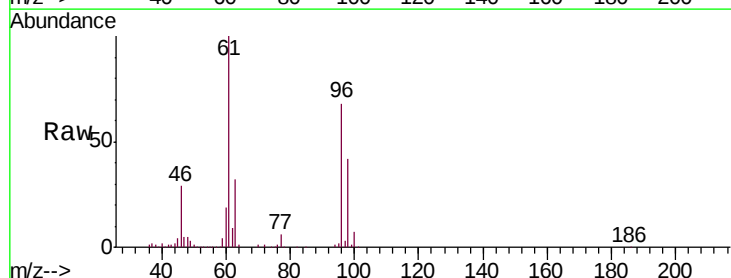
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

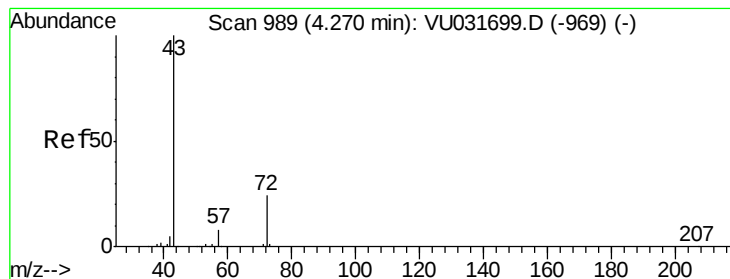
Tgt Ion: 63 Resp: 769800
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.0 40.8
 83 12.7 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 48.761 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

Tgt Ion: 96 Resp: 406589
 Ion Ratio Lower Upper
 96 100
 61 146.0 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 103.695 ug/L

RT: 4.27 min Scan# 989

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

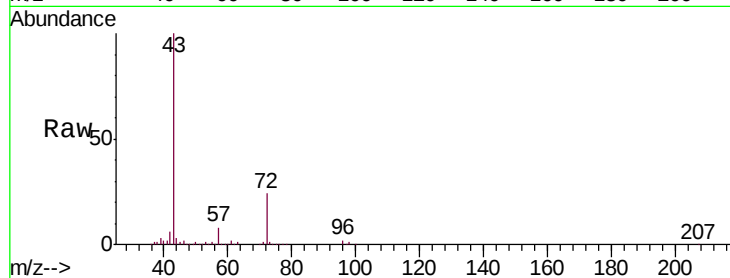
VSTD05031

Tgt Ion: 43 Resp: 938292

Ion Ratio Lower Upper

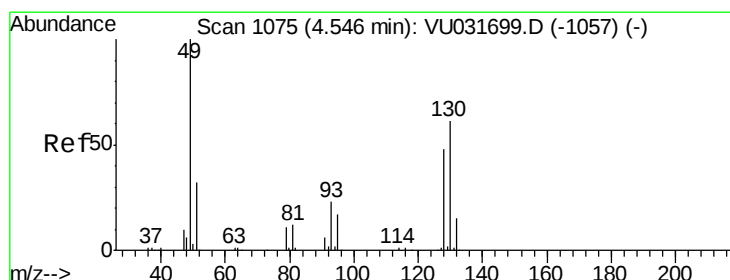
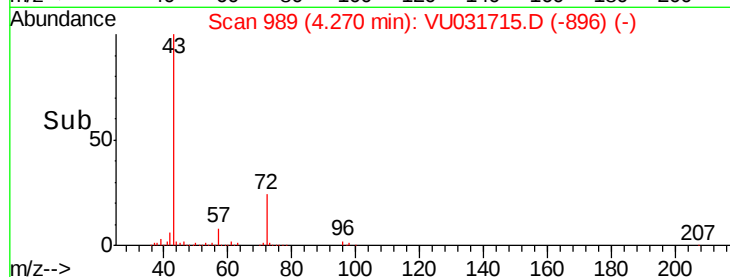
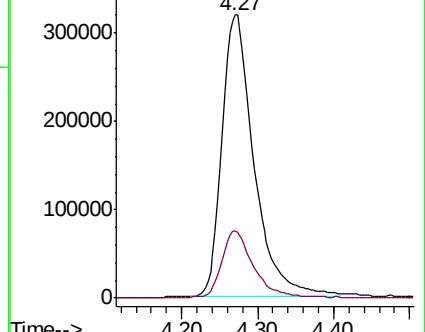
43 100

72 22.5 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031699.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU031699.D (-969) (-)



#23

Bromochloromethane

Concen: 46.433 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Tgt Ion: 128 Resp: 188137

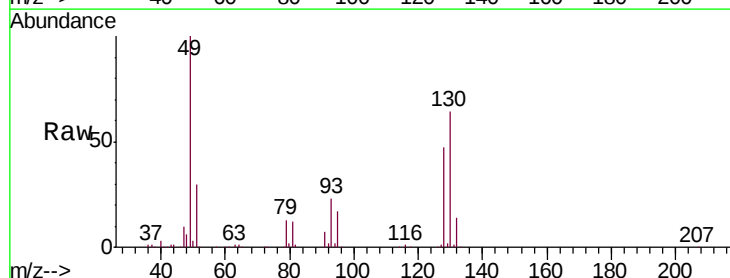
Ion Ratio Lower Upper

128 100

49 212.0 152.6 283.4

130 135.7 93.7 173.9

51 64.0 54.2 81.4

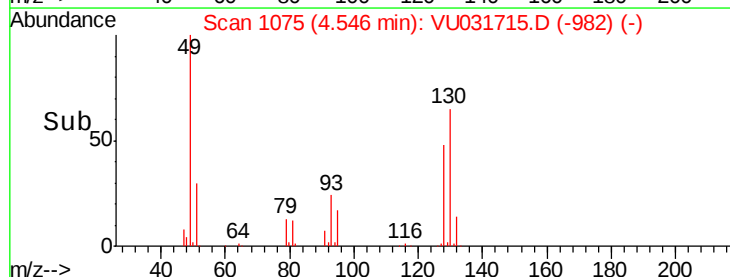
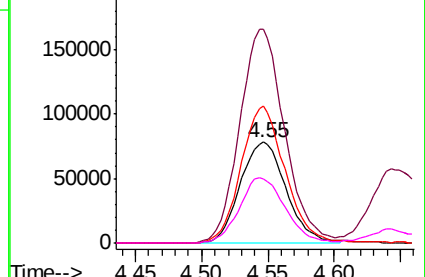


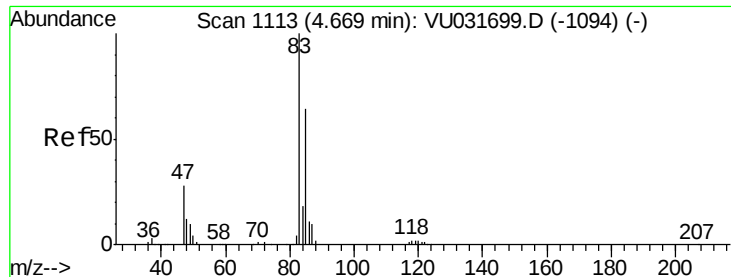
Abundance Ion 128.00 (127.70 to 128.70): VU031699.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU031699.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU031699.D (-1057) (-)

Ion 51.00 (50.70 to 51.70): VU031699.D (-1057) (-)

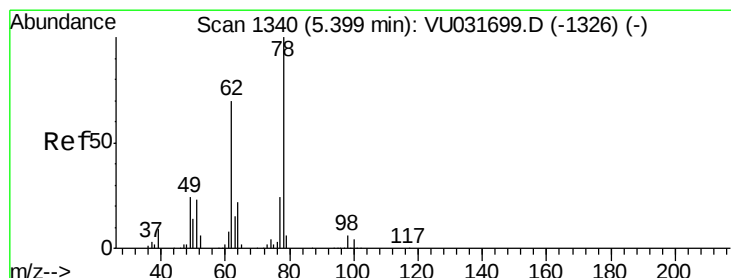
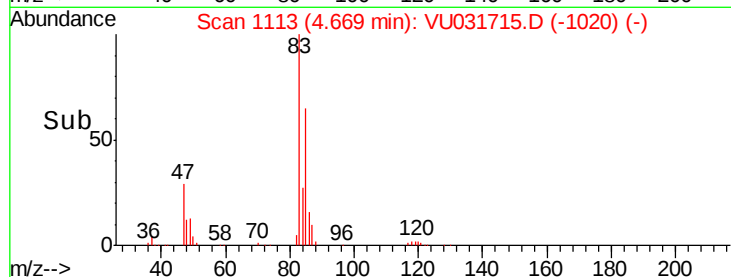
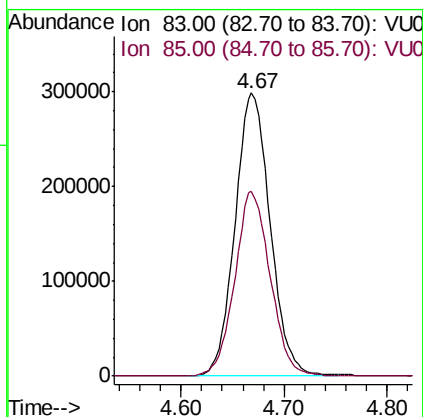
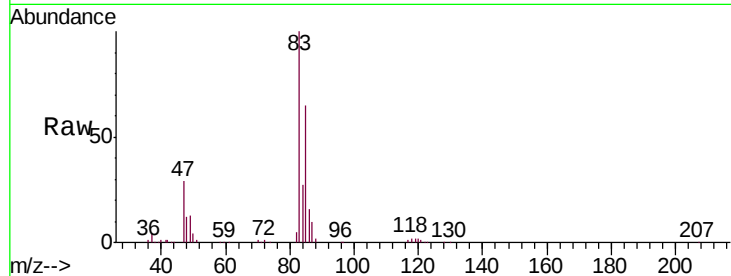




#25
Chloroform
Concen: 45.281 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

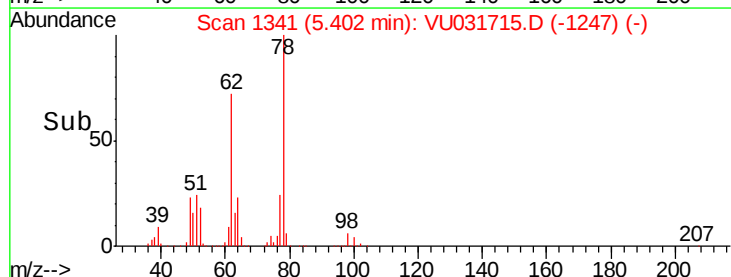
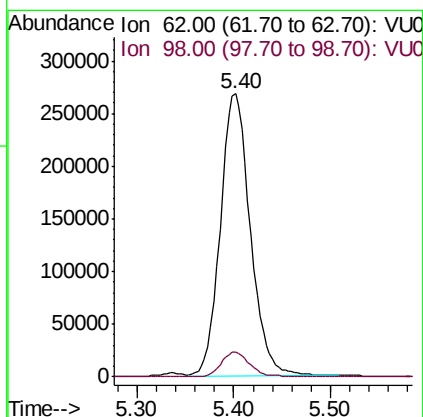
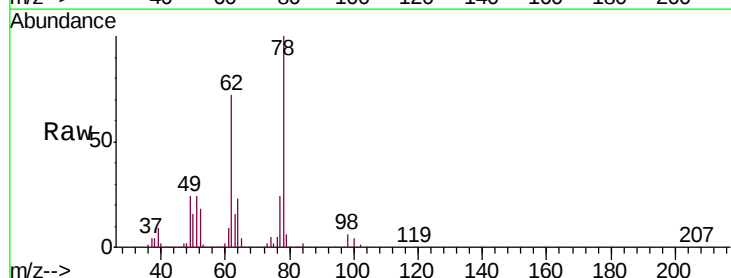
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

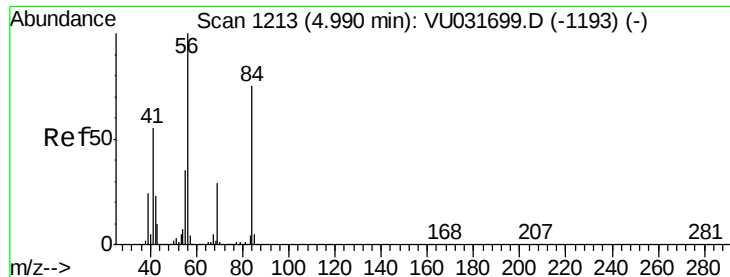
Tgt Ion: 83 Resp: 708862
Ion Ratio Lower Upper
83 100
85 65.3 44.9 83.3



#27
1,2-Dichloroethane
Concen: 45.498 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion: 62 Resp: 578538
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7

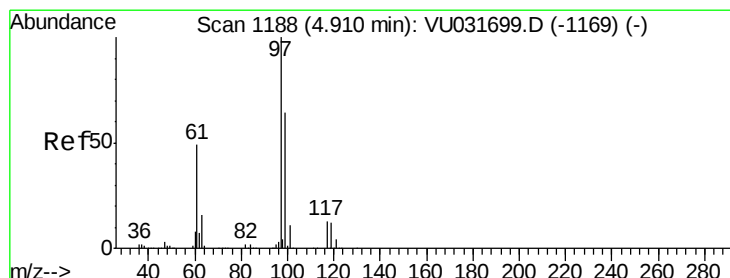
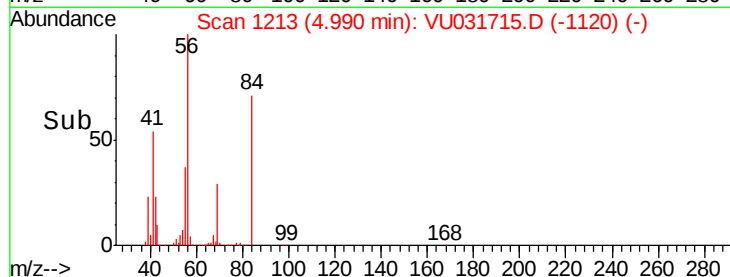
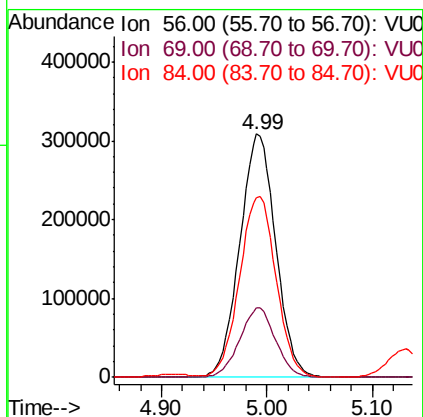
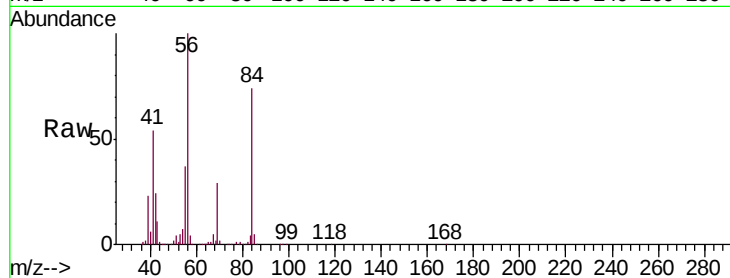




#29
Cyclohexane
Concen: 51.316 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

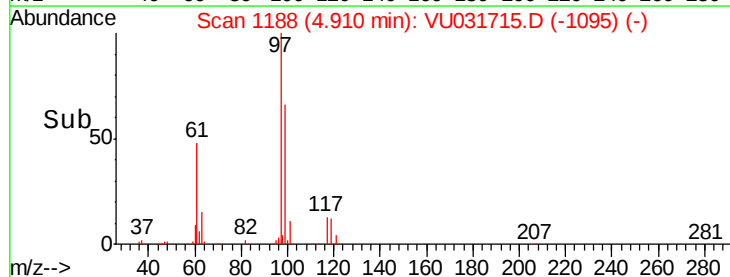
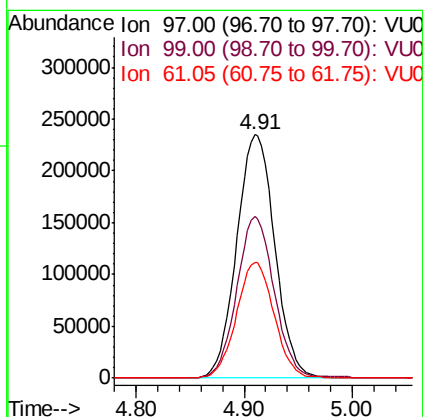
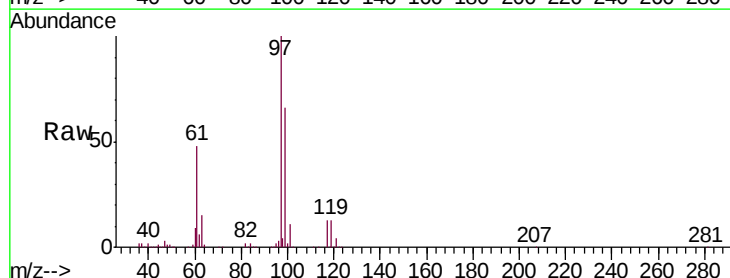
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

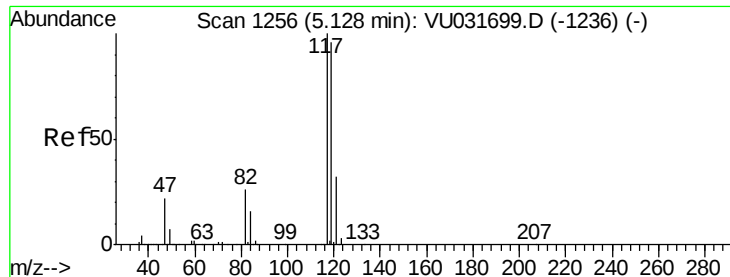
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.3	22.3	33.5
84	74.9	57.5	86.3



#30
1,1,1-Trichloroethane
Concen: 45.584 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.0	78.0
61	46.9	38.7	58.1



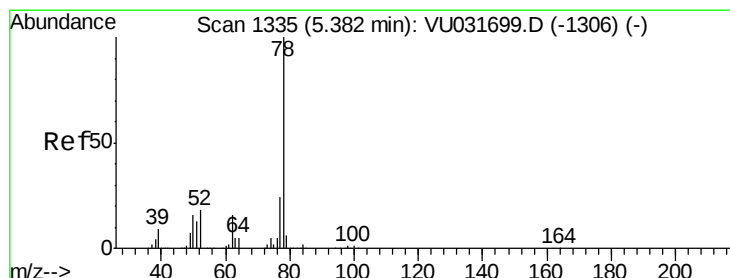
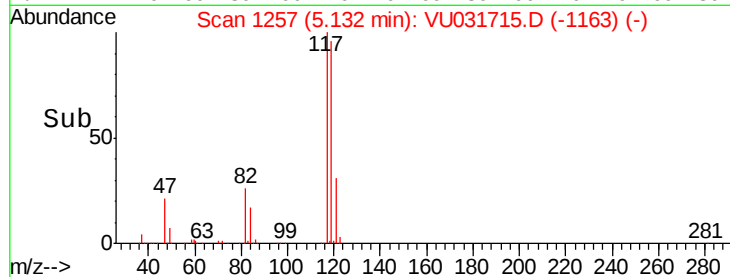
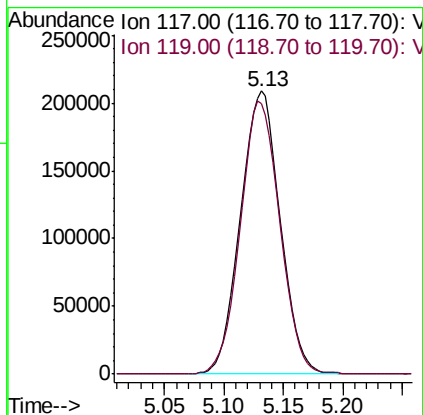
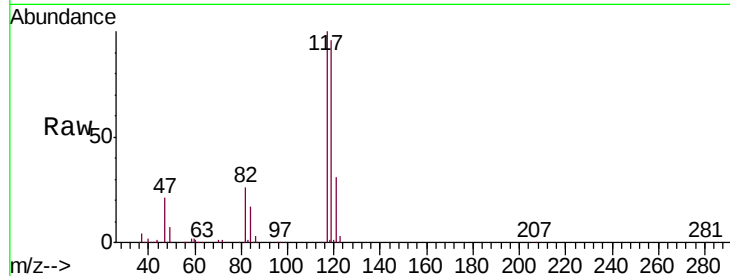


#31

Carbon tetrachloride
Concen: 44.637 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

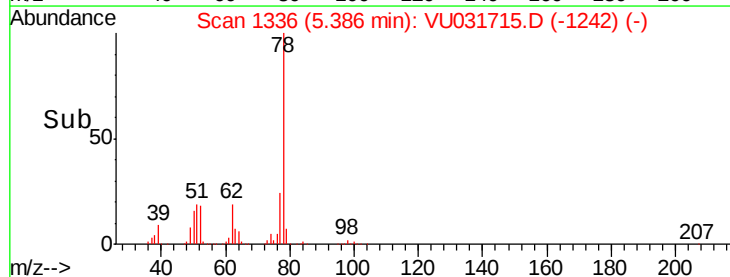
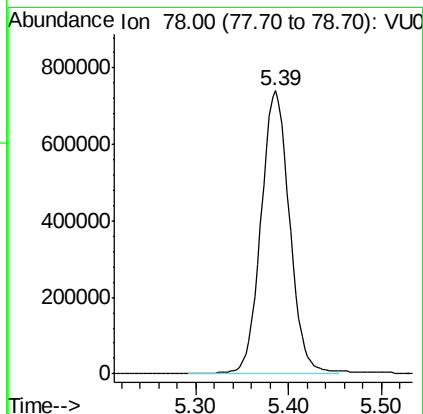
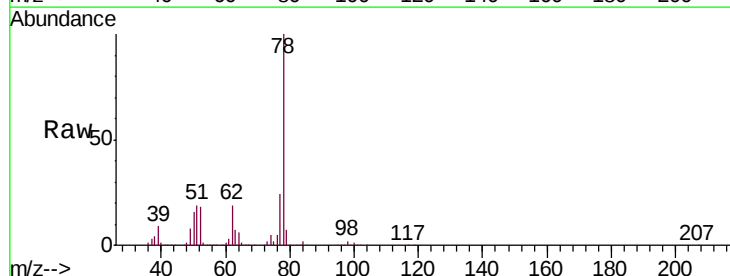
Tgt Ion:117 Resp: 482528
Ion Ratio Lower Upper
117 100
119 95.9 76.6 114.8

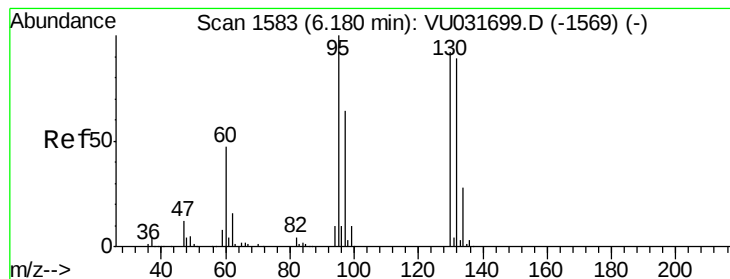


#33

Benzene
Concen: 47.927 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion: 78 Resp: 1590576





#34

Trichloroethene

Concen: 49.094 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

Tgt Ion: 95 Resp: 394951

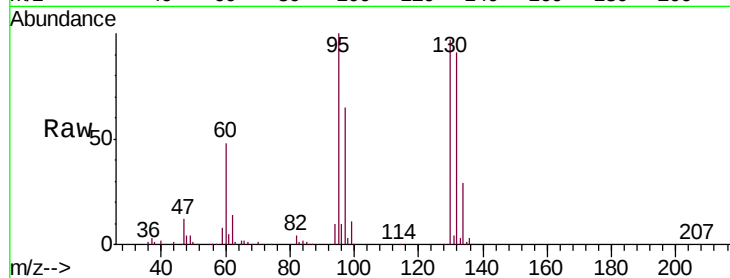
Ion Ratio Lower Upper

95 100

97 65.0 44.8 83.2

132 91.0 63.1 117.1

130 96.8 66.5 123.5

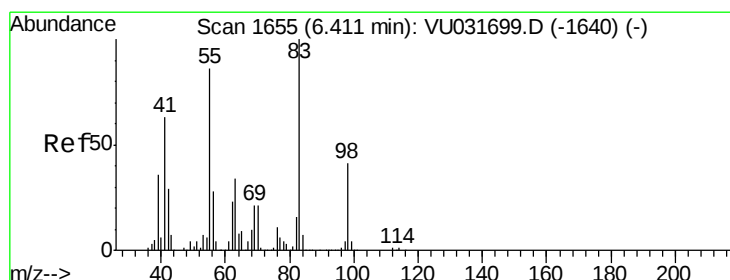
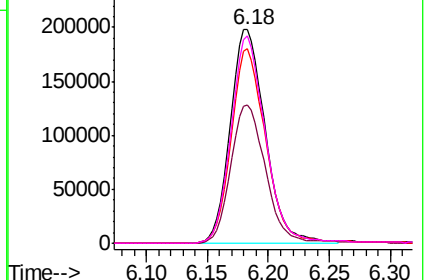
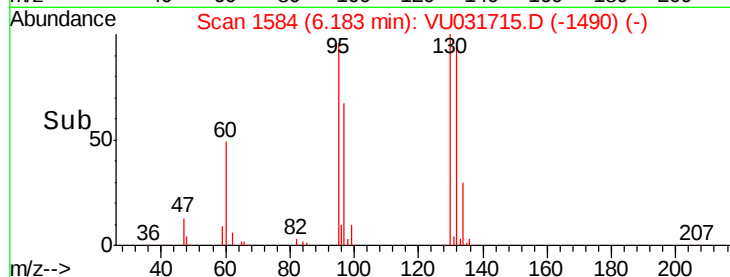


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 53.054 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

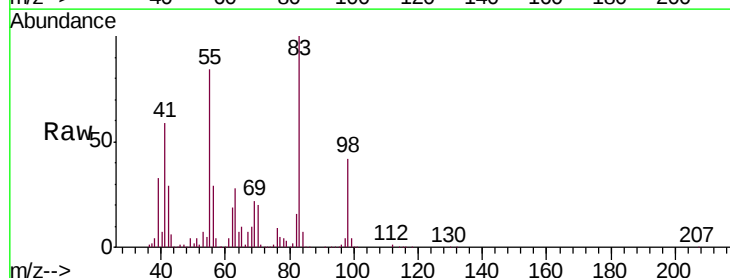
Tgt Ion: 83 Resp: 639643

Ion Ratio Lower Upper

83 100

55 85.0 73.0 109.4

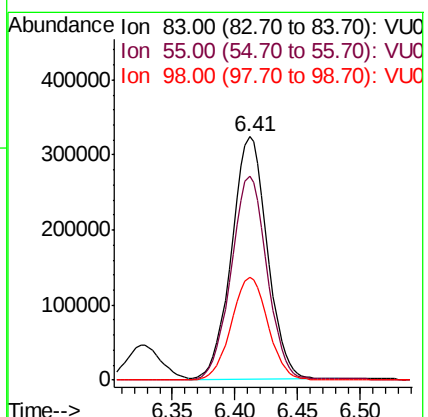
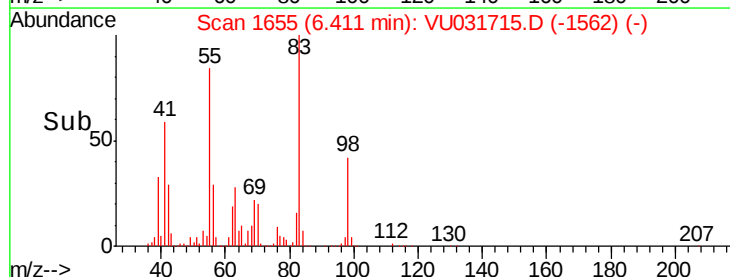
98 43.6 35.3 52.9

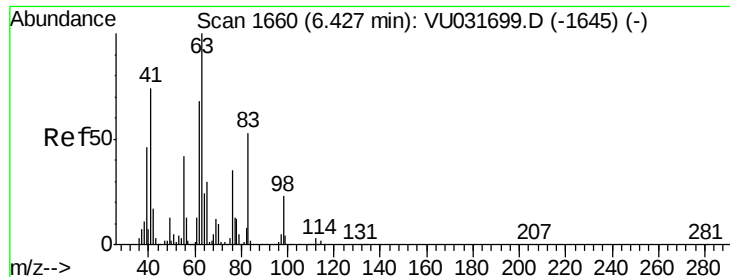


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.145 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

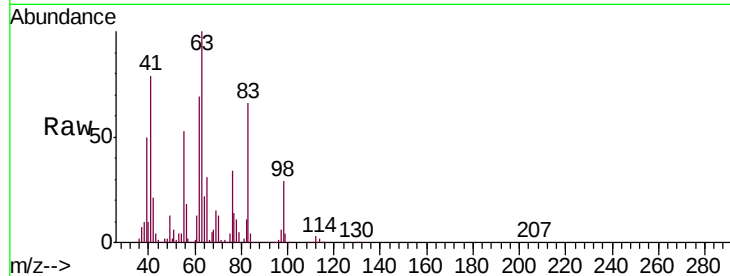
VSTD05031

Tgt Ion: 63 Resp: 463025

Ion Ratio Lower Upper

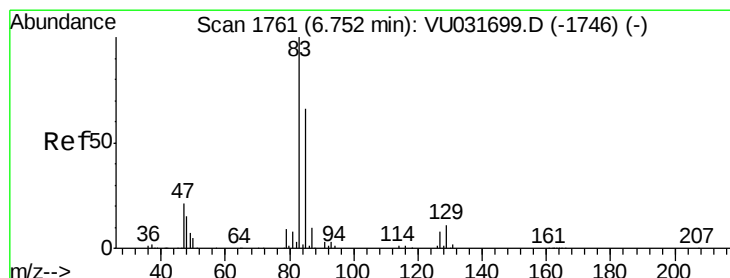
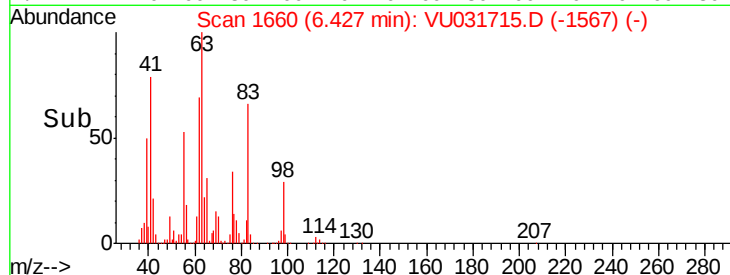
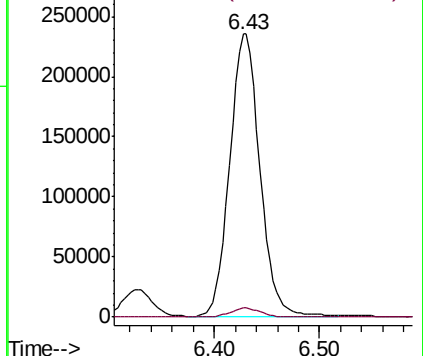
63 100

112 3.3 2.7 4.1



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 46.784 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

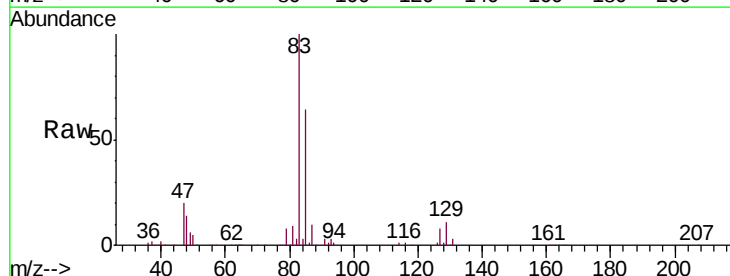
Tgt Ion: 83 Resp: 534447

Ion Ratio Lower Upper

83 100

85 63.7 43.7 81.1

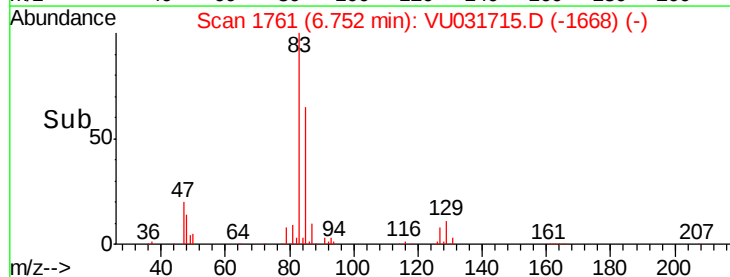
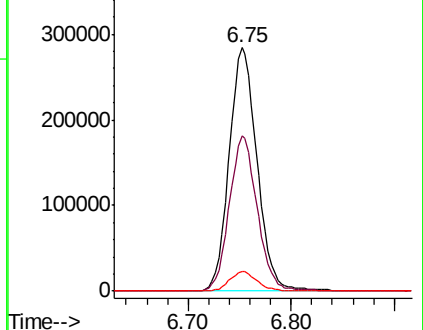
127 8.2 6.7 10.1

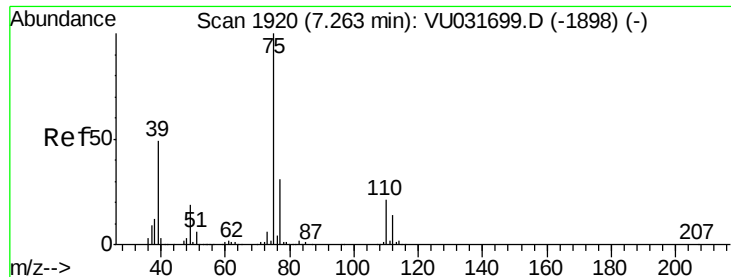


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

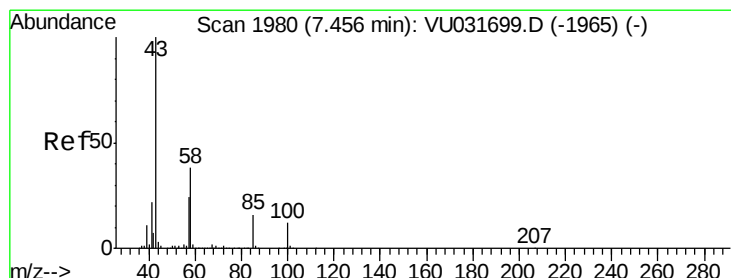
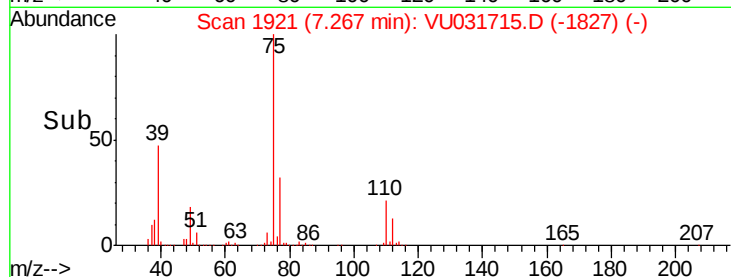
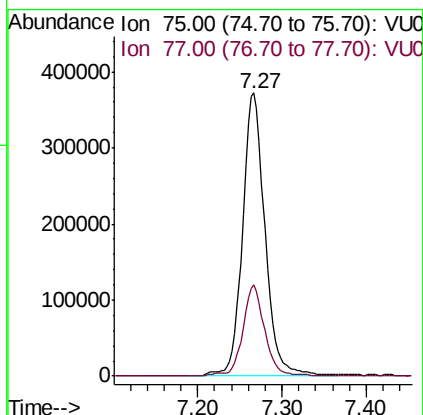
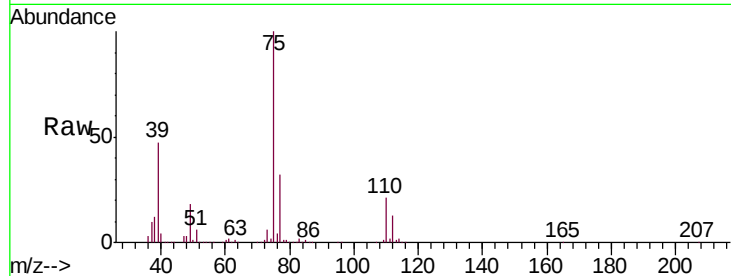




#39
 cis-1,3-Dichloropropene
 Concen: 55.914 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

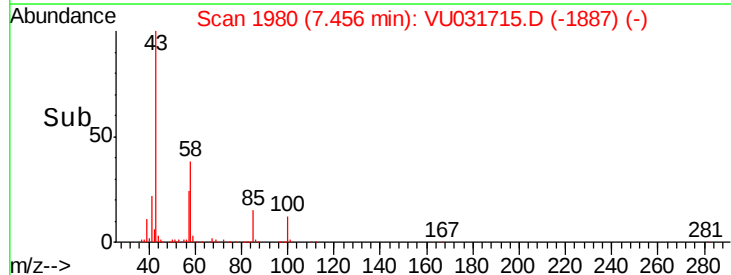
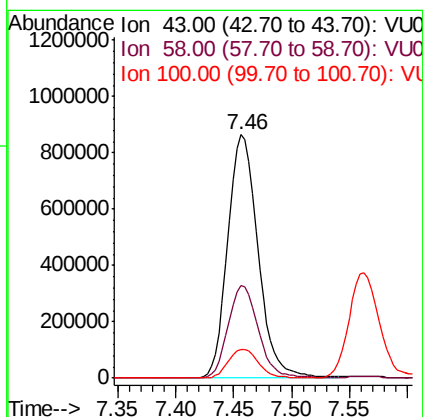
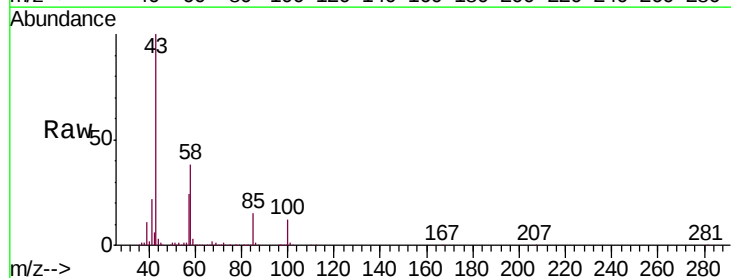
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

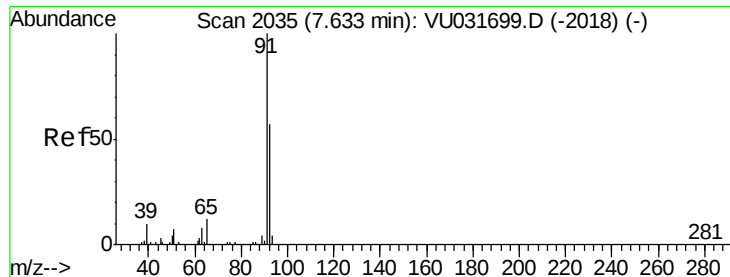
Tgt Ion: 75 Resp: 696105
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 107.777 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

Tgt Ion: 43 Resp: 1562297
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.1 45.1
 100 12.0 9.6 14.4





#42

Toluene

Concen: 50.631 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

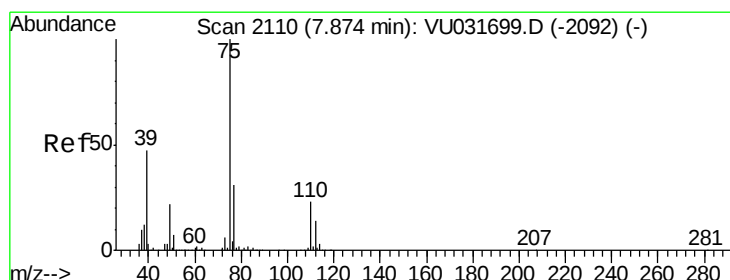
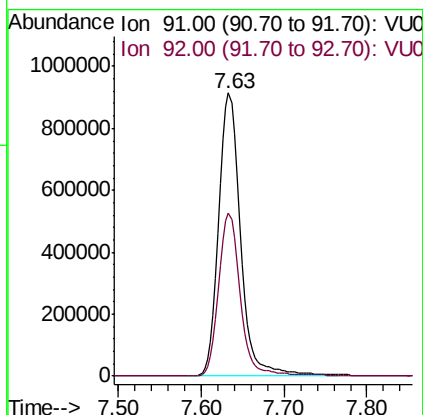
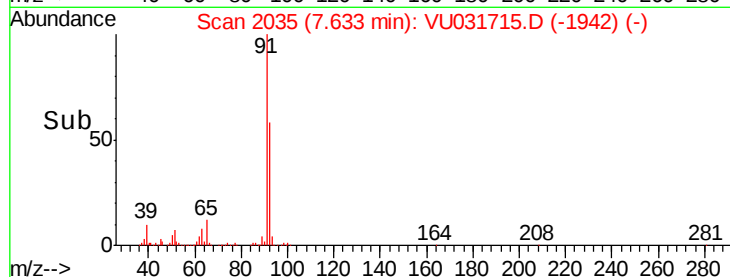
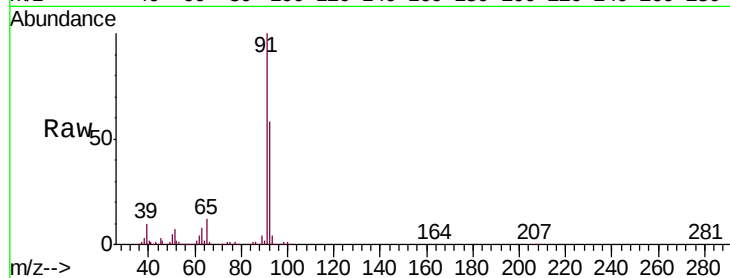
VSTD05031

Tgt Ion: 91 Resp: 1673830

Ion Ratio Lower Upper

91 100

92 57.6 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 52.973 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031715.D

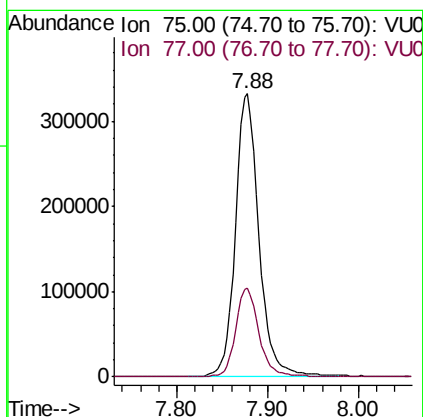
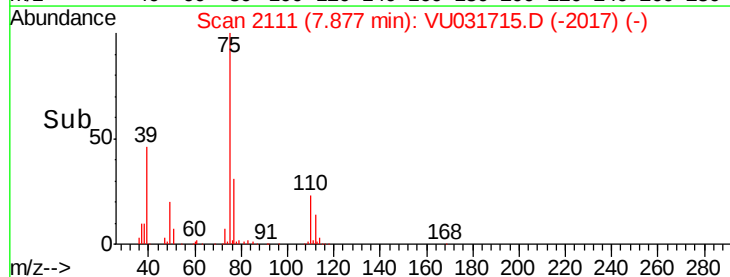
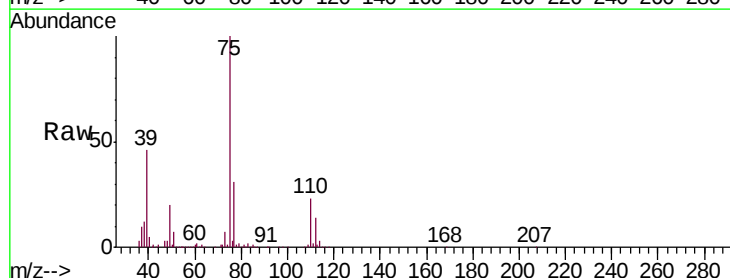
Acq: 02 May 2019 16:24

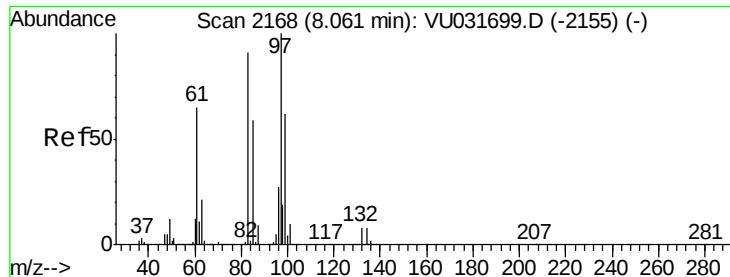
Tgt Ion: 75 Resp: 598162

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1

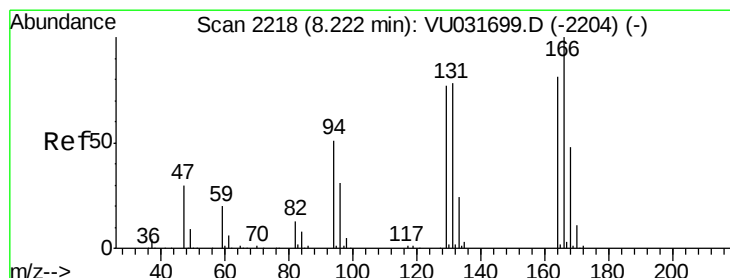
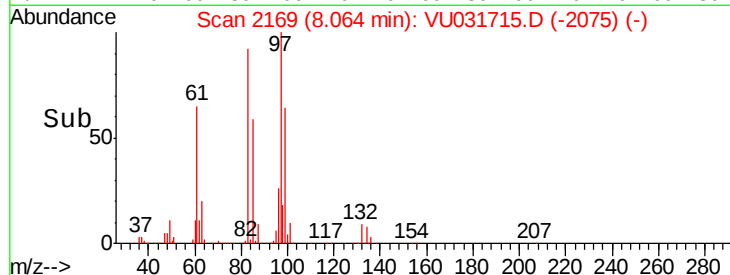
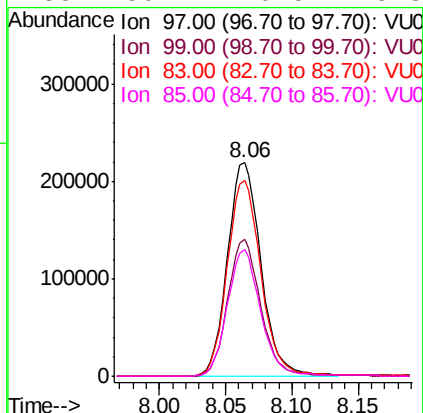
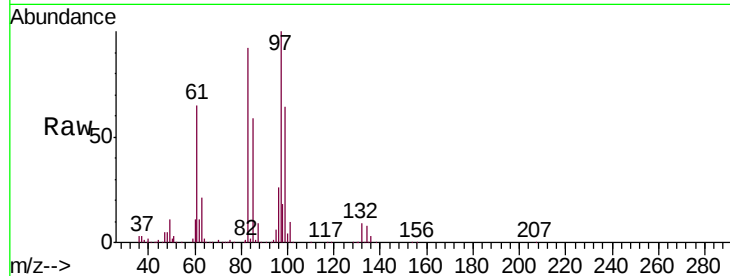




#45
 1,1,2-Trichloroethane
 Concen: 49.686 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

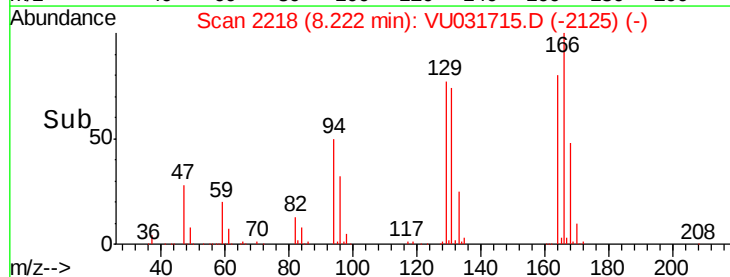
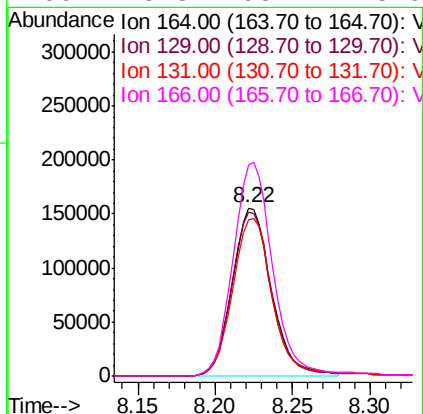
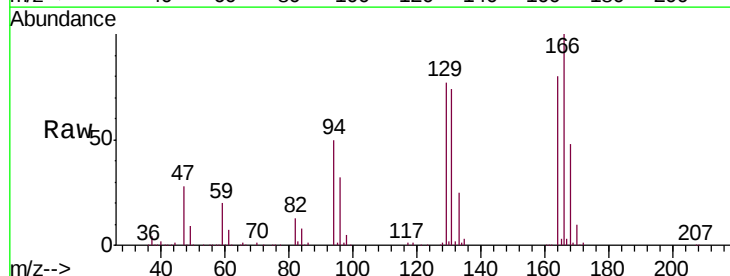
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

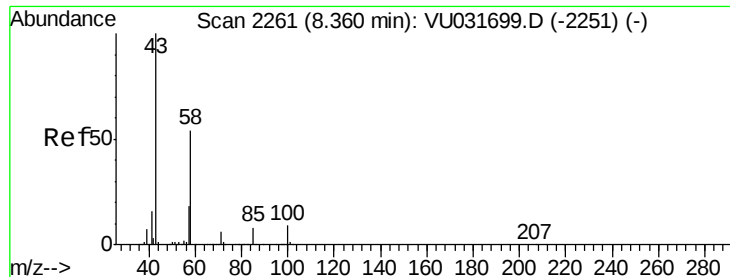
Tgt Ion:	97	Resp:	385922
Ion	Ratio	Lower	Upper
97	100		
99	64.1	43.0	80.0
83	91.6	63.6	118.2
85	59.1	40.5	75.3



#46
 Tetrachloroethene
 Concen: 49.778 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031715.D
 Acq: 02 May 2019 16:24

Tgt Ion:	164	Resp:	273004
Ion	Ratio	Lower	Upper
164	100		
129	97.3	71.5	132.9
131	93.0	69.0	128.2
166	125.8	93.7	173.9

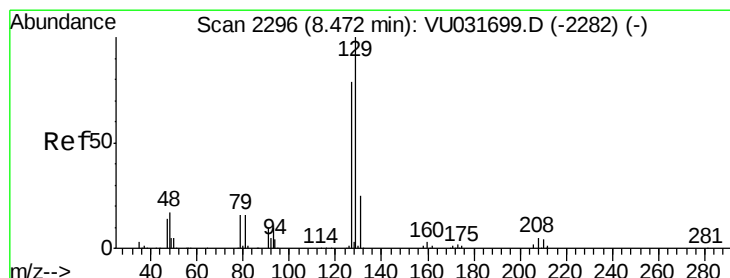
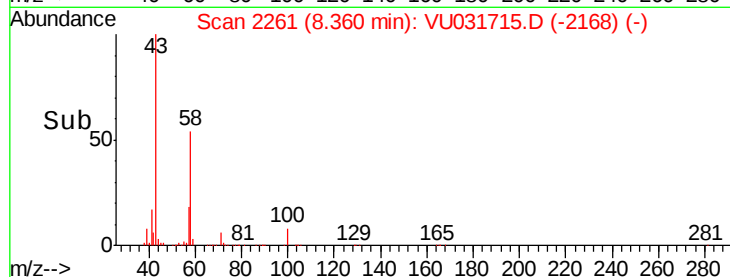
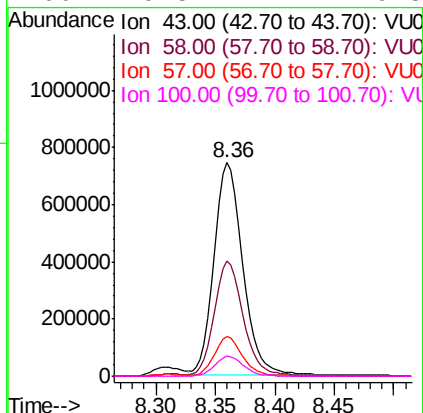
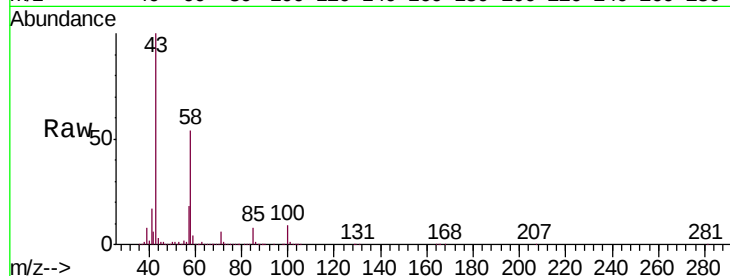




#48
2-Hexanone
Concen: 106.903 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

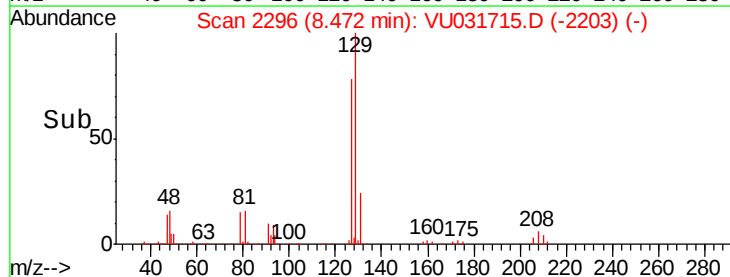
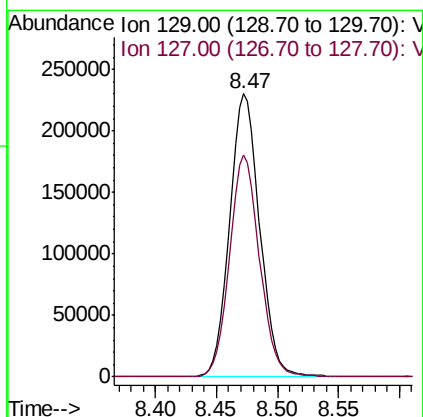
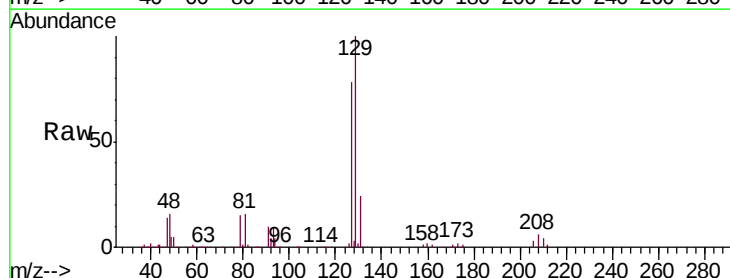
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

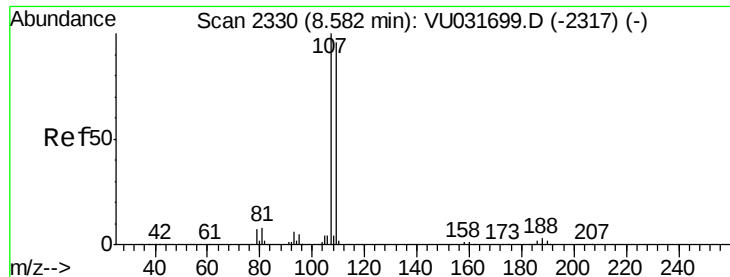
Tgt Ion: 43 Resp: 1253322
Ion Ratio Lower Upper
43 100
58 54.2 42.1 63.1
57 17.9 14.6 22.0
100 9.5 7.2 10.8



#49
Dibromochloromethane
Concen: 49.025 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion: 129 Resp: 396202
Ion Ratio Lower Upper
129 100
127 78.2 54.0 100.2

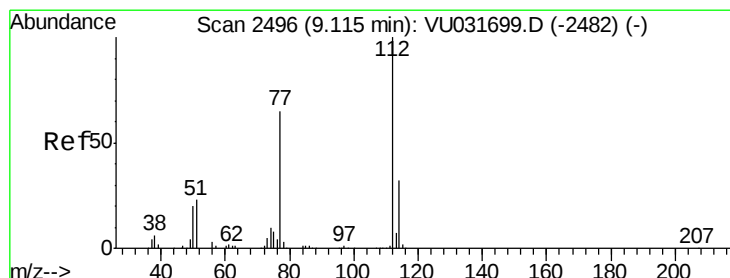
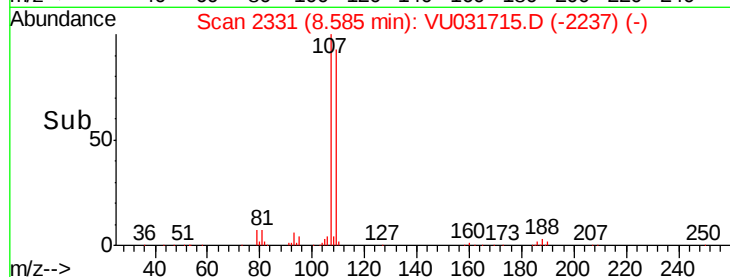
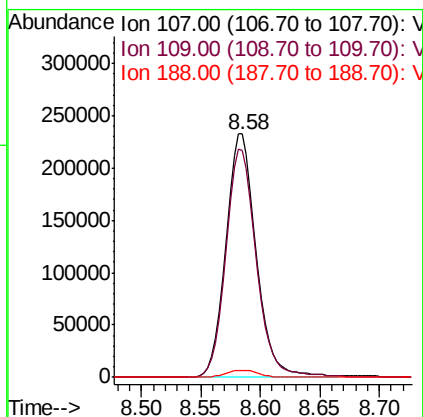
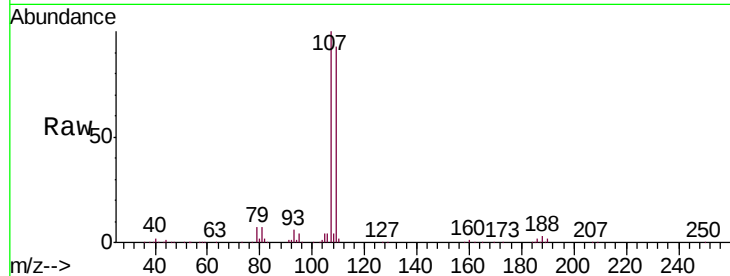




#50
1,2-Dibromoethane
Concen: 50.168 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

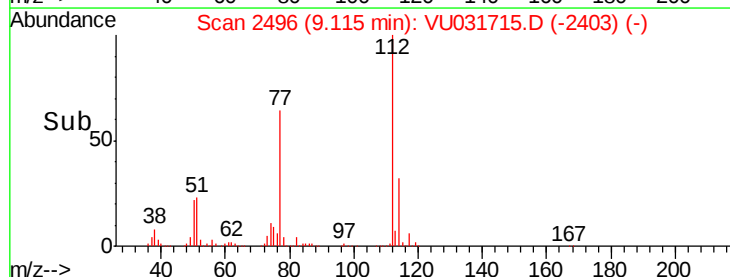
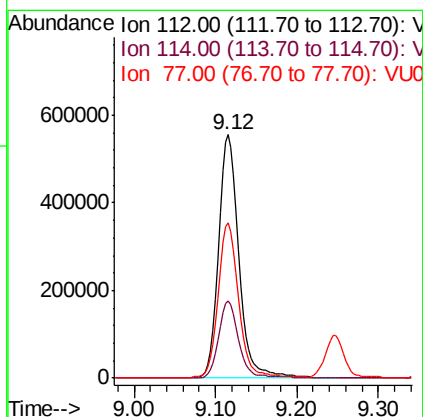
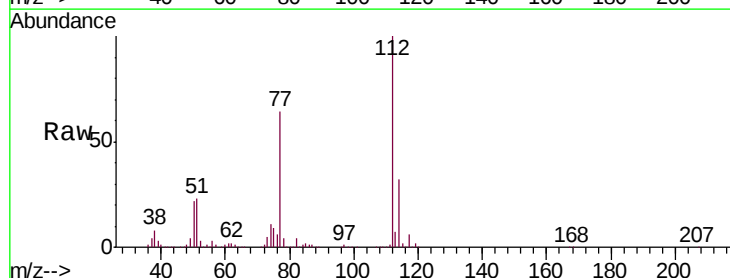
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

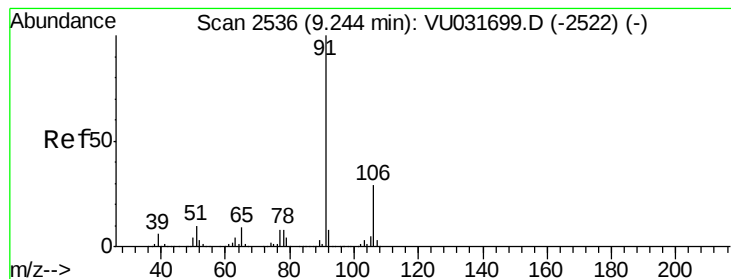
Tgt Ion:107 Resp: 411542
Ion Ratio Lower Upper
107 100
109 93.2 64.9 120.5
188 3.0 2.4 3.6



#51
Chlorobenzene
Concen: 50.369 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031715.D
Acq: 02 May 2019 16:24

Tgt Ion:112 Resp: 984006
Ion Ratio Lower Upper
112 100
114 31.8 23.3 43.3
77 63.7 53.0 79.4





#52

Ethylbenzene

Concen: 53.250 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

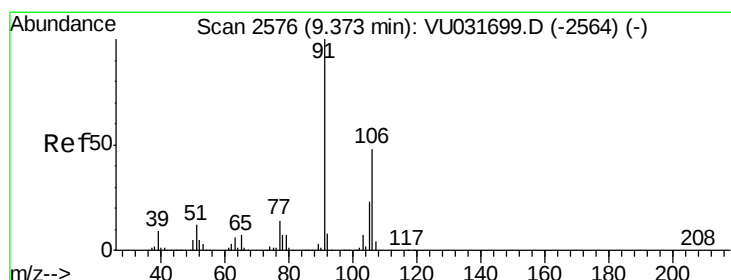
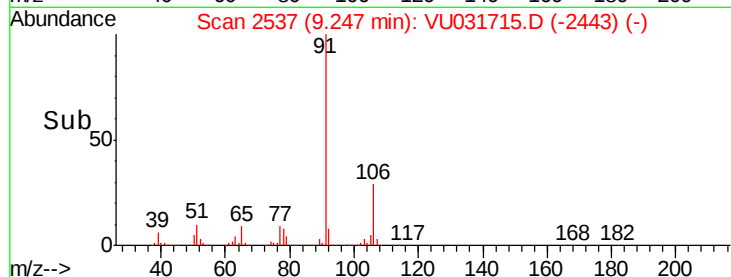
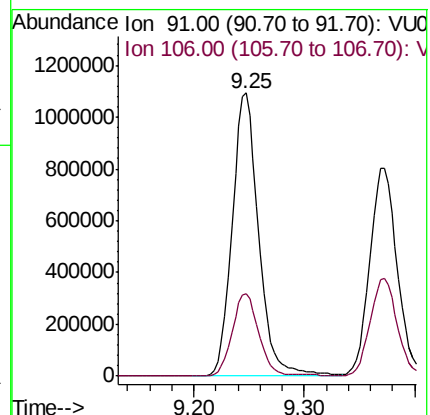
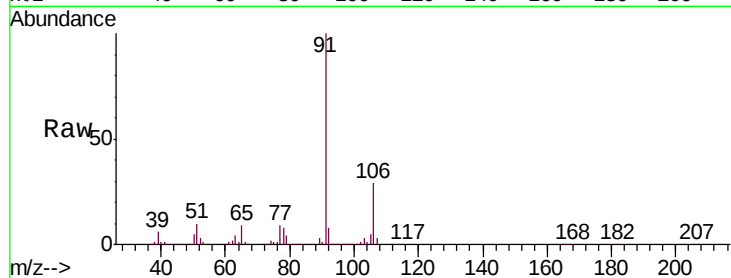
VSTD05031

Tgt Ion: 91 Resp: 1826082

Ion Ratio Lower Upper

91 100

106 29.2 20.4 37.8



#53

m,p-Xylene

Concen: 53.543 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031715.D

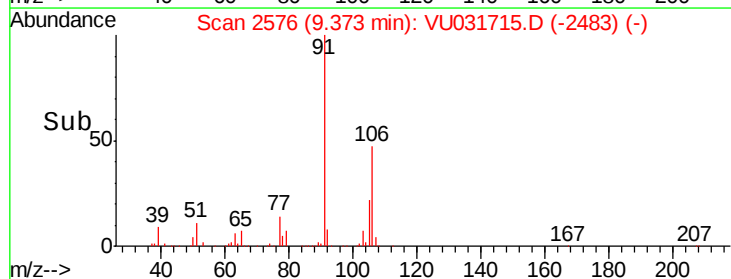
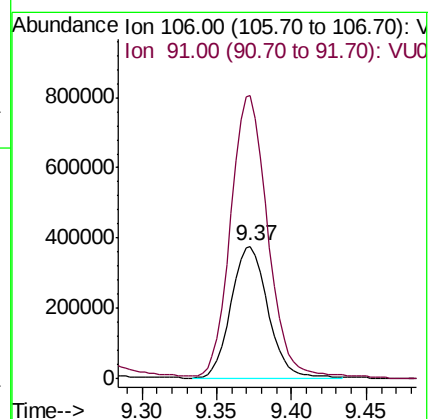
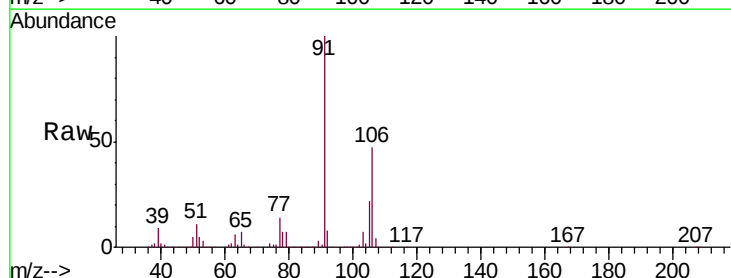
Acq: 02 May 2019 16:24

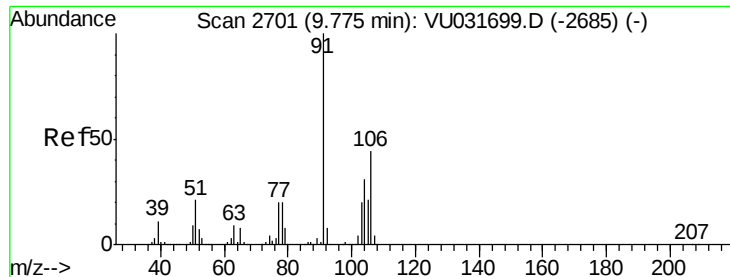
Tgt Ion: 106 Resp: 639737

Ion Ratio Lower Upper

106 100

91 213.6 152.2 282.6





#54

o-xylene

Concen: 55.321 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

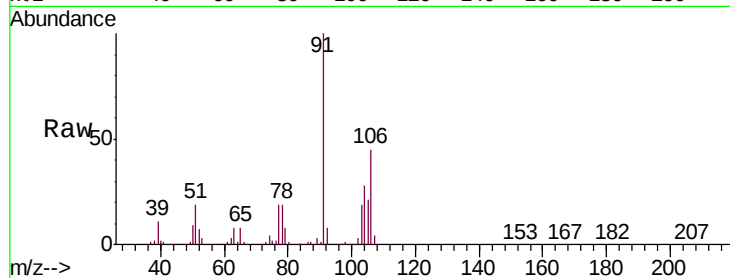
VSTD05031

Tgt Ion:106 Resp: 655296

Ion Ratio Lower Upper

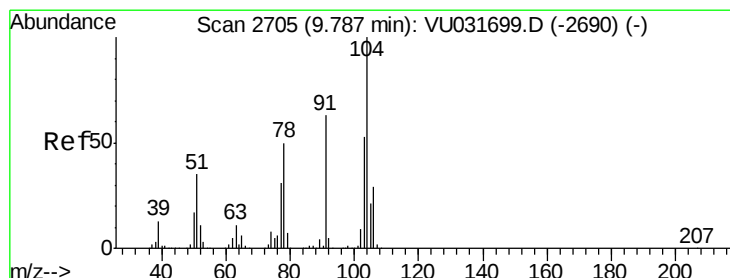
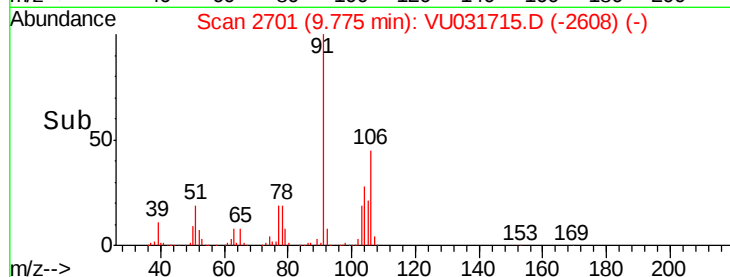
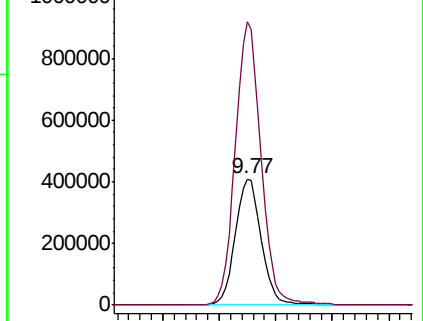
106 100

91 224.5 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.973 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031715.D

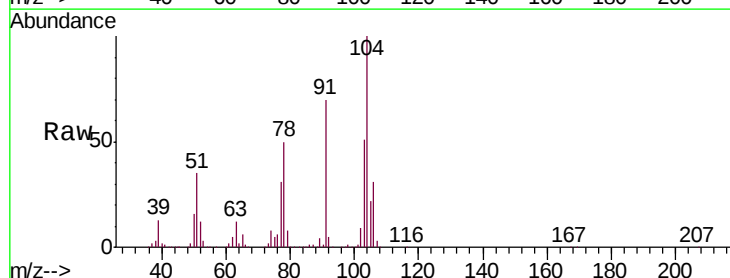
Acq: 02 May 2019 16:24

Tgt Ion:104 Resp: 1112520

Ion Ratio Lower Upper

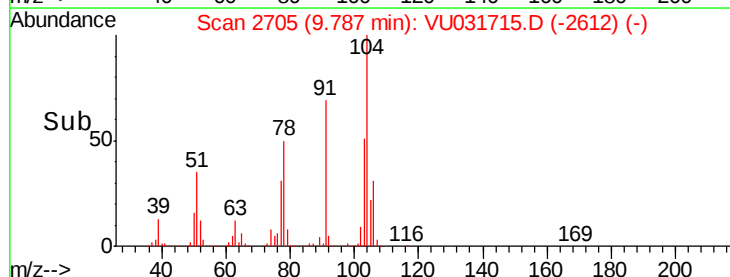
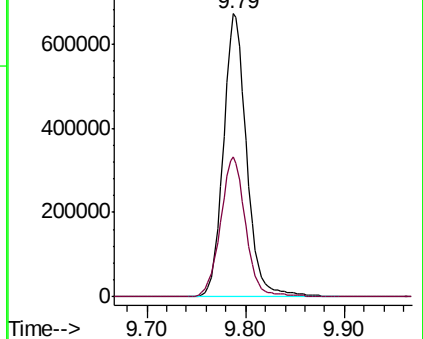
104 100

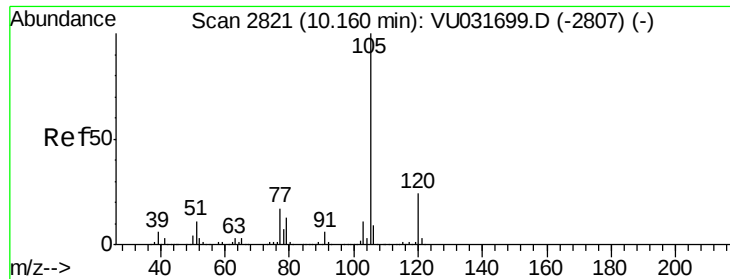
78 49.6 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 55.349 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

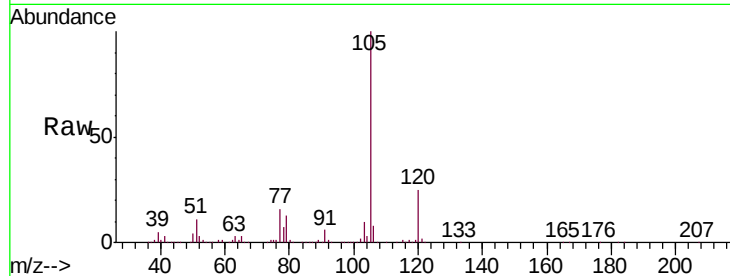
Tgt Ion:105 Resp: 1724016

Ion Ratio Lower Upper

105 100

120 24.8 20.1 30.1

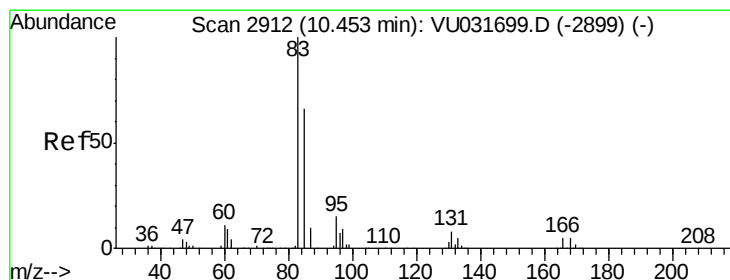
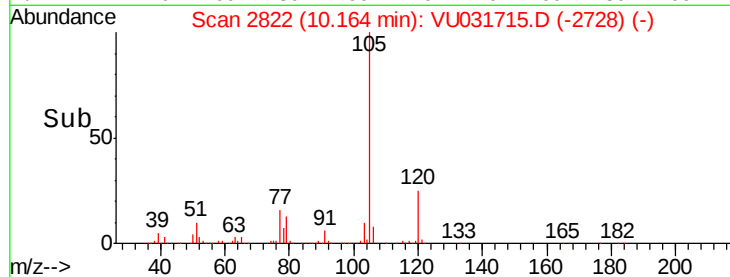
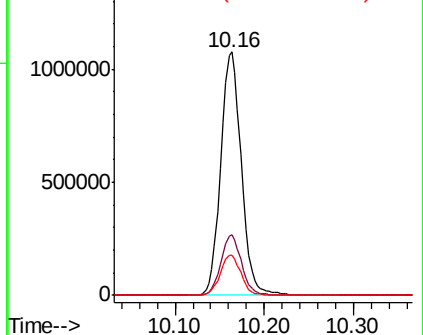
77 16.6 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.443 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

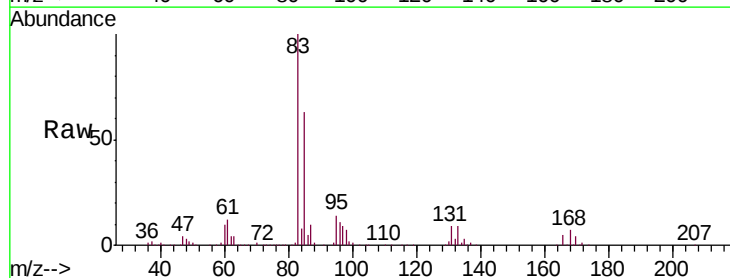
Tgt Ion: 83 Resp: 681459

Ion Ratio Lower Upper

83 100

85 63.3 46.0 85.4

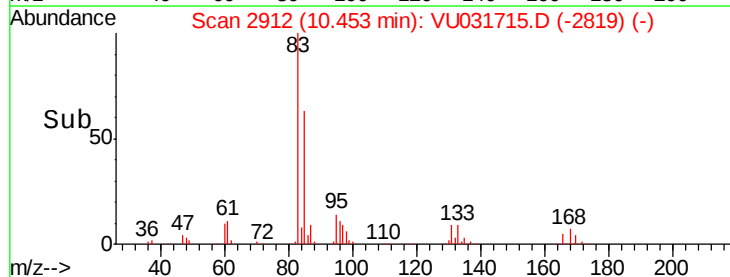
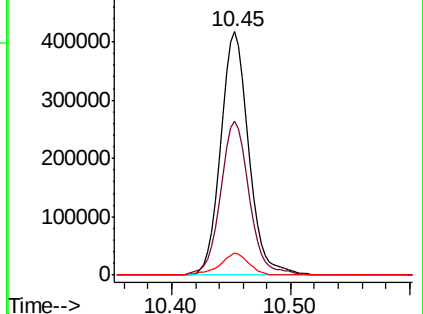
131 8.9 7.3 10.9

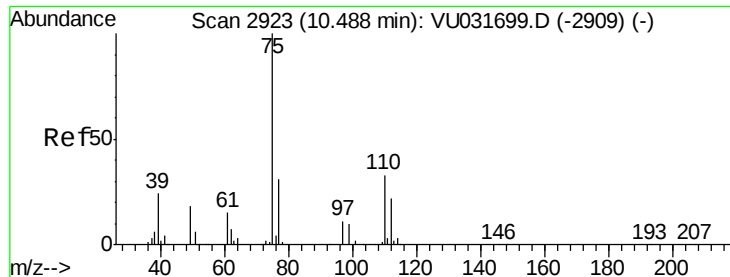


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.204 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

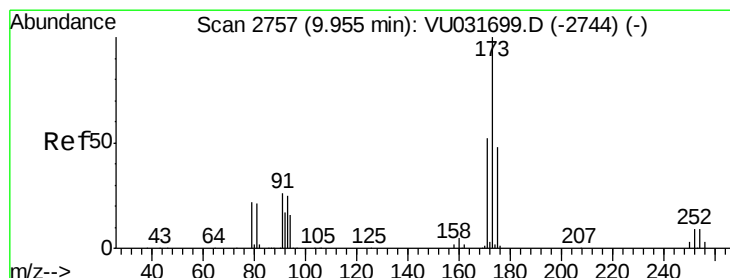
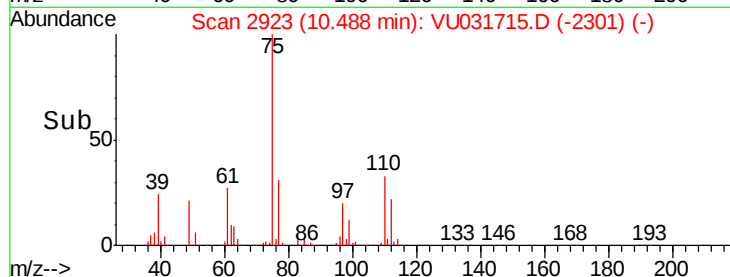
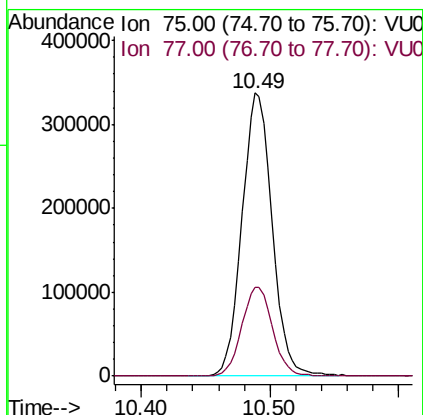
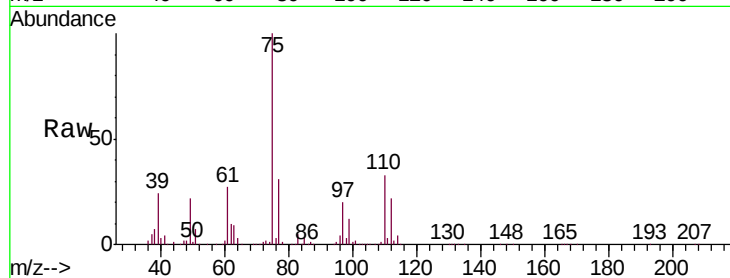
VSTD05031

Tgt Ion: 75 Resp: 549637

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



#61

Bromoform

Concen: 45.371 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

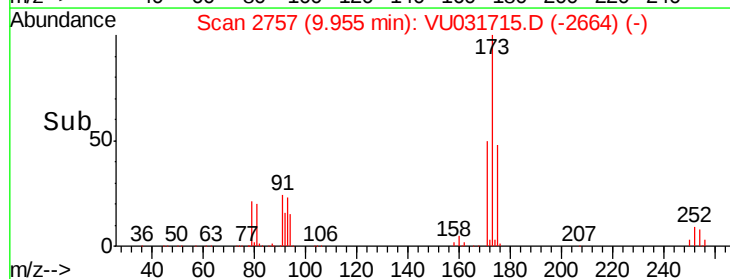
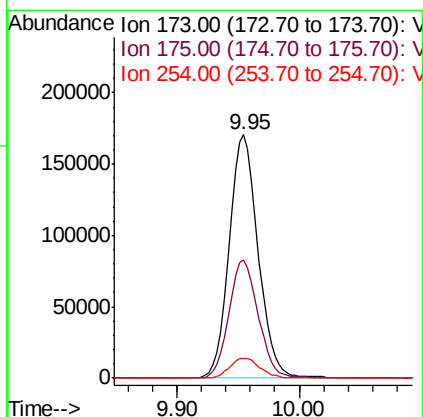
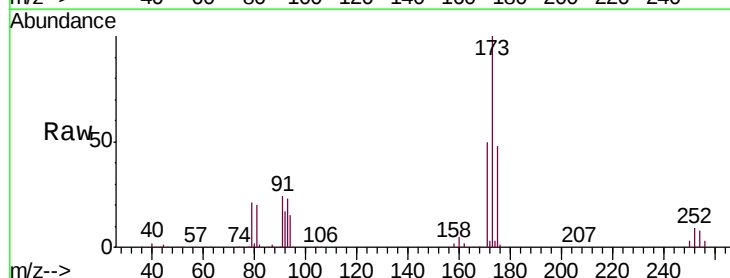
Tgt Ion: 173 Resp: 282638

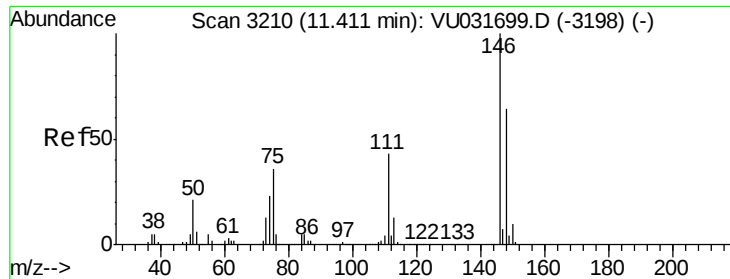
Ion Ratio Lower Upper

173 100

175 49.0 38.3 57.5

254 8.5 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 51.825 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

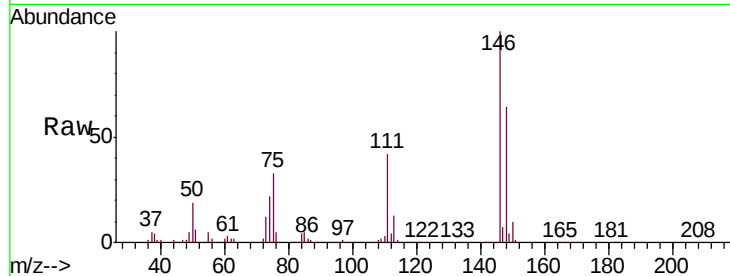
Tgt Ion:146 Resp: 720924

Ion Ratio Lower Upper

146 100

111 42.0 29.8 55.4

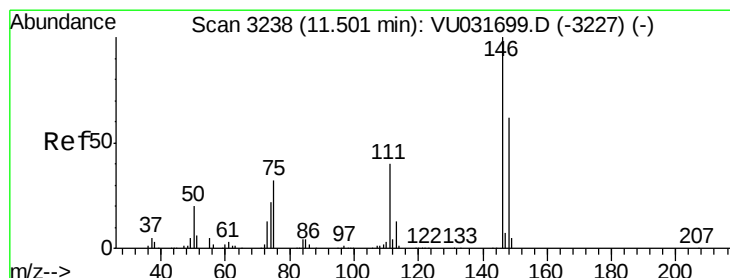
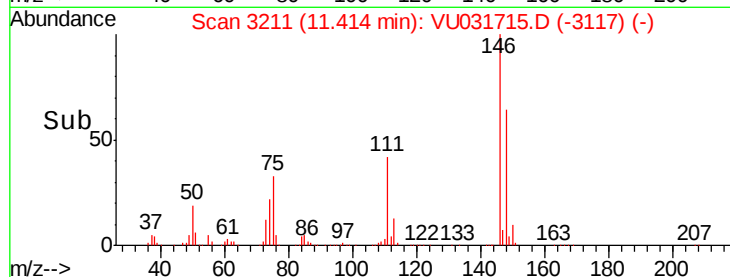
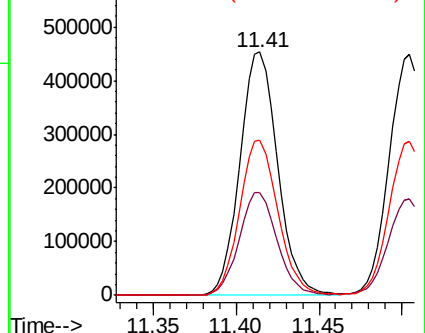
148 63.7 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.089 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

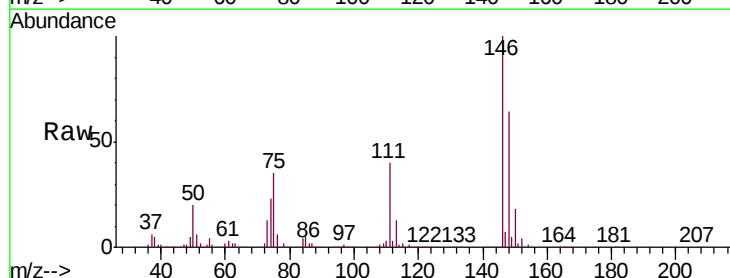
Tgt Ion:146 Resp: 721617

Ion Ratio Lower Upper

146 100

111 39.9 28.2 52.4

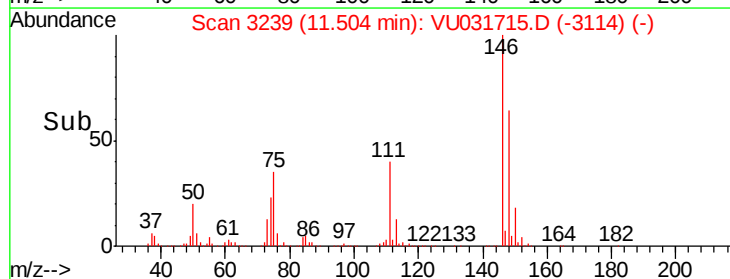
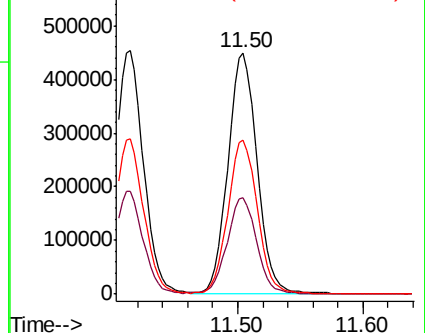
148 63.9 45.4 84.4

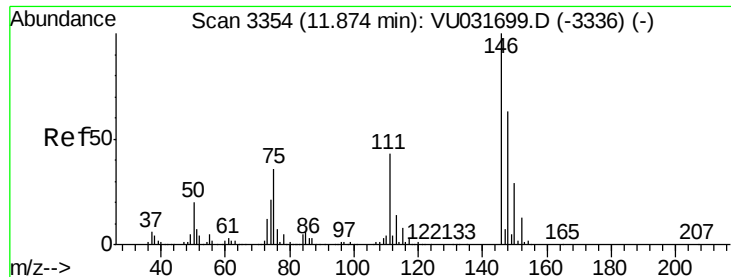


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.379 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

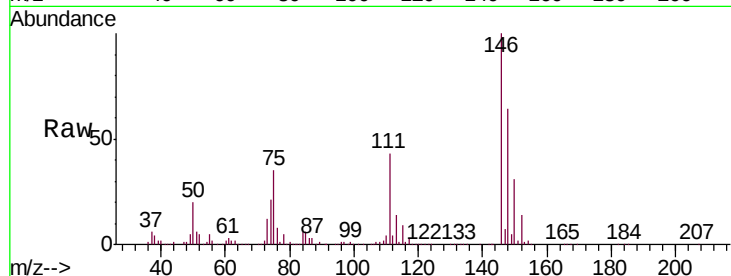
Tgt Ion:146 Resp: 730036

Ion Ratio Lower Upper

146 100

111 43.4 35.9 53.9

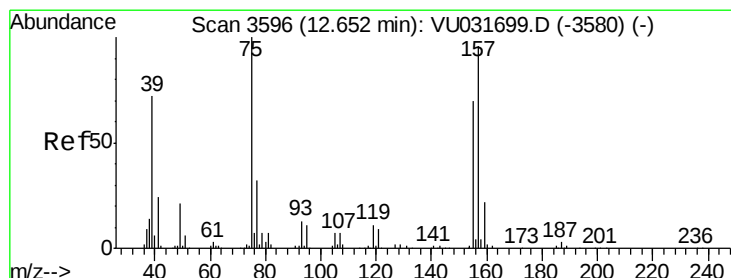
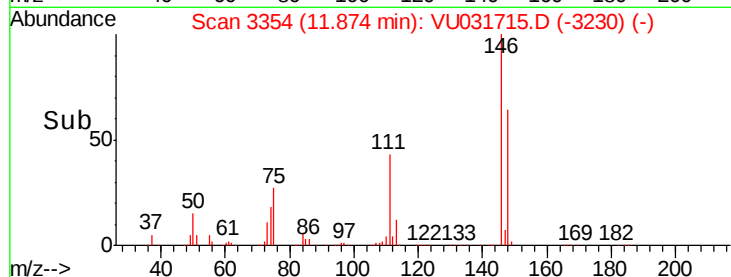
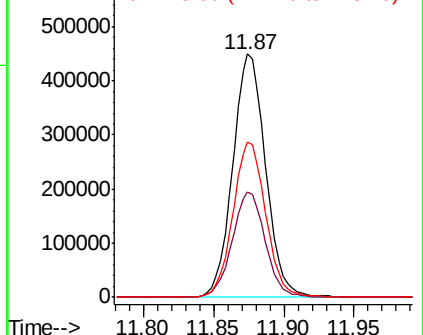
148 63.7 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 46.488 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

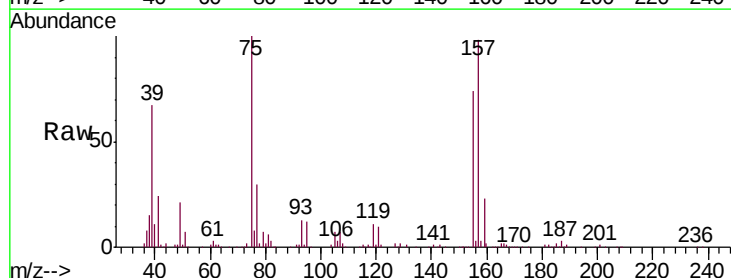
Tgt Ion: 75 Resp: 159513

Ion Ratio Lower Upper

75 100

155 74.2 54.0 81.0

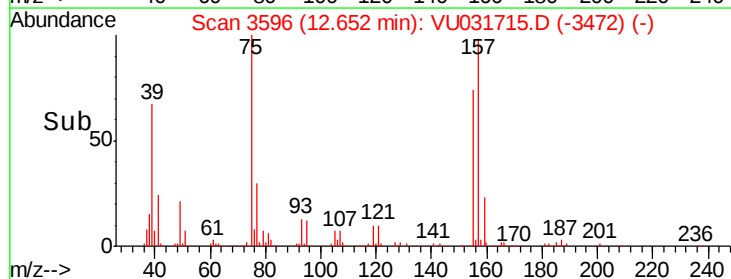
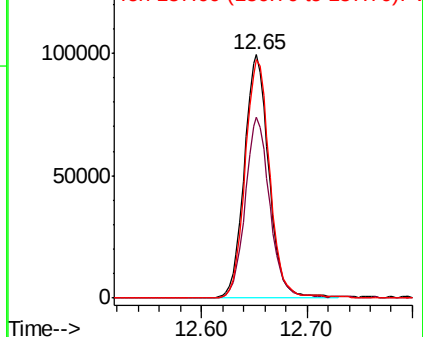
157 98.0 69.1 103.7

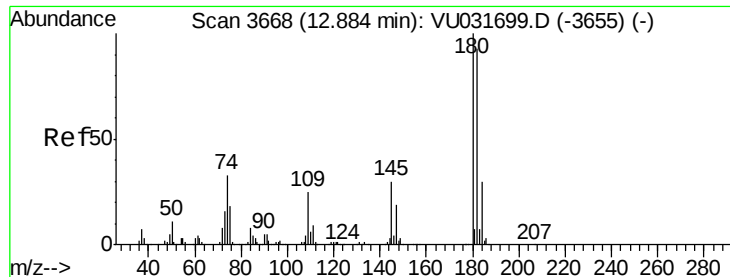


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 50.075 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

Tgt Ion:180 Resp: 521731

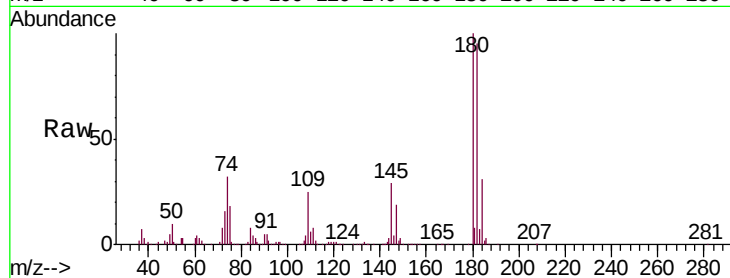
Ion Ratio Lower Upper

180 100

182 95.3 77.3 115.9

184 30.6 24.4 36.6

145 29.4 23.8 35.8

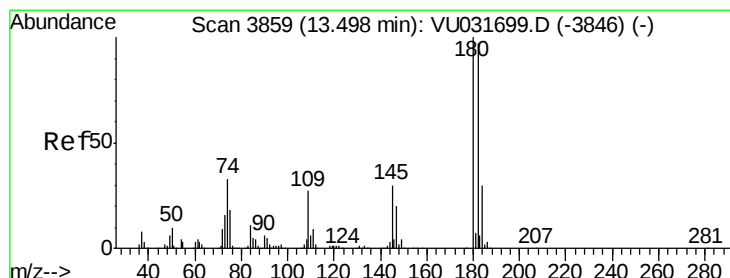
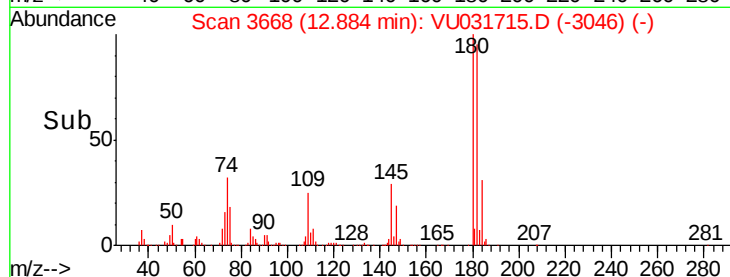
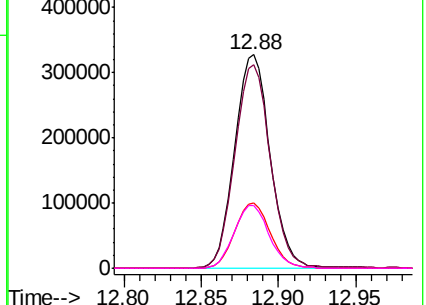


Abundance Ion 180.00 (179.70 to 180.70): V

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: 57.601 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

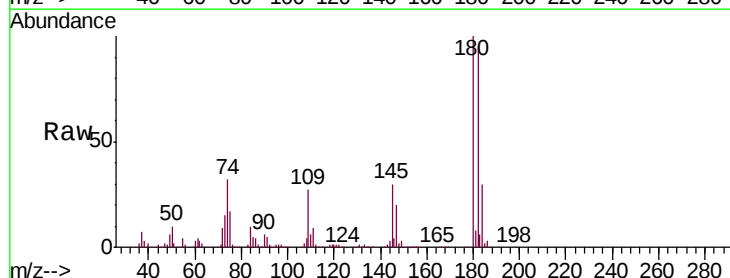
Tgt Ion:180 Resp: 475111

Ion Ratio Lower Upper

180 100

182 95.7 75.8 113.8

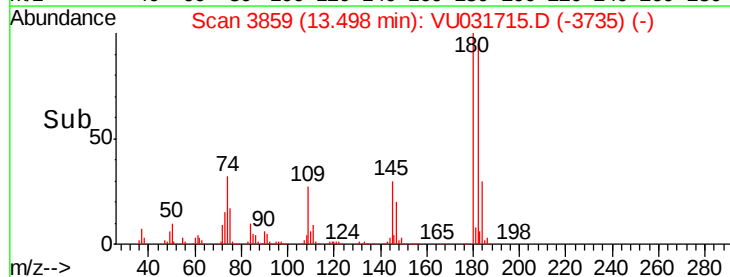
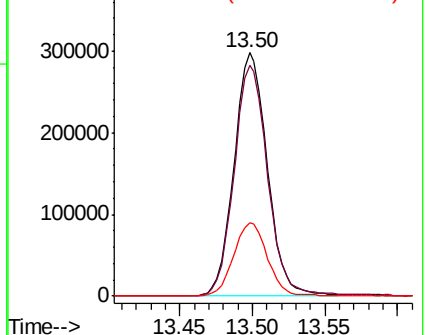
145 30.5 24.5 36.7

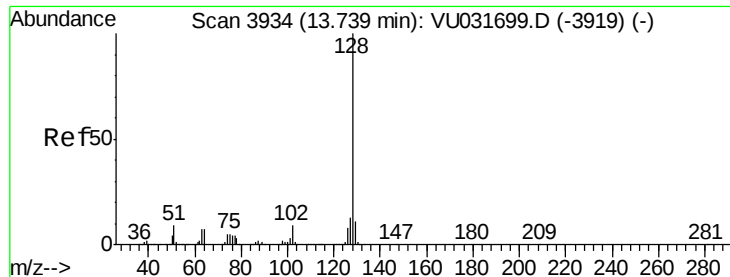


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 69.479 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

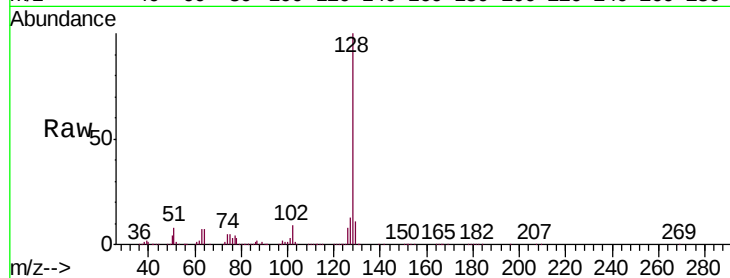
Tgt Ion:128 Resp: 1953947

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

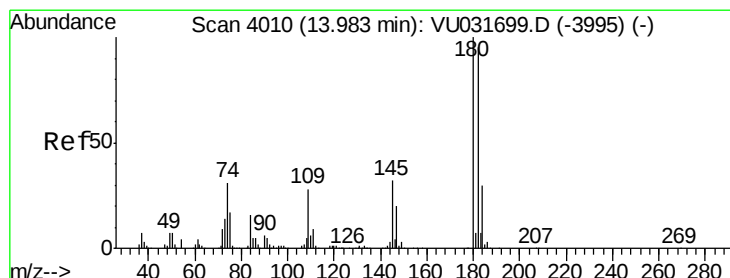
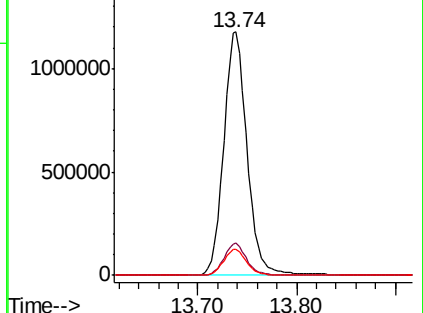
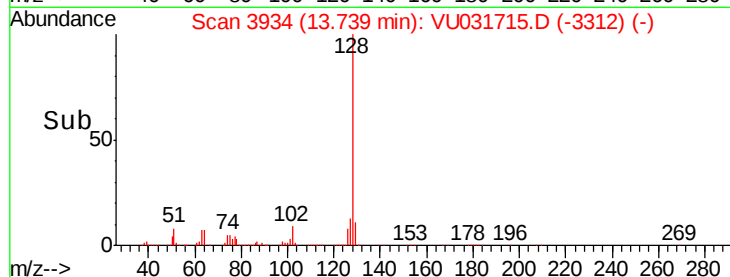
129 10.7 8.7 13.1



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: 51.840 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031715.D

Acq: 02 May 2019 16:24

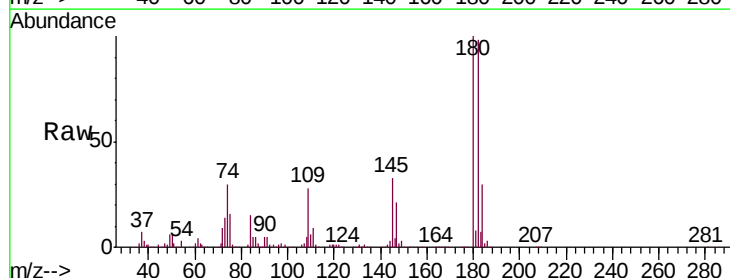
Tgt Ion:180 Resp: 486814

Ion Ratio Lower Upper

180 100

182 96.4 76.1 114.1

145 32.8 26.0 39.0



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

