

Data File : VU031732.D
Acq On : 02 May 2019 23:29
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Quant Time: May 03 07:30:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 07:25:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	888589	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	838710	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	375066	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	339954	45.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.42%
7) Chloroethane-d5	1.68	69	263444	45.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.68%
11) 1,1-Dichloroethene-d2	2.27	63	651785	44.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.02%
21) 2-Butanone-d5	4.19	46	708472	105.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.14%
24) Chloroform-d	4.64	84	592524	43.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.00%
26) 1,2-Dichloroethane-d4	5.31	65	381421	42.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.72%
32) Benzene-d6	5.33	84	1182461	45.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.82%
36) 1,2-Dichloropropane-d6	6.32	67	412153	45.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.98%
41) Toluene-d8	7.56	98	1033948	46.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.18%
43) trans-1,3-Dichloropropene-	7.85	79	176860	45.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.94%
47) 2-Hexanone-d5	8.31	63	455299	116.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.09%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	570919	46.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.90%
64) 1,2-Dichlorobenzene-d4	11.85	152	363134	46.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.08%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	394616	40.385 ug/L	99
3) Chloromethane	1.32	50	499041	42.212 ug/L	100
5) Vinyl chloride	1.40	62	473595	42.848 ug/L	98
6) Bromomethane	1.63	94	241532	41.437 ug/L	97
8) Chloroethane	1.70	64	273452	45.259 ug/L	97
9) Trichlorofluoromethane	1.88	101	519784	41.252 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	308301	43.284 ug/L	99
12) 1,1-Dichloroethene	2.28	96	309149	44.592 ug/L	85
13) Acetone	2.34	43	503643	66.356 ug/L	99
14) Carbon disulfide	2.47	76	918579	39.928 ug/L	99
15) Methyl Acetate	2.62	43	556660	48.470 ug/L	99
16) Methylene chloride	2.70	84	372411	45.518 ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	325387	45.043 ug/L	99
18) Methyl tert-butyl Ether	2.99	73	1193502	51.857 ug/L	99
19) 1,1-Dichloroethane	3.44	63	720518	47.360 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	379557	48.981 ug/L	96
22) 2-Butanone	4.28	43	826399	98.276 ug/L	99

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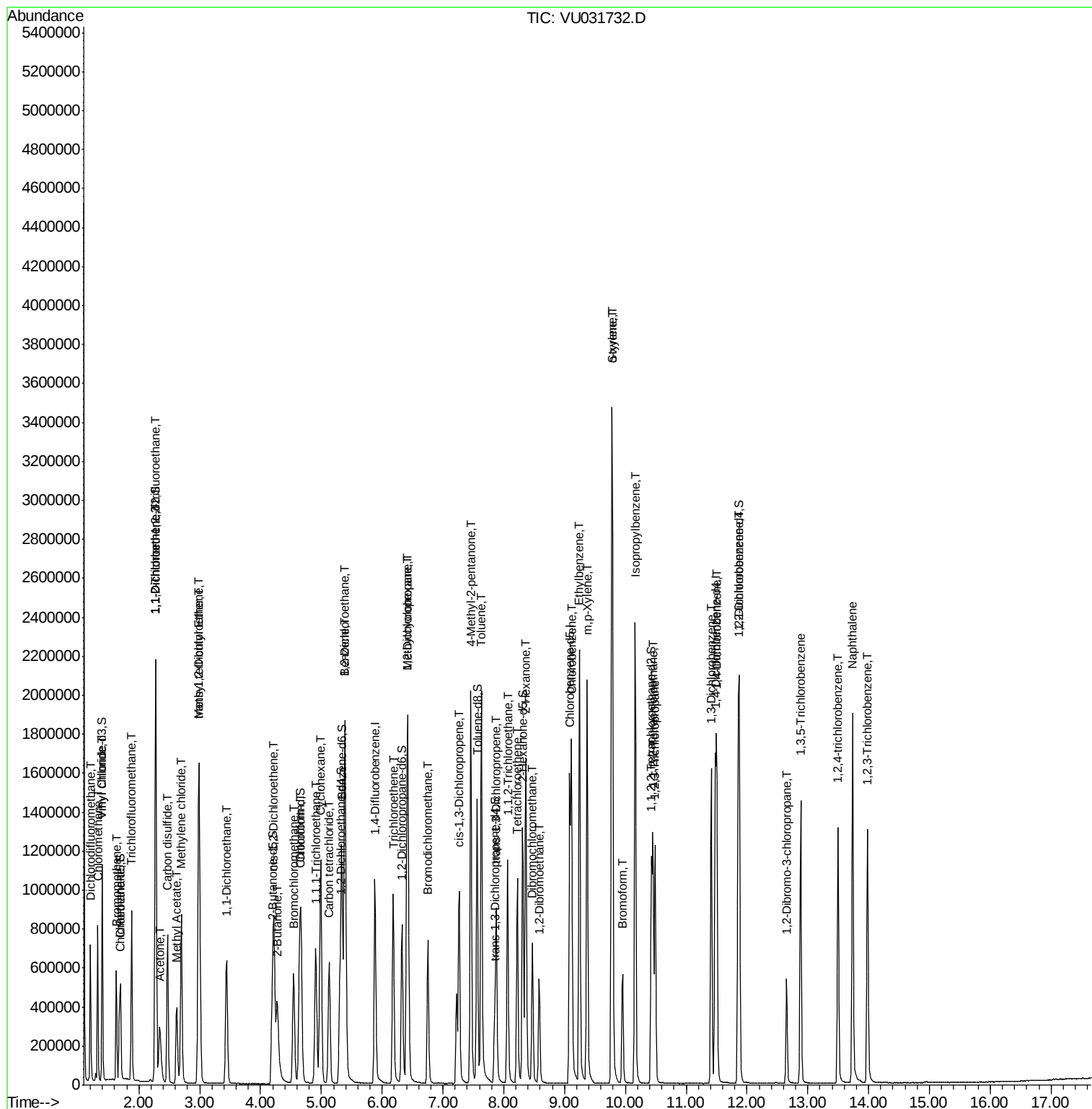
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	176813	46.957	ug/L	95
25) Chloroform	4.67	83	666617	45.821	ug/L	97
27) 1,2-Dichloroethane	5.40	62	532055	45.025	ug/L	99
29) Cyclohexane	4.99	56	665853	50.162	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	538061	45.788	ug/L	100
31) Carbon tetrachloride	5.13	117	450320	44.834	ug/L	99
33) Benzene	5.38	78	1500587	48.664	ug/L	100
34) Trichloroethene	6.18	95	370321	49.543	ug/L	97
35) Methylcyclohexane	6.41	83	544491	48.606	ug/L	97
37) 1,2-Dichloropropane	6.43	63	428893	48.994	ug/L	99
38) Bromodichloromethane	6.75	83	493408	46.485	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	602061	52.048	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1478304	109.760	ug/L	99
42) Toluene	7.63	91	1534418	49.954	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	520041	49.567	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	358408	49.663	ug/L	99
46) Tetrachloroethene	8.22	164	239556	47.011	ug/L	97
48) 2-Hexanone	8.36	43	1160503	106.535	ug/L	99
49) Dibromochloromethane	8.47	129	357828	47.653	ug/L	100
50) 1,2-Dibromoethane	8.58	107	378255	49.627	ug/L	98
51) Chlorobenzene	9.12	112	883975	48.699	ug/L	98
52) Ethylbenzene	9.25	91	1641933	51.532	ug/L	99
53) m,p-Xylene	9.37	106	596592	53.740	ug/L	98
54) o-xylene	9.77	106	592119	53.800	ug/L	95
55) Styrene	9.79	104	1004102	53.400	ug/L	96
56) Isopropylbenzene	10.16	105	1536036	53.075	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	637876	49.810	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	519469	50.050	ug/L	100
61) Bromoform	9.95	173	256072	46.058	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	625658	50.394	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	631970	49.151	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	642884	48.722	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	144792	47.281	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	435561	46.840	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	394014	53.523	ug/L	99
69) Naphthalene	13.74	128	1507332	60.054	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	414455	49.451	ug/L	99

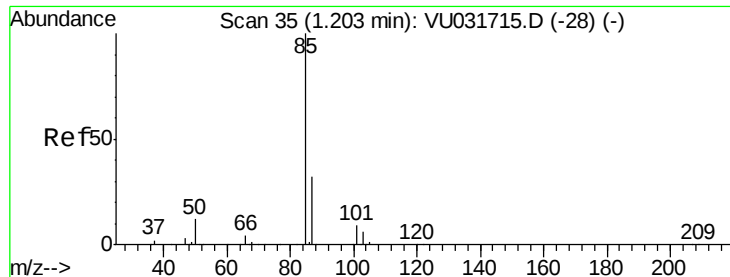
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 40.385 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

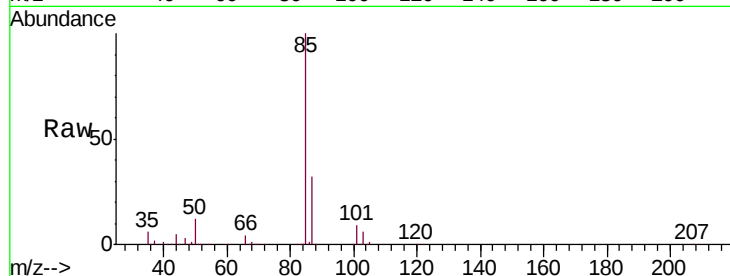
VSTD05032

Tgt Ion: 85 Resp: 394616

Ion Ratio Lower Upper

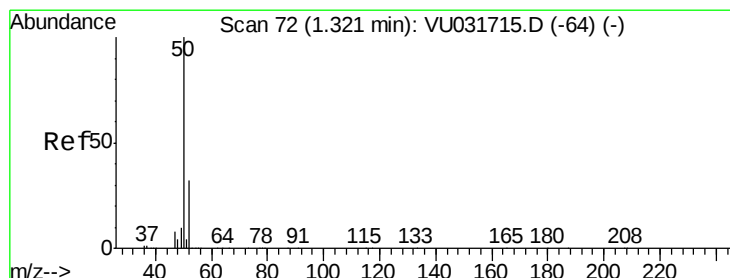
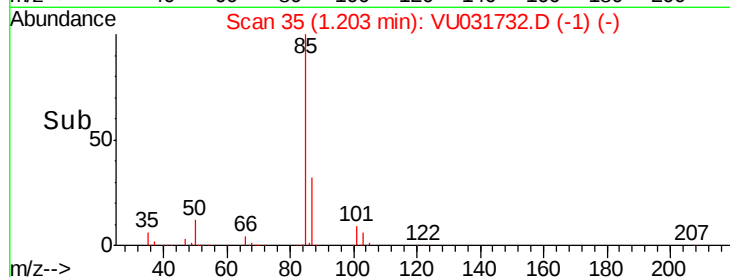
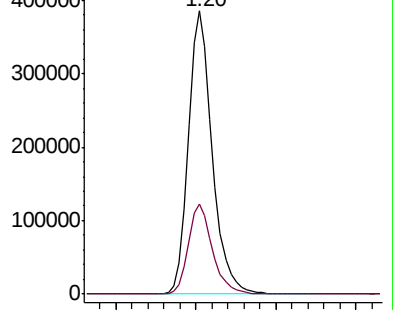
85 100

87 32.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031715.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031715.D (-28) (-)



#3

Chloromethane

Concen: 42.212 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031732.D

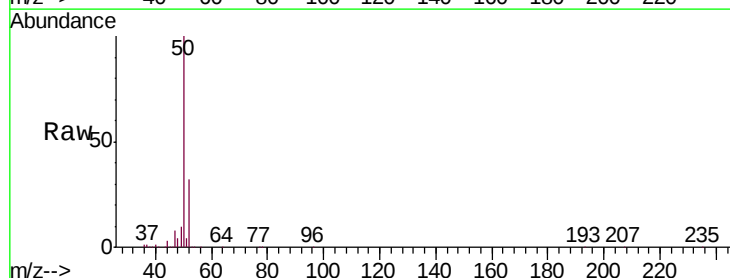
Acq: 02 May 2019 23:29

Tgt Ion: 50 Resp: 499041

Ion Ratio Lower Upper

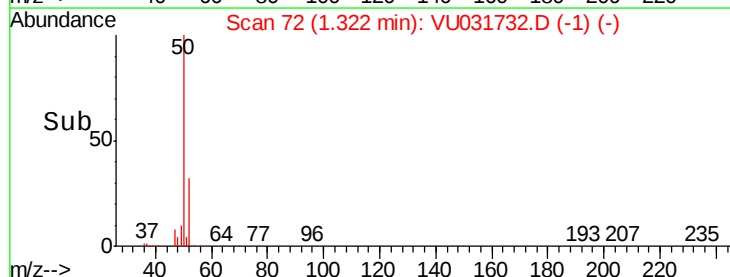
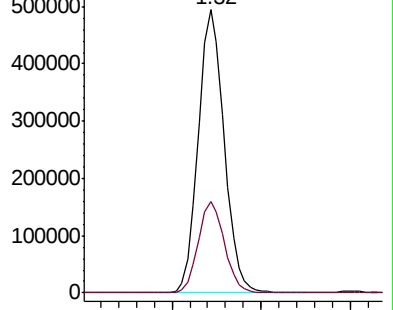
50 100

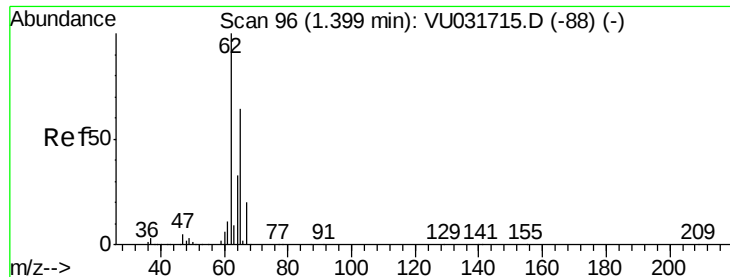
52 32.3 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031715.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031715.D (-64) (-)





#5

Vinyl chloride

Concen: 42.848 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

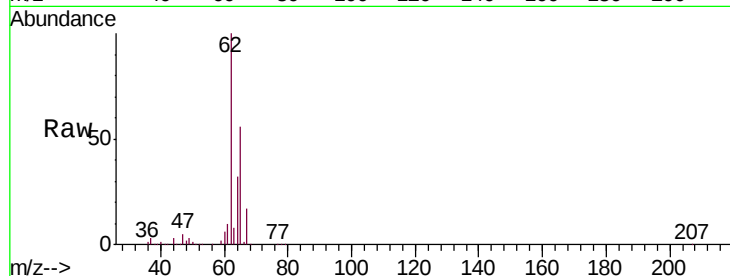
VSTD05032

Tgt Ion: 62 Resp: 473595

Ion Ratio Lower Upper

62 100

64 31.9 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031715.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031715.D (-88) (-)

1.40

400000

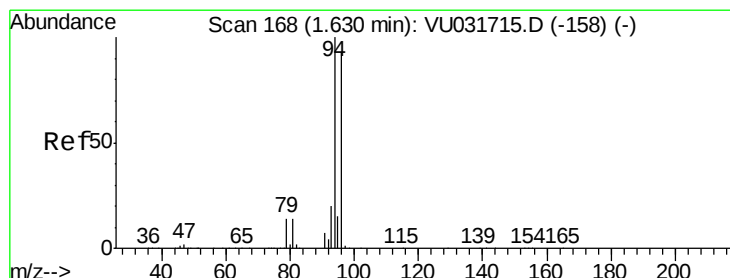
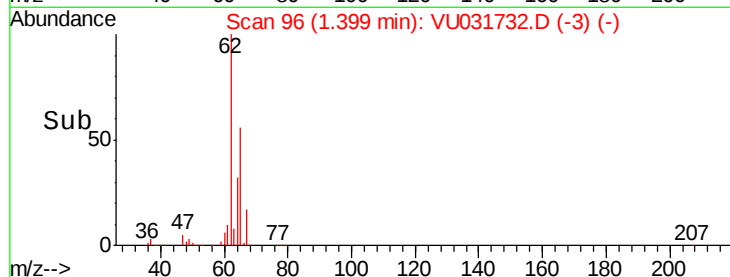
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 41.437 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU031732.D

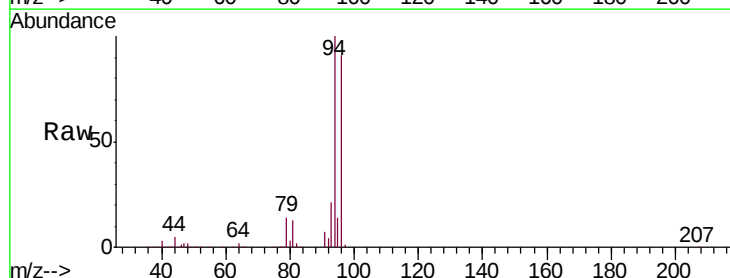
Acq: 02 May 2019 23:29

Tgt Ion: 94 Resp: 241532

Ion Ratio Lower Upper

94 100

96 91.5 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031715.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031715.D (-158) (-)

1.63

200000

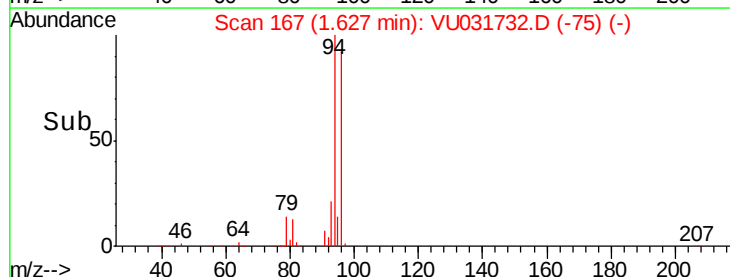
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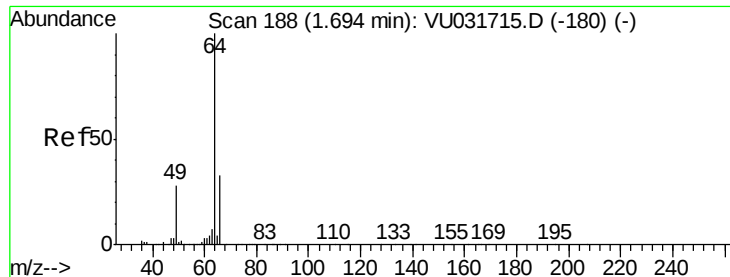
100000

50000

0

Time-->





#8

Chloroethane

Concen: 45.259 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

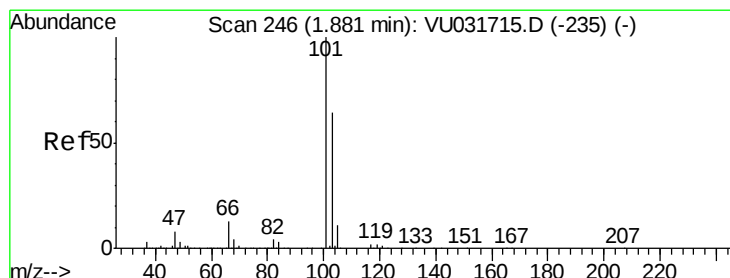
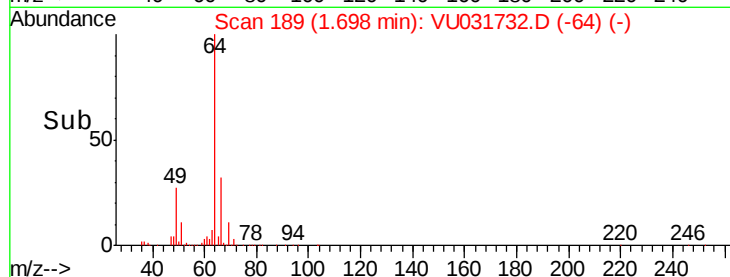
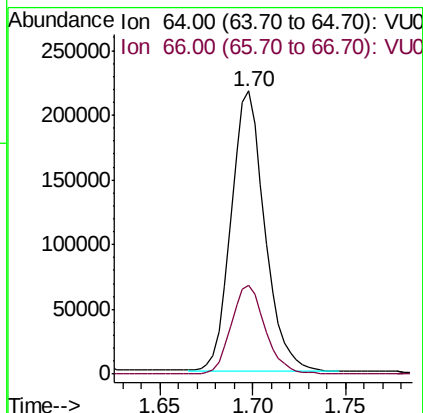
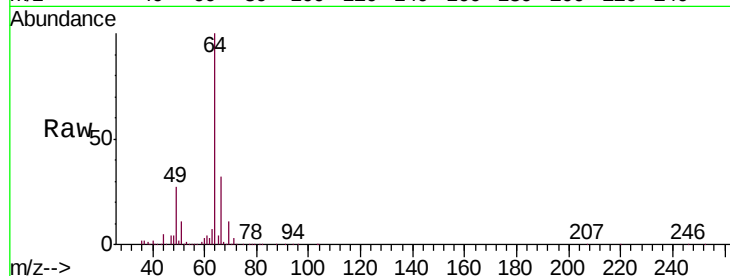
VSTD05032

Tgt Ion: 64 Resp: 273452

Ion Ratio Lower Upper

64 100

66 31.6 23.2 43.0



#9

Trichlorofluoromethane

Concen: 41.252 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031732.D

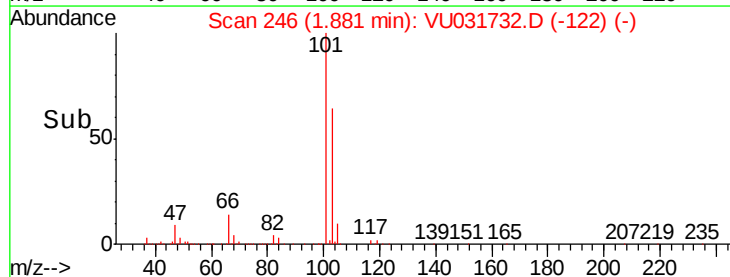
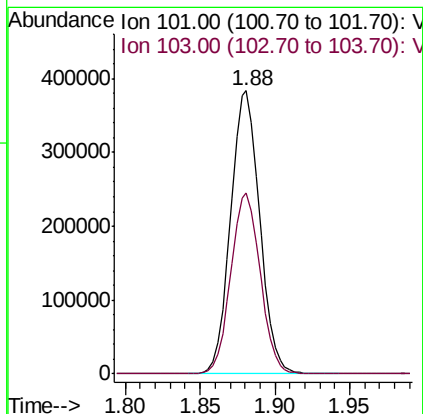
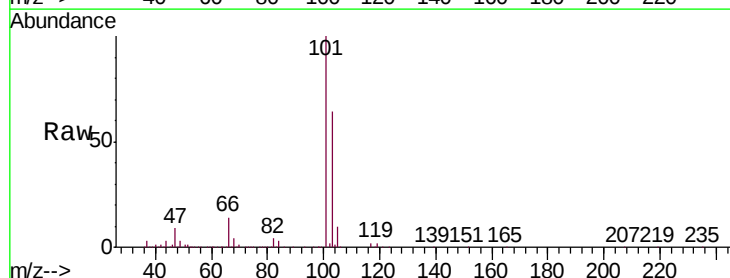
Acq: 02 May 2019 23:29

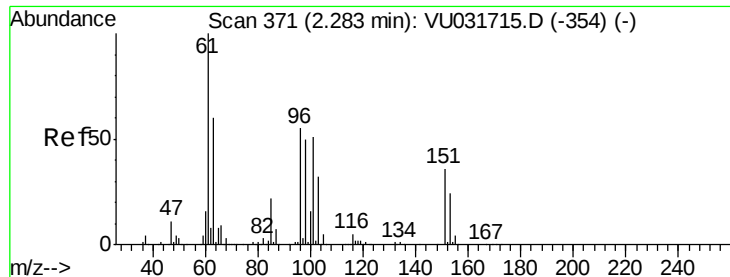
Tgt Ion: 101 Resp: 519784

Ion Ratio Lower Upper

101 100

103 64.6 50.8 76.2





#10

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

Concen: 43.284 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

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ClientSampleId :

VSTD05032

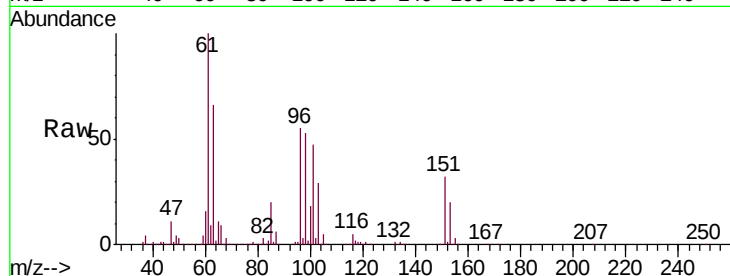
Tgt Ion:101 Resp: 308301

Ion Ratio Lower Upper

101 100

85 44.6 36.1 54.1

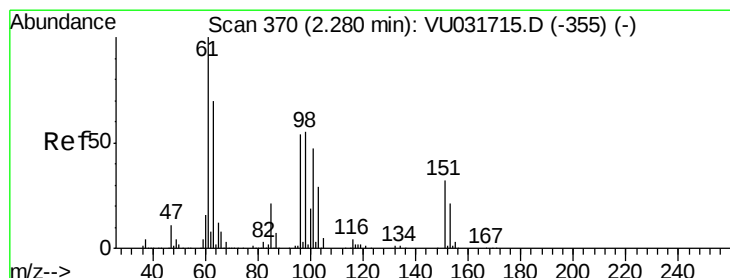
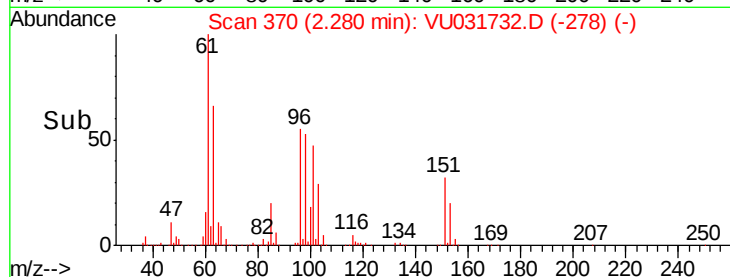
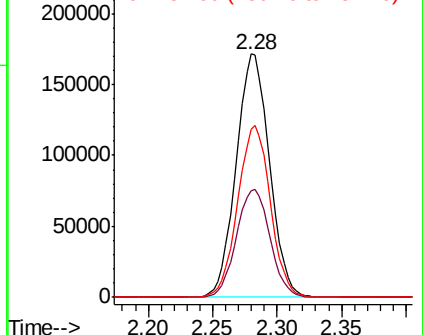
151 69.4 56.1 84.1



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: 44.592 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

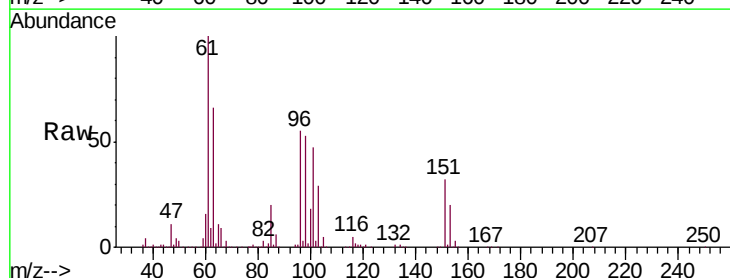
Tgt Ion: 96 Resp: 309149

Ion Ratio Lower Upper

96 100

61 181.2 135.0 250.6

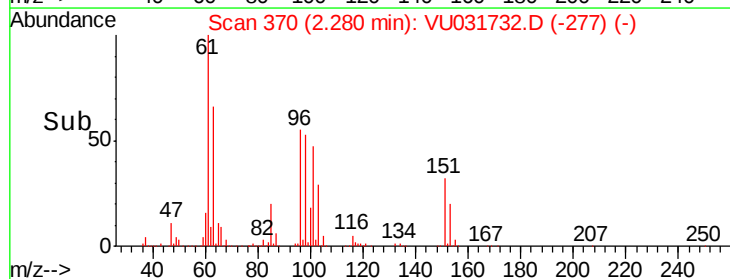
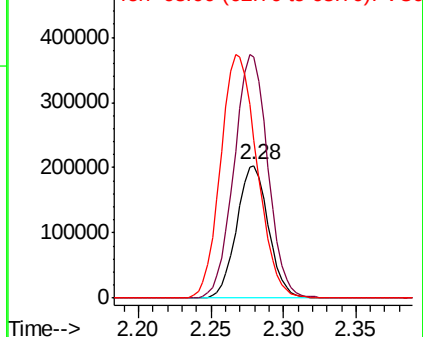
63 118.7 103.5 192.3

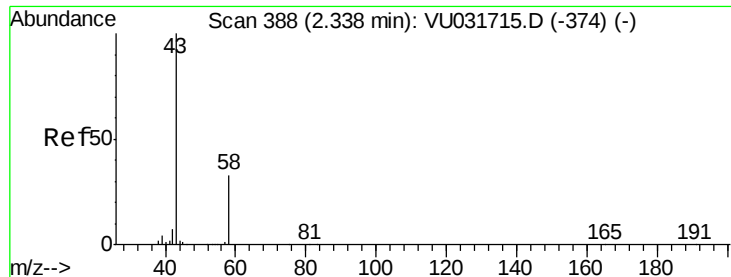


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.356 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

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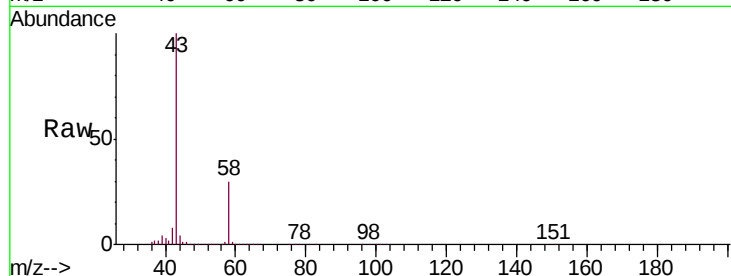
VSTD05032

Tgt Ion: 43 Resp: 503643

Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031715.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031715.D (-374) (-)

2.34

200000

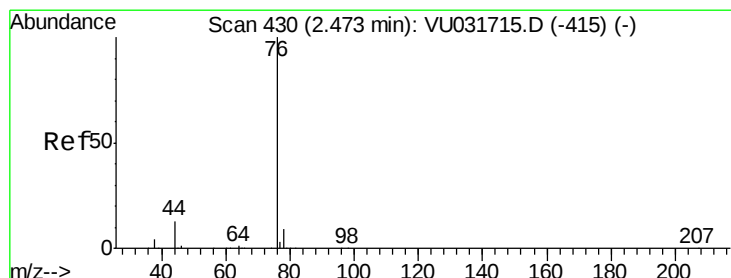
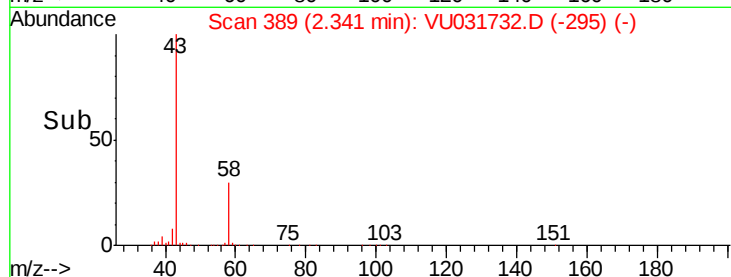
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 39.928 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031732.D

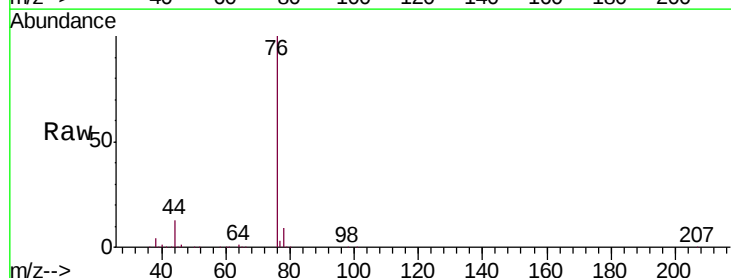
Acq: 02 May 2019 23:29

Tgt Ion: 76 Resp: 918579

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031715.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031715.D (-415) (-)

2.47

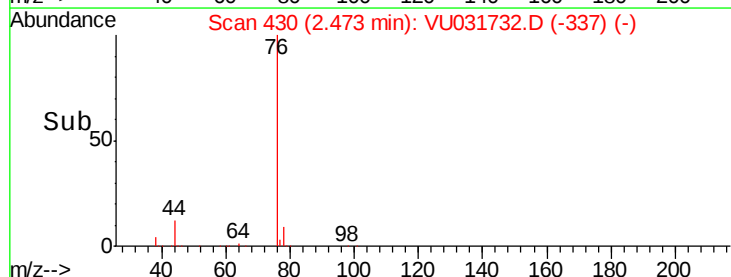
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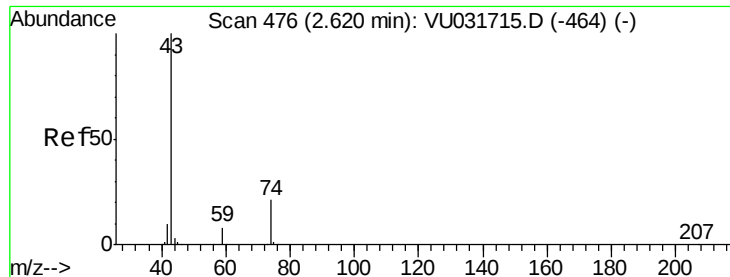
400000

200000

0

Time-->





#15

Methyl Acetate

Concen: 48.470 ug/L

RT: 2.62 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

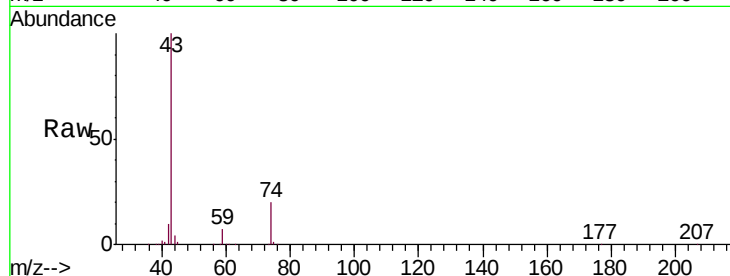
VSTD05032

Tgt Ion: 43 Resp: 556660

Ion Ratio Lower Upper

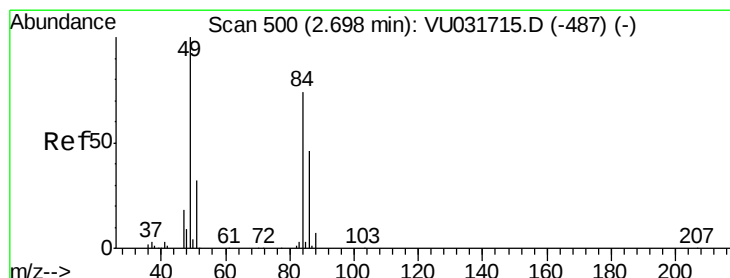
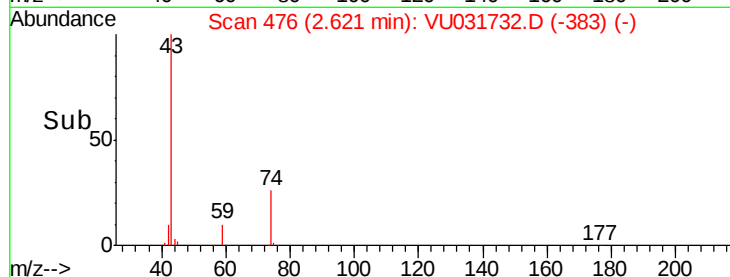
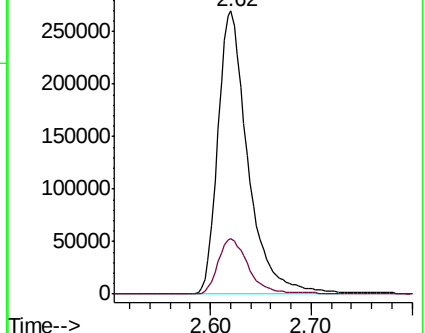
43 100

74 20.0 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VU031732.D (-383) (-)

Ion 74.00 (73.70 to 74.70): VU031732.D (-383) (-)



#16

Methylene chloride

Concen: 45.518 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

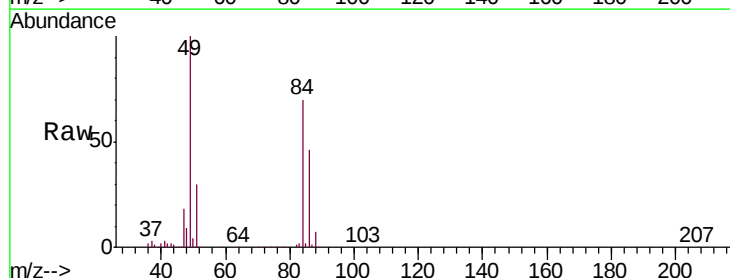
Tgt Ion: 84 Resp: 372411

Ion Ratio Lower Upper

84 100

86 66.2 44.7 83.1

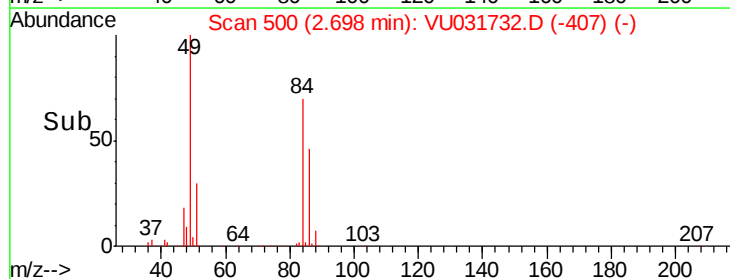
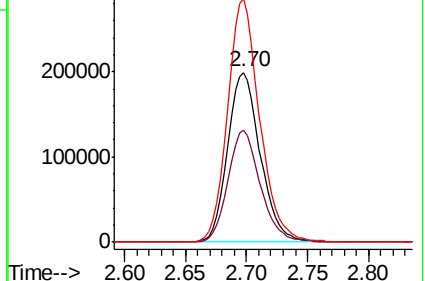
49 143.6 96.5 179.3

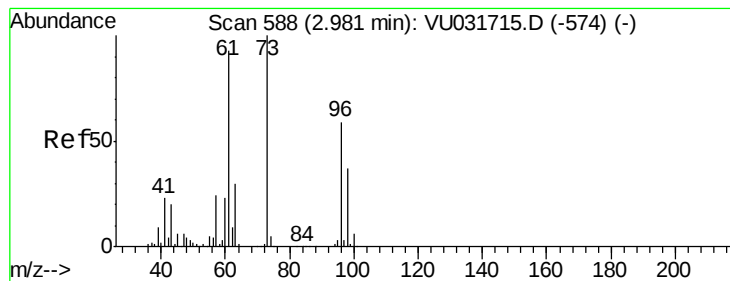


Abundance Ion 84.00 (83.70 to 84.70): VU031732.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU031732.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU031732.D (-407) (-)





#17

trans-1,2-Dichloroethene

Concen: 45.043 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

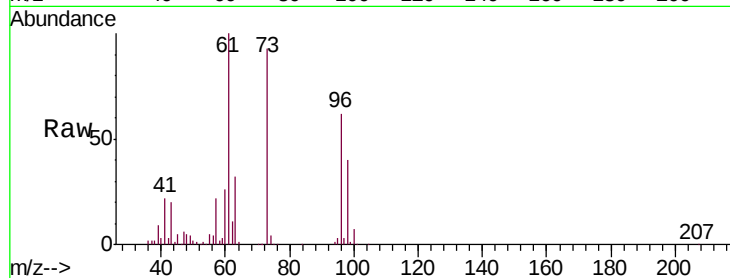
Tgt Ion: 96 Resp: 325387

Ion Ratio Lower Upper

96 100

61 161.6 114.5 212.7

98 64.6 45.4 84.2



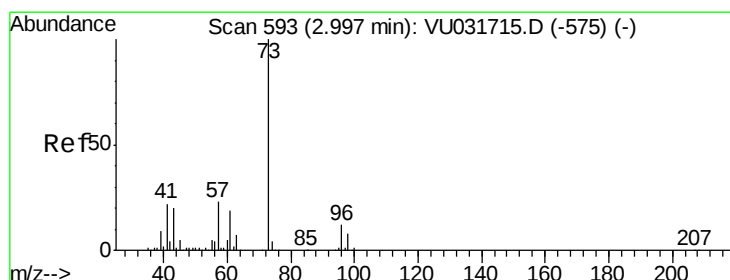
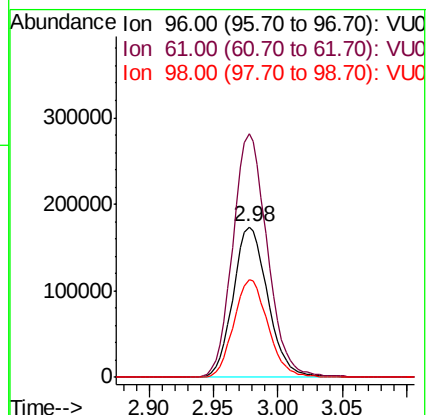
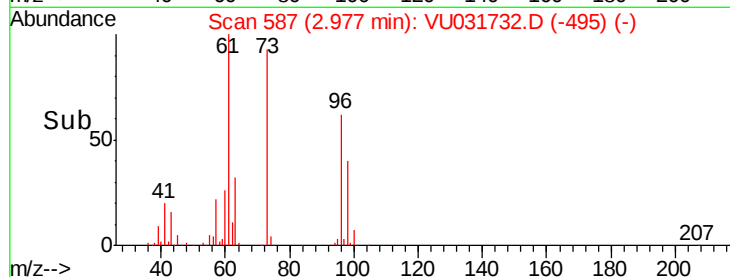
Abundance Ion 96.00 (95.70 to 96.70): VU031715.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031715.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031715.D (-574) (-)

2.98

Time-->



#18

Methyl tert-butyl Ether

Concen: 51.857 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

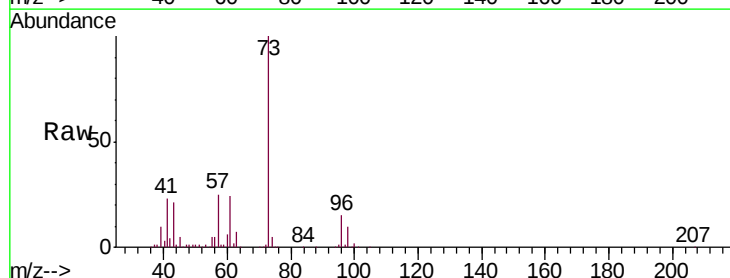
Tgt Ion: 73 Resp: 1193502

Ion Ratio Lower Upper

73 100

43 20.7 17.0 25.4

57 24.1 19.5 29.3



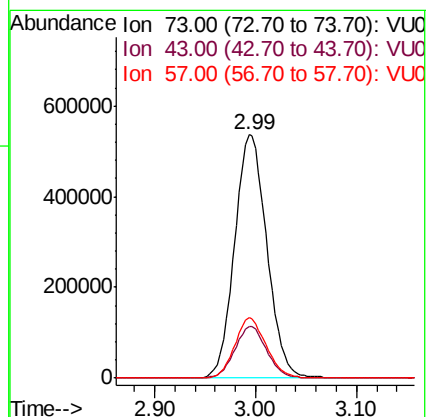
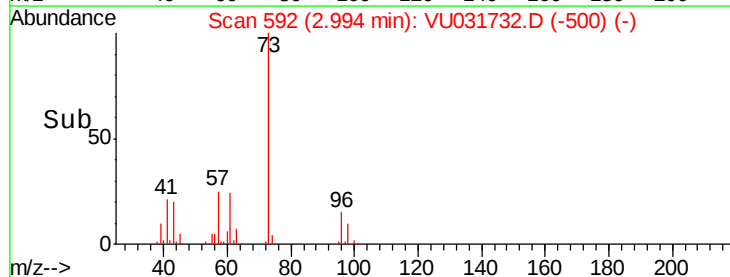
Abundance Ion 73.00 (72.70 to 73.70): VU031715.D (-575) (-)

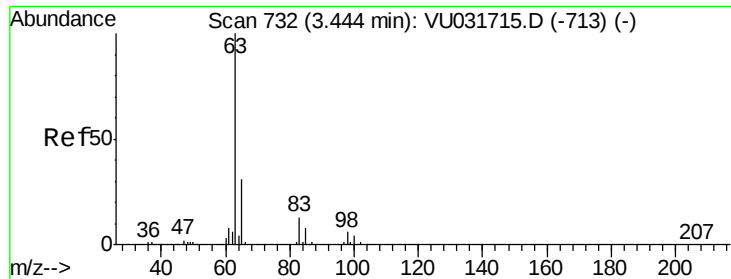
Ion 43.00 (42.70 to 43.70): VU031715.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031715.D (-575) (-)

2.99

Time-->

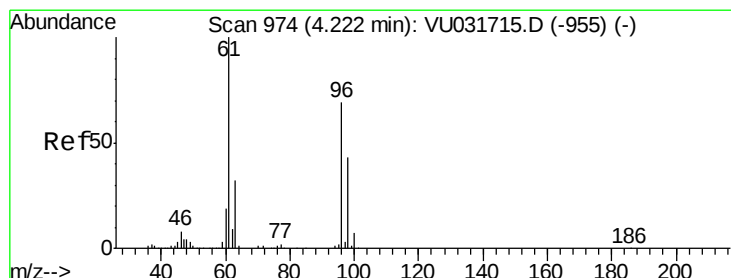
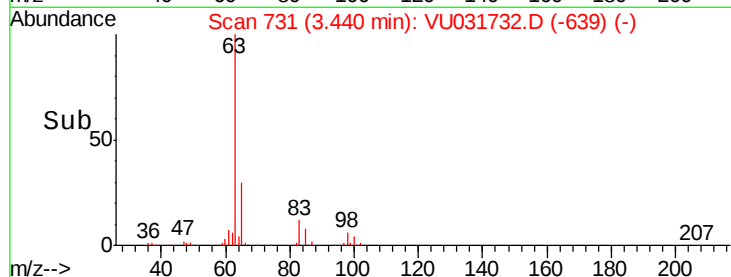
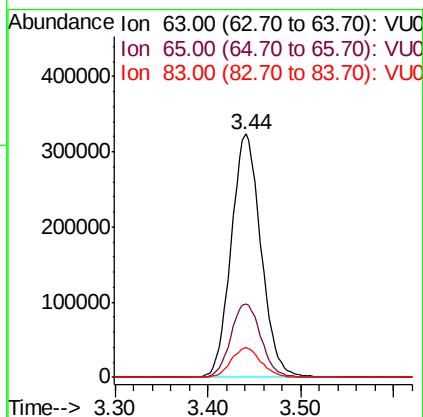
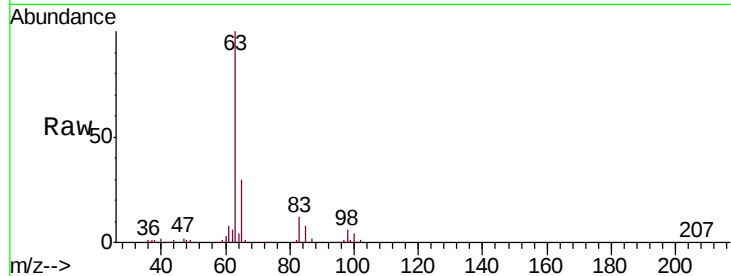




#19
 1,1-Dichloroethane
 Concen: 47.360 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

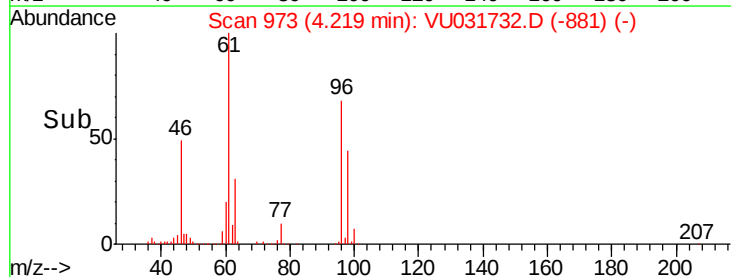
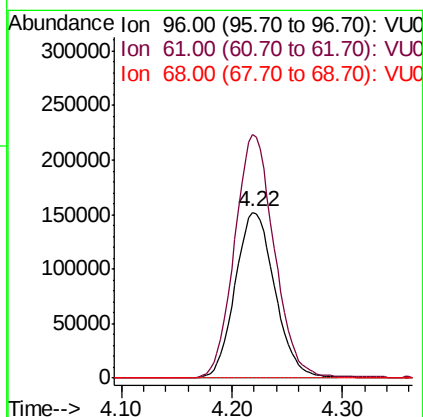
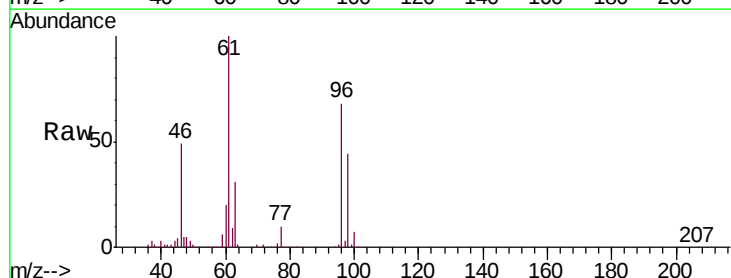
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

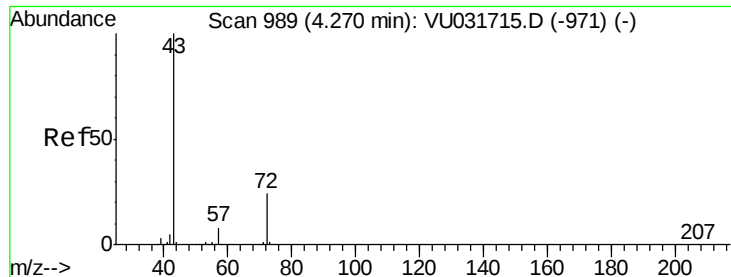
Tgt Ion: 63 Resp: 720518
 Ion Ratio Lower Upper
 63 100
 65 30.1 22.0 40.8
 83 12.0 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 48.981 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion: 96 Resp: 379557
 Ion Ratio Lower Upper
 96 100
 61 146.6 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.276 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

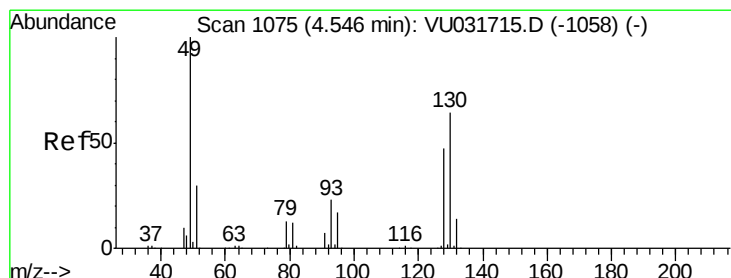
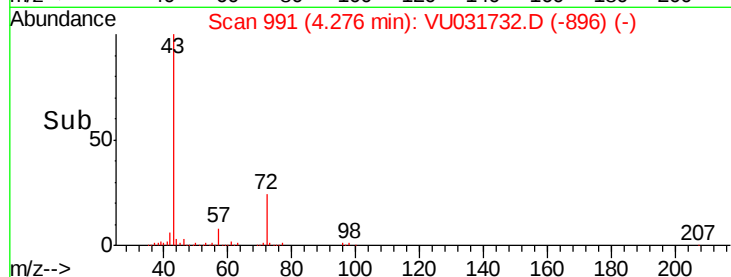
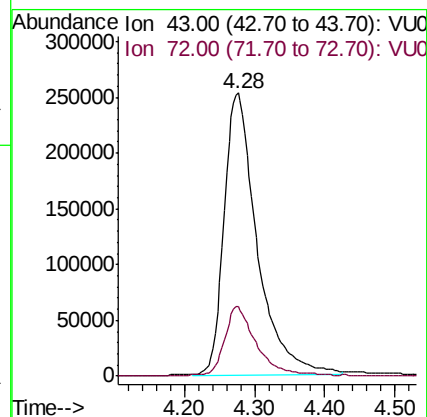
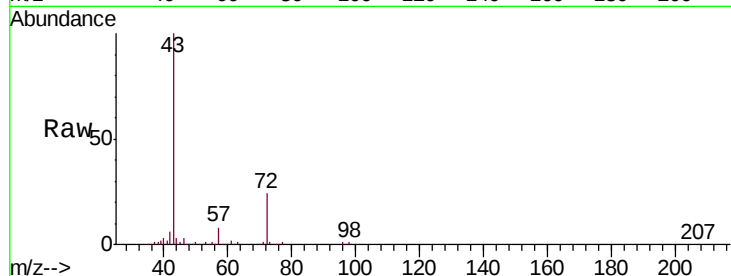
VSTD05032

Tgt Ion: 43 Resp: 826399

Ion Ratio Lower Upper

43 100

72 22.3 11.4 34.2



#23

Bromochloromethane

Concen: 46.957 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Tgt Ion: 128 Resp: 176813

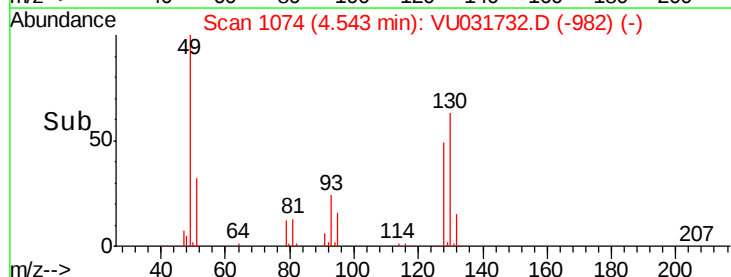
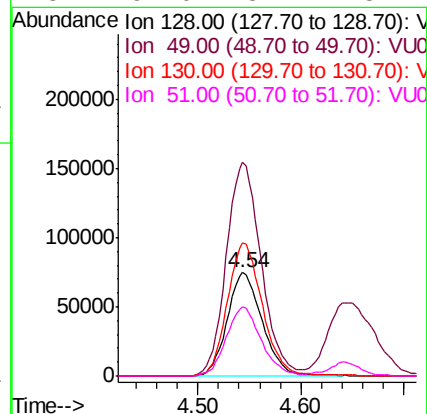
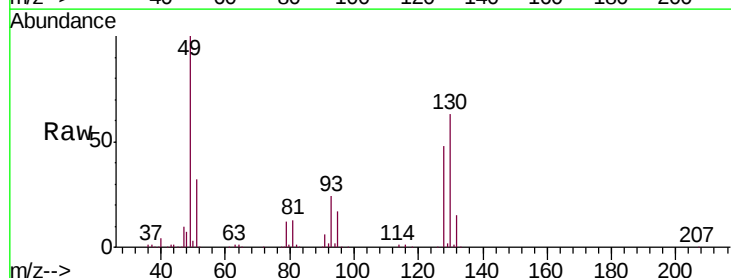
Ion Ratio Lower Upper

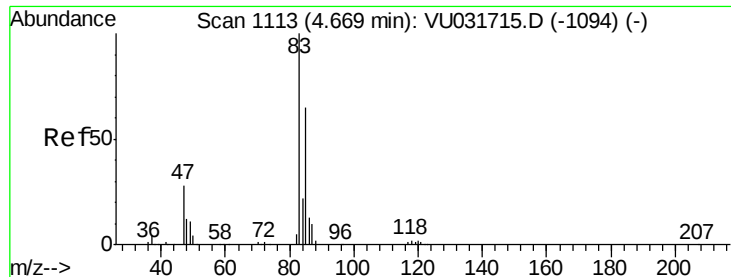
128 100

49 207.2 152.6 283.4

130 129.7 93.7 173.9

51 67.0 54.2 81.4





#25

Chloroform

Concen: 45.821 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

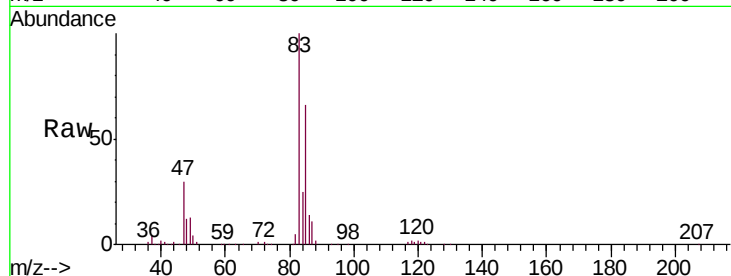
VSTD05032

Tgt Ion: 83 Resp: 666617

Ion Ratio Lower Upper

83 100

85 66.2 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031715.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU031715.D (-1094) (-)

4.67

300000

250000

200000

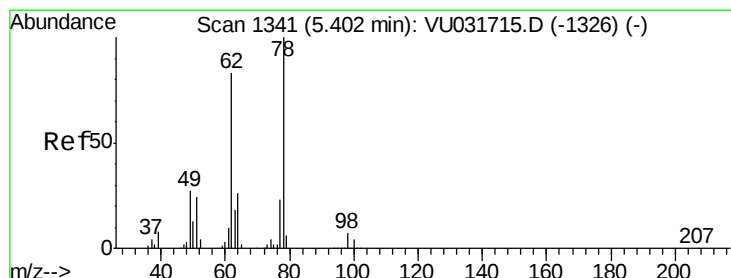
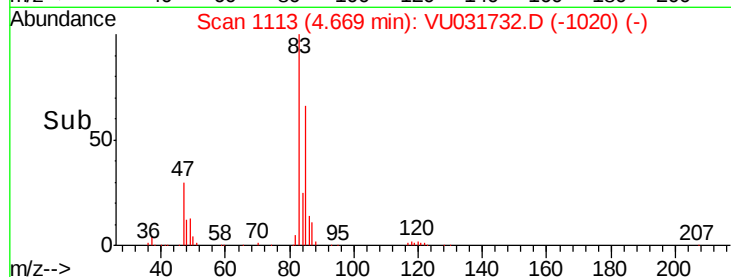
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 45.025 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031732.D

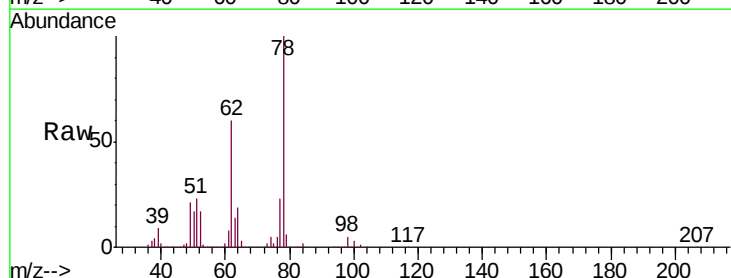
Acq: 02 May 2019 23:29

Tgt Ion: 62 Resp: 532055

Ion Ratio Lower Upper

62 100

98 8.6 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU031715.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU031715.D (-1326) (-)

5.40

250000

200000

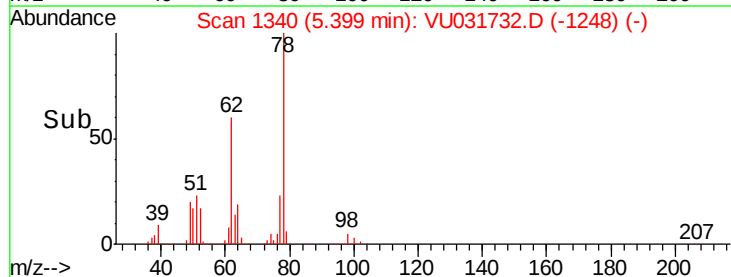
150000

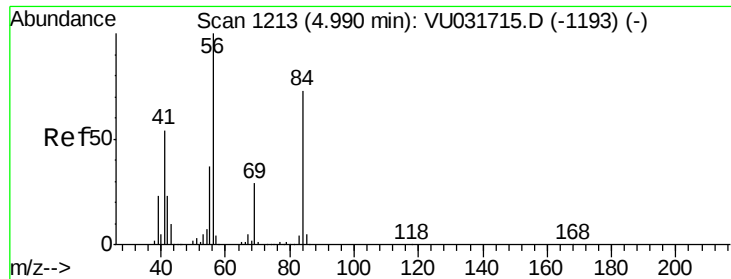
100000

50000

0

Time-->

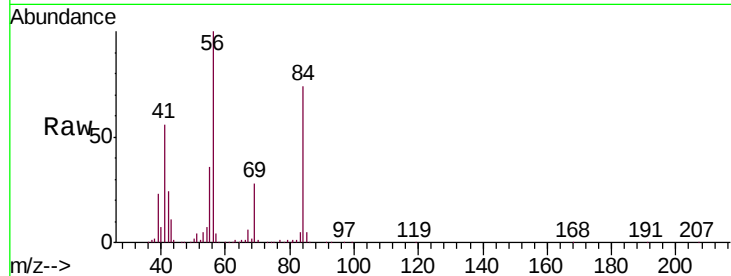




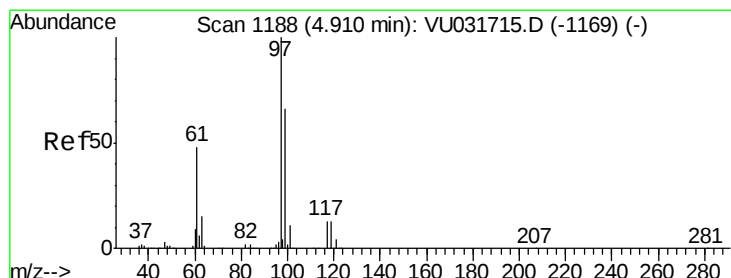
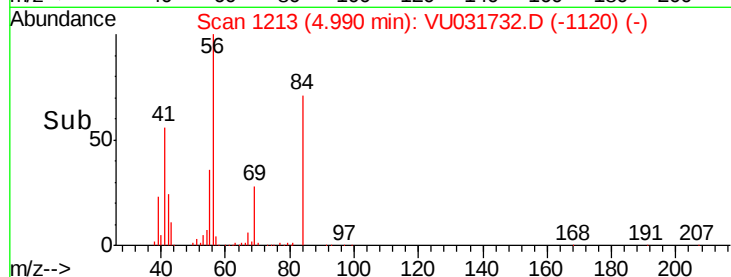
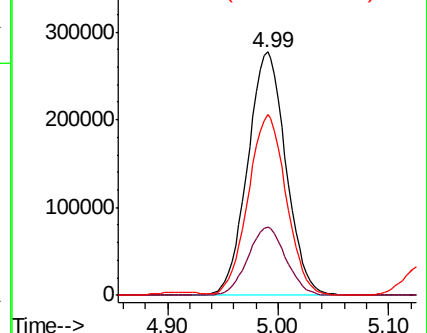
#29
Cyclohexane
Concen: 50.162 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Tgt Ion: 56 Resp: 665853
Ion Ratio Lower Upper
56 100
69 27.9 22.3 33.5
84 73.6 57.5 86.3

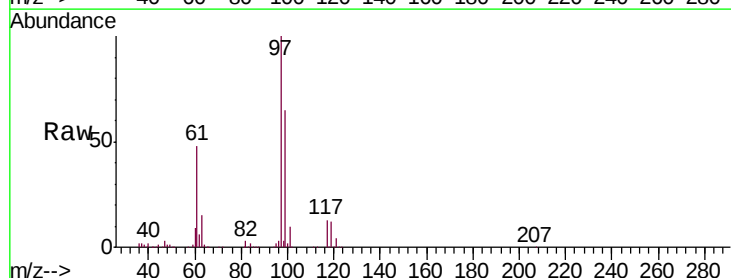


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

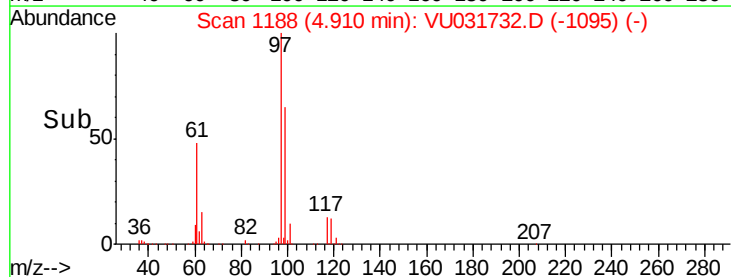
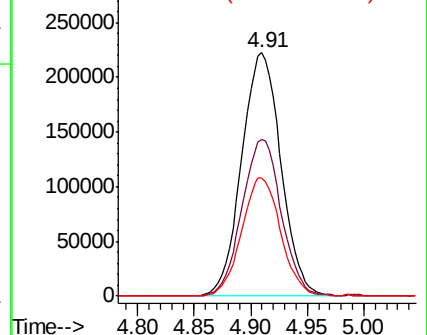


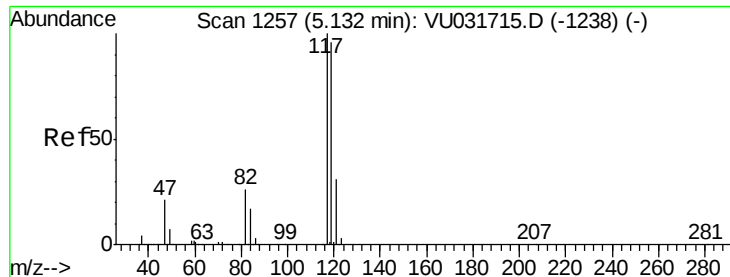
#30
1,1,1-Trichloroethane
Concen: 45.788 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

Tgt Ion: 97 Resp: 538061
Ion Ratio Lower Upper
97 100
99 64.6 52.0 78.0
61 48.4 38.7 58.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

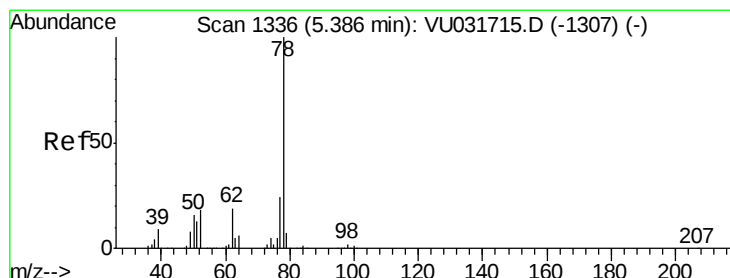
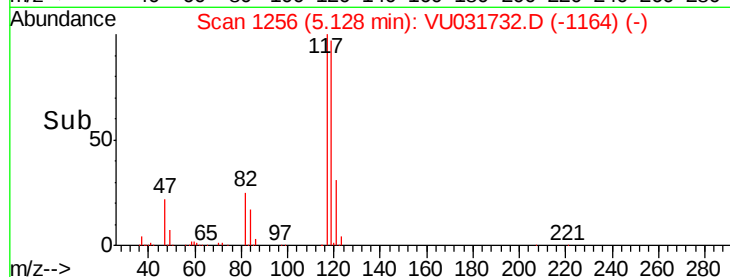
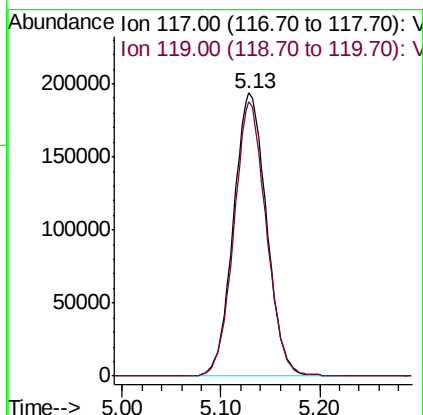
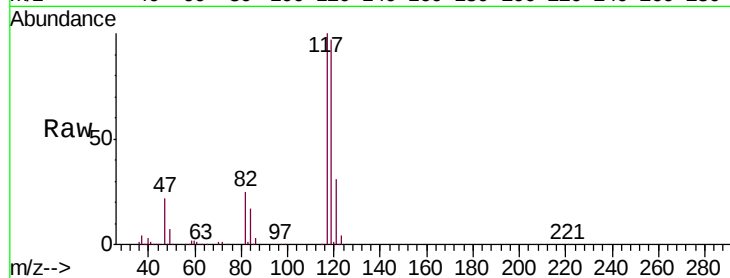




#31
Carbon tetrachloride
Concen: 44.834 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

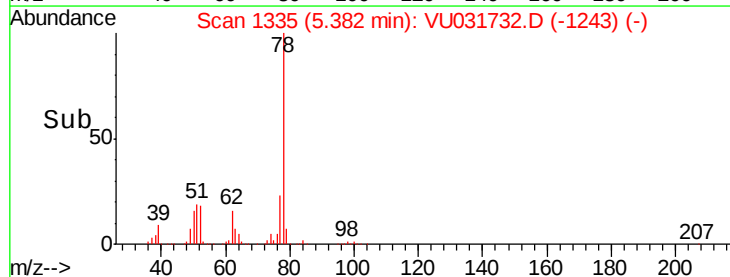
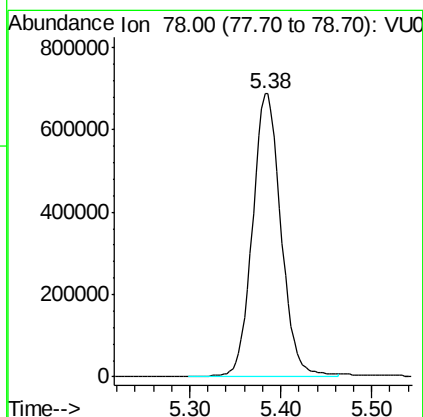
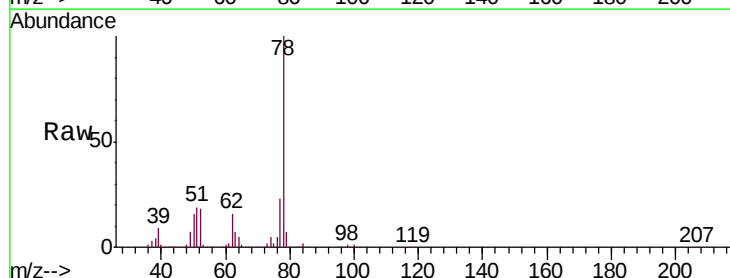
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

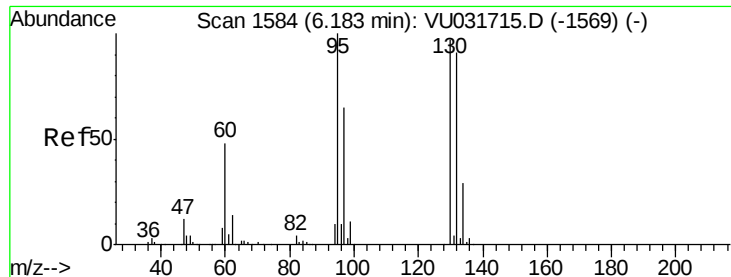
Tgt Ion:117 Resp: 450320
Ion Ratio Lower Upper
117 100
119 94.8 76.6 114.8



#33
Benzene
Concen: 48.664 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

Tgt Ion: 78 Resp: 1500587

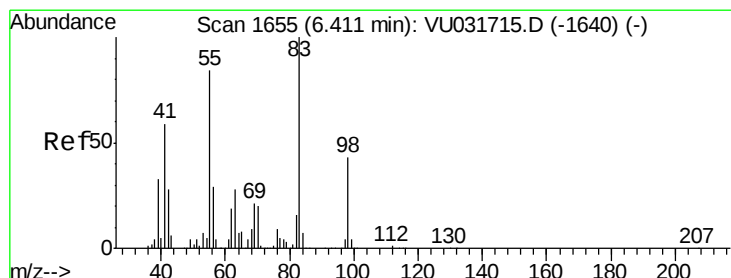
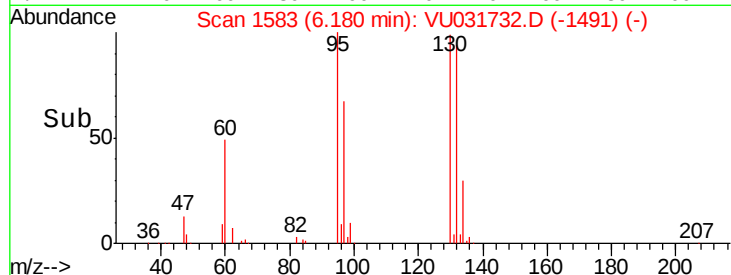
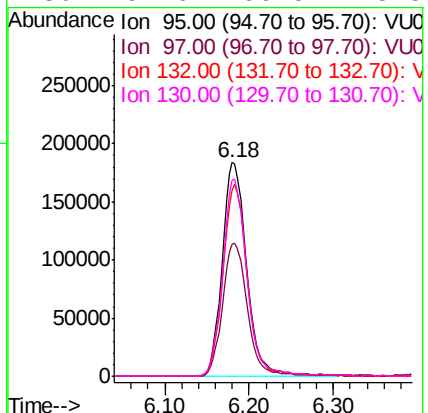
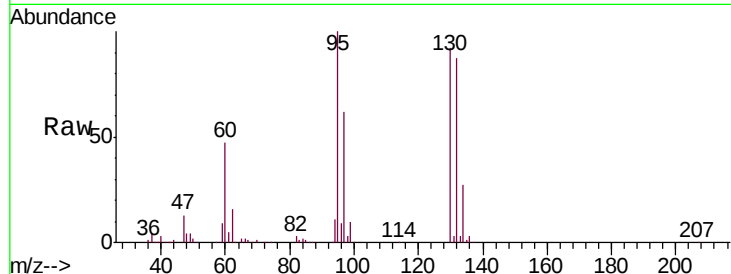




#34
 Trichloroethene
 Concen: 49.543 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

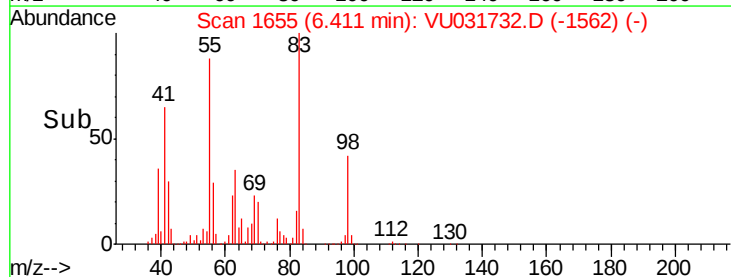
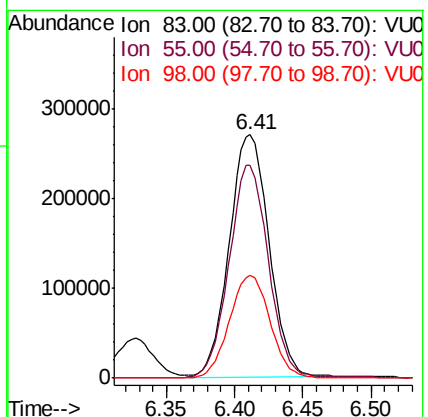
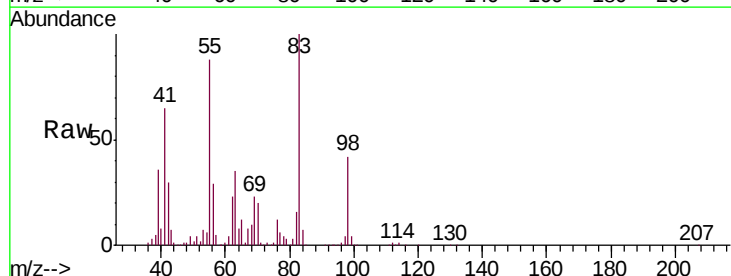
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

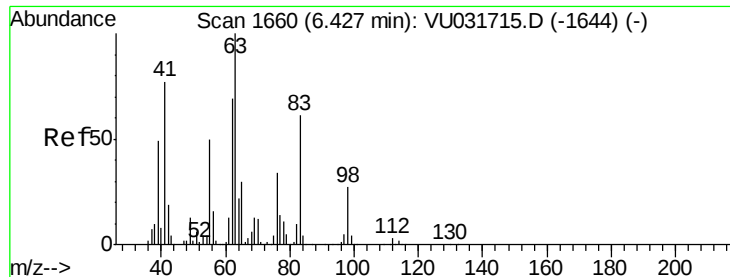
Tgt Ion:	95	Resp:	370321
Ion	Ratio	Lower	Upper
95	100		
97	61.8	44.8	83.2
132	87.1	63.1	117.1
130	91.6	66.5	123.5



#35
 Methylcyclohexane
 Concen: 48.606 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion:	83	Resp:	544491
Ion	Ratio	Lower	Upper
83	100		
55	87.2	73.0	109.4
98	43.4	35.3	52.9

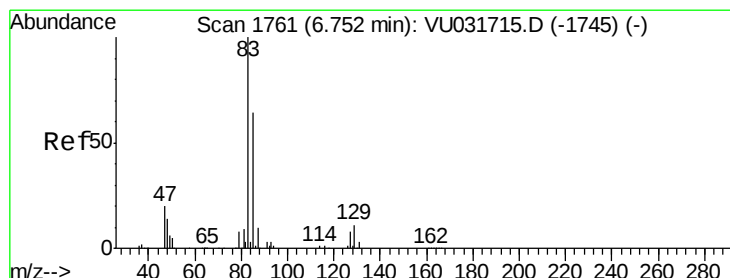
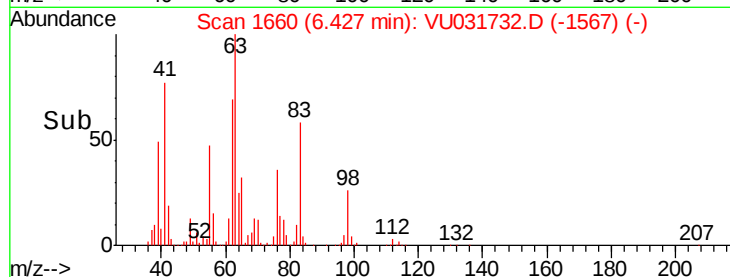
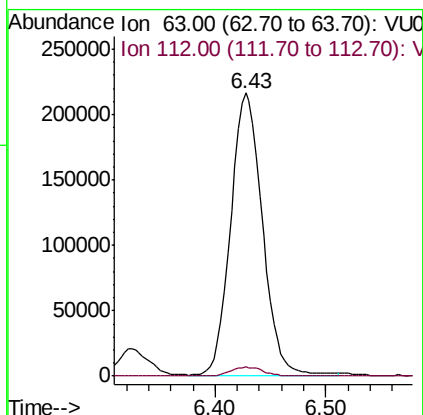
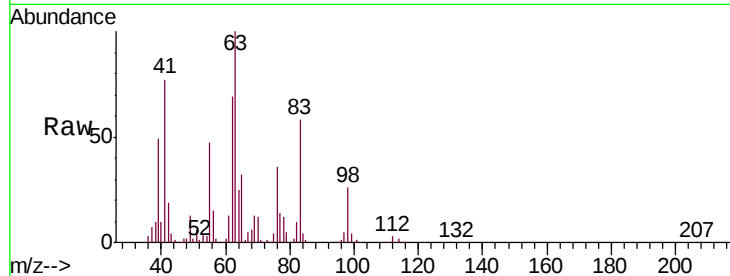




#37
 1,2-Dichloropropane
 Concen: 48.994 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

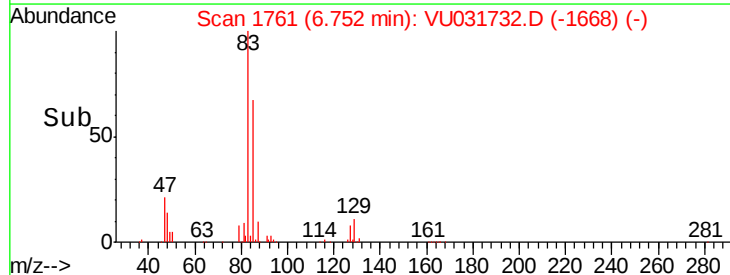
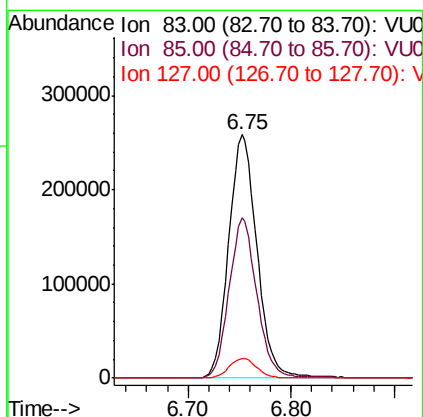
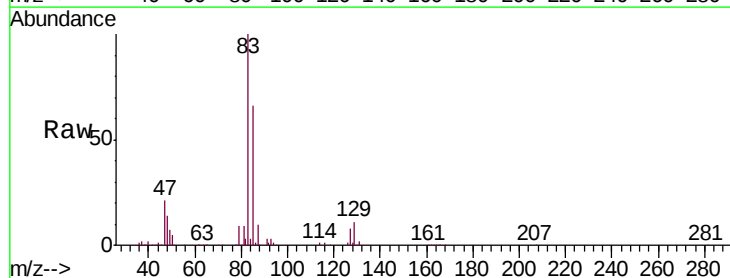
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

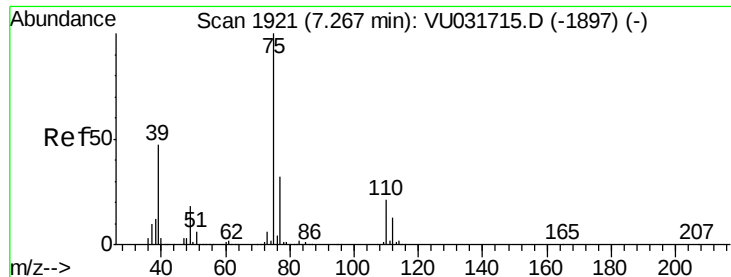
Tgt Ion: 63 Resp: 428893
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.7 4.1



#38
 Bromodichloromethane
 Concen: 46.485 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion: 83 Resp: 493408
 Ion Ratio Lower Upper
 83 100
 85 65.7 43.7 81.1
 127 7.9 6.7 10.1

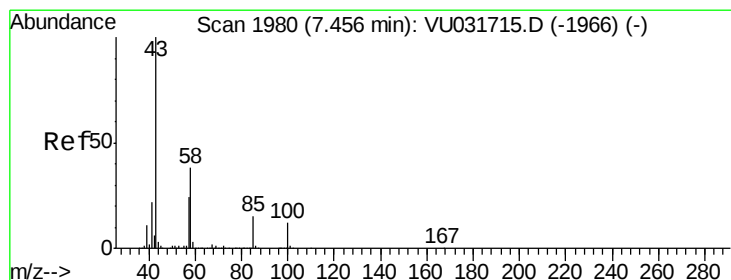
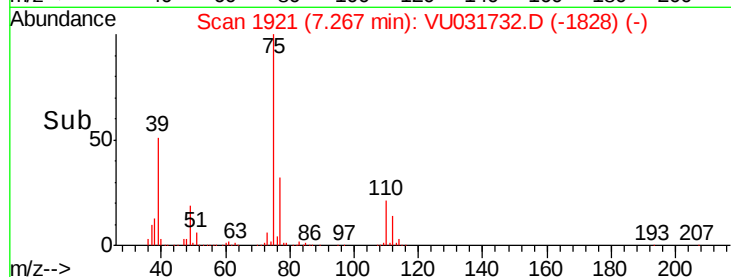
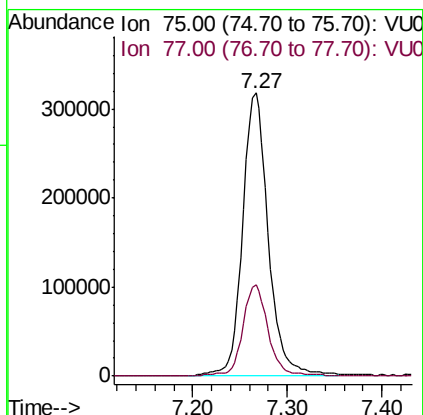
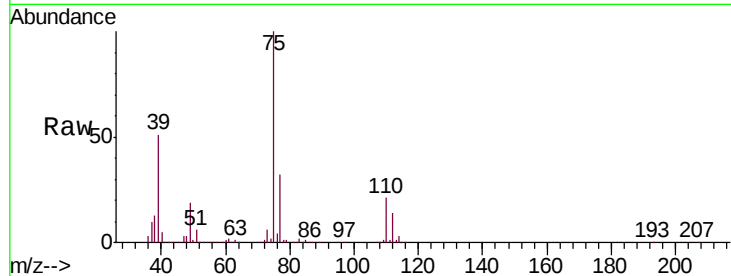




#39
 cis-1,3-Dichloropropene
 Concen: 52.048 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

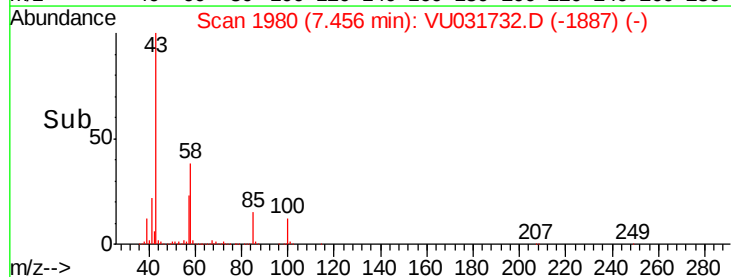
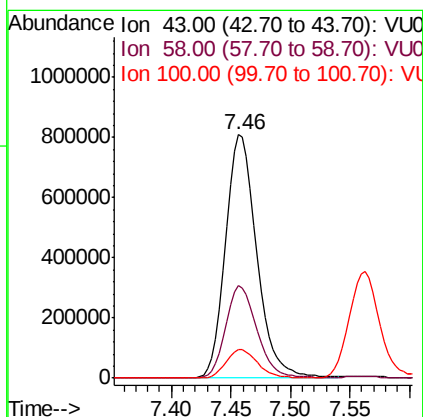
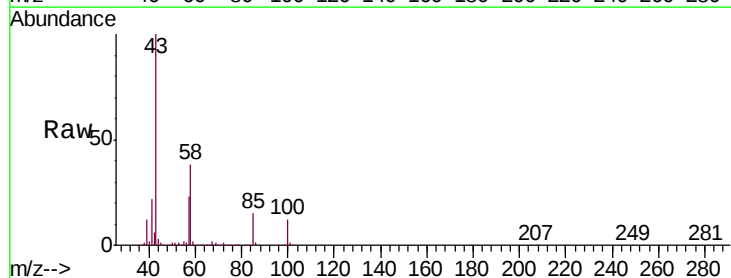
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

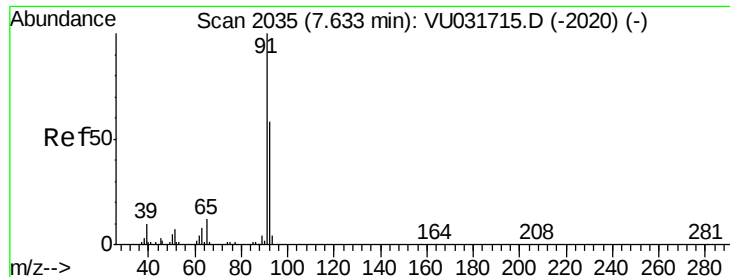
Tgt Ion: 75 Resp: 602061
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 109.760 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion: 43 Resp: 1478304
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.1 45.1
 100 11.9 9.6 14.4





#42

Toluene

Concen: 49.954 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

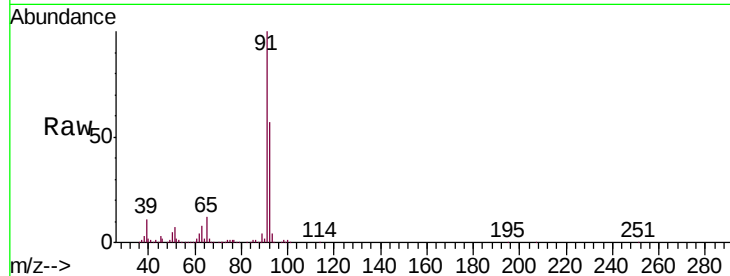
VSTD05032

Tgt Ion: 91 Resp: 1534418

Ion Ratio Lower Upper

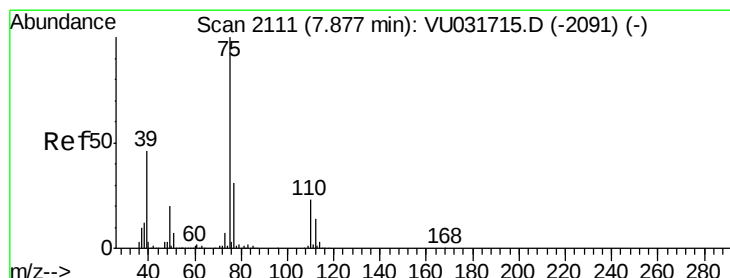
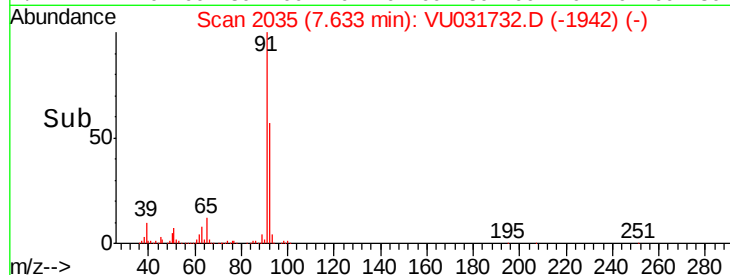
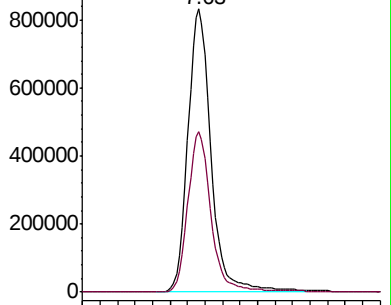
91 100

92 56.7 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031732.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031732.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 49.567 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031732.D

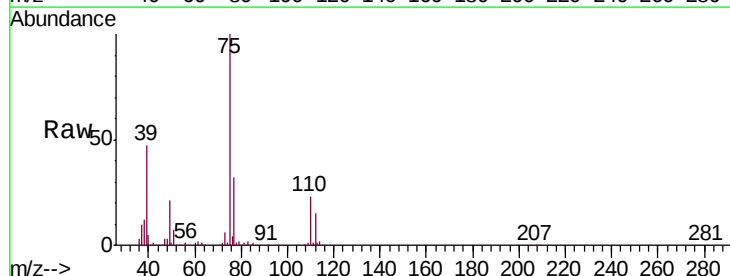
Acq: 02 May 2019 23:29

Tgt Ion: 75 Resp: 520041

Ion Ratio Lower Upper

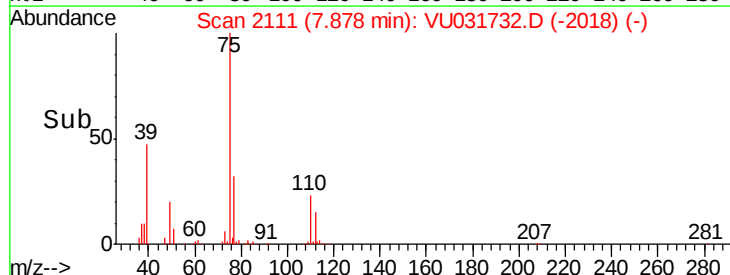
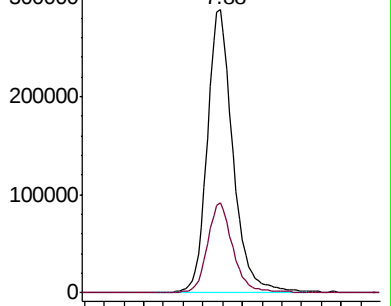
75 100

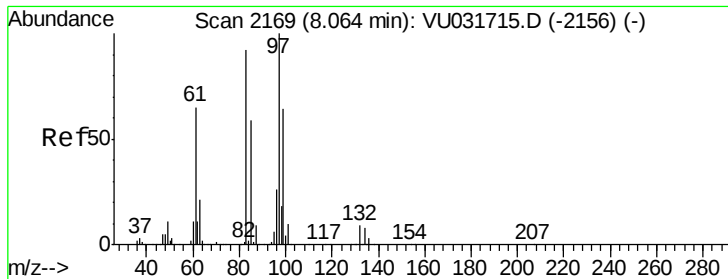
77 31.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031732.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU031732.D (-2018) (-)

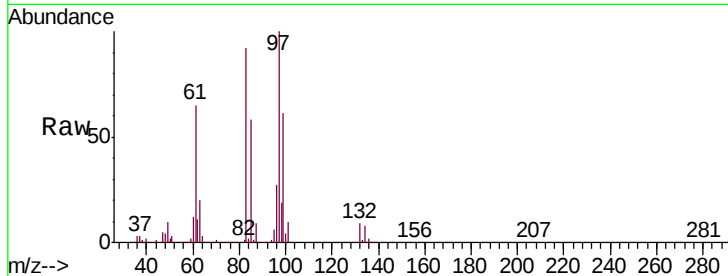




#45
 1,1,2-Trichloroethane
 Concen: 49.663 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion:	97	Resp:	358408
Ion	Ratio	Lower	Upper
97	100		
99	61.1	43.0	80.0
83	92.1	63.6	118.2
85	58.1	40.5	75.3

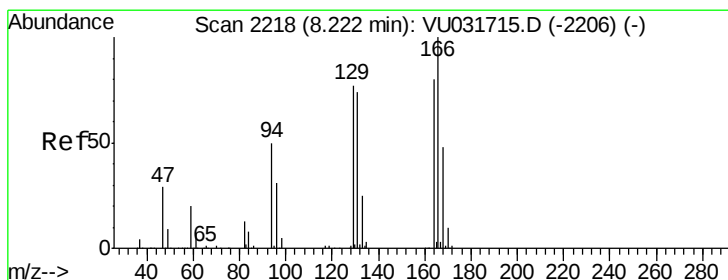
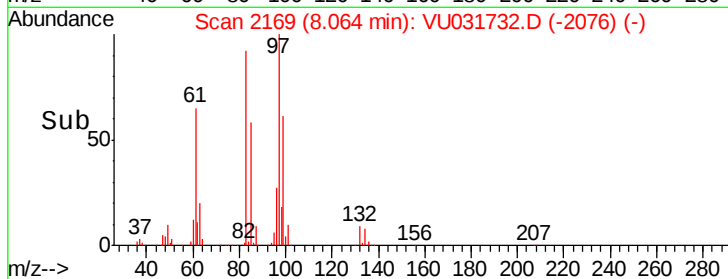
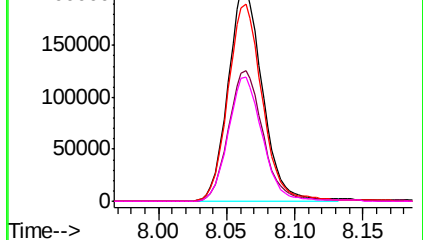


Abundance Ion 97.00 (96.70 to 97.70): VU031715.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU031715.D (-2156) (-)

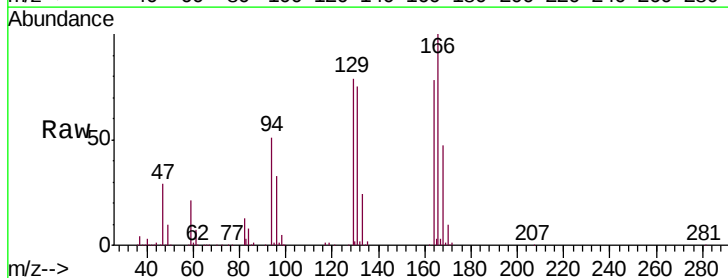
Ion 83.00 (82.70 to 83.70): VU031715.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU031715.D (-2156) (-)



#46
 Tetrachloroethene
 Concen: 47.011 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion:	164	Resp:	239556
Ion	Ratio	Lower	Upper
164	100		
129	101.3	71.5	132.9
131	96.4	69.0	128.2
166	128.1	93.7	173.9

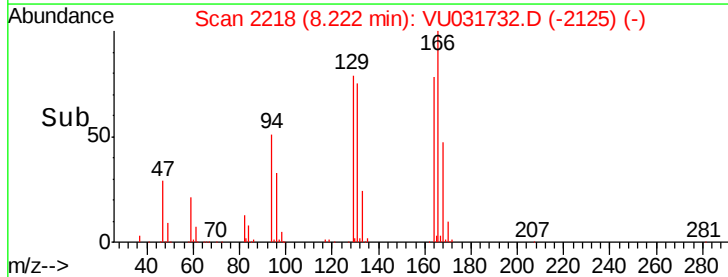
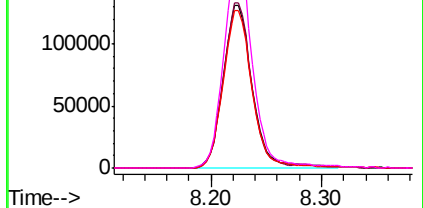


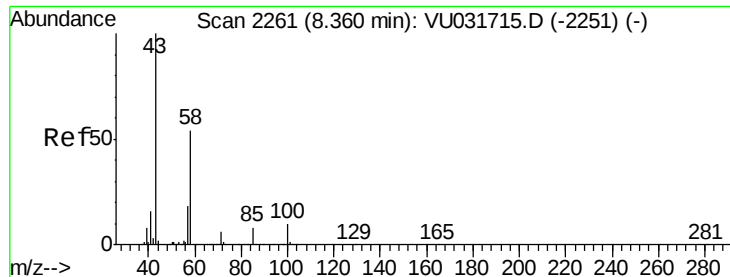
Abundance Ion 164.00 (163.70 to 164.70): VU031715.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU031715.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU031715.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU031715.D (-2206) (-)

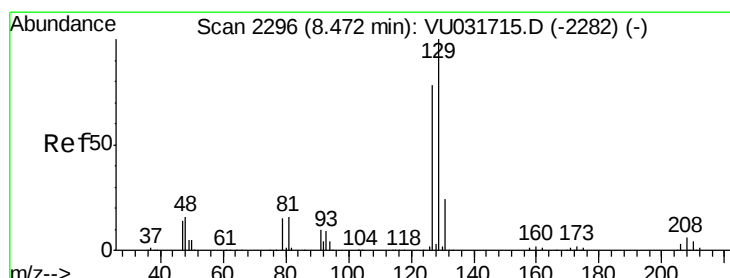
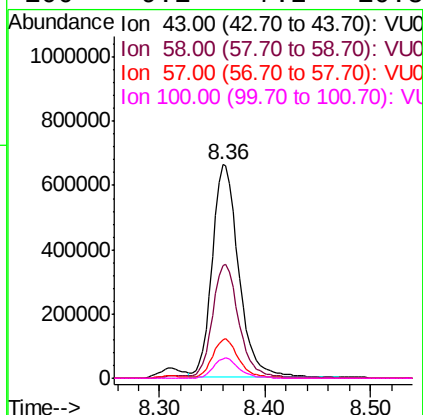
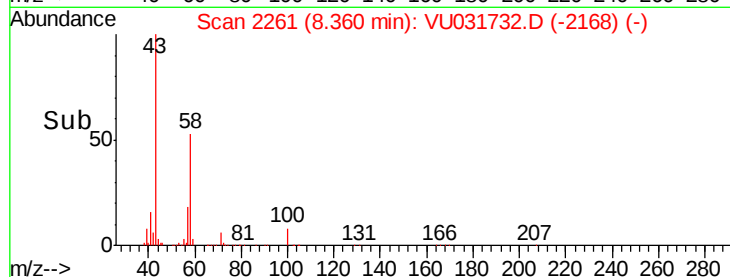
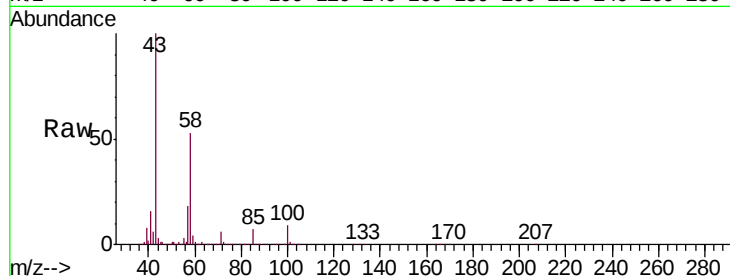




#48
2-Hexanone
Concen: 106.535 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

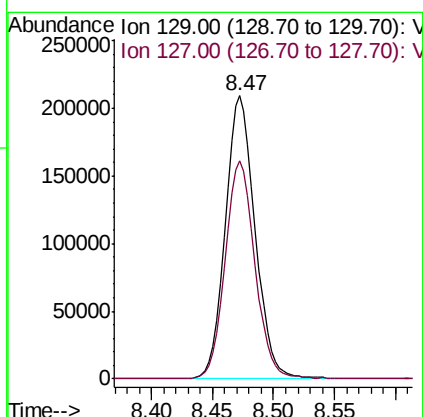
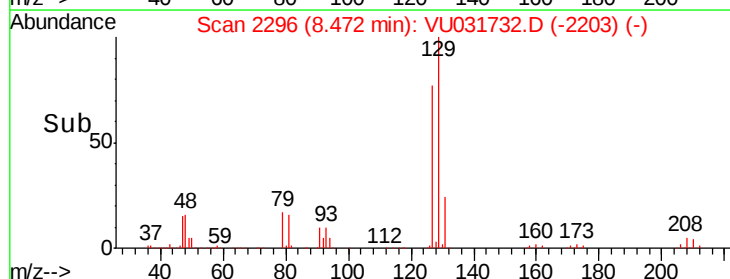
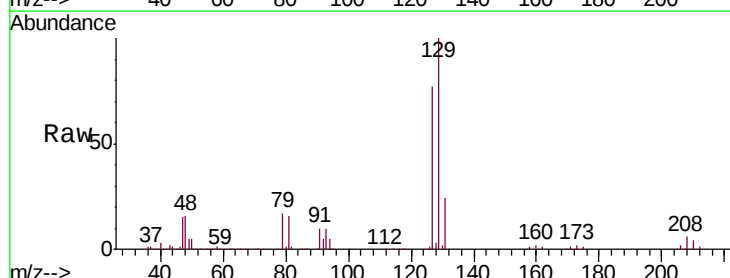
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

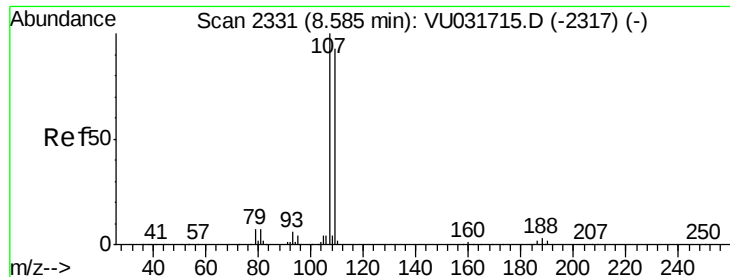
Tgt Ion: 43 Resp: 1160503
Ion Ratio Lower Upper
43 100
58 53.2 42.1 63.1
57 18.2 14.6 22.0
100 9.1 7.2 10.8



#49
Dibromochloromethane
Concen: 47.653 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

Tgt Ion: 129 Resp: 357828
Ion Ratio Lower Upper
129 100
127 77.0 54.0 100.2

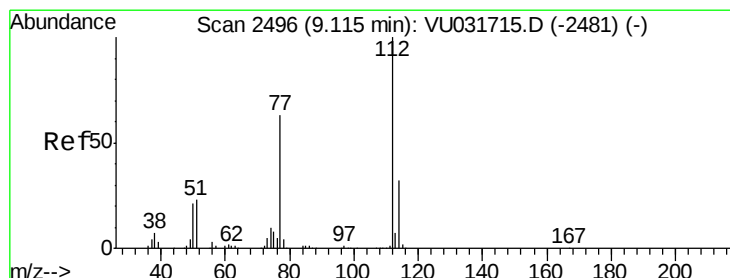
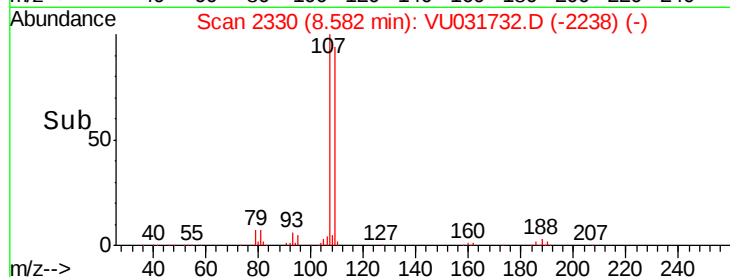
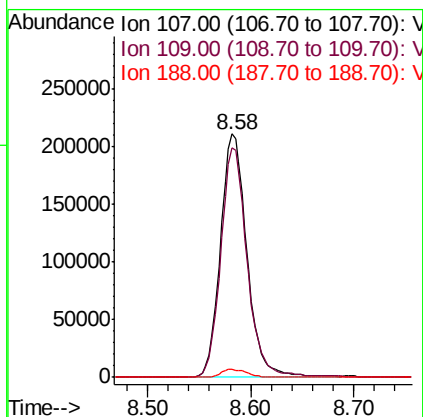
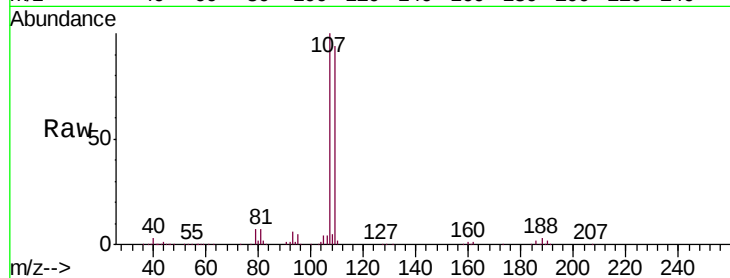




#50
1,2-Dibromoethane
Concen: 49.627 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

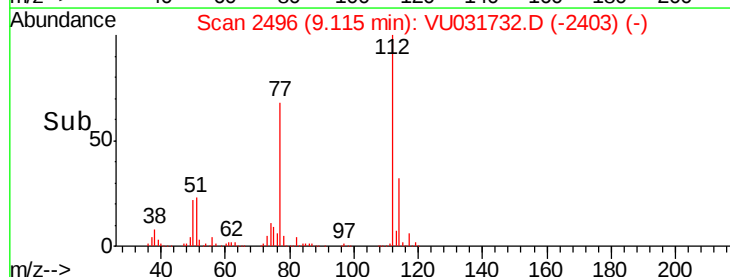
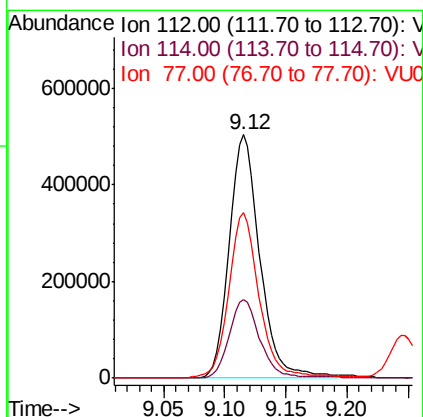
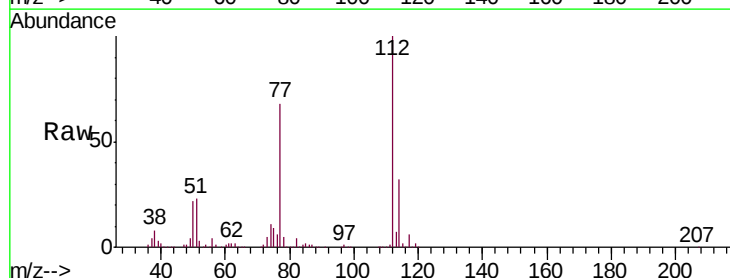
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

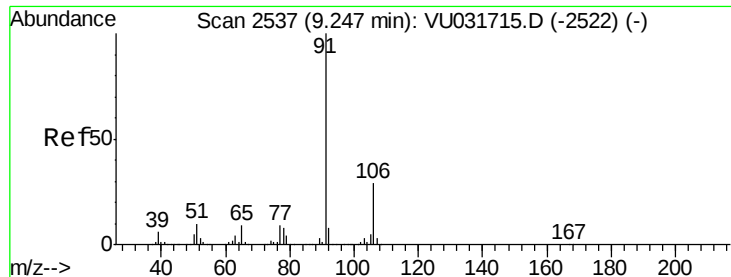
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.9	120.5
188	3.1	2.4	3.6



#51
Chlorobenzene
Concen: 48.699 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031732.D
Acq: 02 May 2019 23:29

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	23.3	43.3
77	68.1	53.0	79.4





#52

Ethylbenzene

Concen: 51.532 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

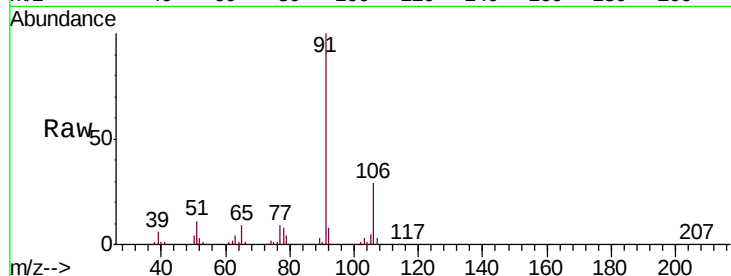
VSTD05032

Tgt Ion: 91 Resp: 1641933

Ion Ratio Lower Upper

91 100

106 29.4 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031715.D (-2522) (-)

Ion 106.00 (105.70 to 106.70): VU031715.D (-2522) (-)

9.25

1000000

800000

600000

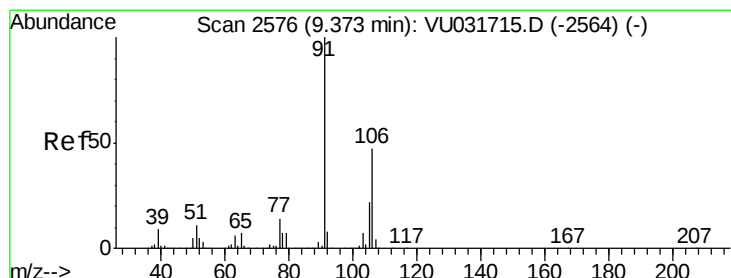
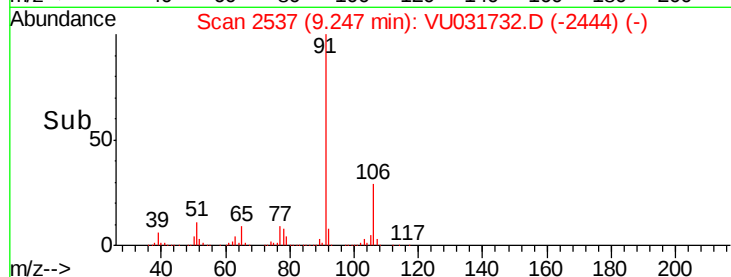
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 53.740 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031732.D

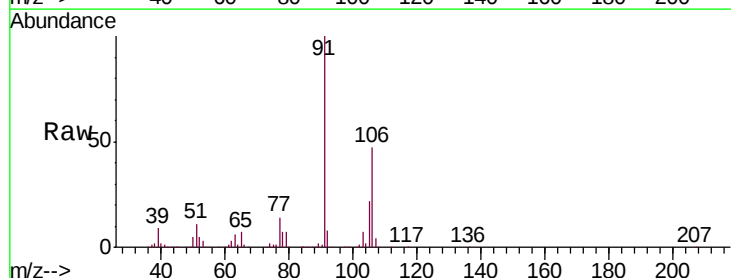
Acq: 02 May 2019 23:29

Tgt Ion: 106 Resp: 596592

Ion Ratio Lower Upper

106 100

91 214.2 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): VU031715.D (-2564) (-)

Ion 91.00 (90.70 to 91.70): VU031715.D (-2564) (-)

9.37

1000000

800000

600000

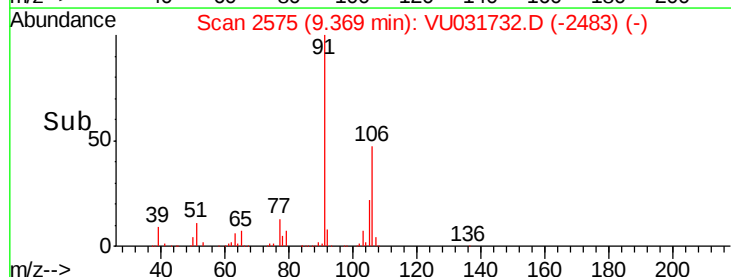
400000

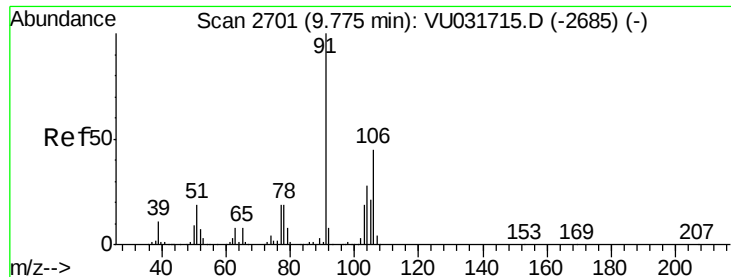
200000

0

9.30 9.35 9.40 9.45 9.50

Time-->





#54

o-xylene

Concen: 53.800 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

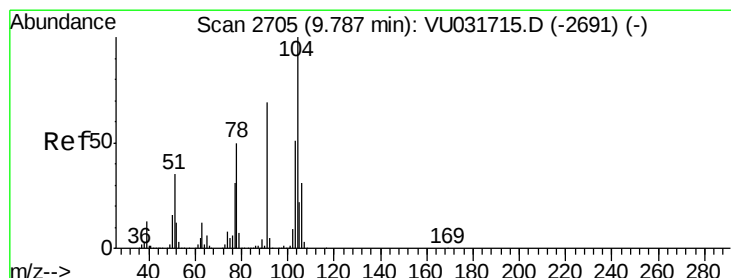
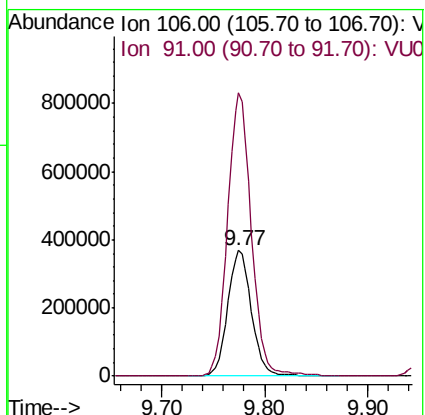
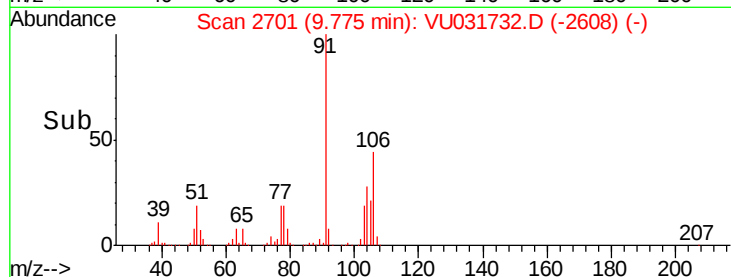
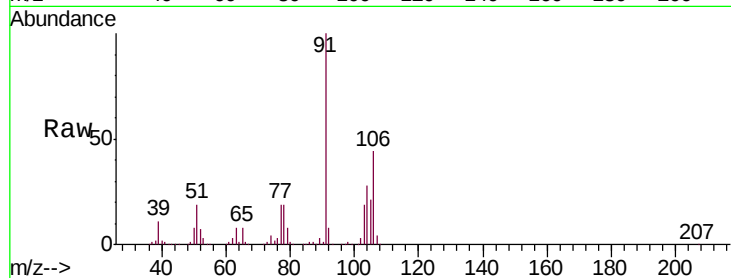
VSTD05032

Tgt Ion:106 Resp: 592119

Ion Ratio Lower Upper

106 100

91 225.5 163.2 303.2



#55

Styrene

Concen: 53.400 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031732.D

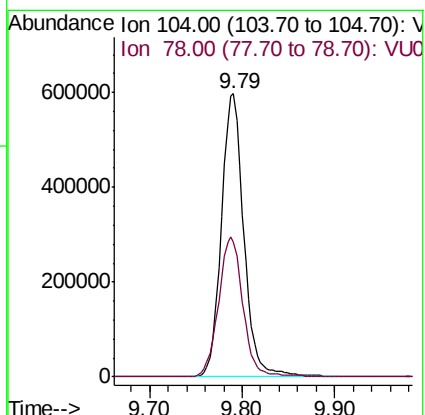
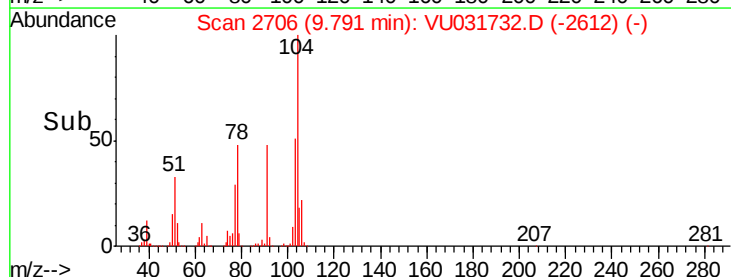
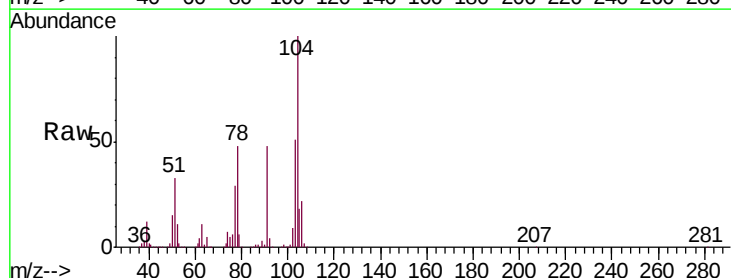
Acq: 02 May 2019 23:29

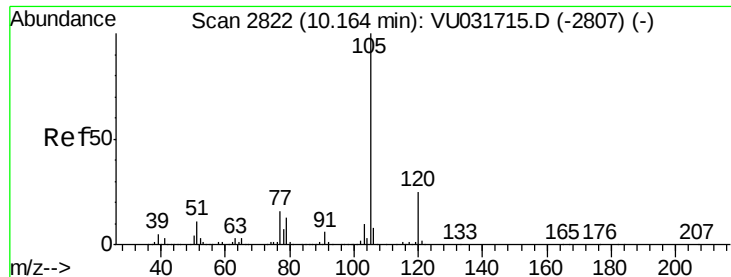
Tgt Ion:104 Resp: 1004102

Ion Ratio Lower Upper

104 100

78 47.8 35.4 65.7





#56

Isopropylbenzene

Concen: 53.075 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

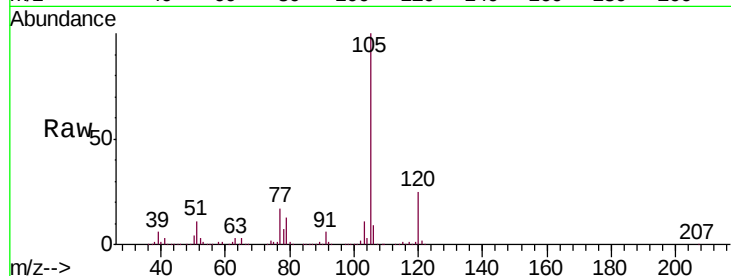
Tgt Ion:105 Resp: 1536036

Ion Ratio Lower Upper

105 100

120 25.1 20.1 30.1

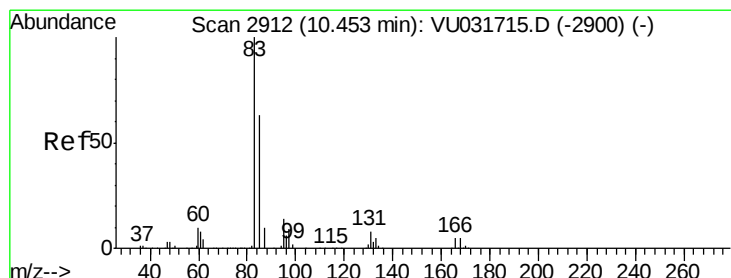
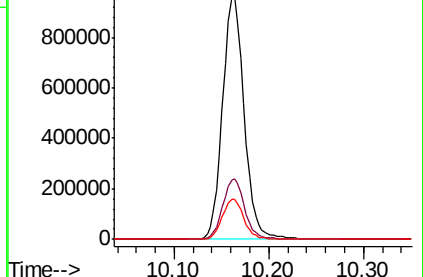
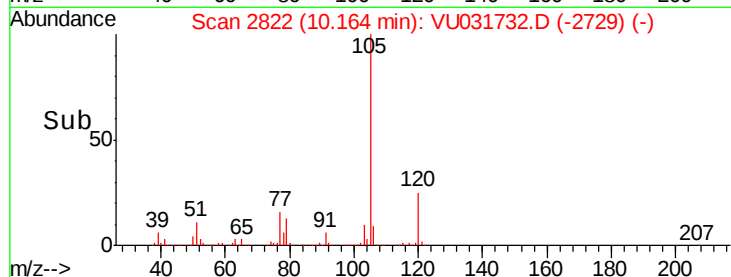
77 16.6 13.8 20.6



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: 49.810 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

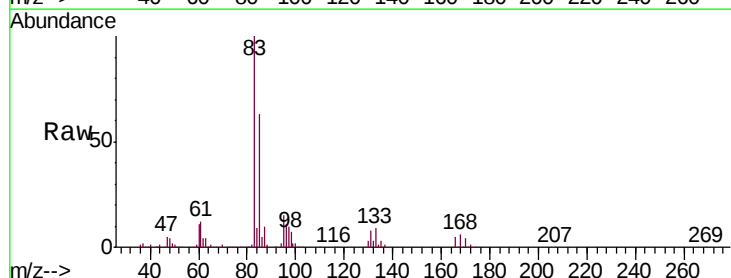
Tgt Ion: 83 Resp: 637876

Ion Ratio Lower Upper

83 100

85 62.5 46.0 85.4

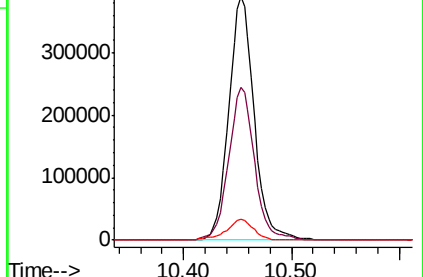
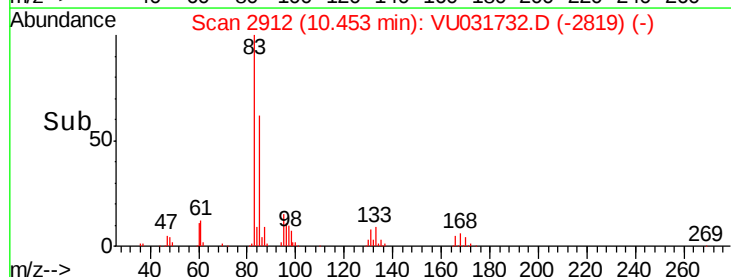
131 8.5 7.3 10.9

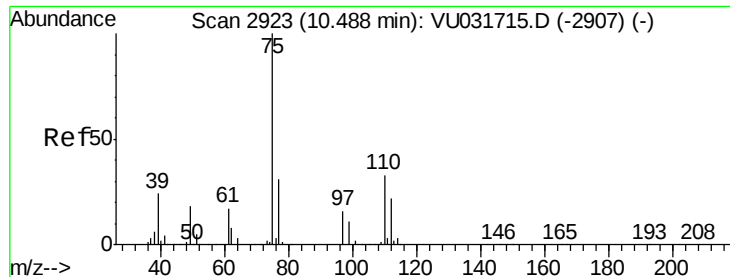


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.050 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

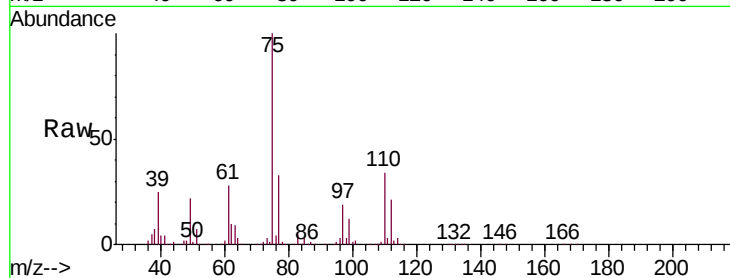
VSTD05032

Tgt Ion: 75 Resp: 519469

Ion Ratio Lower Upper

75 100

77 32.3 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031715.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU031715.D (-2907) (-)

10.49

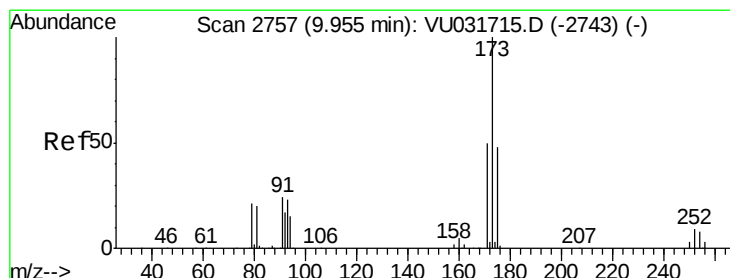
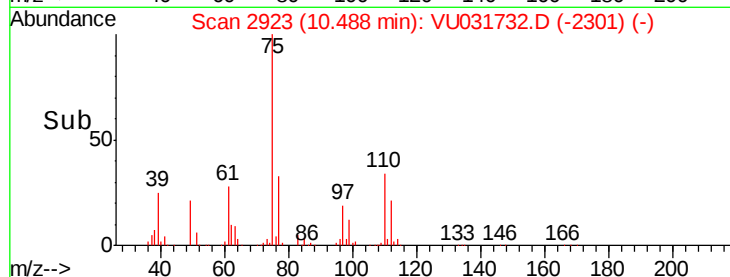
300000

200000

100000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 46.058 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

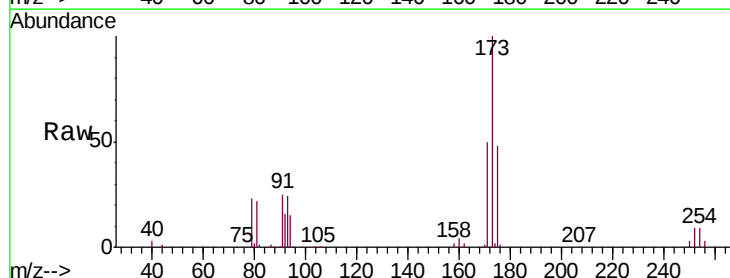
Tgt Ion: 173 Resp: 256072

Ion Ratio Lower Upper

173 100

175 49.5 38.3 57.5

254 8.3 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031715.D (-2743) (-)

Ion 175.00 (174.70 to 175.70): VU031715.D (-2743) (-)

Ion 254.00 (253.70 to 254.70): VU031715.D (-2743) (-)

9.95

200000

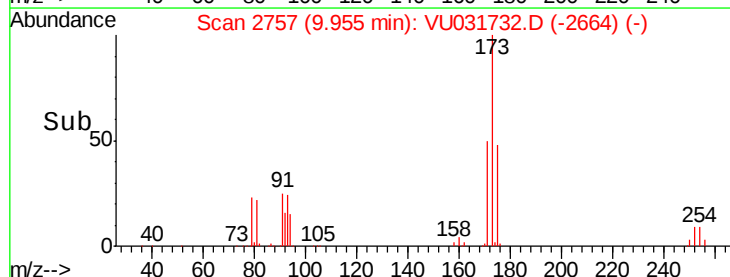
150000

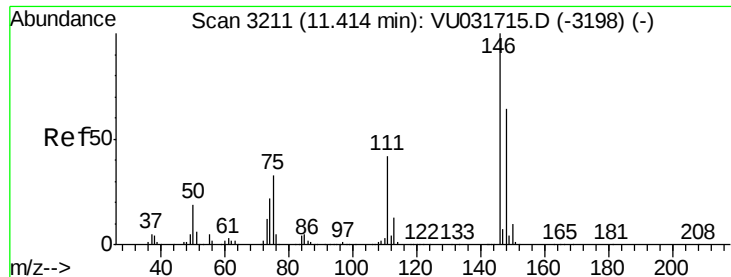
100000

50000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 50.394 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

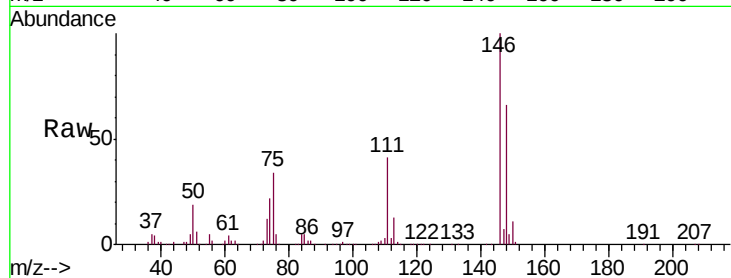
Tgt Ion:146 Resp: 625658

Ion Ratio Lower Upper

146 100

111 41.2 29.8 55.4

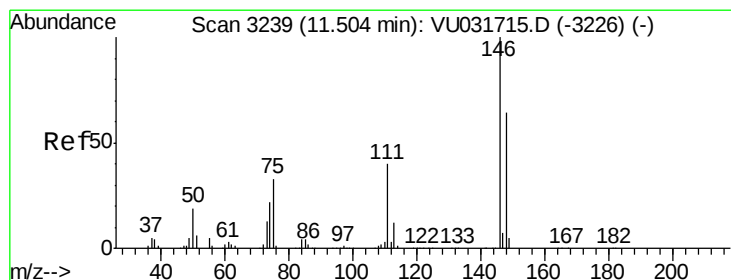
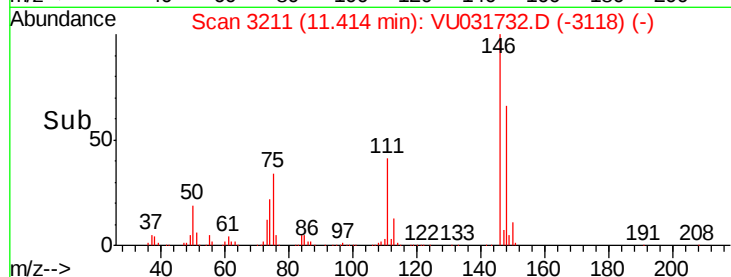
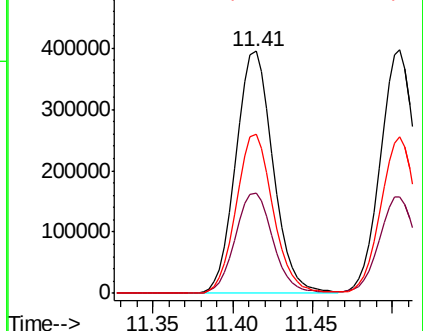
148 65.8 45.1 83.9



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: 49.151 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

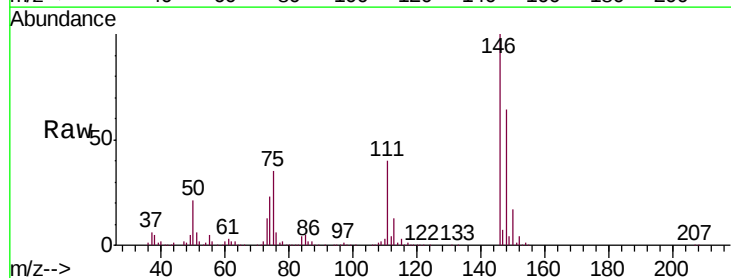
Tgt Ion:146 Resp: 631970

Ion Ratio Lower Upper

146 100

111 39.8 28.2 52.4

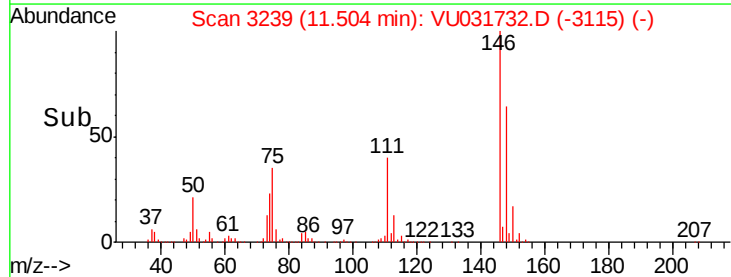
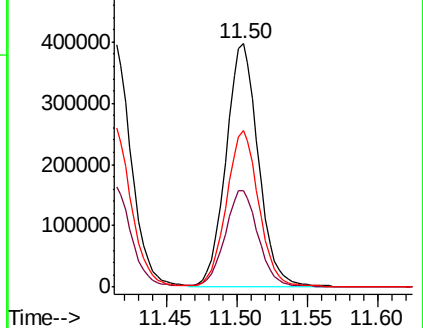
148 64.2 45.4 84.4

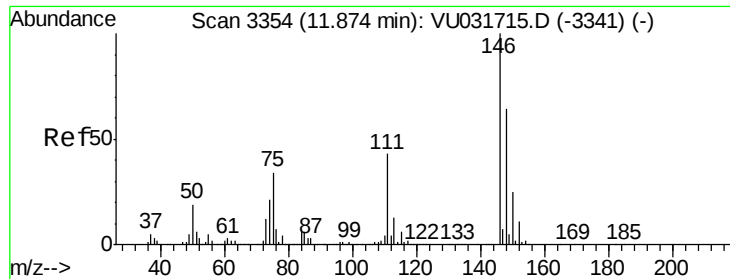


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

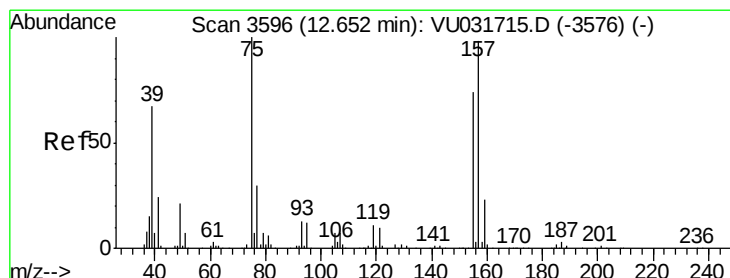
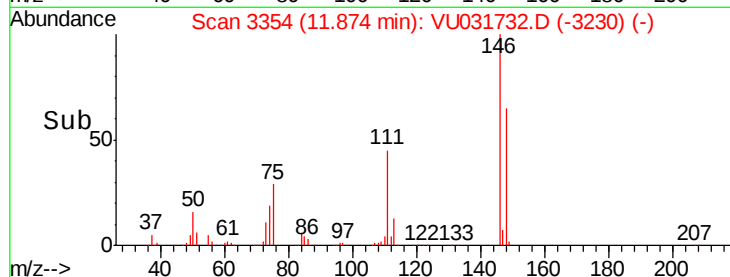
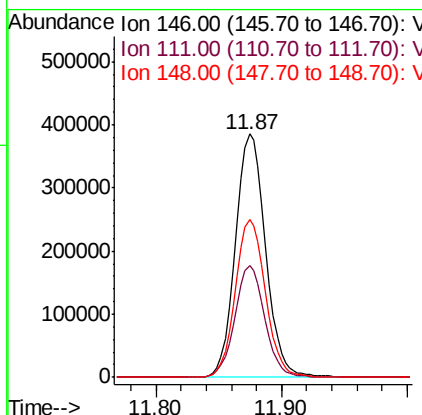
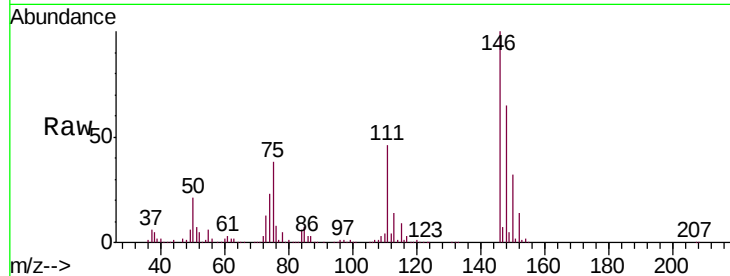




#65
 1,2-Dichlorobenzene
 Concen: 48.722 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

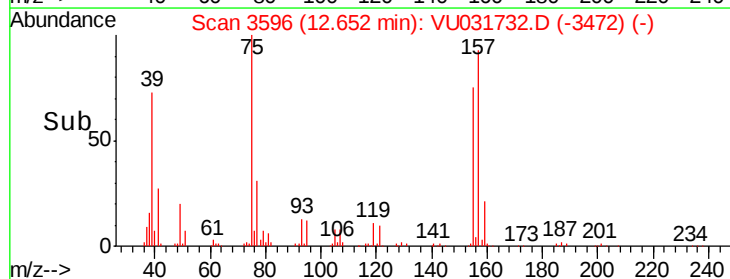
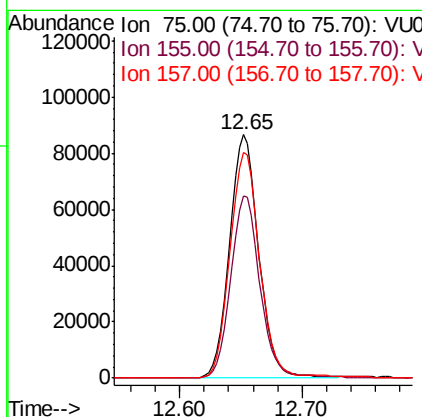
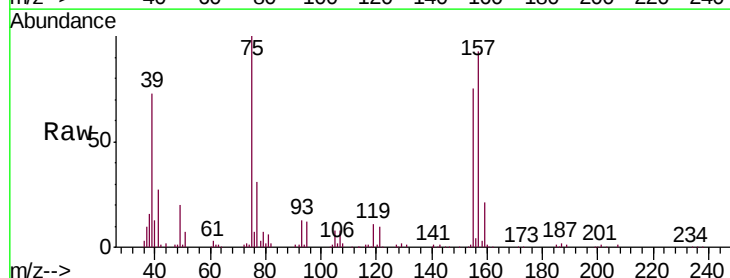
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

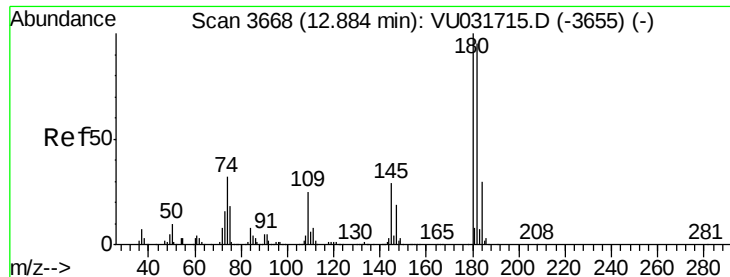
Tgt Ion: 146 Resp: 642884
 Ion Ratio Lower Upper
 146 100
 111 46.0 35.9 53.9
 148 64.8 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.281 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031732.D
 Acq: 02 May 2019 23:29

Tgt Ion: 75 Resp: 144792
 Ion Ratio Lower Upper
 75 100
 155 74.9 54.0 81.0
 157 92.8 69.1 103.7





#67

1,3,5-Trichlorobenzene

Concen: 46.840 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

Tgt Ion:180 Resp: 435561

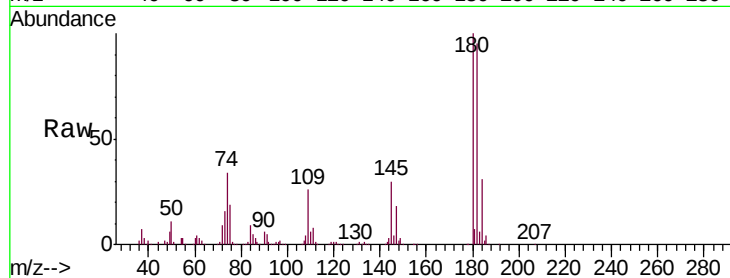
Ion Ratio Lower Upper

180 100

182 94.8 77.3 115.9

184 31.0 24.4 36.6

145 29.5 23.8 35.8

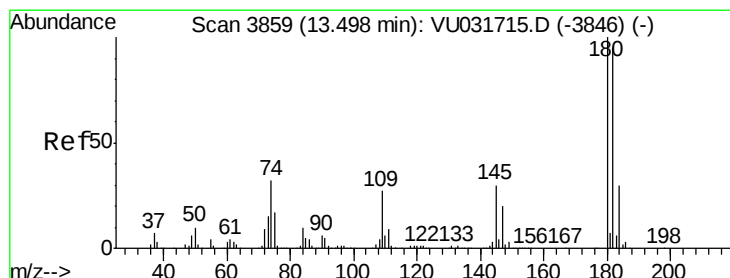
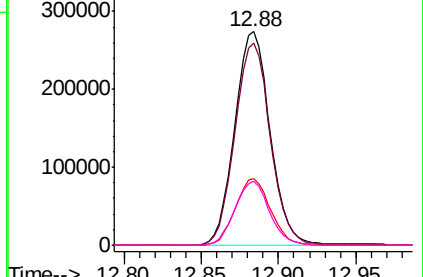
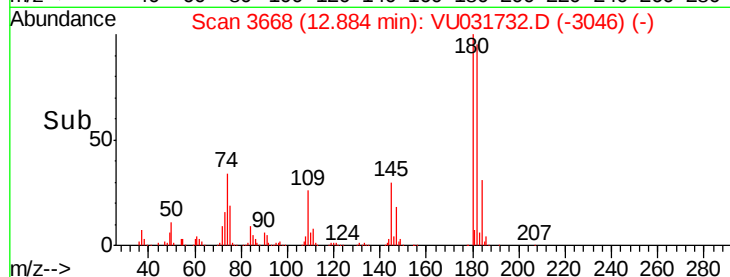


Abundance Ion 180.00 (179.70 to 180.70): V

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: 53.523 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

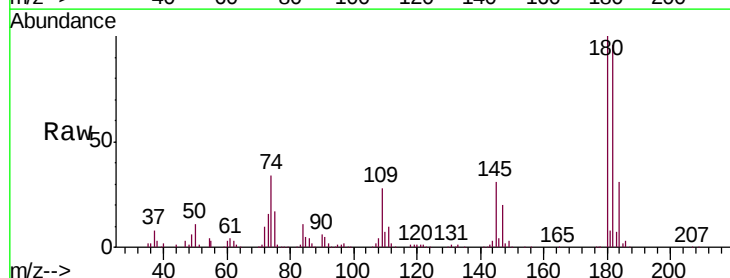
Tgt Ion:180 Resp: 394014

Ion Ratio Lower Upper

180 100

182 94.1 75.8 113.8

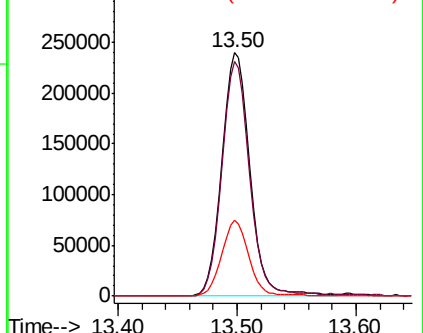
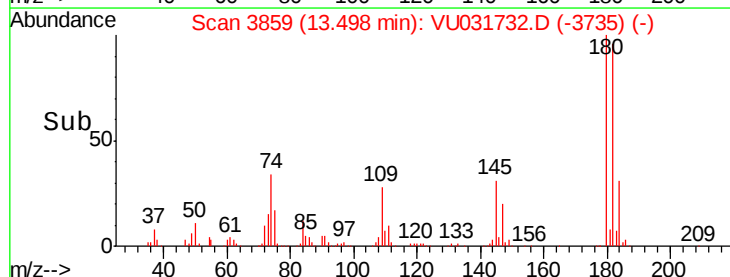
145 29.8 24.5 36.7

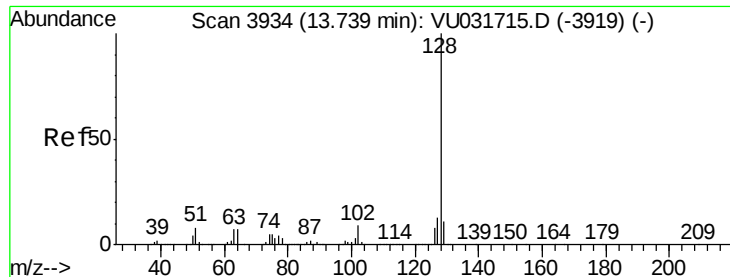


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 60.054 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

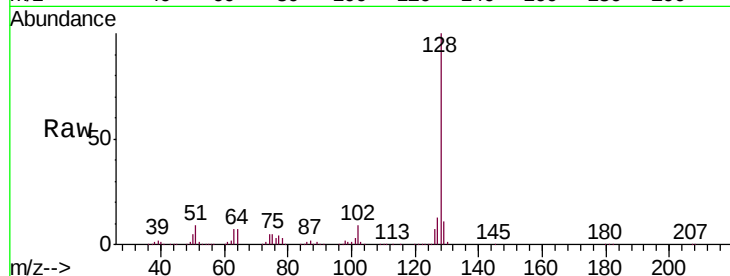
Tgt Ion:128 Resp: 1507332

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

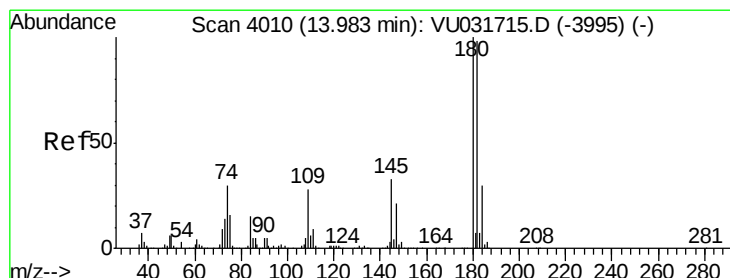
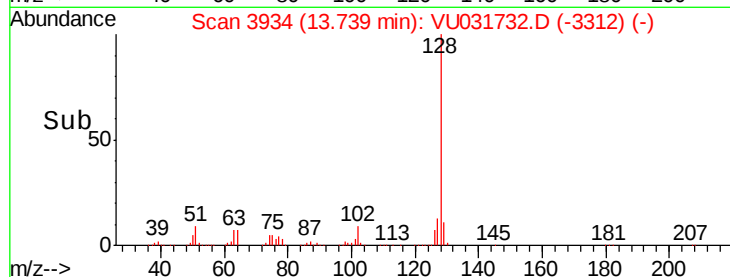
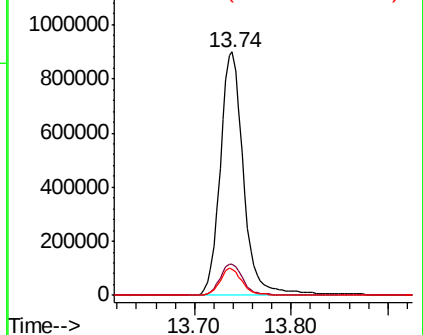
129 10.5 8.7 13.1



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: 49.451 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031732.D

Acq: 02 May 2019 23:29

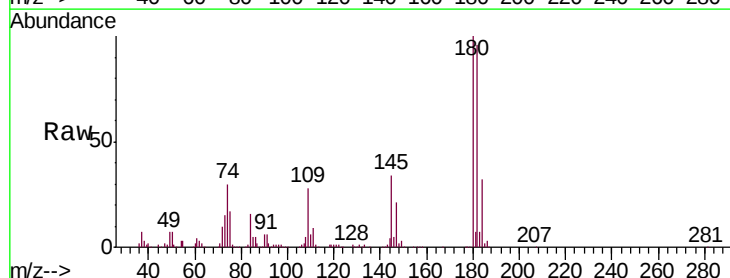
Tgt Ion:180 Resp: 414455

Ion Ratio Lower Upper

180 100

182 96.2 76.1 114.1

145 32.7 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

