

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032319.D
 Acq On : 28 May 2019 11:25
 Operator : JC/SP
 Sample : VSTD01054
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

Quant Time: May 29 04:48:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 04:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	798718	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	785361	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	361422	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	59773	13.25	ug/L	0.00
7) Chloroethane-d5	1.67	69	48490	11.70	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	109477	12.60	ug/L	0.00
21) 2-Butanone-d5	4.18	46	69611	17.64	ug/L	0.00
24) Chloroform-d	4.64	84	102942	9.74	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	64181	9.79	ug/L	0.00
32) Benzene-d6	5.34	84	211788	10.56	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	64401	10.15	ug/L	0.00
41) Toluene-d8	7.56	98	194208	10.55	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	27667	9.45	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	47124	17.62	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	100063	9.59	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	73107	9.66	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	66392	12.740 ug/L	97
3) Chloromethane	1.33	50	69890	11.135 ug/L	99
5) Vinyl chloride	1.40	62	71244	12.013 ug/L	96
6) Bromomethane	1.62	94	46352	10.190 ug/L	97
8) Chloroethane	1.69	64	41345	10.498 ug/L	95
9) Trichlorofluoromethane	1.88	101	89323	11.978 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	54266	12.471 ug/L	99
12) 1,1-Dichloroethene	2.28	96	53155	11.168 ug/L	90
13) Acetone	2.32	43	80583	24.161 ug/L	99
14) Carbon disulfide	2.47	76	158534	11.087 ug/L	98
15) Methyl Acetate	2.61	43	62049	10.022 ug/L	100
16) Methylene chloride	2.70	84	63698	9.754 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	55975	10.284 ug/L	95
18) Methyl tert-butyl Ether	3.00	73	162398	8.919 ug/L	99
19) 1,1-Dichloroethane	3.44	63	101252	10.384 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	58704	9.226 ug/L	98
22) 2-Butanone	4.27	43	83034	18.959 ug/L	97
23) Bromochloromethane	4.54	128	32013	9.180 ug/L	97
25) Chloroform	4.67	83	103753	9.656 ug/L	99
27) 1,2-Dichloroethane	5.40	62	77889	9.346 ug/L	99
29) Cyclohexane	4.99	56	79452	12.131 ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	88051	11.210 ug/L	98
31) Carbon tetrachloride	5.13	117	74143	11.411 ug/L	97
33) Benzene	5.39	78	226259	10.135 ug/L	100
34) Trichloroethene	6.18	95	58802	10.523 ug/L	98
35) Methylcyclohexane	6.41	83	87326	12.316 ug/L	97
37) 1,2-Dichloropropane	6.43	63	61801	10.657 ug/L	# 96
38) Bromodichloromethane	6.76	83	78284	9.824 ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	83393	9.775 ug/L	92
40) 4-Methyl-2-pentanone	7.46	43	145509	18.292 ug/L	98

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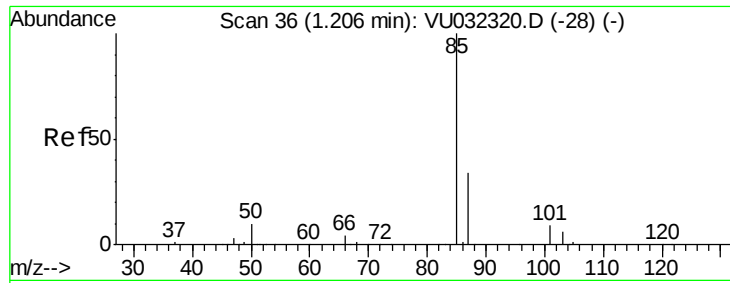
Quant Time: May 29 04:48:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.63	91	243747	10.316	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	73615	9.797	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	56404	8.974	ug/L	95
46) Tetrachloroethene	8.22	164	48967	11.485	ug/L	94
48) 2-Hexanone	8.36	43	111011	17.766	ug/L	97
49) Dibromochloromethane	8.47	129	61318	9.175	ug/L	96
50) 1,2-Dibromoethane	8.58	107	59836	8.868	ug/L	98
51) Chlorobenzene	9.12	112	160208	10.150	ug/L	99
52) Ethylbenzene	9.25	91	249847	10.246	ug/L	99
53) m,p-Xylene	9.37	106	96544	10.255	ug/L	92
54) o-xylene	9.78	106	96738	9.954	ug/L	99
55) Styrene	9.79	104	154657	9.341	ug/L	96
56) Isopropylbenzene	10.16	105	238246	10.312	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	99578	9.303	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	77284	9.169	ug/L	100
61) Bromoform	9.95	173	48765	9.284	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	113460	9.898	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	118125	9.895	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	120667	9.756	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	19140	8.636	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	82390	10.070	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	54370	8.445	ug/L	98
69) Naphthalene	13.74	128	143593	6.523	ug/L	97
70) 1,2,3-Trichlorobenzene	13.98	180	63055	8.603	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 12.740 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

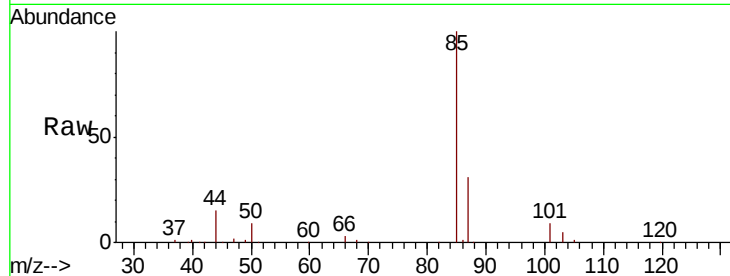
VSTD01054

Tgt Ion: 85 Resp: 66392

Ion Ratio Lower Upper

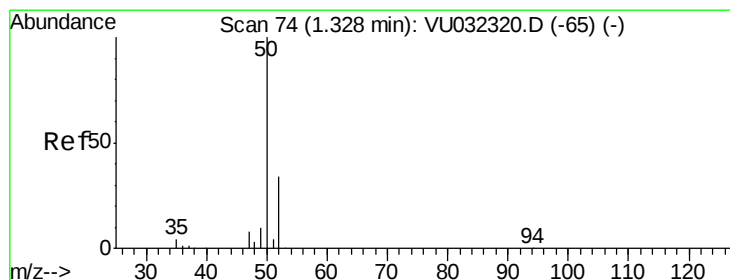
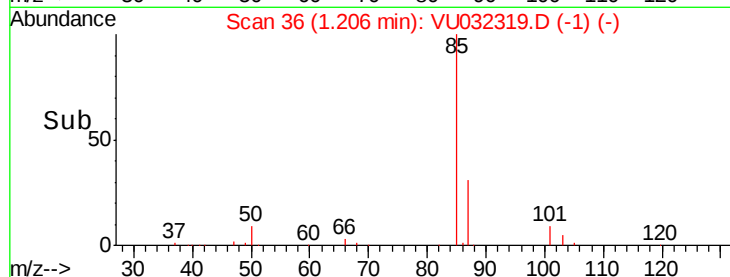
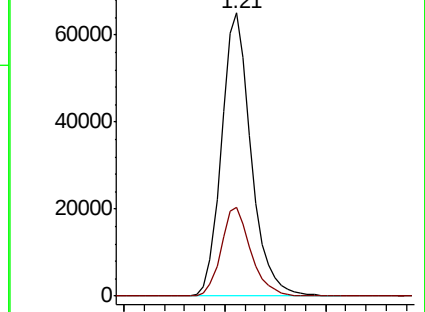
85 100

87 31.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU032319.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032319.D (-1) (-)



#3

Chloromethane

Concen: 11.135 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU032319.D

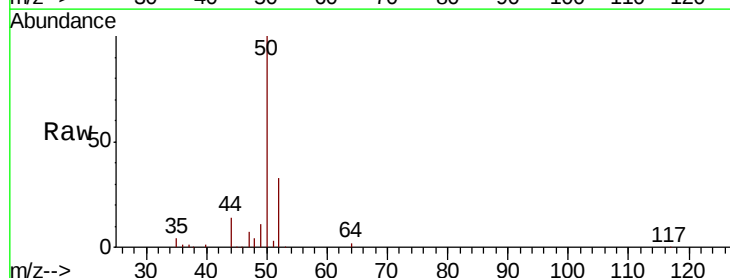
Acq: 28 May 2019 11:25

Tgt Ion: 50 Resp: 69890

Ion Ratio Lower Upper

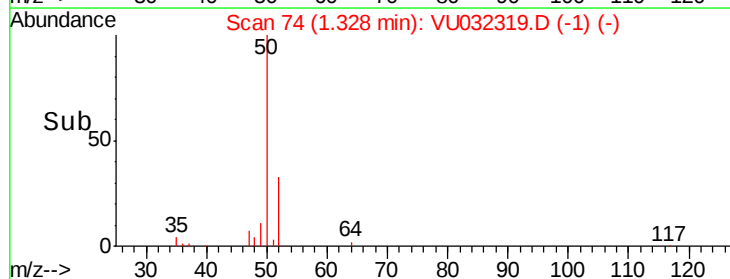
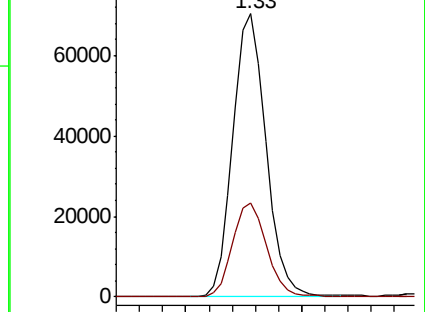
50 100

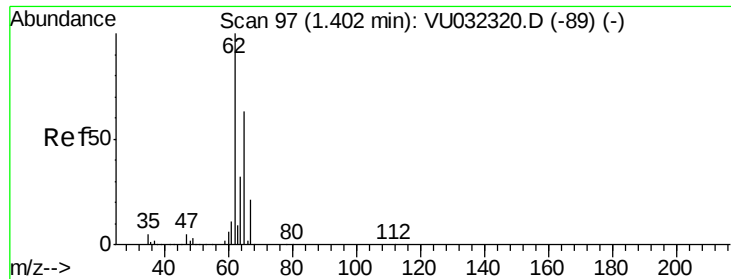
52 33.1 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU032319.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU032319.D (-1) (-)





#5

Vinyl chloride

Concen: 12.013 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

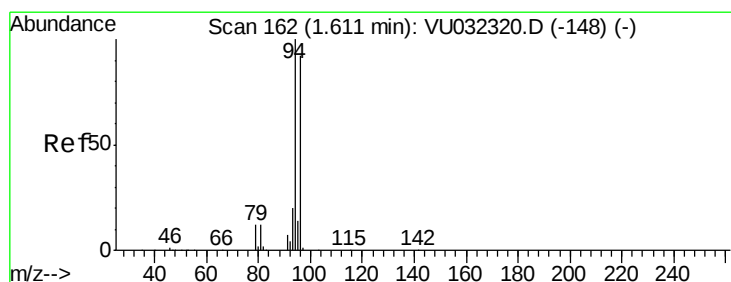
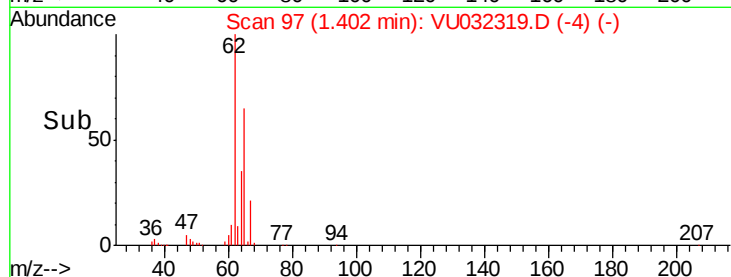
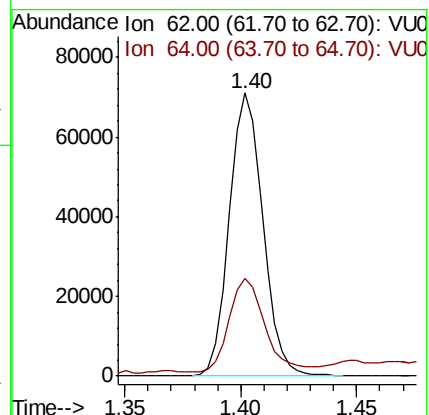
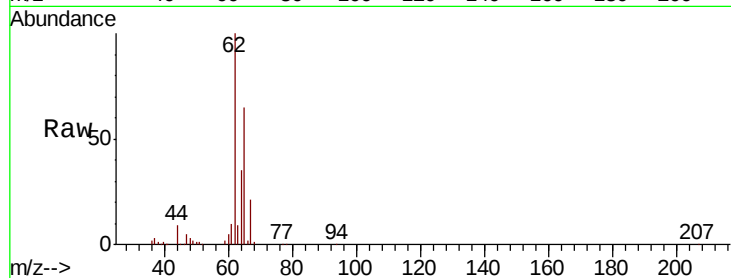
VSTD01054

Tgt Ion: 62 Resp: 71244

Ion Ratio Lower Upper

62 100

64 34.6 22.7 42.1



#6

Bromomethane

Concen: 10.190 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU032319.D

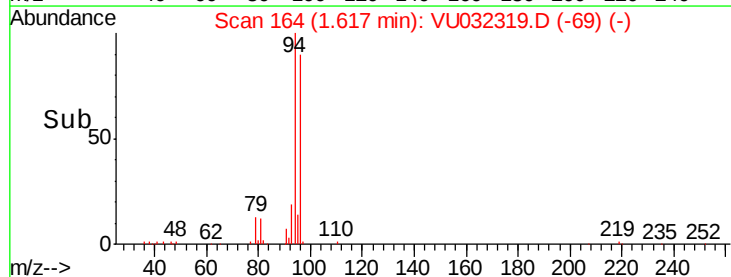
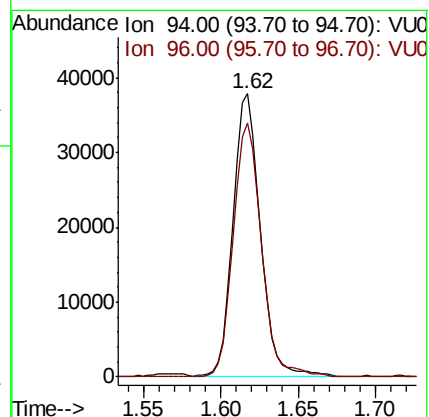
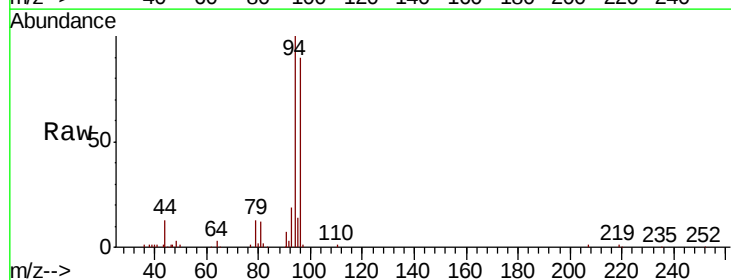
Acq: 28 May 2019 11:25

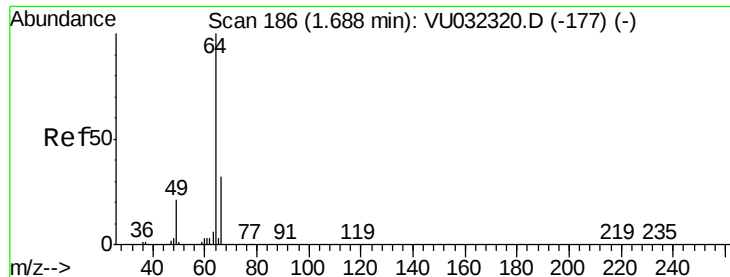
Tgt Ion: 94 Resp: 46352

Ion Ratio Lower Upper

94 100

96 89.7 64.5 119.9





#8

Chloroethane

Concen: 10.498 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

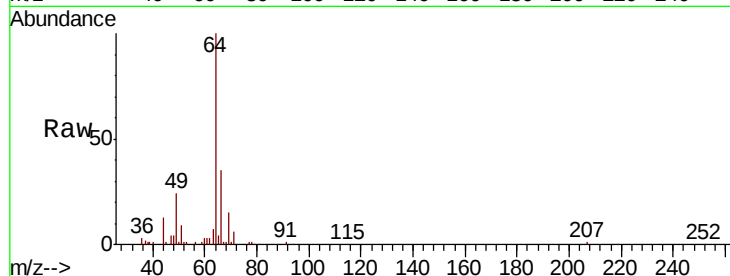
VSTD01054

Tgt Ion: 64 Resp: 41345

Ion Ratio Lower Upper

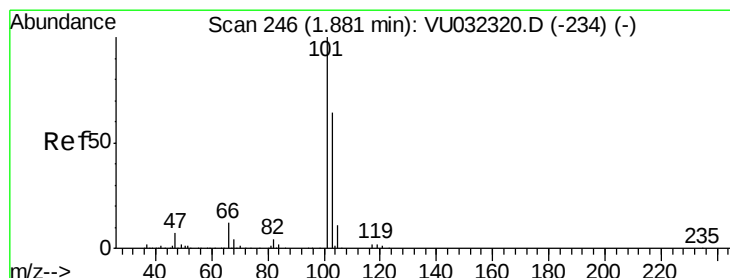
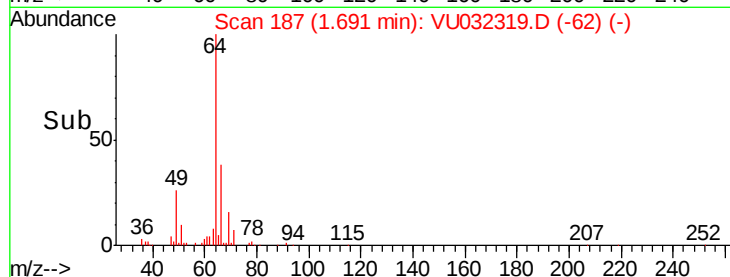
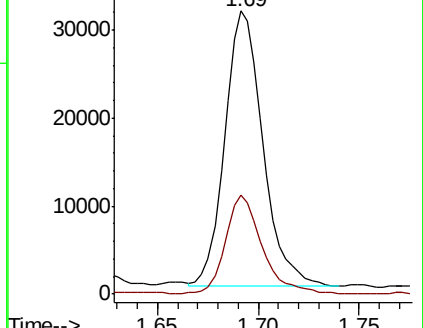
64 100

66 35.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032319.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032319.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 11.978 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032319.D

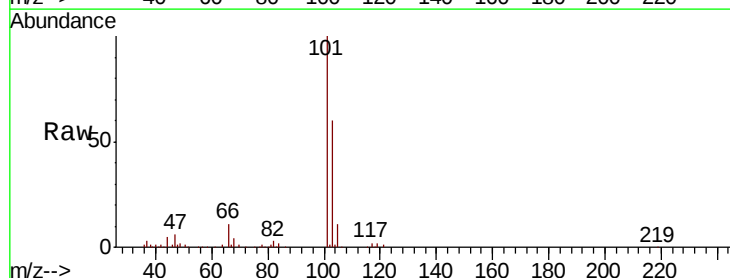
Acq: 28 May 2019 11:25

Tgt Ion: 101 Resp: 89323

Ion Ratio Lower Upper

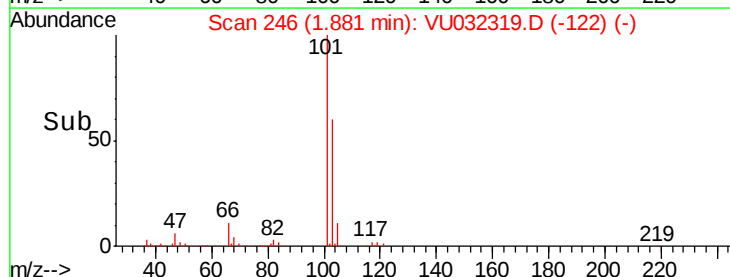
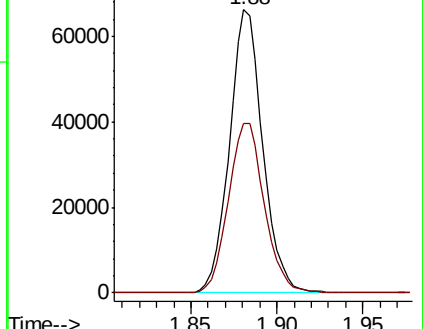
101 100

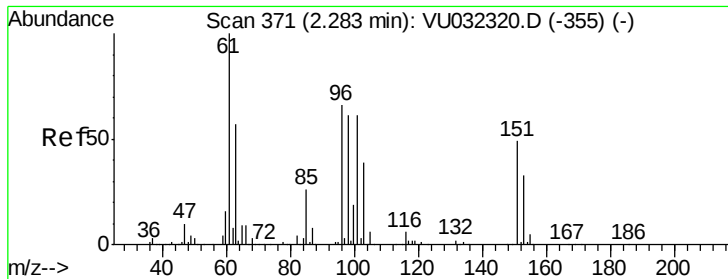
103 64.7 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032319.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032319.D (-234) (-)





#10

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

Concen: 12.471 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

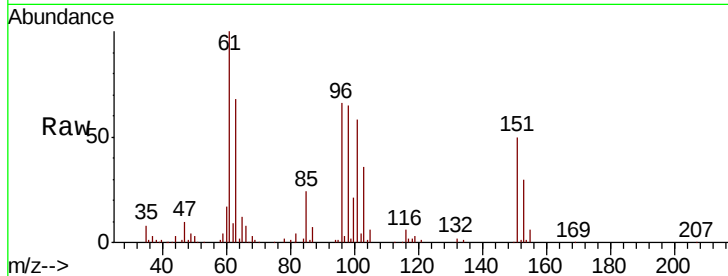
Tgt Ion:101 Resp: 54266

Ion Ratio Lower Upper

101 100

85 40.0 33.4 50.0

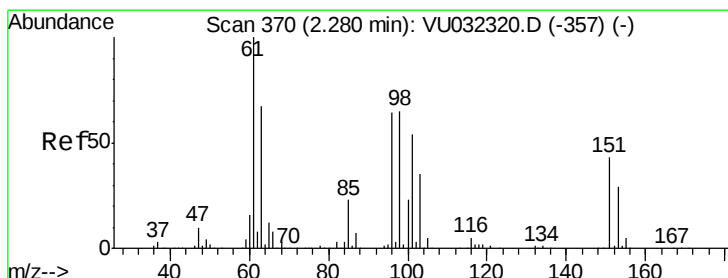
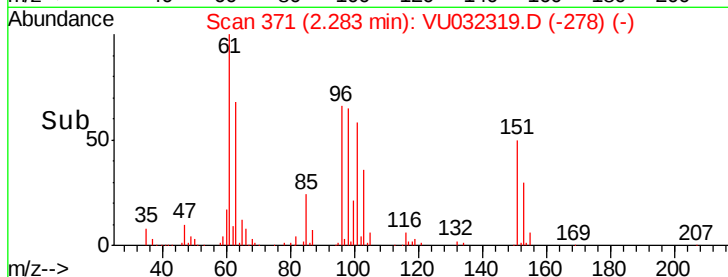
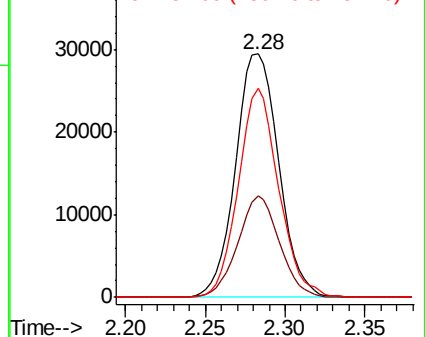
151 79.9 63.7 95.5



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: 11.168 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

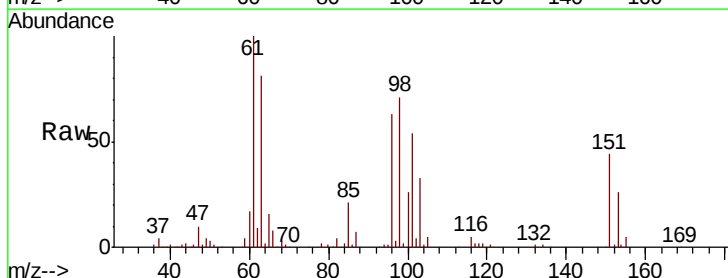
Tgt Ion: 96 Resp: 53155

Ion Ratio Lower Upper

96 100

61 158.6 109.8 203.8

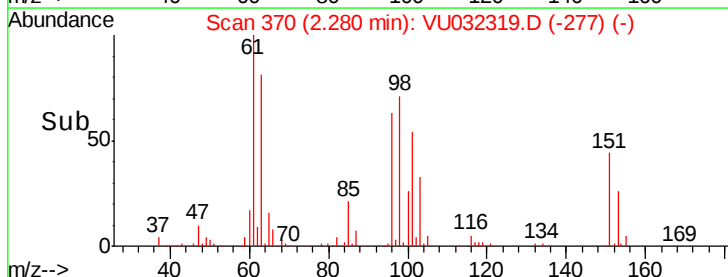
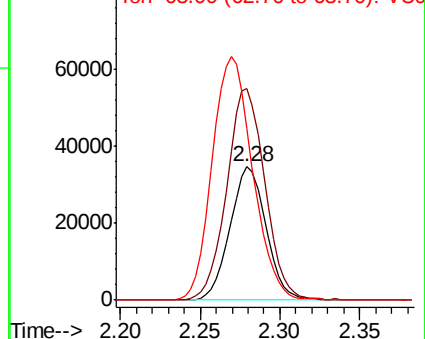
63 128.7 74.4 138.2

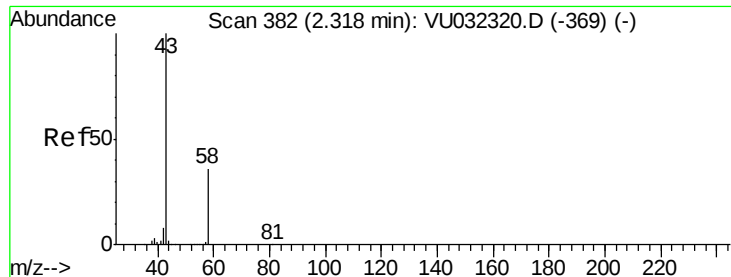


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 24.161 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

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ClientSampleId :

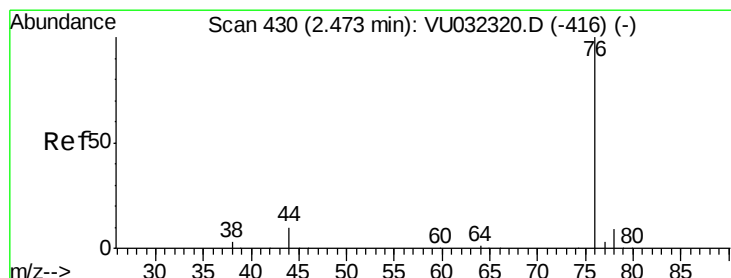
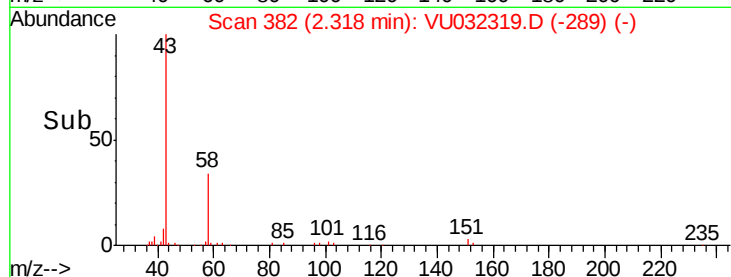
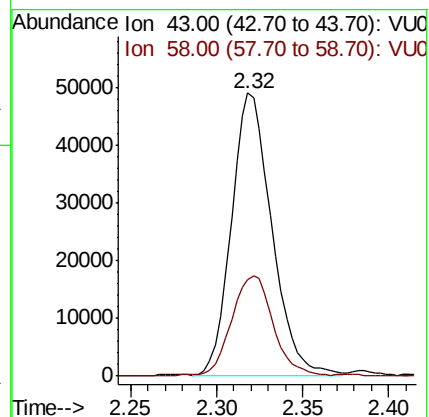
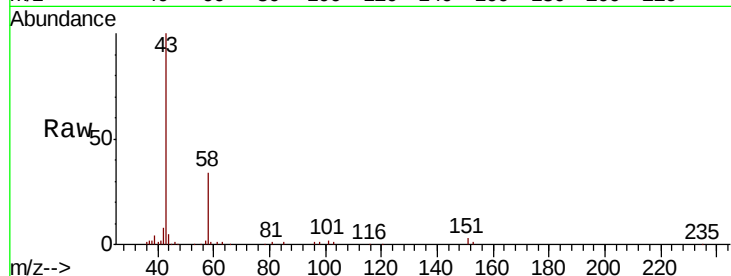
VSTD01054

Tgt Ion: 43 Resp: 80583

Ion Ratio Lower Upper

43 100

58 36.3 0.0 73.6



#14

Carbon disulfide

Concen: 11.087 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU032319.D

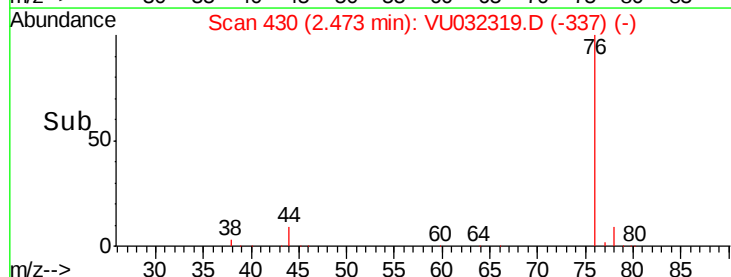
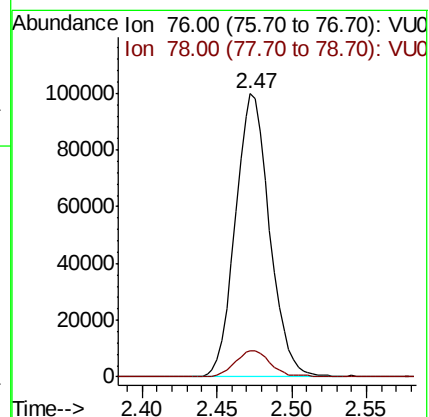
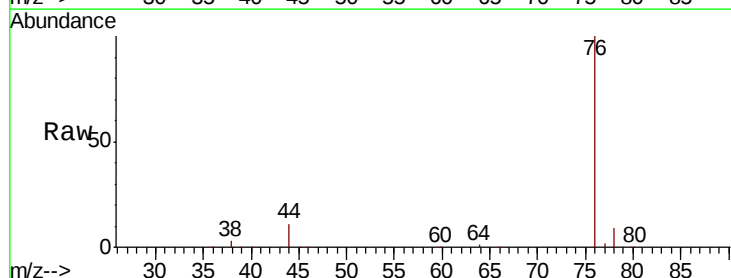
Acq: 28 May 2019 11:25

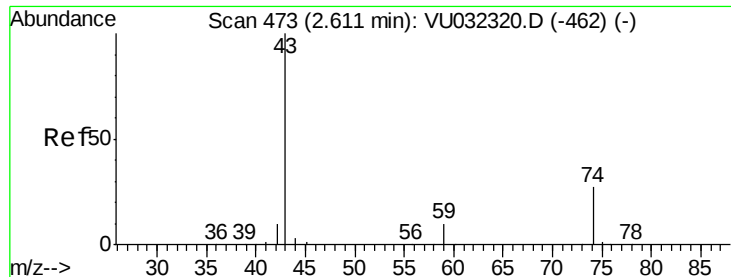
Tgt Ion: 76 Resp: 158534

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.6

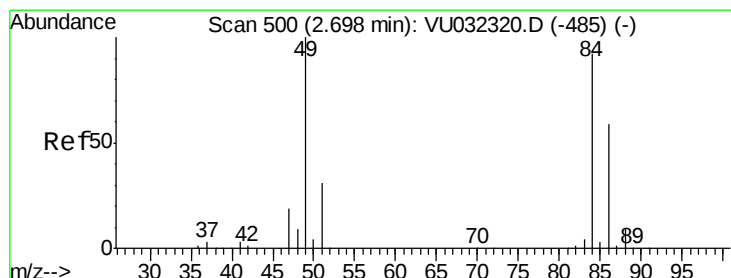
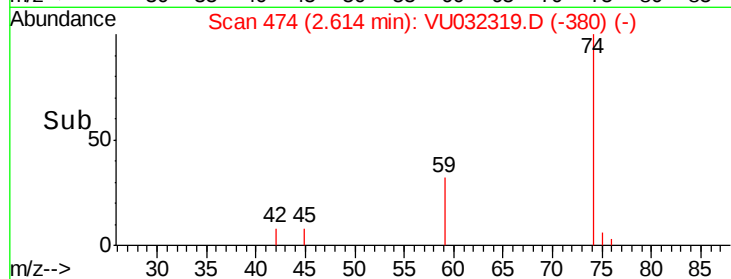
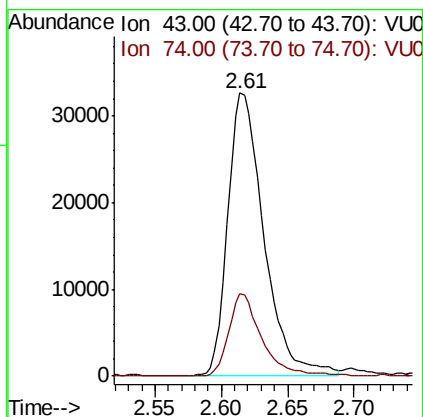
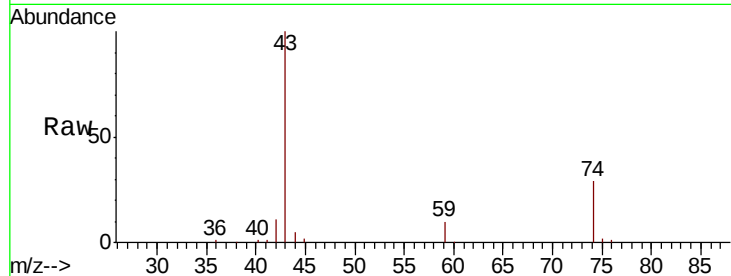




#15
Methyl Acetate
Concen: 10.022 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

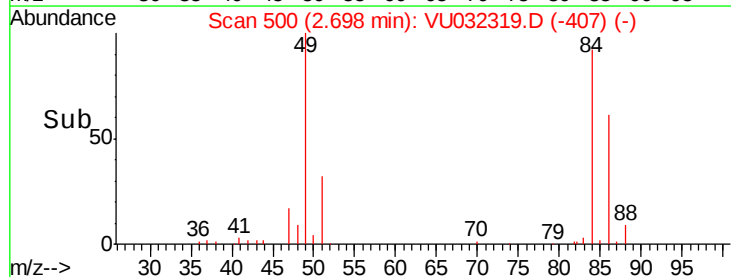
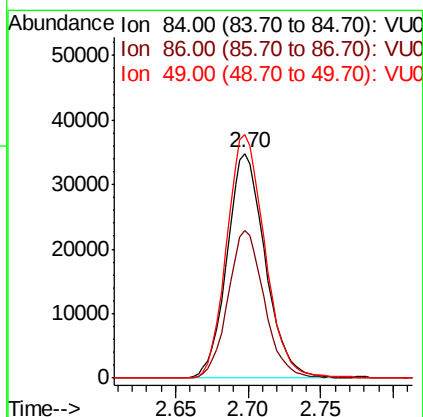
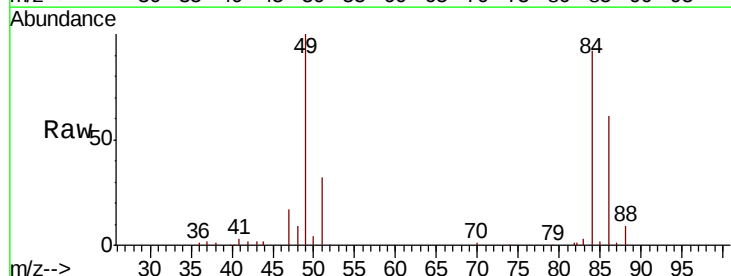
Instrument :
MSVOA_U
ClientSampleId :
VSTD01054

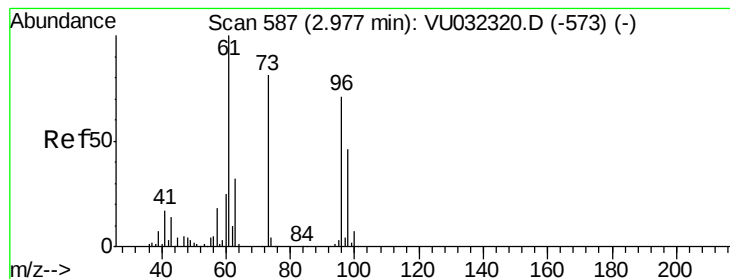
Tgt Ion: 43 Resp: 62049
Ion Ratio Lower Upper
43 100
74 26.6 21.1 31.7



#16
Methylene chloride
Concen: 9.754 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

Tgt Ion: 84 Resp: 63698
Ion Ratio Lower Upper
84 100
86 65.7 45.0 83.6
49 108.4 75.9 140.9





#17

trans-1,2-Dichloroethene

Concen: 10.284 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

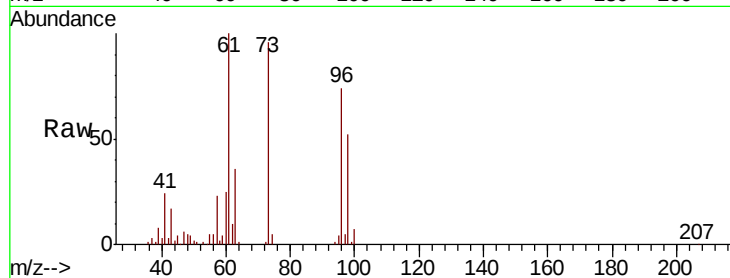
Tgt Ion: 96 Resp: 55975

Ion Ratio Lower Upper

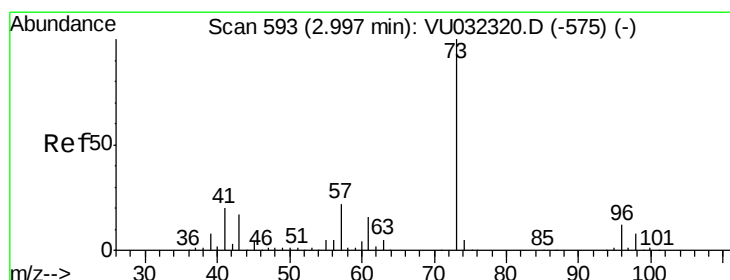
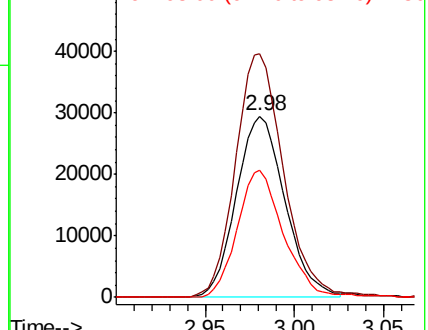
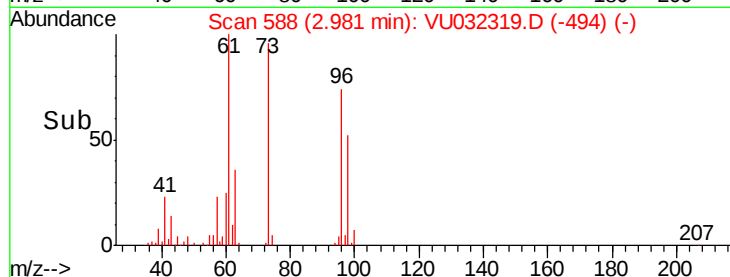
96 100

61 134.5 98.2 182.4

98 70.4 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU032319.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 8.919 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

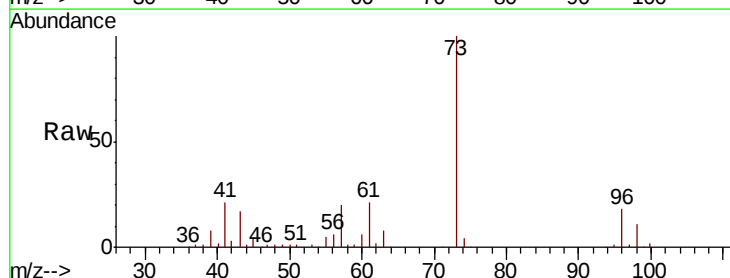
Tgt Ion: 73 Resp: 162398

Ion Ratio Lower Upper

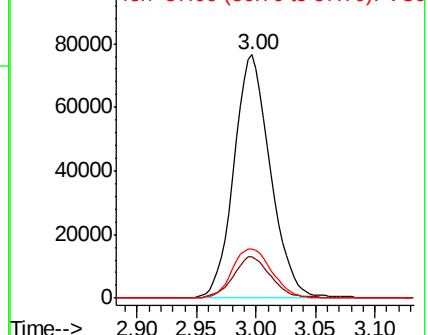
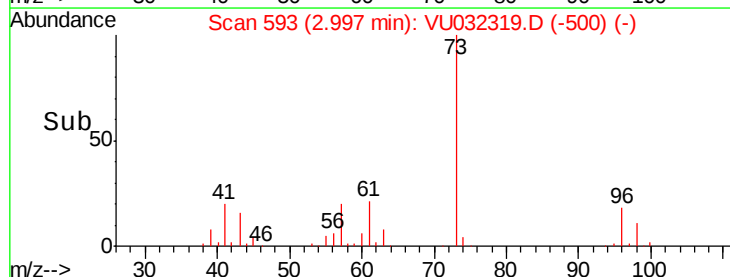
73 100

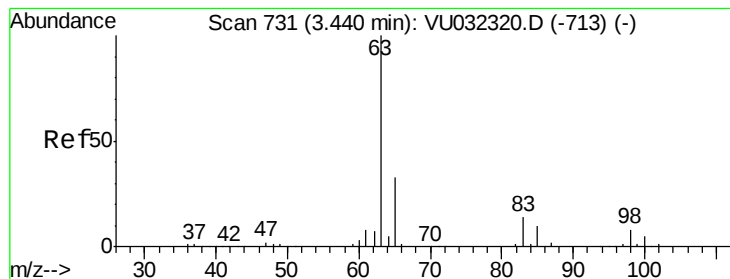
43 17.5 13.7 20.5

57 21.9 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VU032319.D (-500) (-)





#19

1,1-Dichloroethane

Concen: 10.384 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

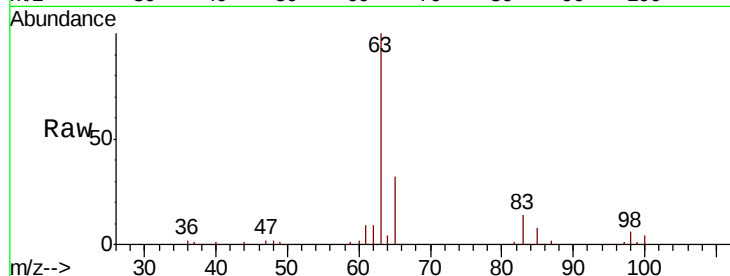
Tgt Ion: 63 Resp: 101252

Ion Ratio Lower Upper

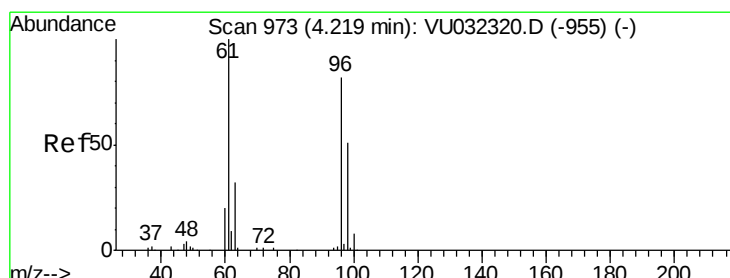
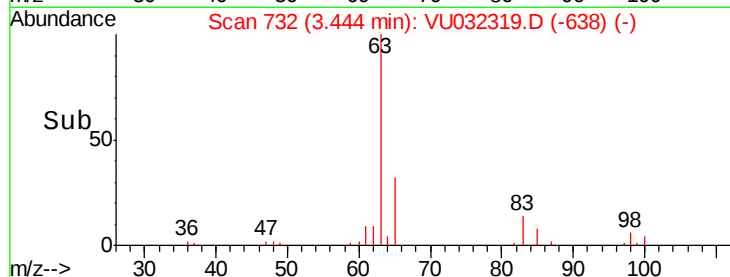
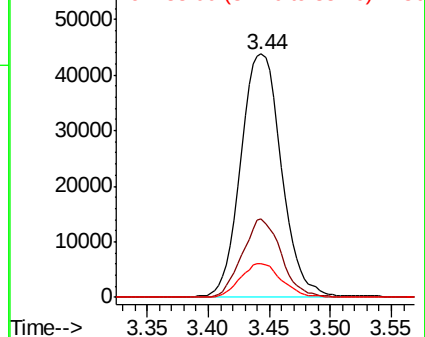
63 100

65 32.4 23.2 43.0

83 13.7 9.9 18.5



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 9.226 ug/L

RT: 4.22 min Scan# 975

Delta R.T. 0.01 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

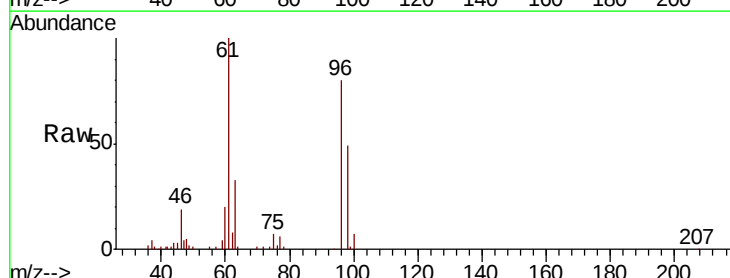
Tgt Ion: 96 Resp: 58704

Ion Ratio Lower Upper

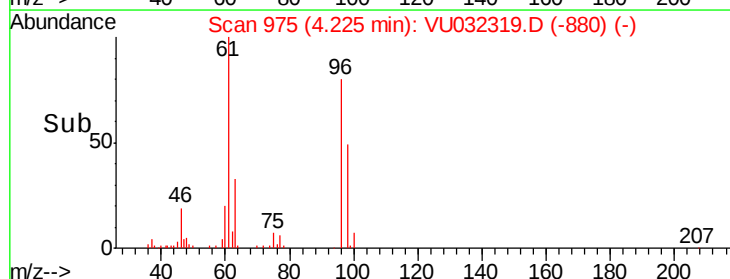
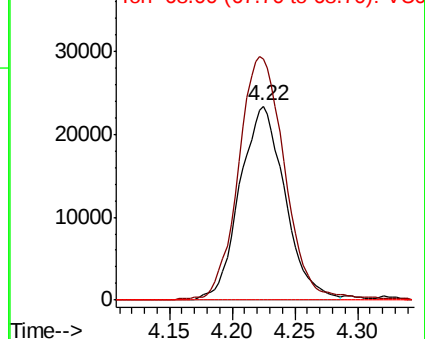
96 100

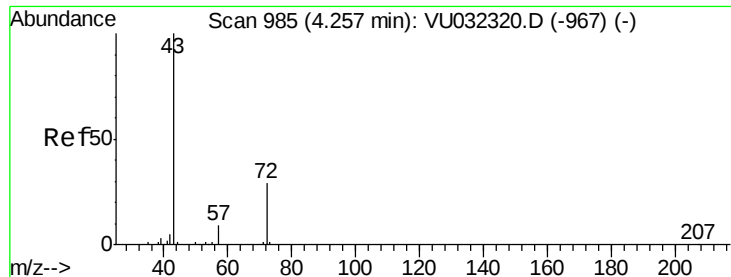
61 124.6 85.6 159.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 18.959 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

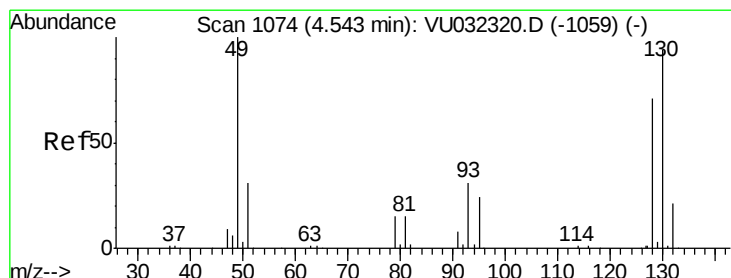
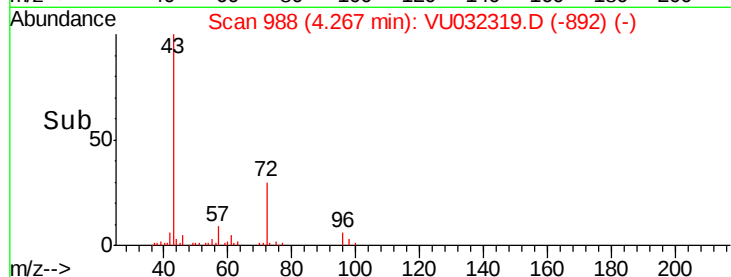
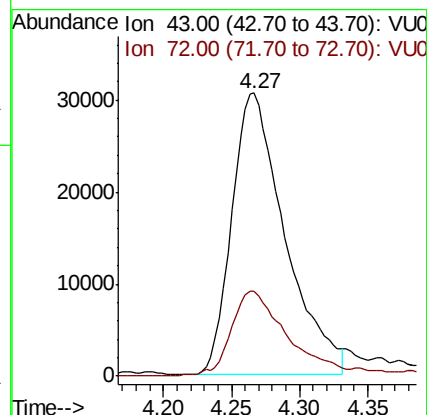
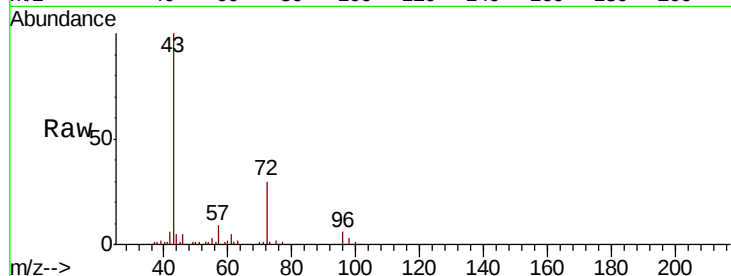
VSTD01054

Tgt Ion: 43 Resp: 83034

Ion Ratio Lower Upper

43 100

72 28.6 15.3 45.8



#23

Bromochloromethane

Concen: 9.180 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Tgt Ion: 128 Resp: 32013

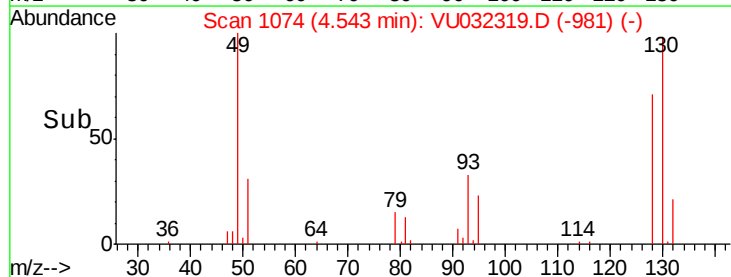
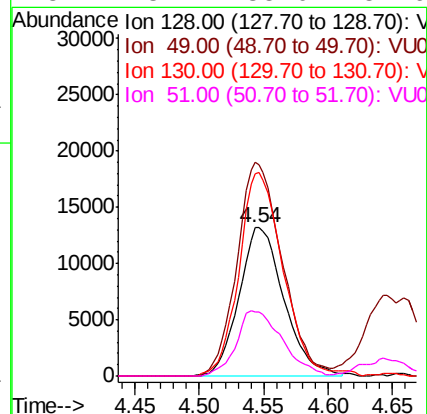
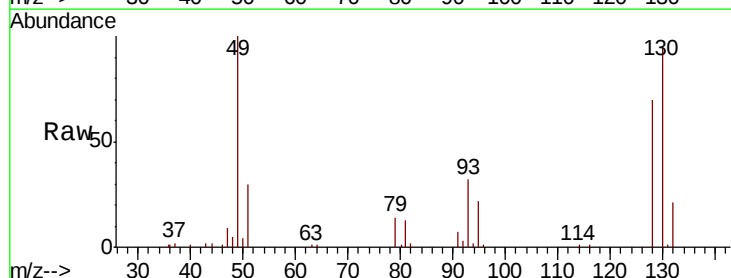
Ion Ratio Lower Upper

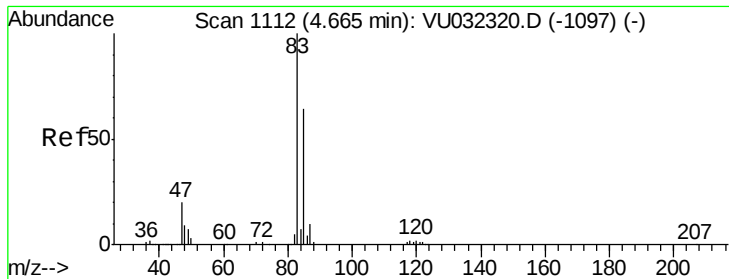
128 100

49 143.9 98.8 183.6

130 136.5 92.3 171.5

51 43.1 35.0 52.6





#25

Chloroform

Concen: 9.656 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

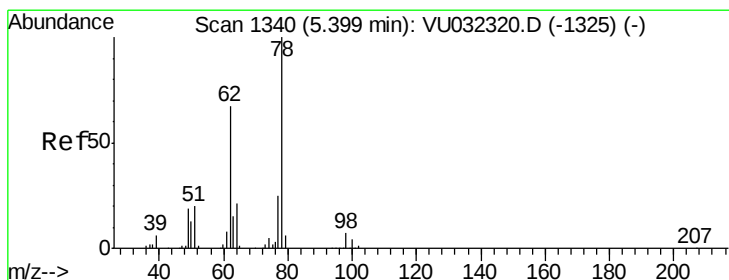
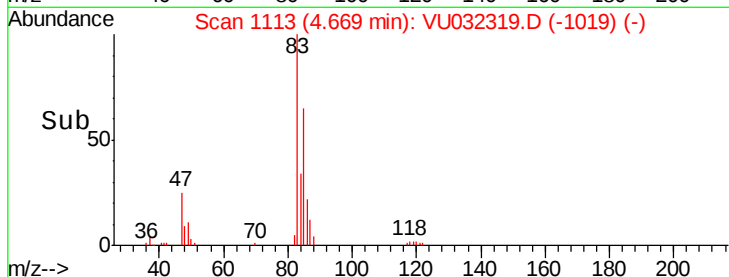
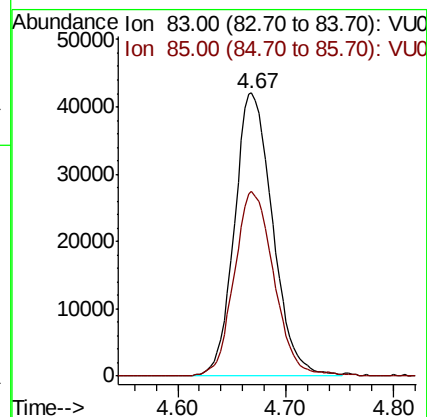
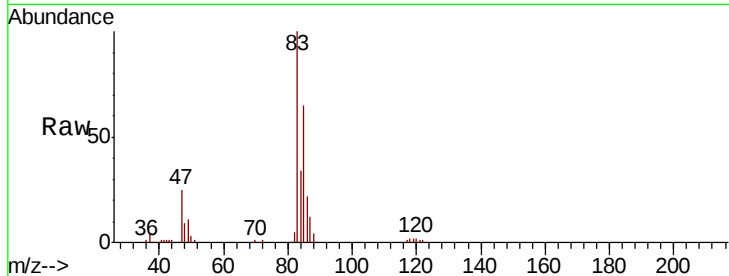
VSTD01054

Tgt Ion: 83 Resp: 103753

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.9



#27

1,2-Dichloroethane

Concen: 9.346 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU032319.D

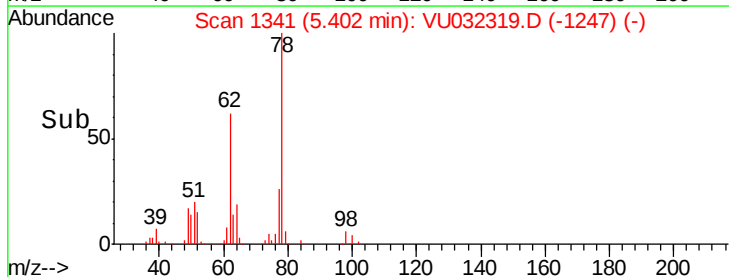
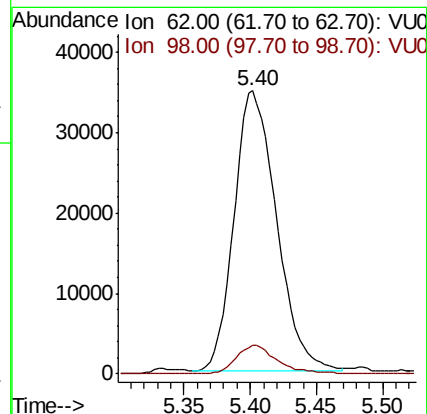
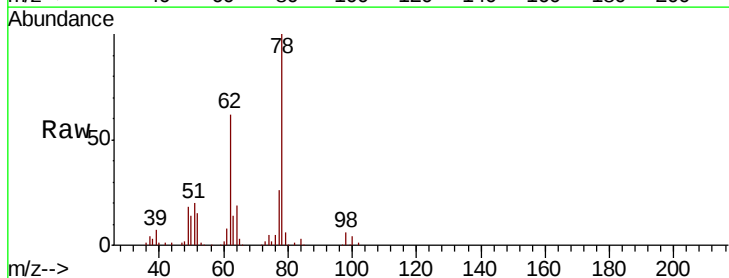
Acq: 28 May 2019 11:25

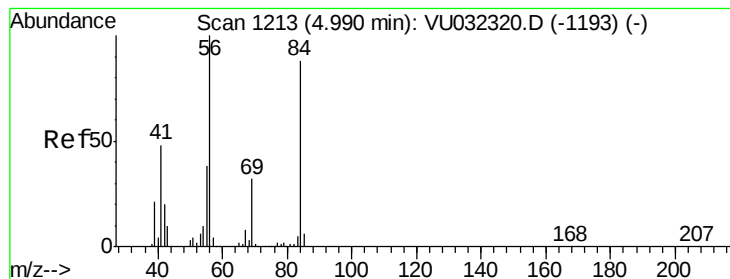
Tgt Ion: 62 Resp: 77889

Ion Ratio Lower Upper

62 100

98 10.2 8.4 12.6





#29

Cyclohexane

Concen: 12.131 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

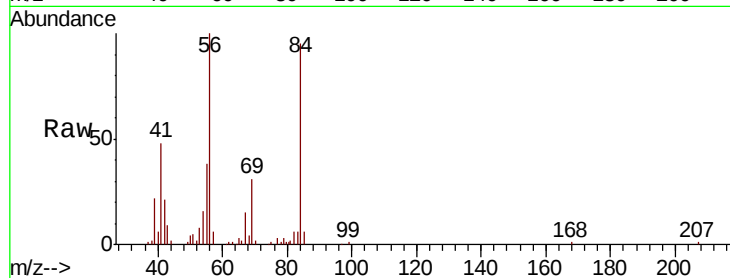
Tgt Ion: 56 Resp: 79452

Ion Ratio Lower Upper

56 100

69 31.4 25.6 38.4

84 88.3 71.4 107.2

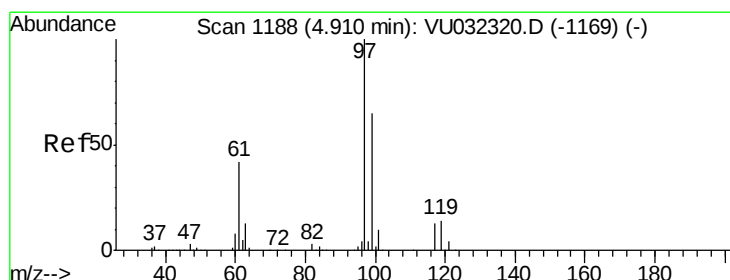
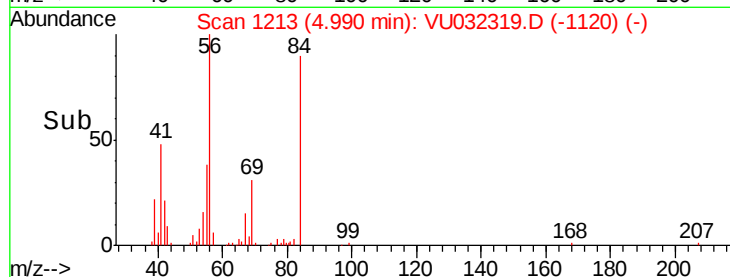
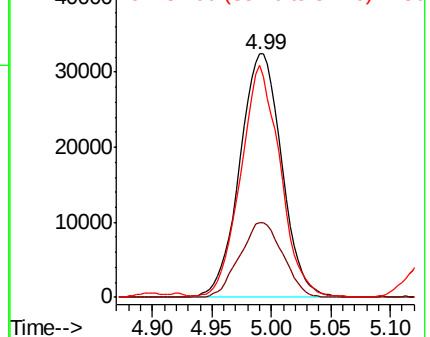


Abundance

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: 11.210 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

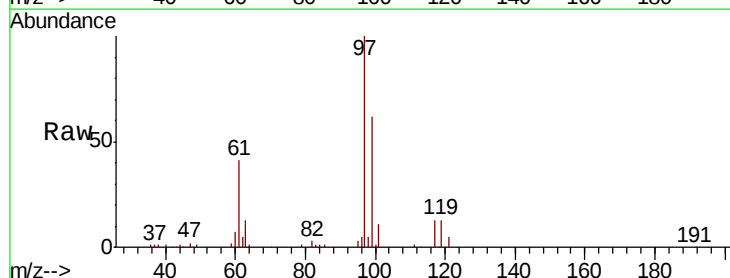
Tgt Ion: 97 Resp: 88051

Ion Ratio Lower Upper

97 100

99 61.5 51.4 77.0

61 42.0 33.7 50.5

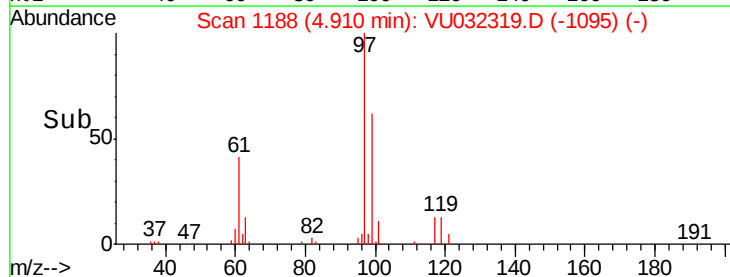
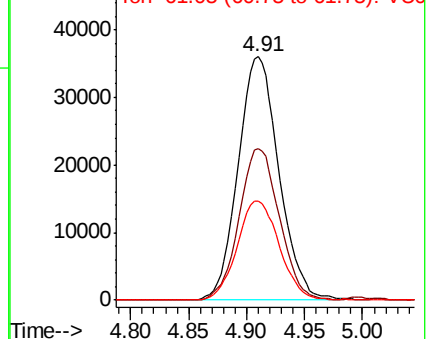


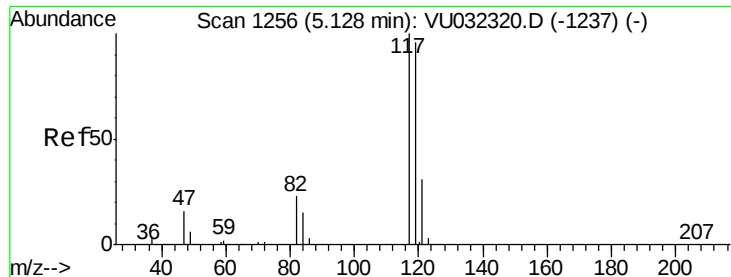
Abundance

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



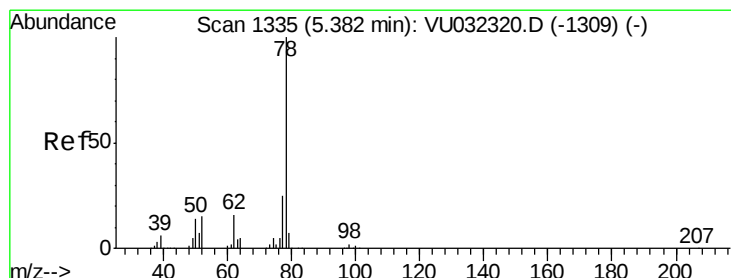
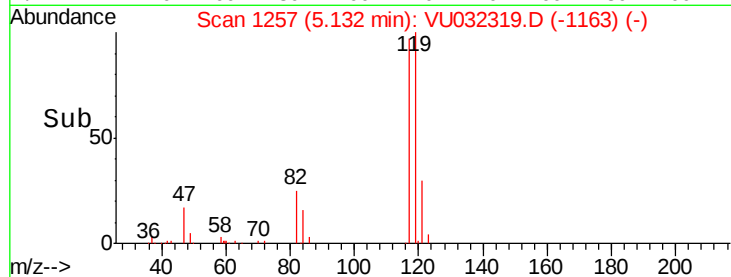
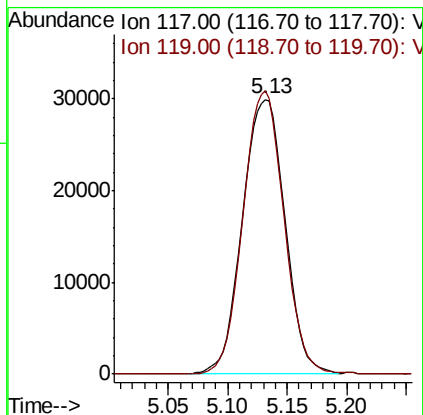
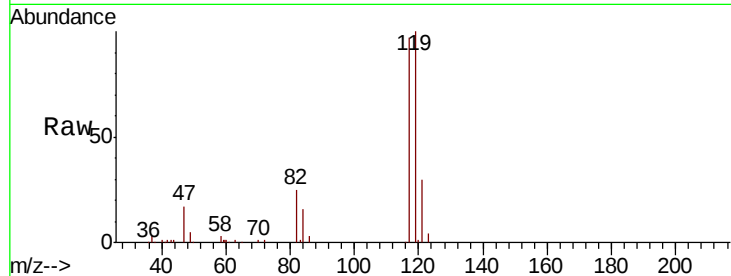


#31

Carbon tetrachloride
 Concen: 11.411 ug/L
 RT: 5.13 min Scan# 1257
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

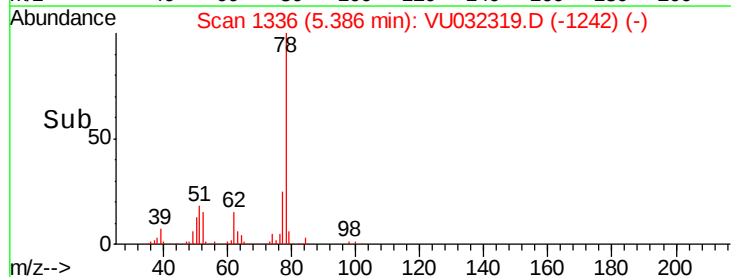
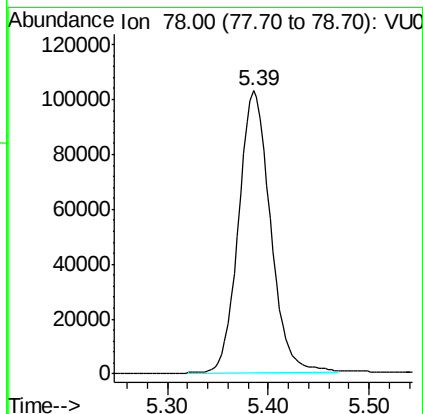
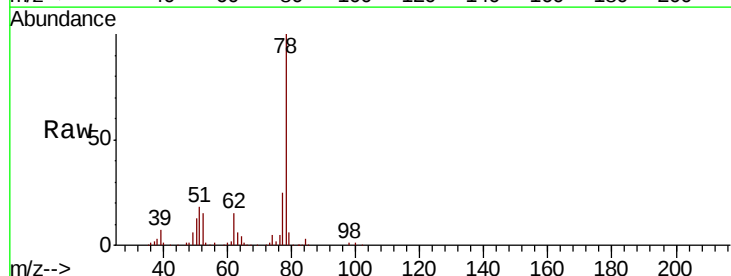
Tgt Ion:117 Resp: 74143
 Ion Ratio Lower Upper
 117 100
 119 99.2 77.4 116.0

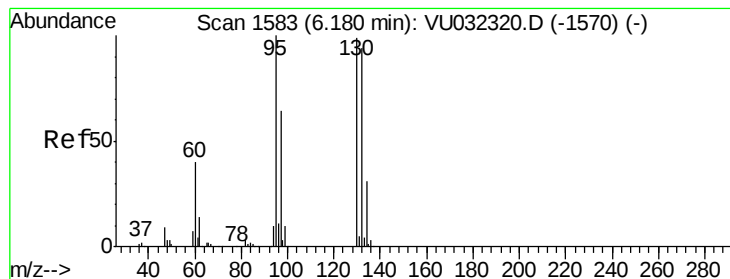


#33

Benzene
 Concen: 10.135 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion: 78 Resp: 226259





#34

Trichloroethene

Concen: 10.523 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

Tgt Ion: 95 Resp: 58802

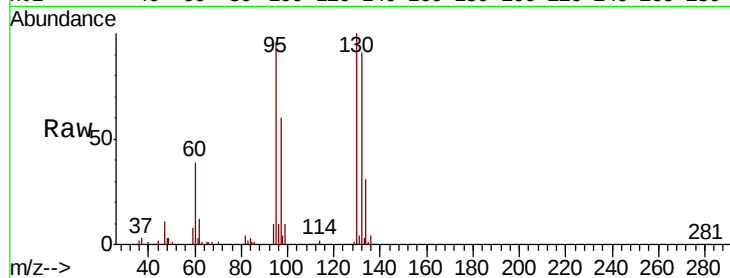
Ion Ratio Lower Upper

95 100

97 62.4 44.8 83.2

132 94.7 66.2 123.0

130 103.7 69.4 128.8

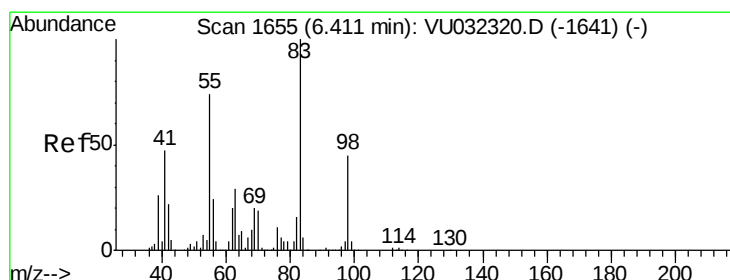
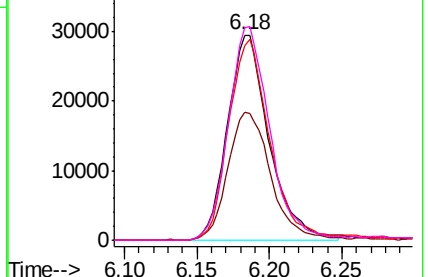
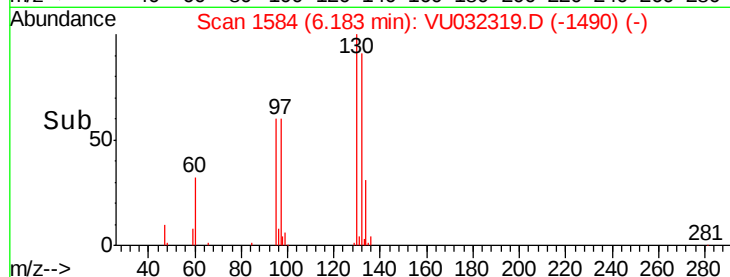


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 12.316 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

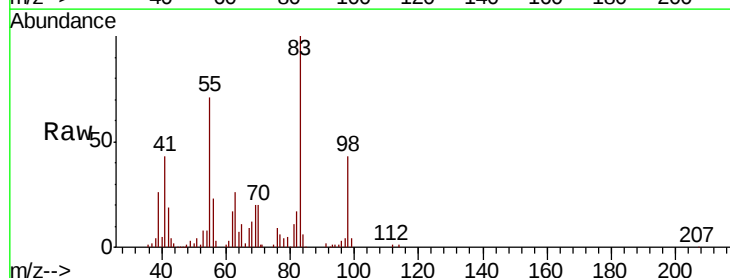
Tgt Ion: 83 Resp: 87326

Ion Ratio Lower Upper

83 100

55 74.4 59.4 89.0

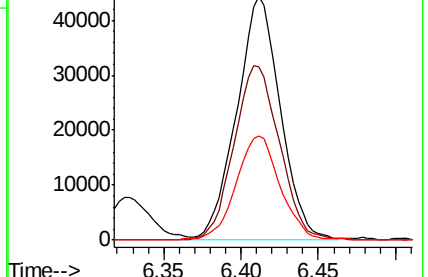
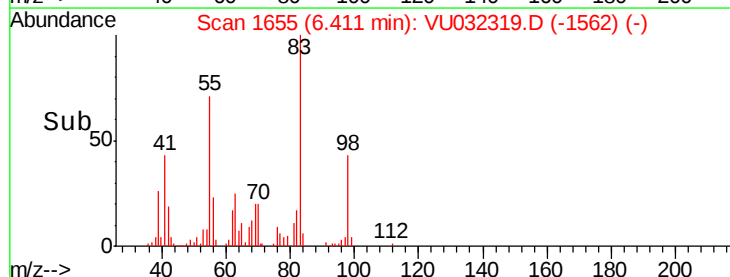
98 41.5 37.1 55.7

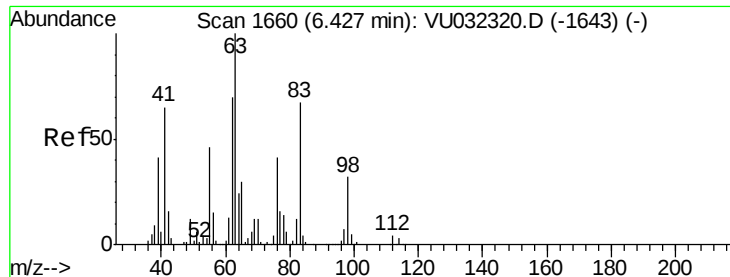


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 10.657 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

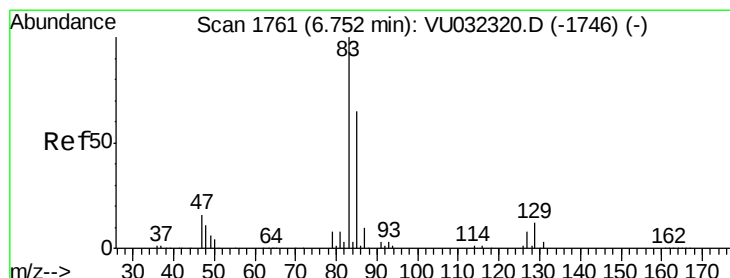
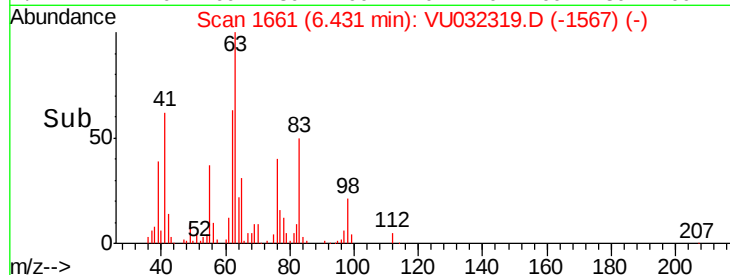
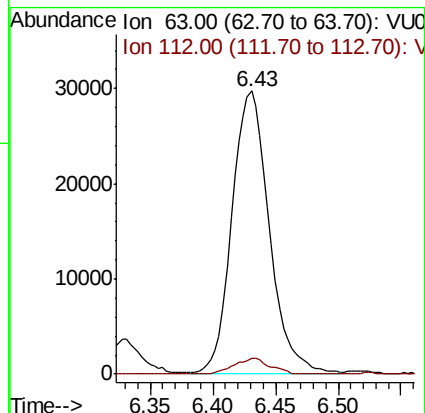
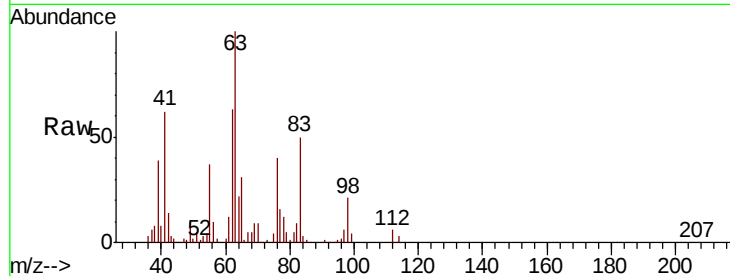
VSTD01054

Tgt Ion: 63 Resp: 61801

Ion Ratio Lower Upper

63 100

112 5.3 3.3 4.9#



#38

Bromodichloromethane

Concen: 9.824 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

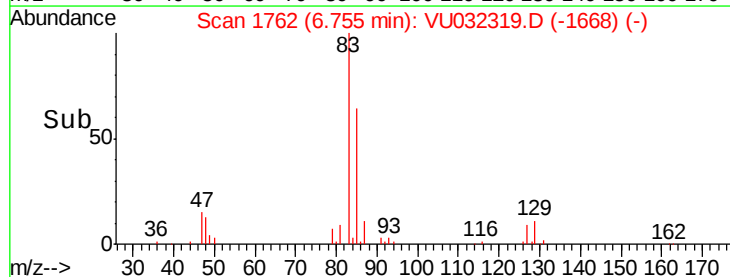
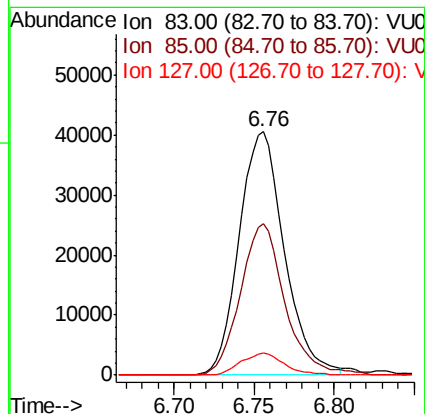
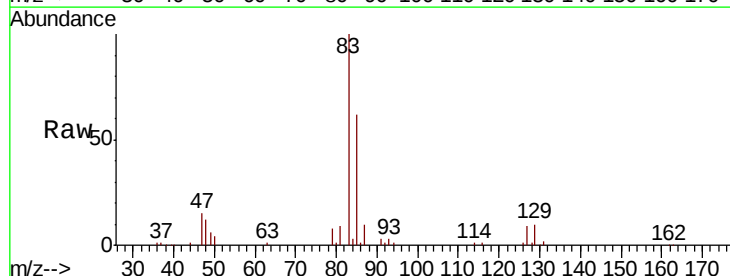
Tgt Ion: 83 Resp: 78284

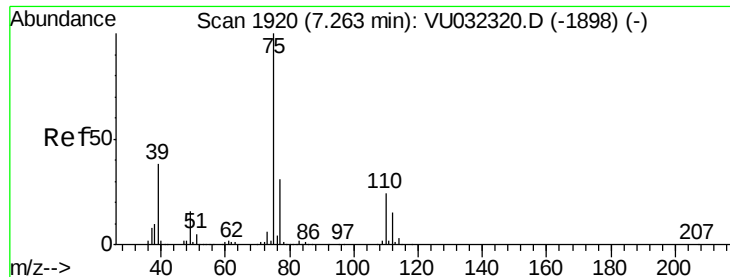
Ion Ratio Lower Upper

83 100

85 62.3 45.4 84.2

127 8.9 6.4 9.6

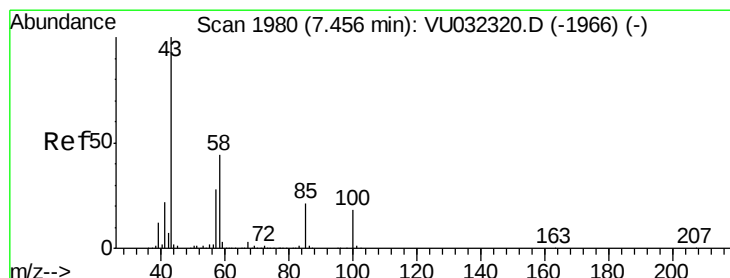
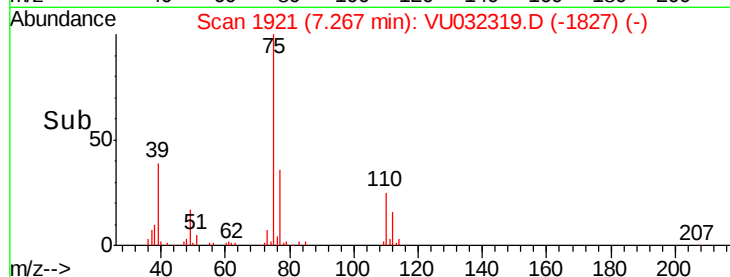
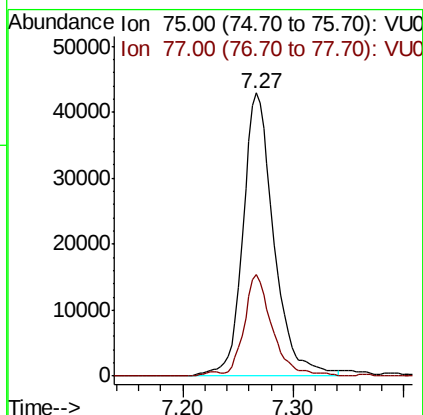
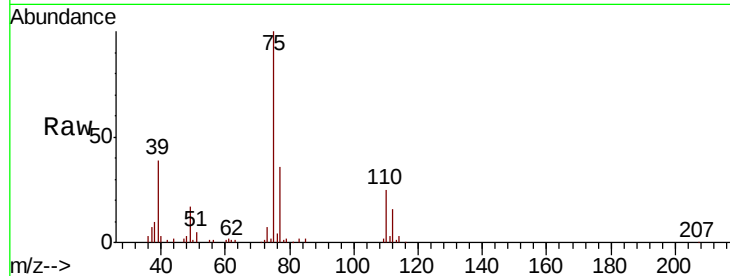




#39
 cis-1,3-Dichloropropene
 Concen: 9.775 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

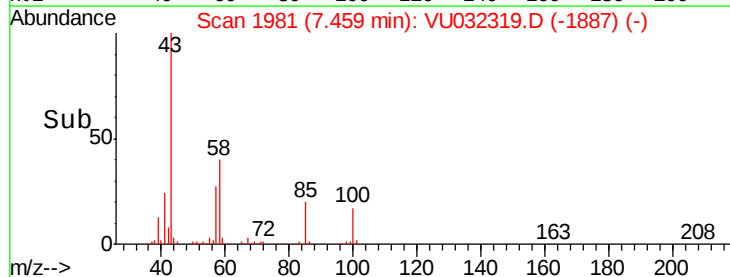
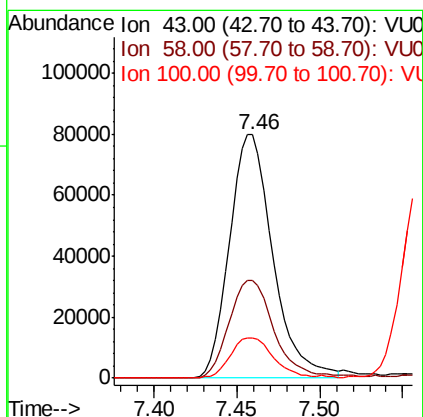
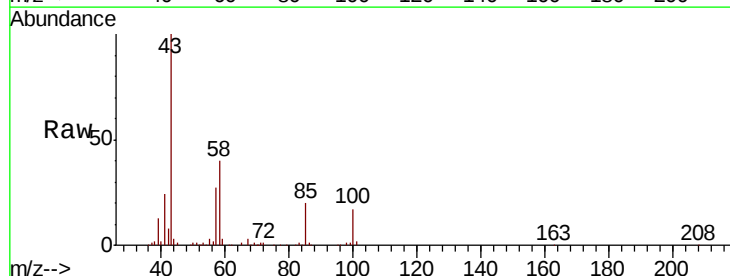
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

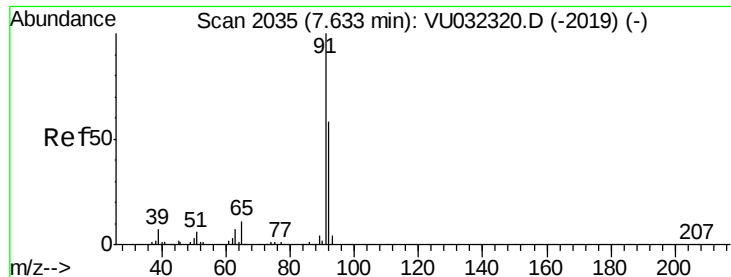
Tgt Ion: 75 Resp: 83393
 Ion Ratio Lower Upper
 75 100
 77 35.7 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 18.292 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion: 43 Resp: 145509
 Ion Ratio Lower Upper
 43 100
 58 41.9 34.6 52.0
 100 16.4 14.1 21.1





#42

Toluene

Concen: 10.316 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

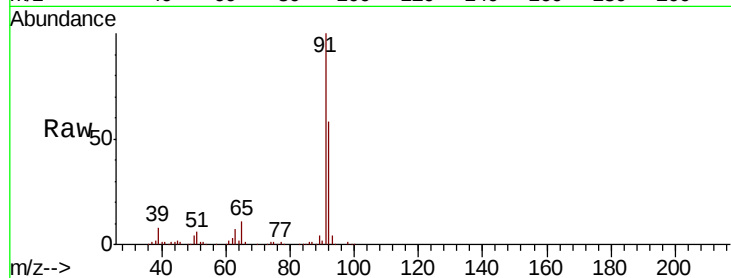
VSTD01054

Tgt Ion: 91 Resp: 243747

Ion Ratio Lower Upper

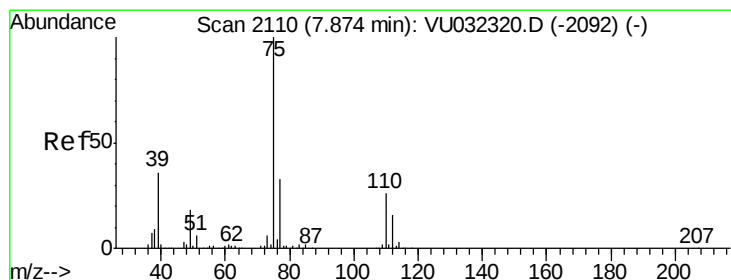
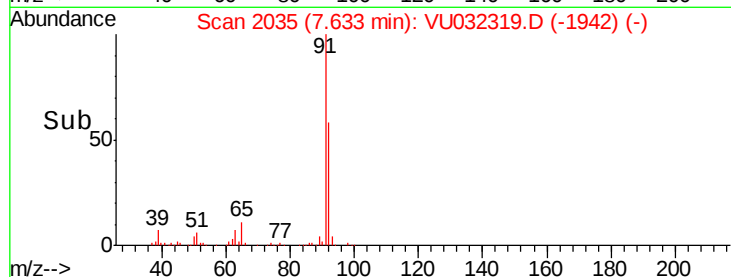
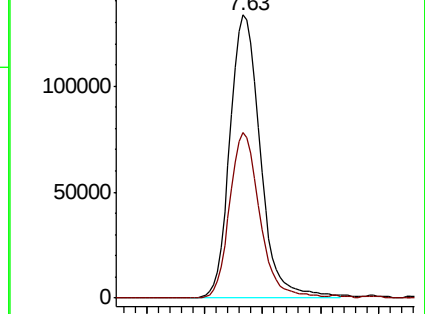
91 100

92 58.4 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VU032319.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU032319.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 9.797 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU032319.D

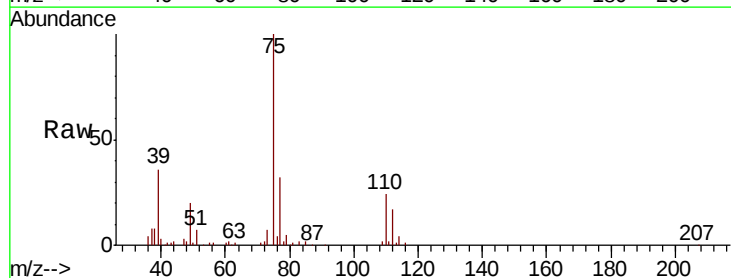
Acq: 28 May 2019 11:25

Tgt Ion: 75 Resp: 73615

Ion Ratio Lower Upper

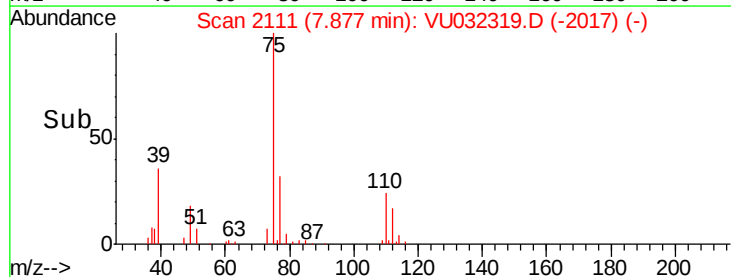
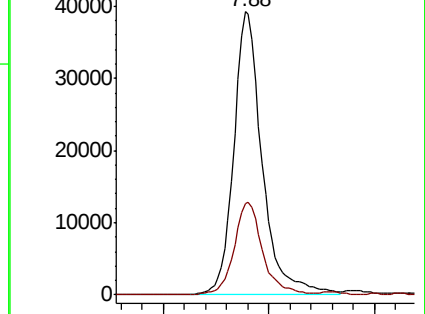
75 100

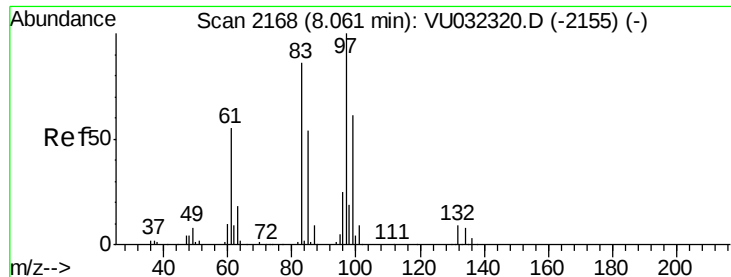
77 32.3 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VU032319.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU032319.D (-2017) (-)

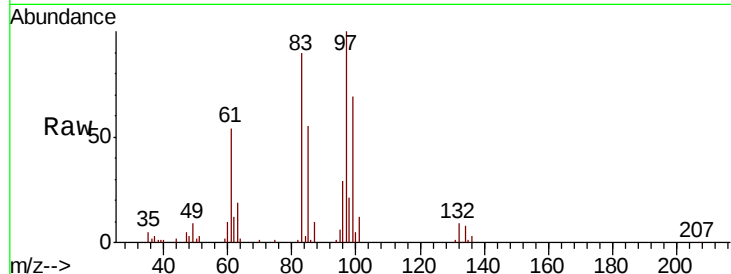




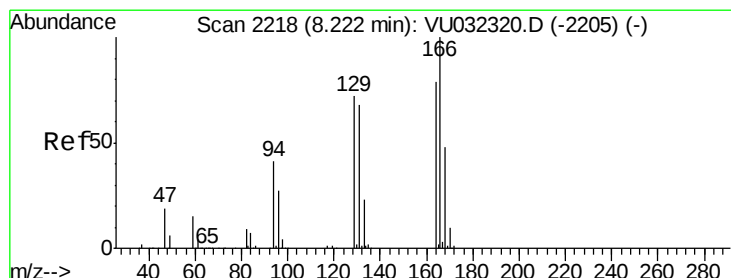
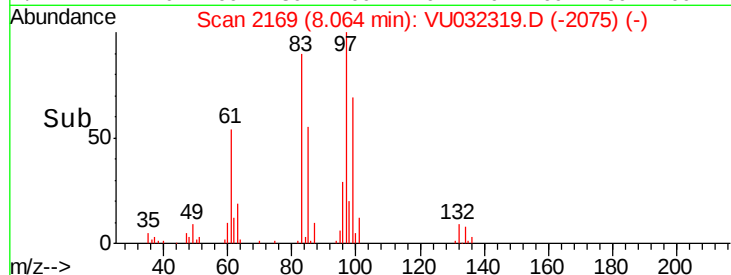
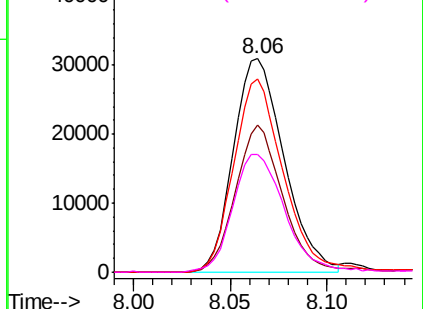
#45
 1,1,2-Trichloroethane
 Concen: 8.974 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

Tgt Ion:	97	Resp:	56404
Ion	Ratio	Lower	Upper
97	100		
99	68.6	42.6	79.0
83	90.2	60.3	112.1
85	54.9	38.1	70.9

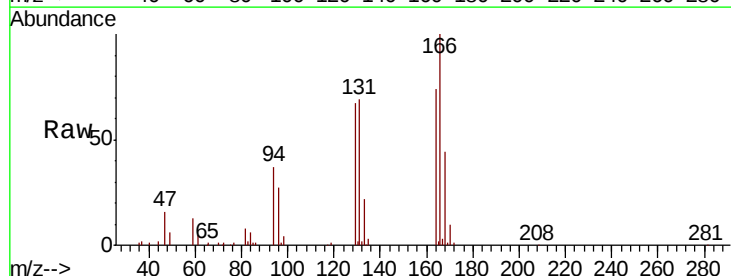


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

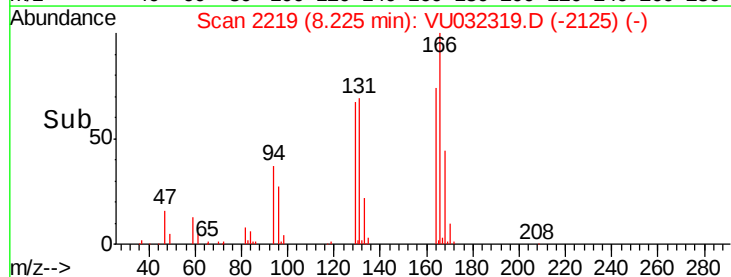
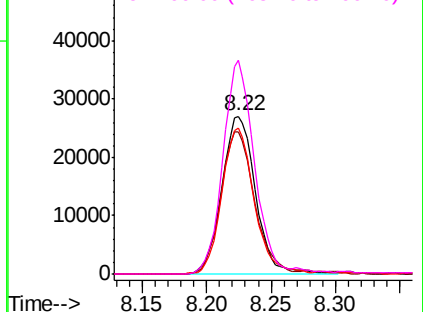


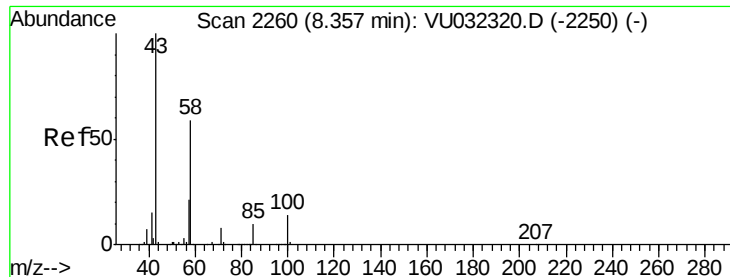
#46
 Tetrachloroethene
 Concen: 11.485 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion:	164	Resp:	48967
Ion	Ratio	Lower	Upper
164	100		
129	90.1	63.9	118.7
131	92.7	60.4	112.2
166	135.2	88.3	164.1



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

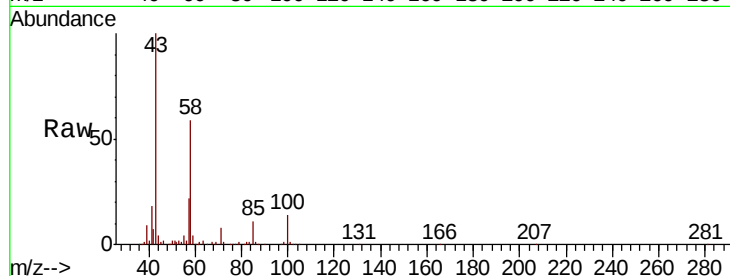




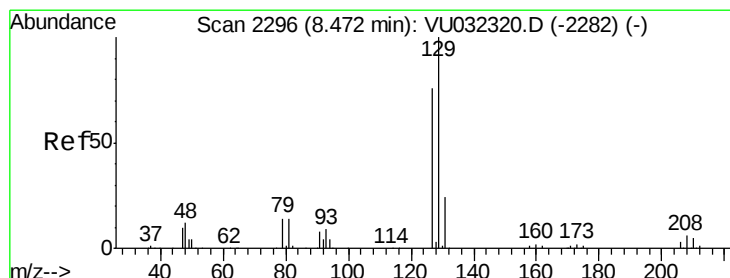
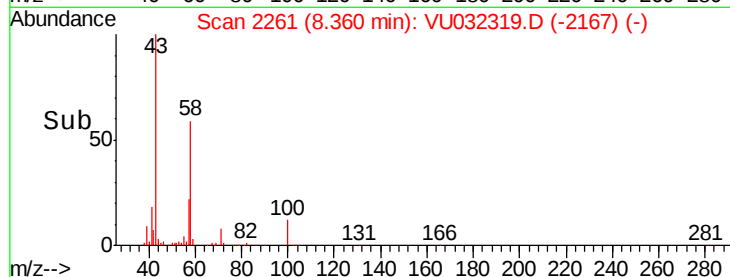
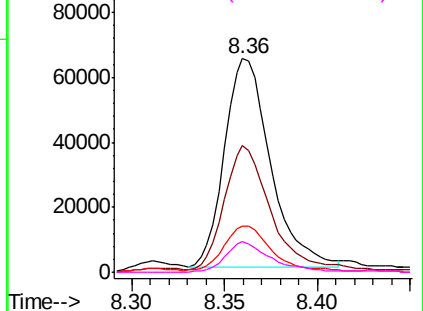
#48
2-Hexanone
Concen: 17.766 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

Instrument :
MSVOA_U
ClientSampleId :
VSTD01054

Tgt Ion:	43	Resp:	111011
Ion	Ratio	Lower	Upper
43	100		
58	62.7	48.6	73.0
57	23.1	17.0	25.4
100	14.5	11.0	16.4

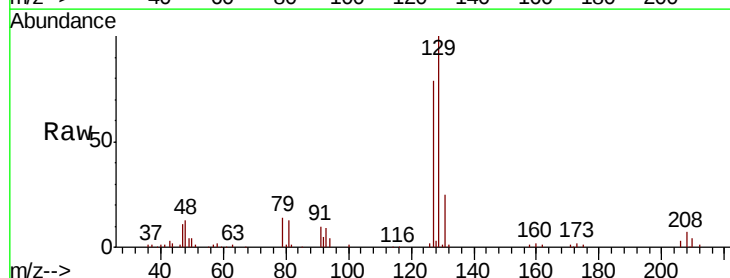


Abundance Ion 43.00 (42.70 to 43.70): VU032319.D (-2260) (-)
Ion 58.00 (57.70 to 58.70): VU032319.D (-2260) (-)
Ion 57.00 (56.70 to 57.70): VU032319.D (-2260) (-)
Ion 100.00 (99.70 to 100.70): VU032319.D (-2260) (-)

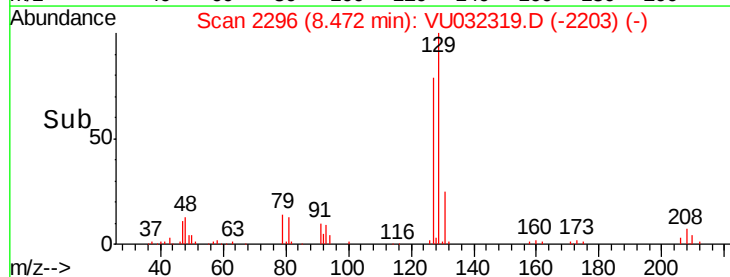
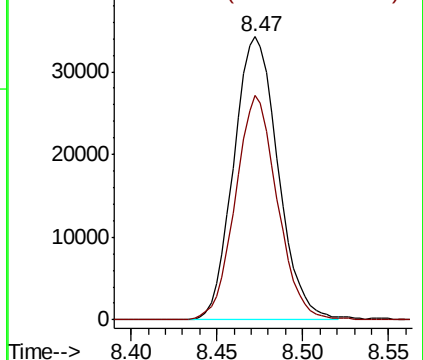


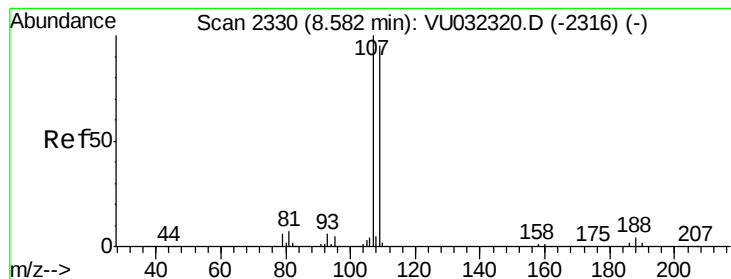
#49
Dibromochloromethane
Concen: 9.175 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

Tgt Ion:	129	Resp:	61318
Ion	Ratio	Lower	Upper
129	100		
127	79.3	53.3	99.1



Abundance Ion 129.00 (128.70 to 129.70): VU032319.D (-2296) (-)
Ion 127.00 (126.70 to 127.70): VU032319.D (-2296) (-)





#50

1,2-Dibromoethane

Concen: 8.868 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

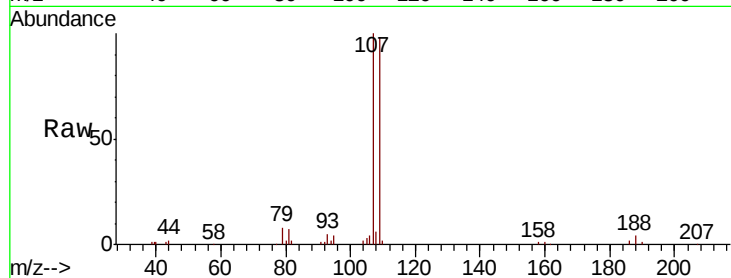
Tgt Ion:107 Resp: 59836

Ion Ratio Lower Upper

107 100

109 97.5 66.7 123.9

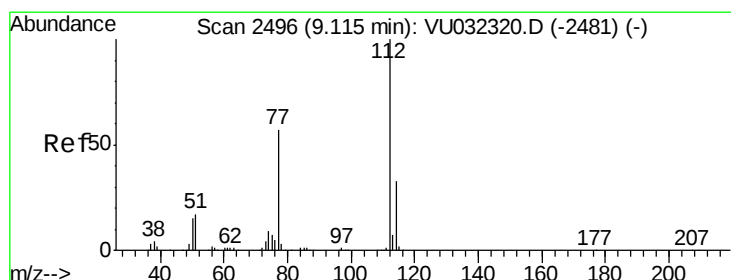
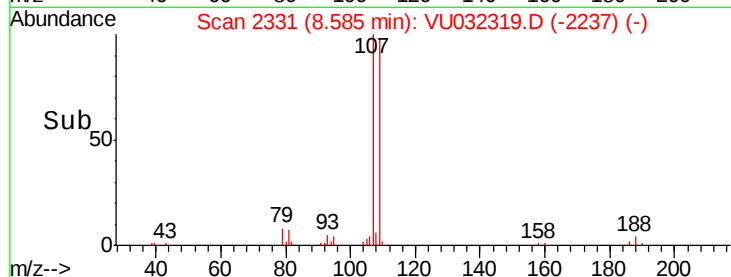
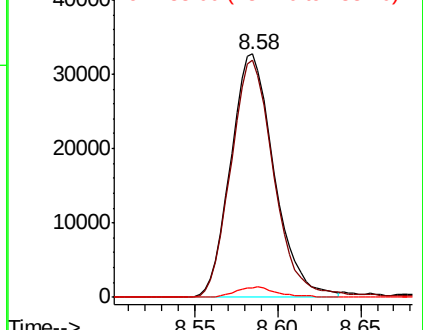
188 4.1 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 10.150 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

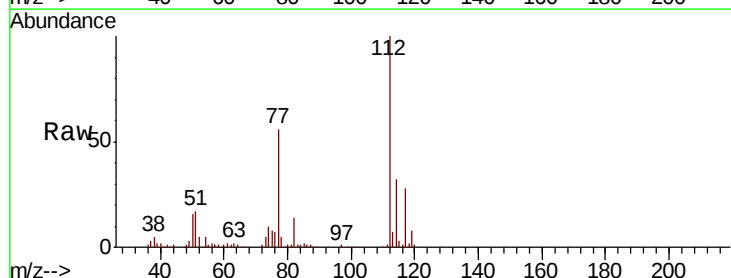
Tgt Ion:112 Resp: 160208

Ion Ratio Lower Upper

112 100

114 31.9 22.9 42.5

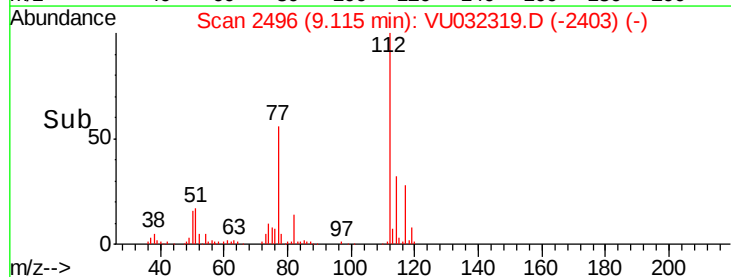
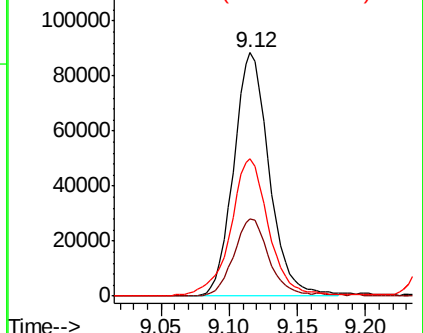
77 56.4 45.8 68.8

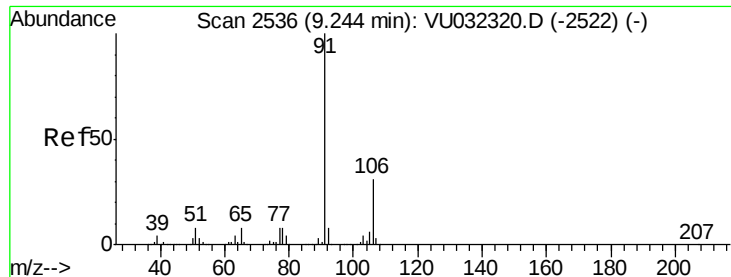


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 10.246 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

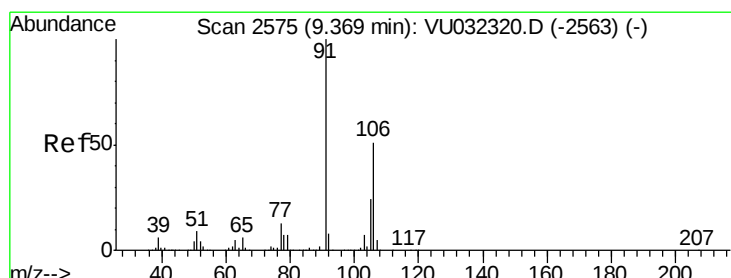
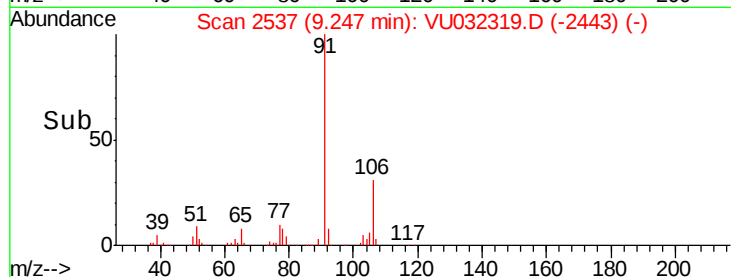
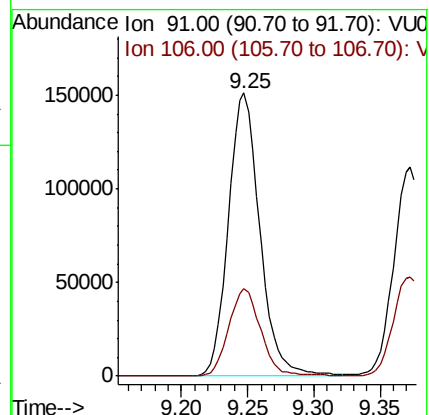
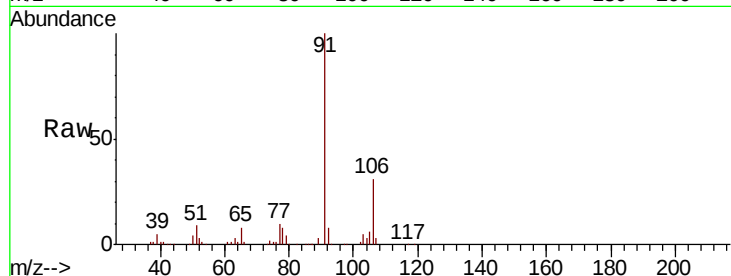
VSTD01054

Tgt Ion: 91 Resp: 249847

Ion Ratio Lower Upper

91 100

106 30.9 22.0 40.8



#53

m,p-Xylene

Concen: 10.255 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032319.D

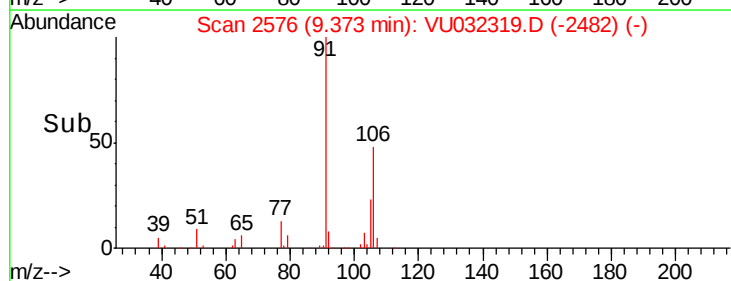
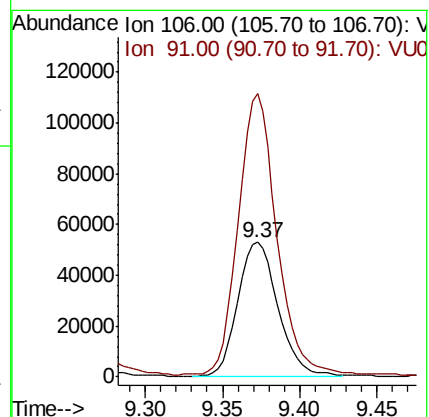
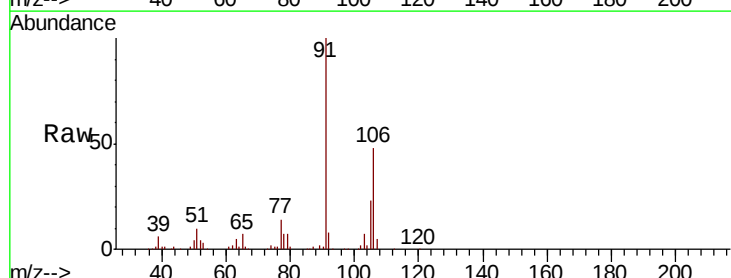
Acq: 28 May 2019 11:25

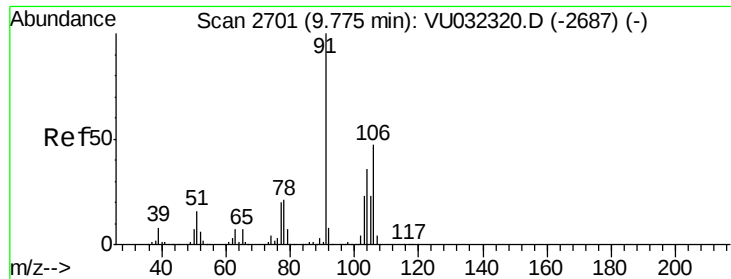
Tgt Ion: 106 Resp: 96544

Ion Ratio Lower Upper

106 100

91 210.5 138.8 257.8

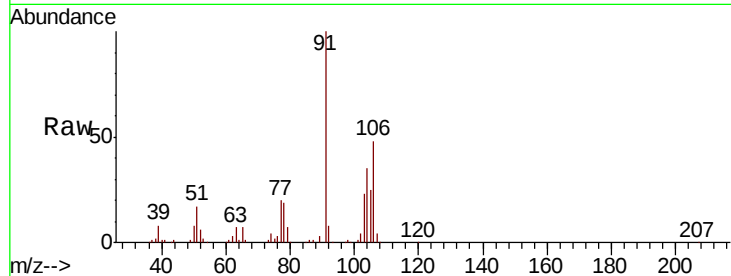




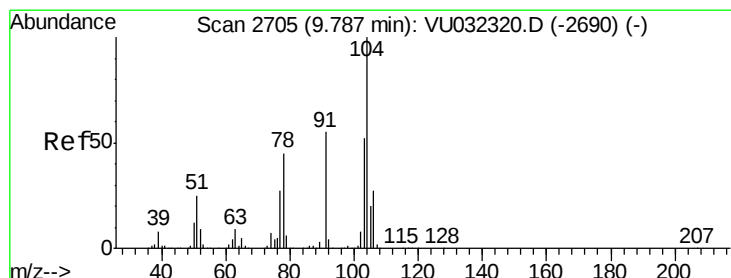
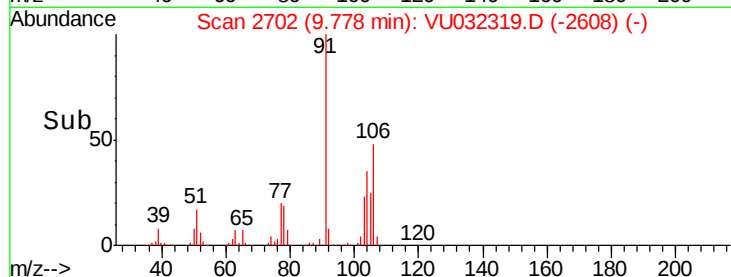
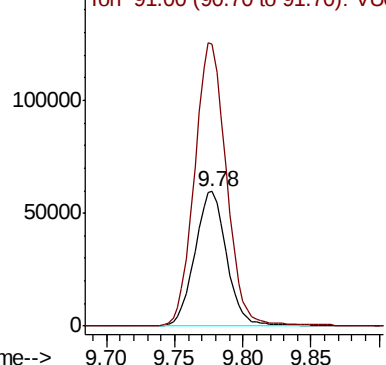
#54
o-xylene
Concen: 9.954 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

Instrument :
MSVOA_U
ClientSampleId :
VSTD01054

Tgt Ion:106 Resp: 96738
Ion Ratio Lower Upper
106 100
91 209.6 147.5 273.9

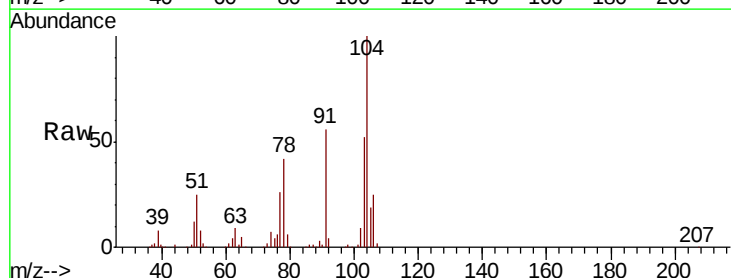


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

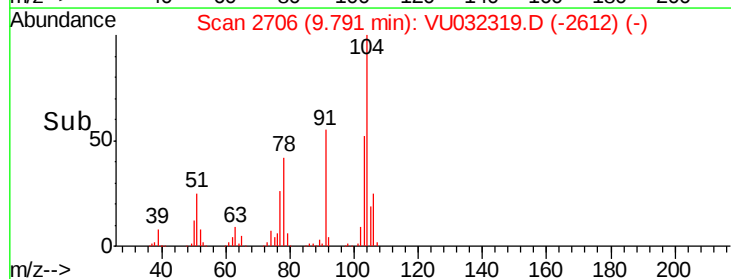
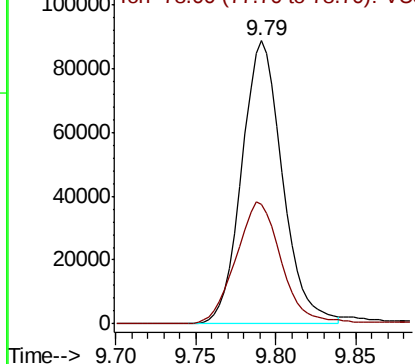


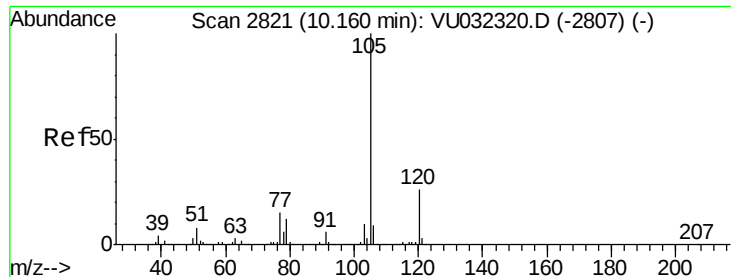
#55
Styrene
Concen: 9.341 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU032319.D
Acq: 28 May 2019 11:25

Tgt Ion:104 Resp: 154657
Ion Ratio Lower Upper
104 100
78 42.3 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 10.312 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

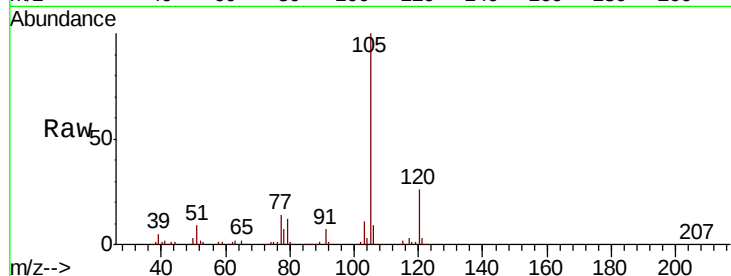
Tgt Ion: 105 Resp: 238246

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

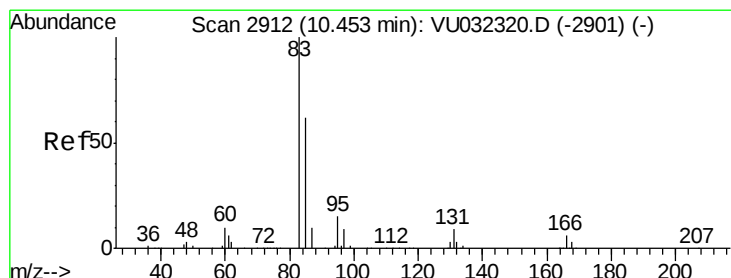
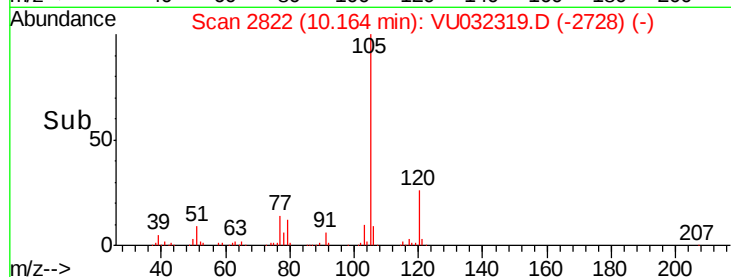
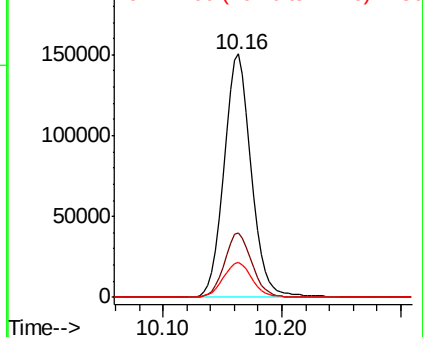
77 15.2 11.8 17.6



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: 9.303 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

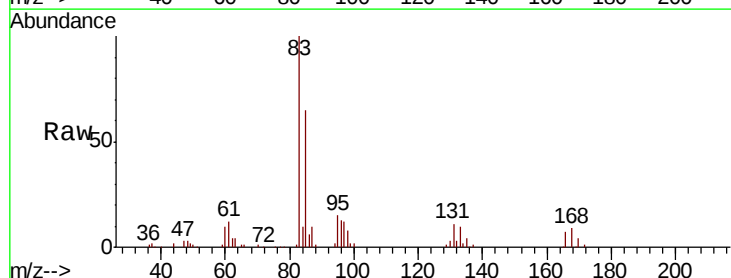
Tgt Ion: 83 Resp: 99578

Ion Ratio Lower Upper

83 100

85 65.1 44.3 82.3

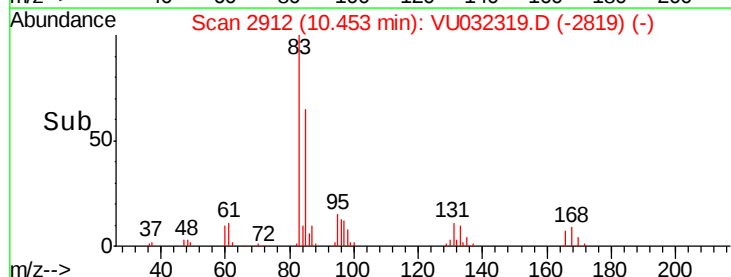
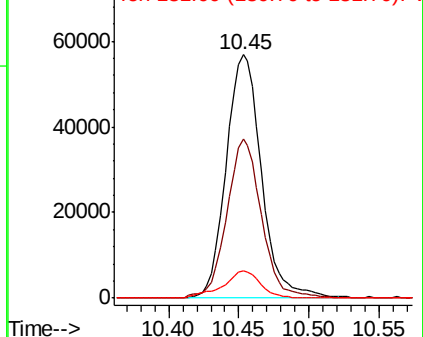
131 11.1 7.6 11.4

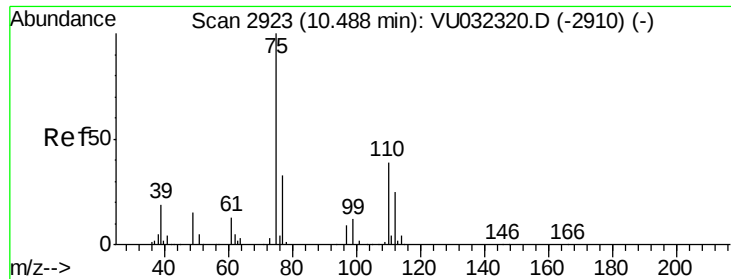


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

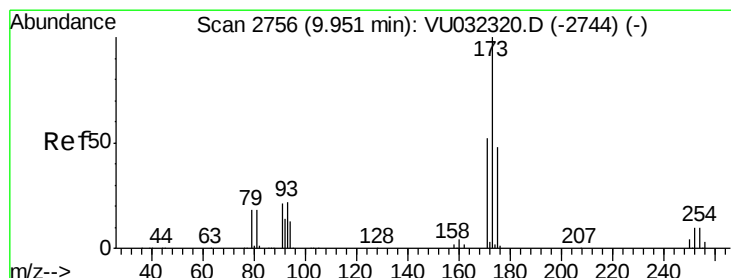
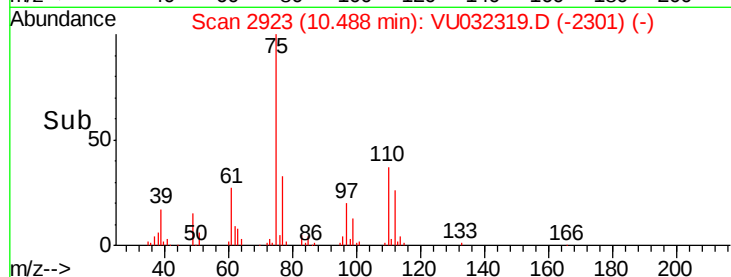
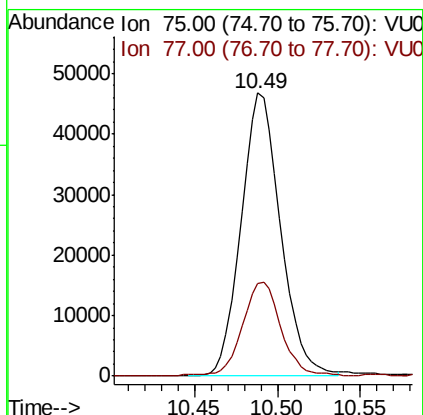
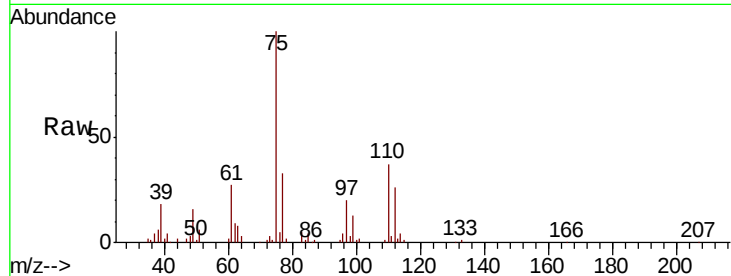




#59
 1,2,3-Trichloropropane
 Concen: 9.169 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

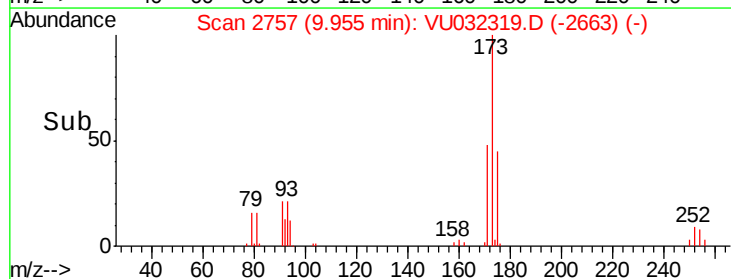
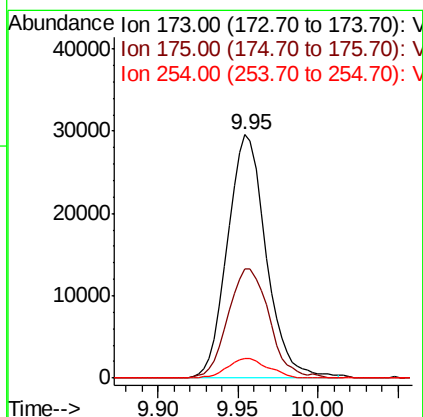
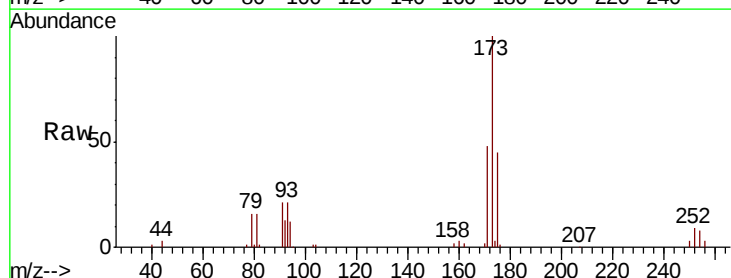
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

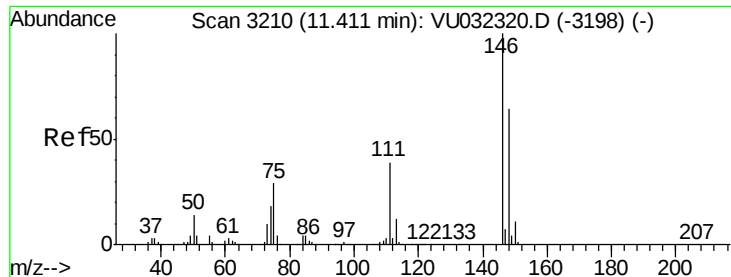
Tgt Ion: 75 Resp: 77284
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.8 38.8



#61
 Bromoform
 Concen: 9.284 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion: 173 Resp: 48765
 Ion Ratio Lower Upper
 173 100
 175 47.4 38.8 58.2
 254 8.5 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 9.898 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

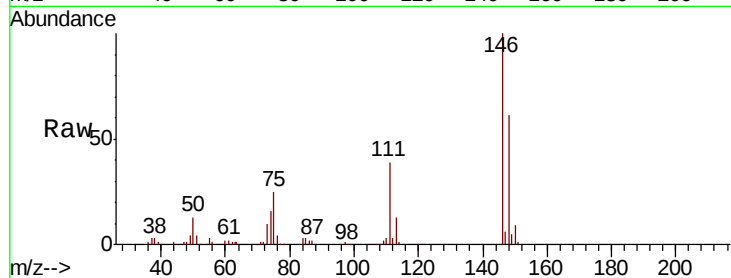
Tgt Ion:146 Resp: 113460

Ion Ratio Lower Upper

146 100

111 39.3 27.6 51.2

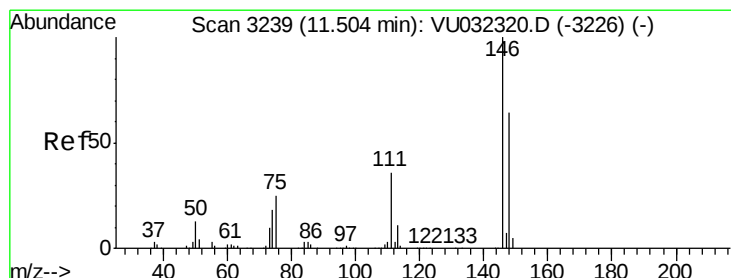
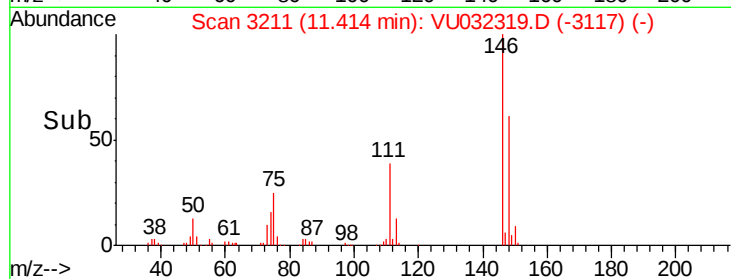
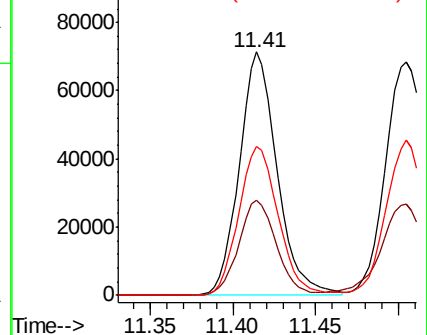
148 61.2 44.7 82.9



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: 9.895 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

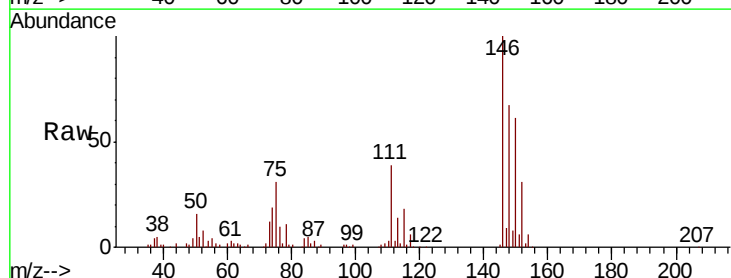
Tgt Ion:146 Resp: 118125

Ion Ratio Lower Upper

146 100

111 39.2 25.6 47.4

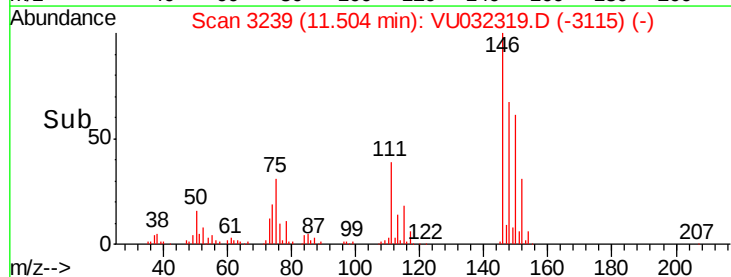
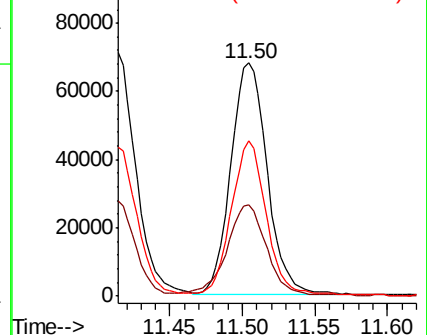
148 66.8 45.0 83.6

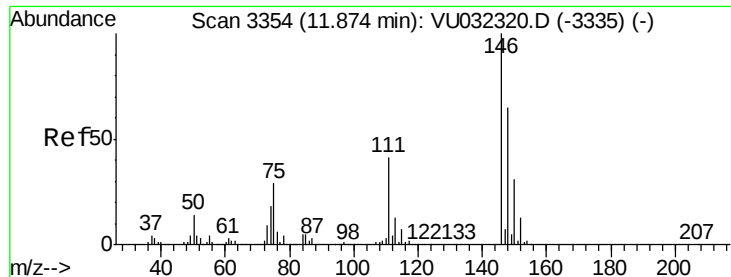


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

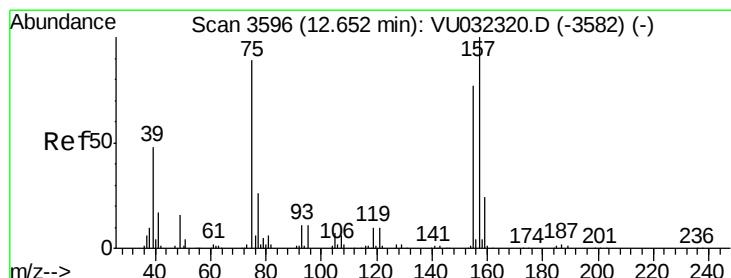
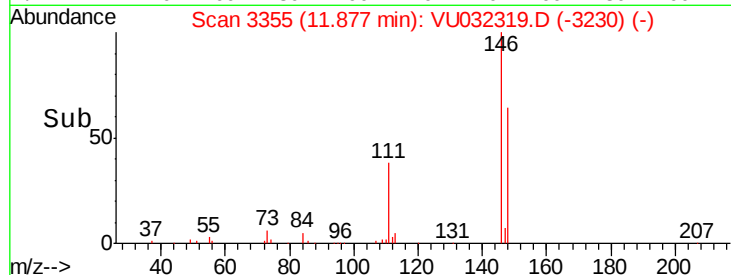
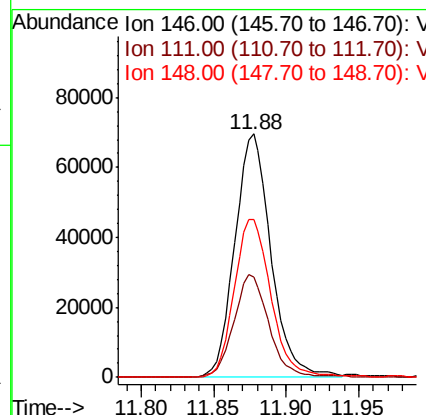
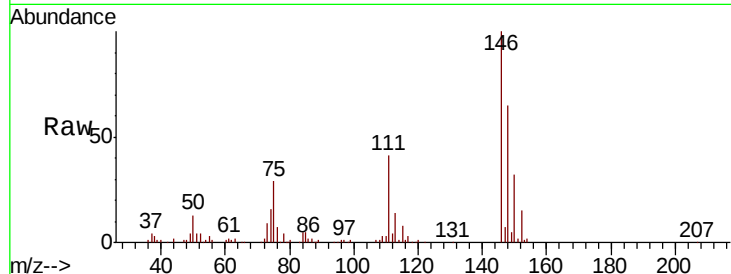




#65
 1,2-Dichlorobenzene
 Concen: 9.756 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

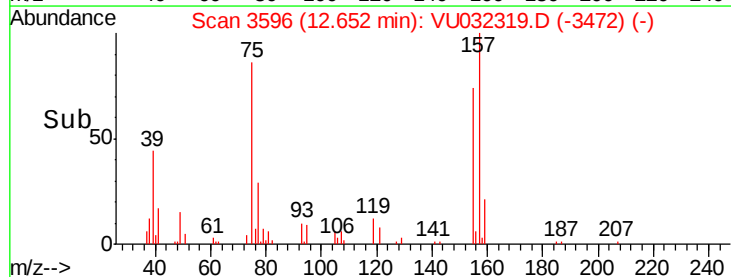
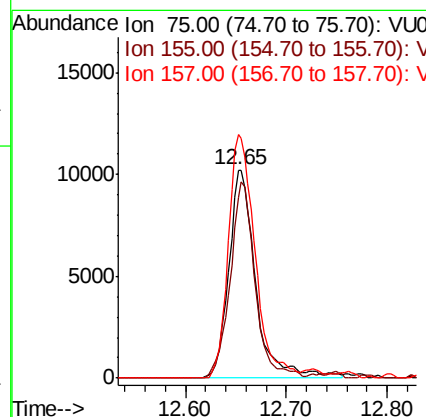
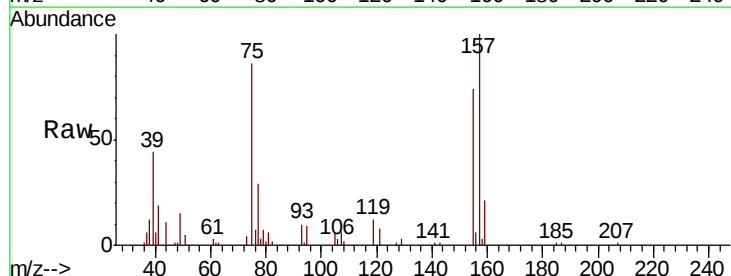
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

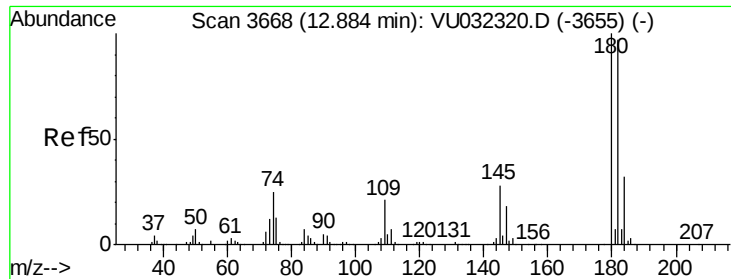
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	33.1	49.7
148	64.8	52.3	78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 8.636 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.9	69.5	104.3
157	116.9	89.8	134.6

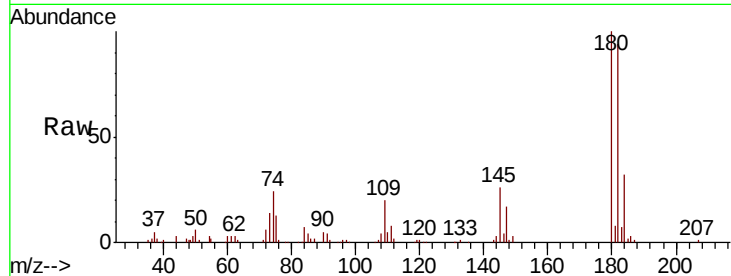




#67
 1,3,5-Trichlorobenzene
 Concen: 10.070 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01054

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	78.3	117.5
184	30.8	25.0	37.4
145	27.3	22.6	33.8



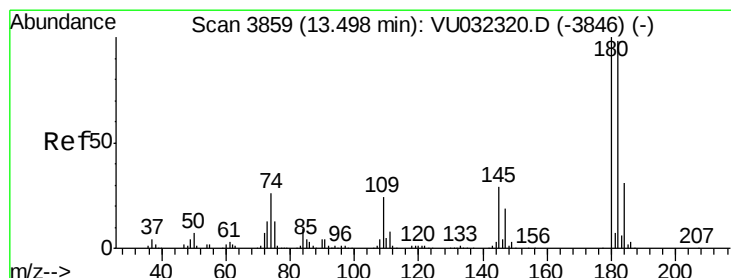
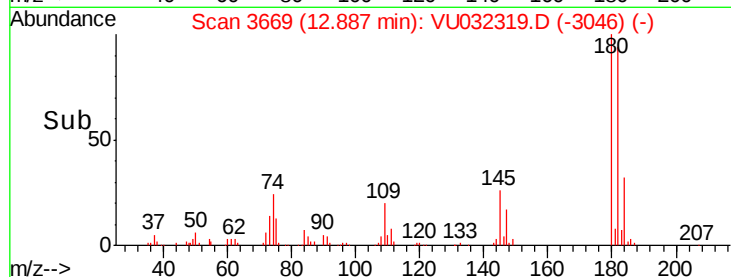
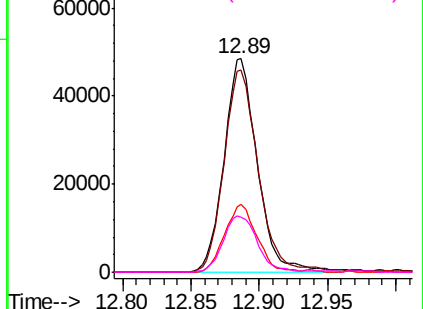
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

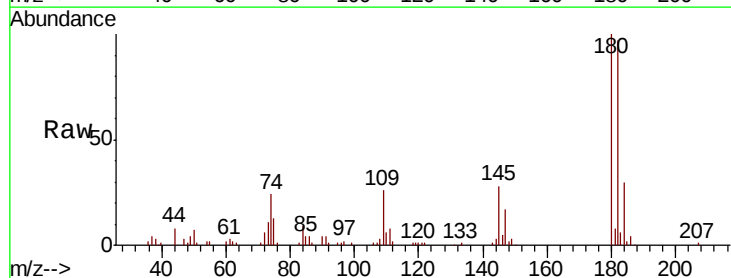
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 8.445 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU032319.D
 Acq: 28 May 2019 11:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	78.2	117.4
145	27.7	23.0	34.4

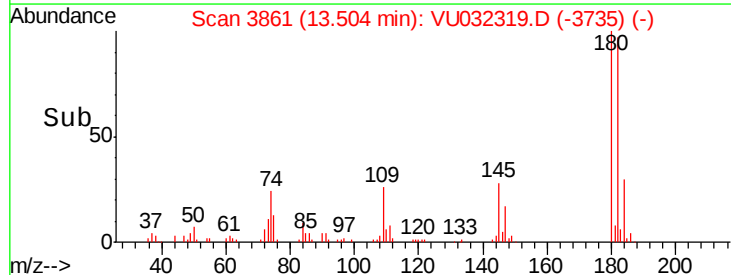
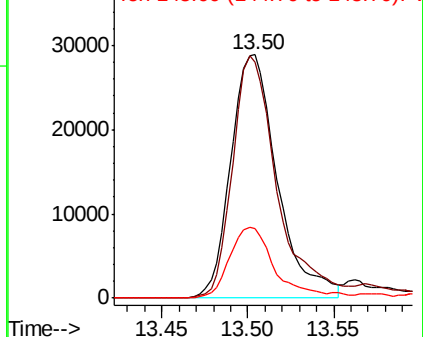


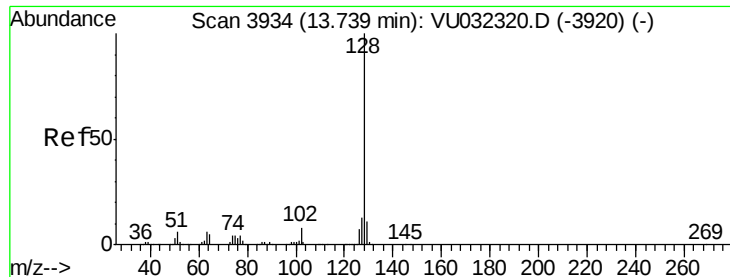
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 6.523 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD01054

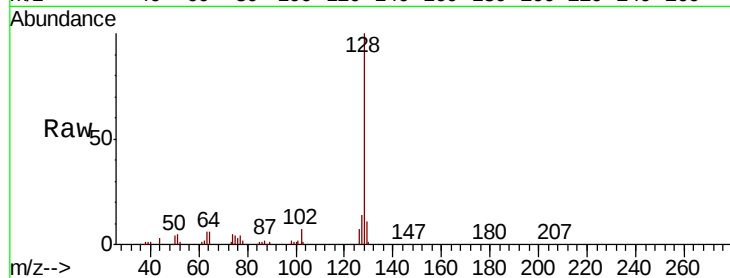
Tgt Ion:128 Resp: 143593

Ion Ratio Lower Upper

128 100

127 11.7 10.1 15.1

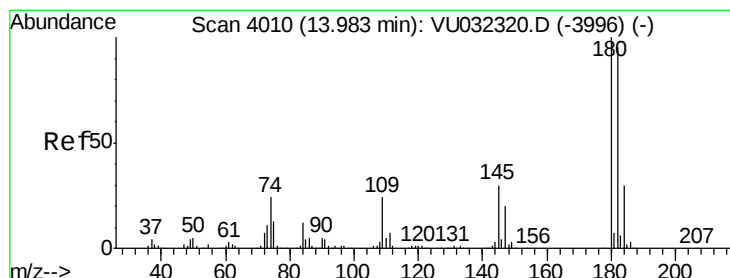
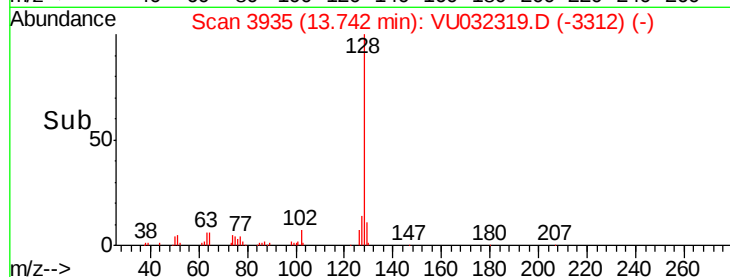
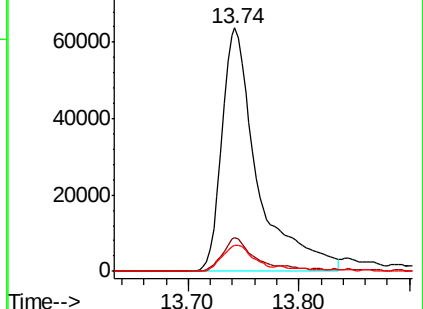
129 9.3 8.7 13.1



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: 8.603 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032319.D

Acq: 28 May 2019 11:25

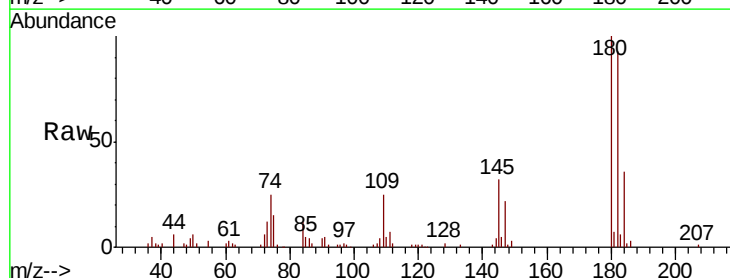
Tgt Ion:180 Resp: 63055

Ion Ratio Lower Upper

180 100

182 97.0 77.7 116.5

145 27.4 24.3 36.5



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

