

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029883.D
 Acq On : 08 Mar 2019 13:21
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Quant Time: Mar 08 22:10:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 08 04:31:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	483502	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	472878	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	247433	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	166986	47.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.26%
7) Chloroethane-d5	1.68	69	136932	43.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.94%
11) 1,1-Dichloroethene-d2	2.27	63	296902	42.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.74%
21) 2-Butanone-d5	4.17	46	220220	102.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.14%
24) Chloroform-d	4.64	84	301472	52.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.92%
26) 1,2-Dichloroethane-d4	5.31	65	176312	48.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.92%
32) Benzene-d6	5.34	84	642348	53.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.96%
36) 1,2-Dichloropropane-d6	6.33	67	192647	53.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.62%
41) Toluene-d8	7.56	98	616092	50.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.48%
43) trans-1,3-Dichloropropene-	7.85	79	94866	49.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.92%
47) 2-Hexanone-d5	8.31	63	179895	90.24	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.24%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	292621	48.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.76%
64) 1,2-Dichlorobenzene-d4	11.86	152	255796	47.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.94%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	158658	47.858 ug/L	100
3) Chloromethane	1.33	50	145766	50.120 ug/L	100
5) Vinyl chloride	1.40	62	177949	45.053 ug/L	99
6) Bromomethane	1.62	94	98449	54.615 ug/L	98
8) Chloroethane	1.69	64	109422	41.651 ug/L	99
9) Trichlorofluoromethane	1.88	101	248327	39.441 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	157381	46.730 ug/L	100
12) 1,1-Dichloroethene	2.28	96	145332	45.390 ug/L	96
13) Acetone	2.32	43	199862	86.749 ug/L	95
14) Carbon disulfide	2.48	76	406038	48.421 ug/L	100
15) Methyl Acetate	2.61	43	163112	54.545 ug/L	97
16) Methylene chloride	2.70	84	171366	55.311 ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	154200	52.179 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	466415	50.978 ug/L	98
19) 1,1-Dichloroethane	3.44	63	276311	54.072 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	179188	52.183 ug/L	96
22) 2-Butanone	4.26	43	246571	93.777 ug/L	98

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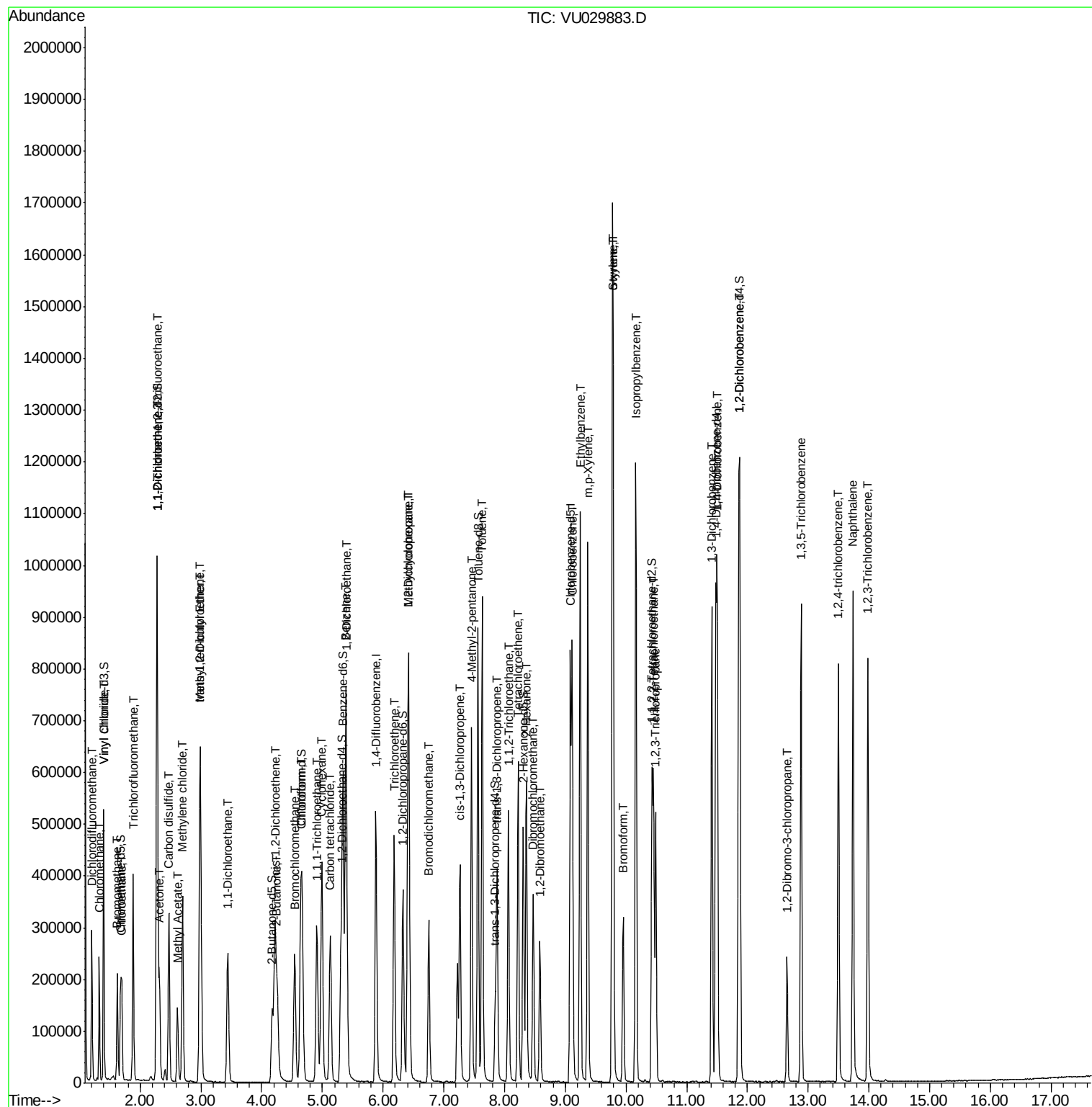
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	94775	50.347	ug/L	97
25) Chloroform	4.67	83	302177	53.001	ug/L	98
27) 1,2-Dichloroethane	5.40	62	215867	49.246	ug/L	99
29) Cyclohexane	4.99	56	236766	50.595	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	245021	48.868	ug/L	99
31) Carbon tetrachloride	5.13	117	214903	47.355	ug/L	99
33) Benzene	5.39	78	654561	53.989	ug/L	100
34) Trichloroethene	6.18	95	170550	52.219	ug/L	96
35) Methylcyclohexane	6.41	83	278403	51.328	ug/L	97
37) 1,2-Dichloropropane	6.43	63	170039	53.428	ug/L	100
38) Bromodichloromethane	6.75	83	219391	51.133	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	263350	51.288	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	433889	96.950	ug/L	98
42) Toluene	7.63	91	725344	50.590	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	241247	49.853	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	175938	51.865	ug/L	98
46) Tetrachloroethene	8.22	164	149737	46.841	ug/L	97
48) 2-Hexanone	8.36	43	350461	89.641	ug/L	97
49) Dibromochloromethane	8.47	129	197573	48.043	ug/L	99
50) 1,2-Dibromoethane	8.58	107	186743	49.688	ug/L	100
51) Chlorobenzene	9.12	112	484562	49.241	ug/L	97
52) Ethylbenzene	9.25	91	794021	48.762	ug/L	99
53) m,p-Xylene	9.37	106	315461	48.261	ug/L	100
54) o-xylene	9.77	106	315737	48.088	ug/L	98
55) Styrene	9.79	104	533612	48.143	ug/L	95
56) Isopropylbenzene	10.16	105	813483	47.348	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	291114	48.531	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	220601	48.615	ug/L	100
61) Bromoform	9.95	173	153430	46.046	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	395536	50.137	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	404448	50.943	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	407498	49.483	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	59572	46.486	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	311637	51.765	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	273939	52.610	ug/L	100
69) Naphthalene	13.74	128	816253	51.001	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	285245	51.586	ug/L	99

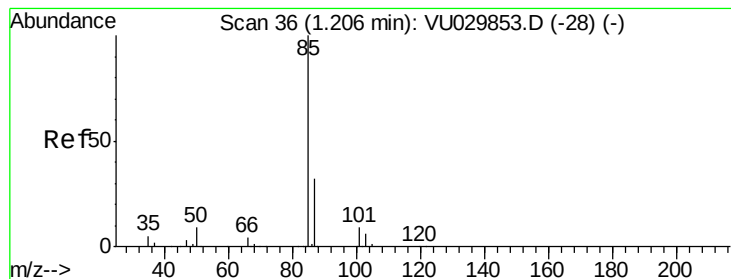
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.858 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

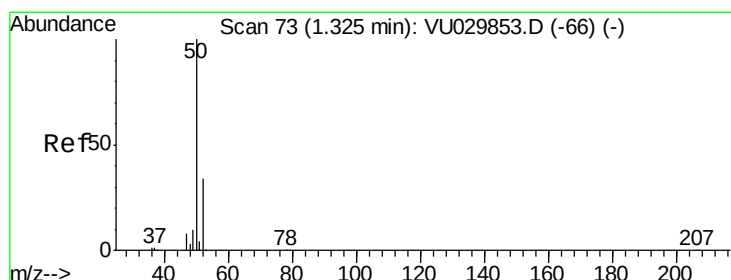
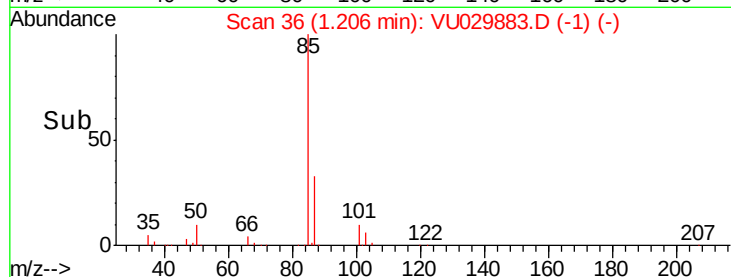
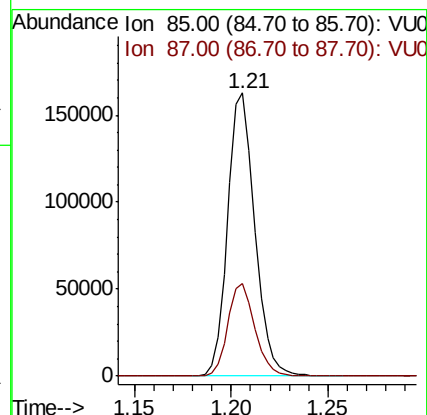
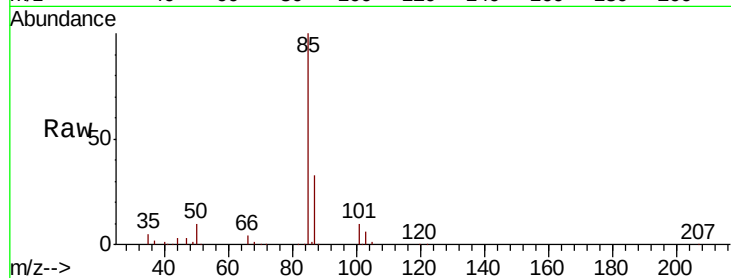
VSTD05053

Tgt Ion: 85 Resp: 158658

Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9



#3

Chloromethane

Concen: 50.120 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029883.D

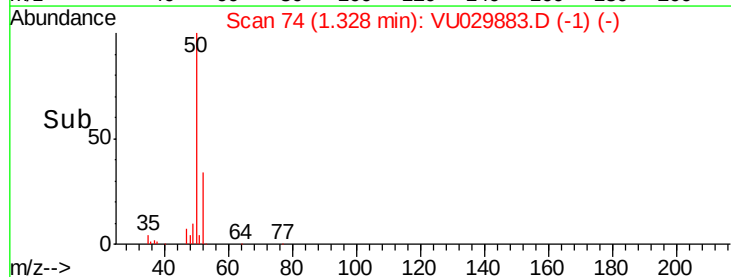
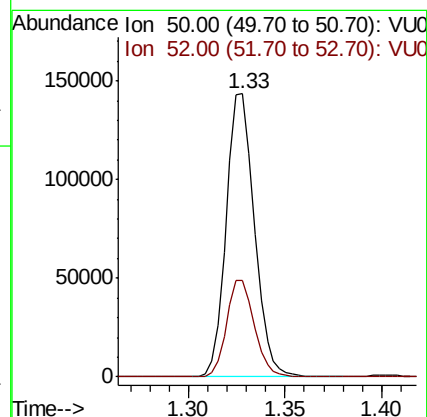
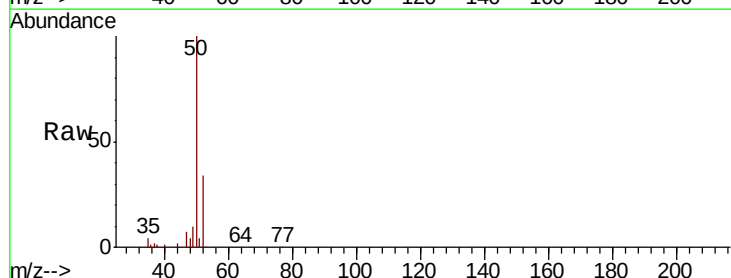
Acq: 08 Mar 2019 13:21

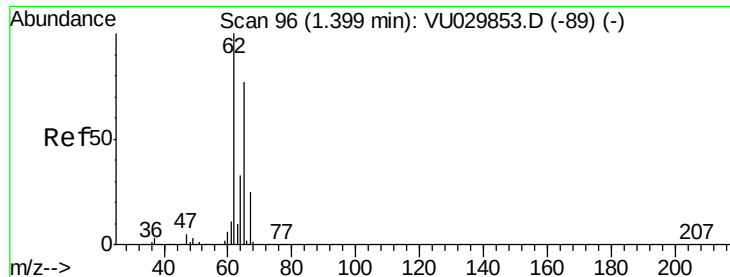
Tgt Ion: 50 Resp: 145766

Ion Ratio Lower Upper

50 100

52 34.2 23.9 44.3





#5

Vinyl chloride

Concen: 45.053 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

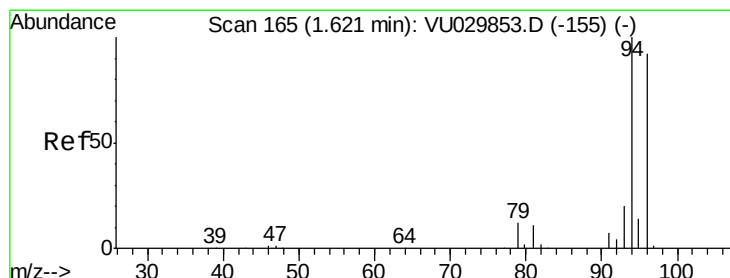
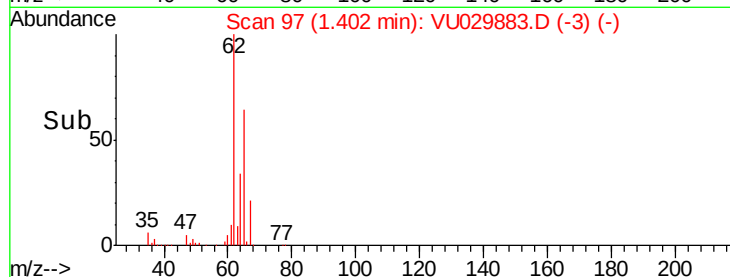
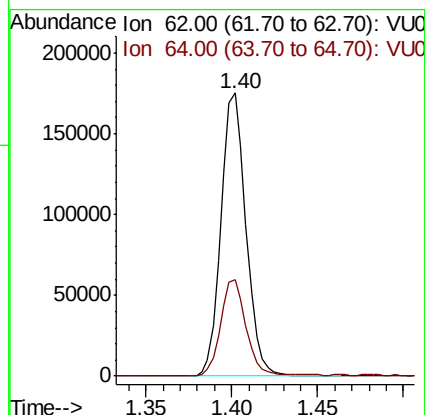
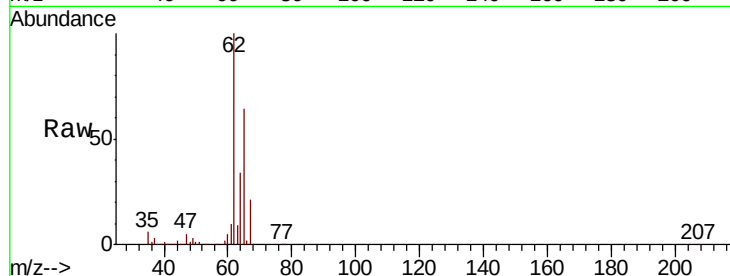
VSTD05053

Tgt Ion: 62 Resp: 177949

Ion Ratio Lower Upper

62 100

64 34.1 23.7 43.9



#6

Bromomethane

Concen: 54.615 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029883.D

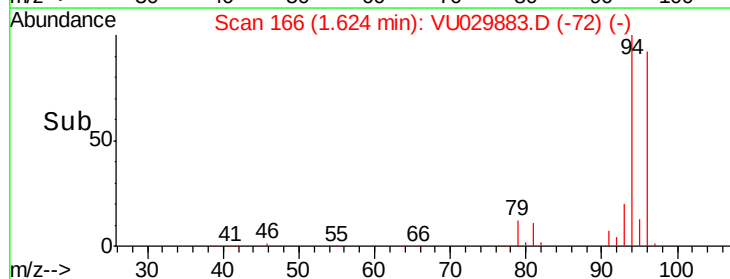
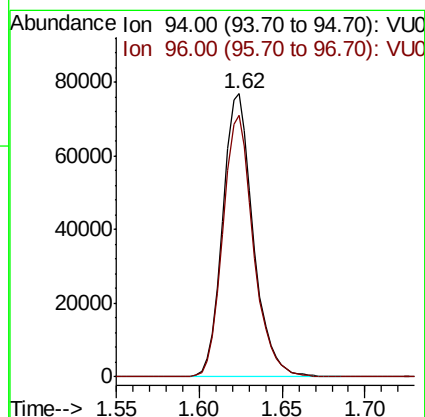
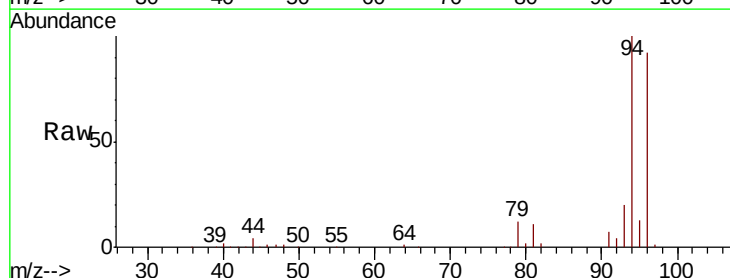
Acq: 08 Mar 2019 13:21

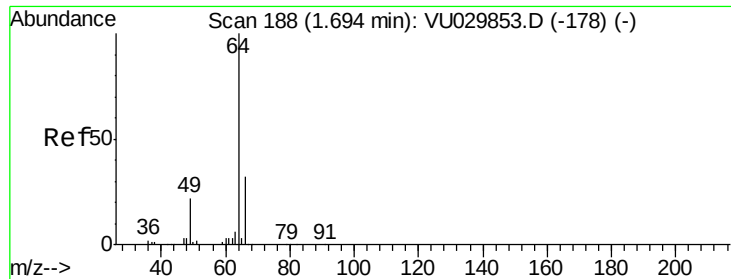
Tgt Ion: 94 Resp: 98449

Ion Ratio Lower Upper

94 100

96 92.5 66.4 123.2

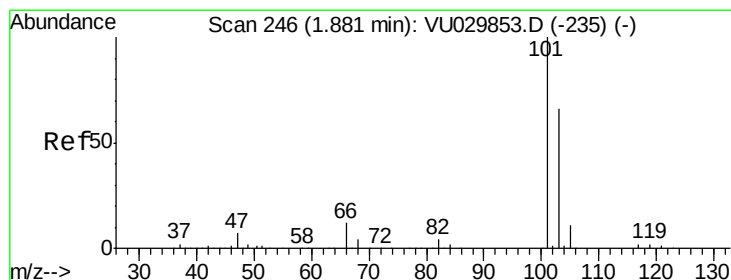
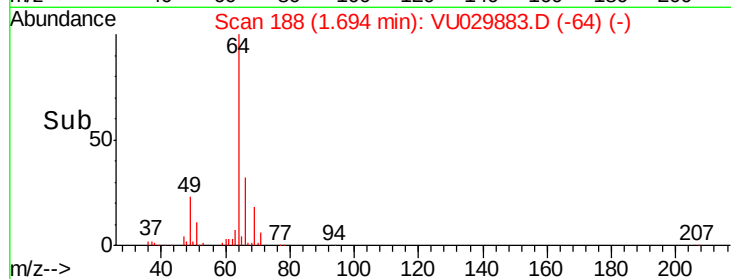
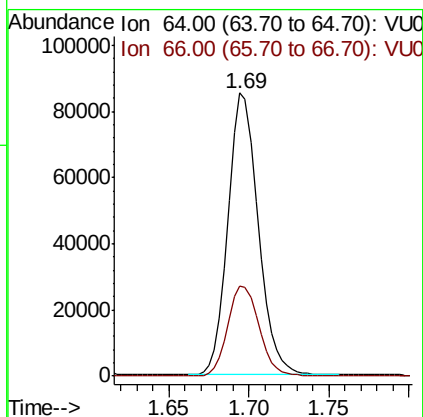
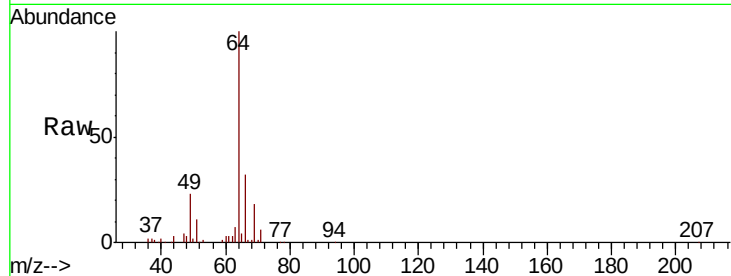




#8
Chloroethane
Concen: 41.651 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

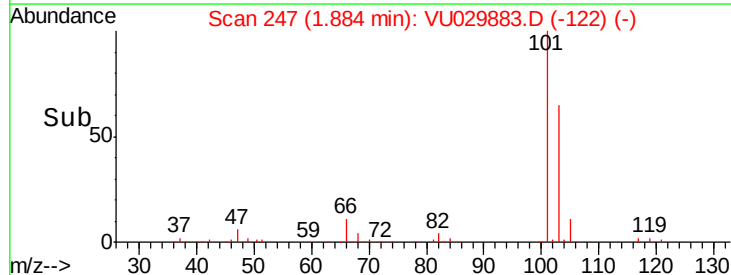
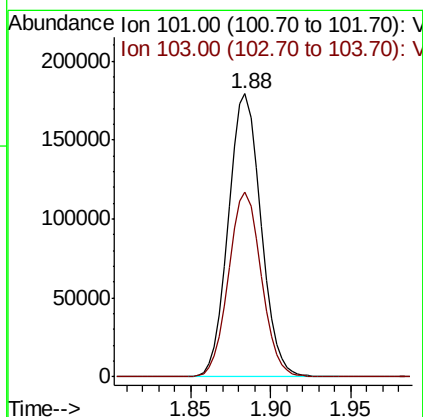
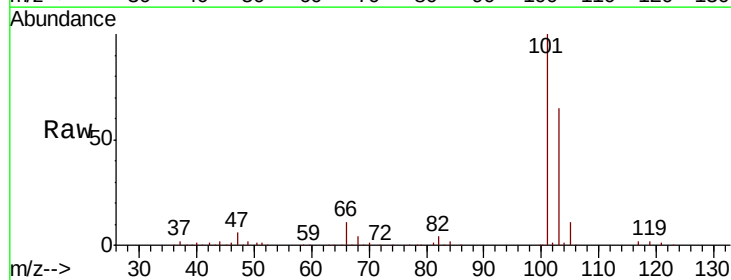
Instrument :
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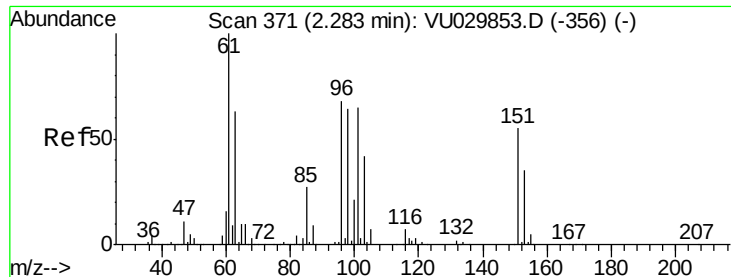
Tgt Ion: 64 Resp: 109422
Ion Ratio Lower Upper
64 100
66 31.9 22.0 41.0



#9
Trichlorofluoromethane
Concen: 39.441 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Tgt Ion: 101 Resp: 248327
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.2





#10

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

Concen: 46.730 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

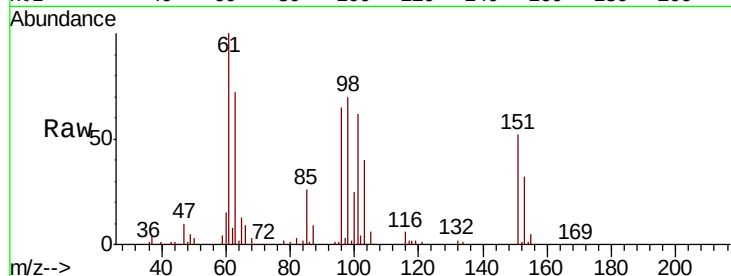
Tgt Ion: 101 Resp: 157381

Ion Ratio Lower Upper

101 100

85 41.9 33.0 49.6

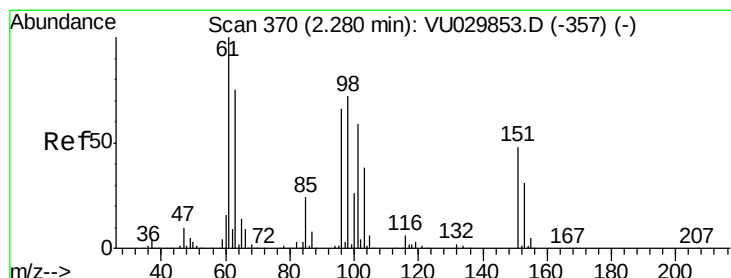
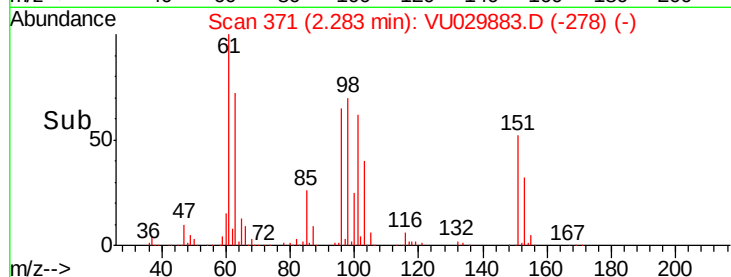
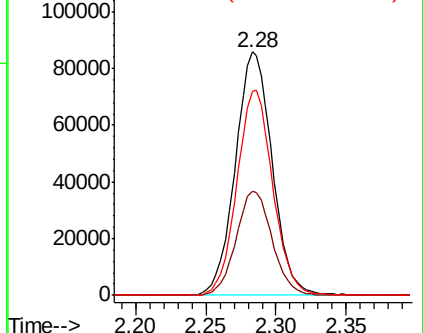
151 82.0 65.7 98.5



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: 45.390 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

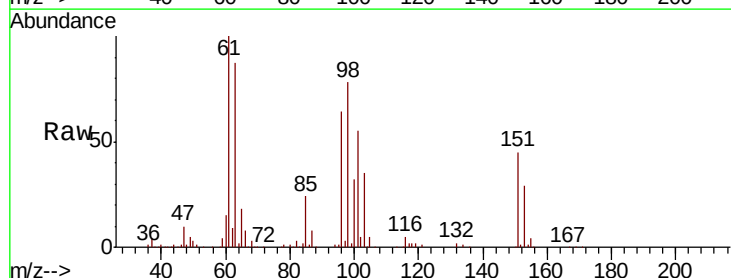
Tgt Ion: 96 Resp: 145332

Ion Ratio Lower Upper

96 100

61 156.5 114.0 211.8

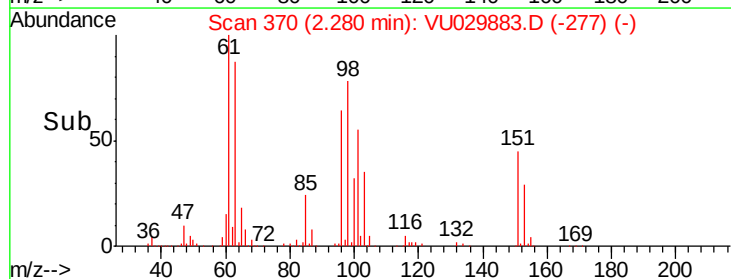
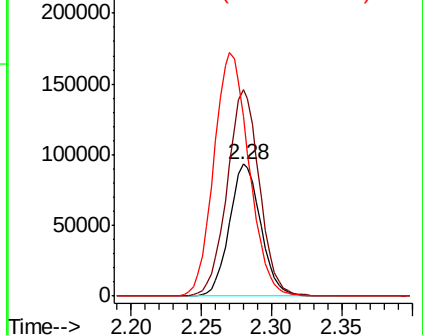
63 136.0 98.7 183.3

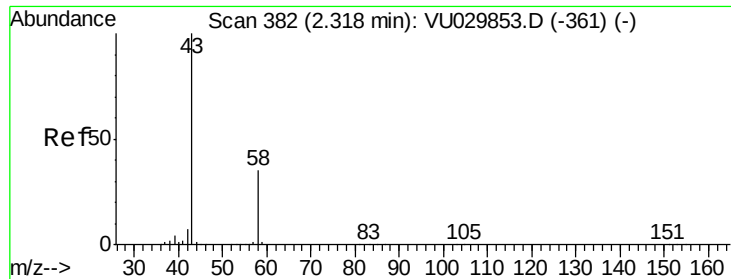


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 86.749 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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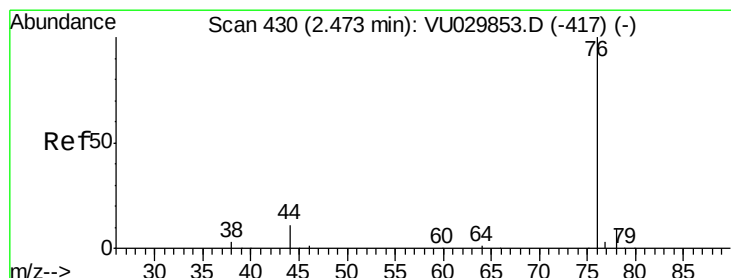
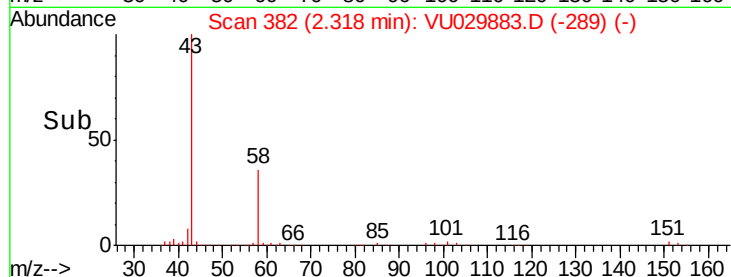
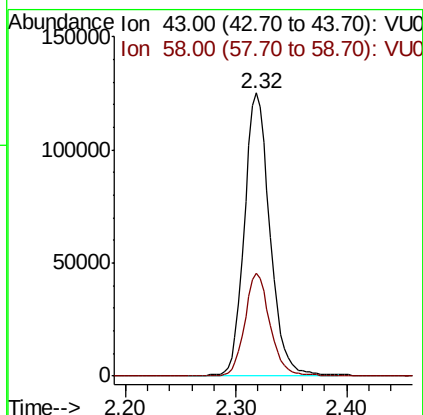
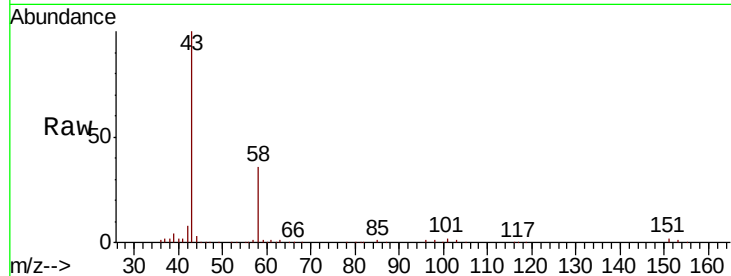
VSTD05053

Tgt Ion: 43 Resp: 199862

Ion Ratio Lower Upper

43 100

58 36.0 0.0 66.8



#14

Carbon disulfide

Concen: 48.421 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029883.D

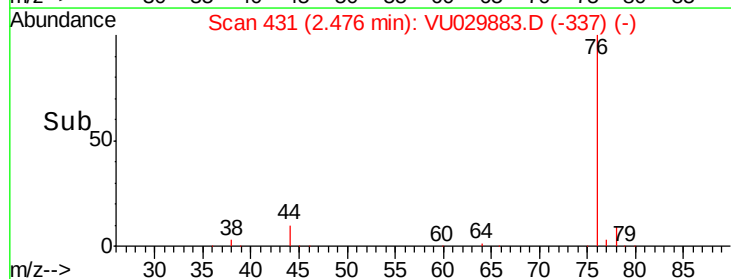
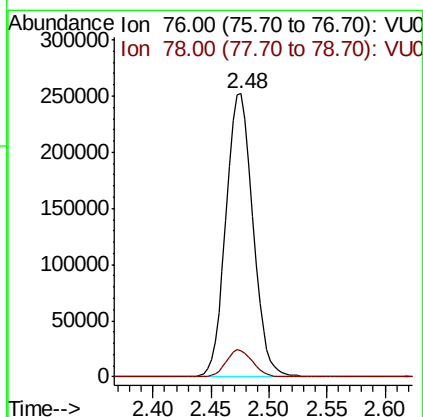
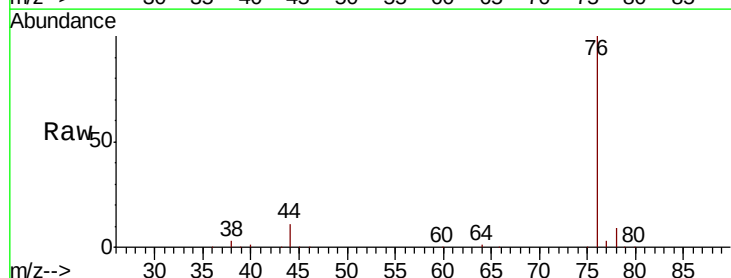
Acq: 08 Mar 2019 13:21

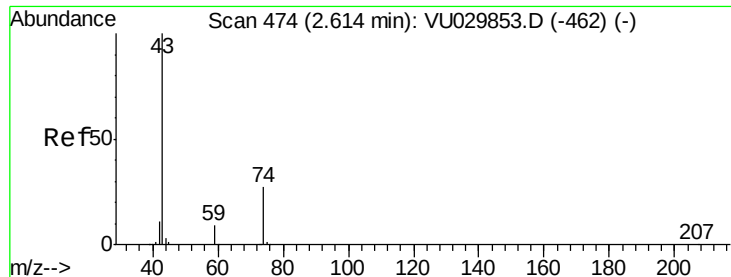
Tgt Ion: 76 Resp: 406038

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2





#15

Methyl Acetate

Concen: 54.545 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

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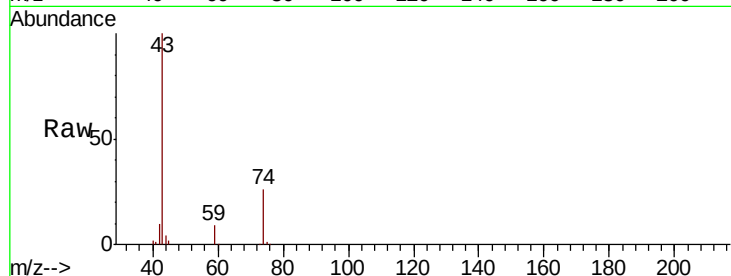
VSTD05053

Tgt Ion: 43 Resp: 163112

Ion Ratio Lower Upper

43 100

74 25.6 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.61

100000

80000

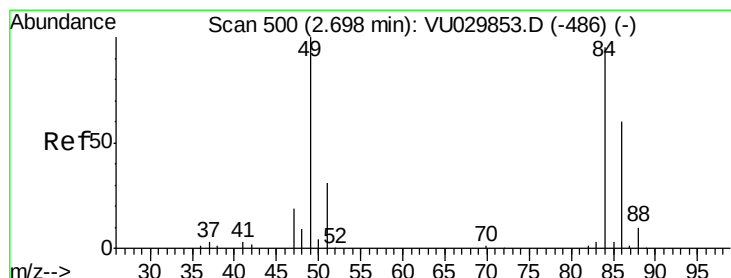
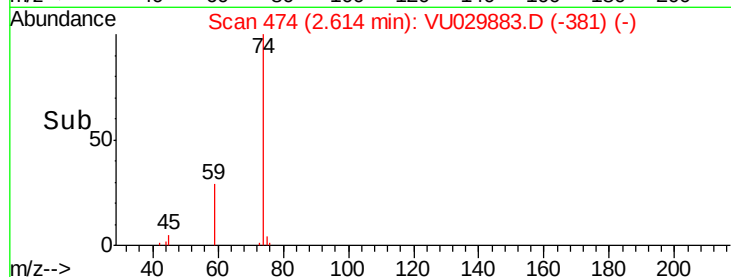
60000

40000

20000

0

Time--> 2.50 2.60 2.70



#16

Methylene chloride

Concen: 55.311 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

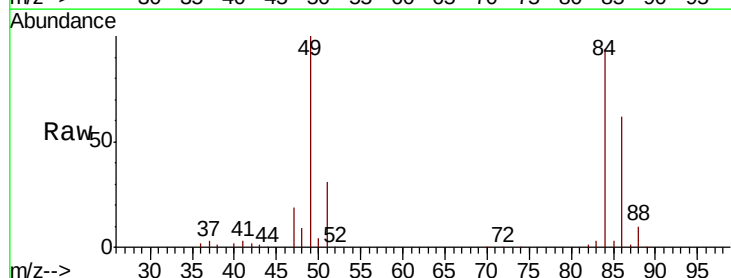
Tgt Ion: 84 Resp: 171366

Ion Ratio Lower Upper

84 100

86 65.8 45.8 85.0

49 106.8 75.1 139.5



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

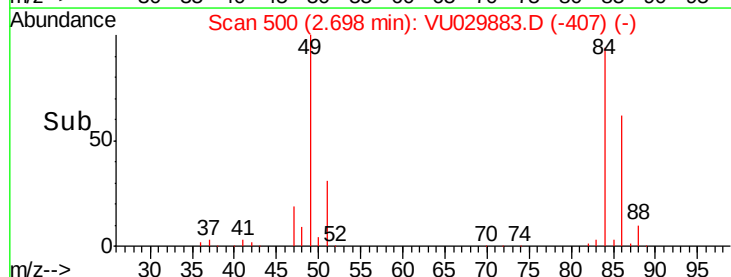
2.70

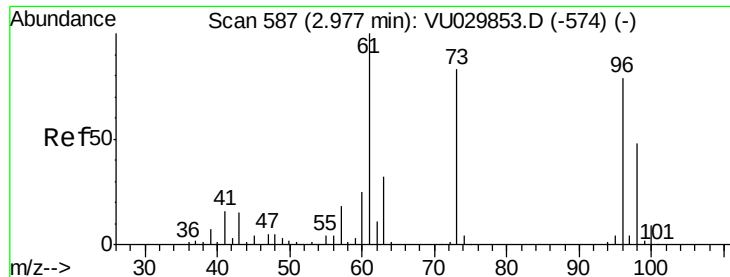
100000

50000

0

Time--> 2.60 2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 52.179 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

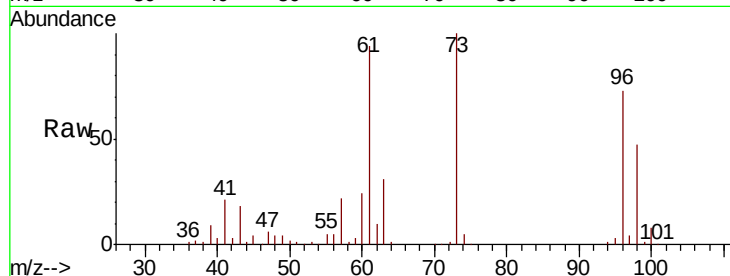
Tgt Ion: 96 Resp: 154200

Ion Ratio Lower Upper

96 100

61 129.0 88.3 163.9

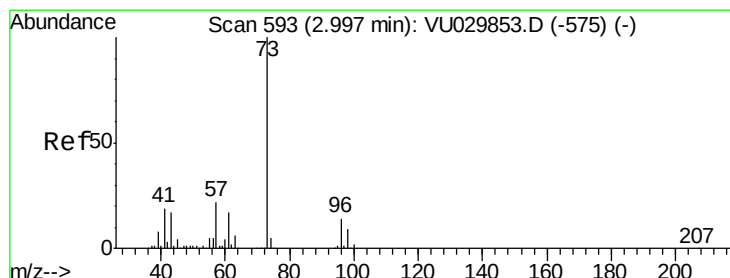
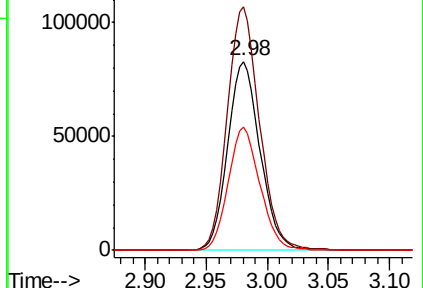
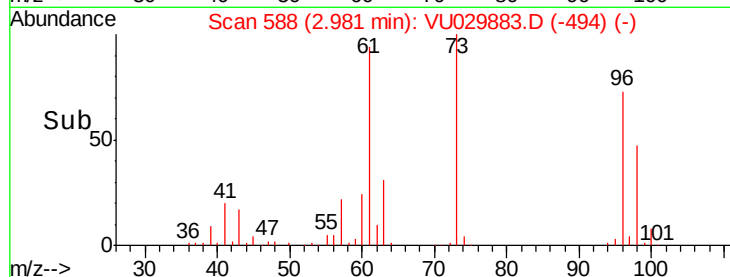
98 65.4 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 50.978 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

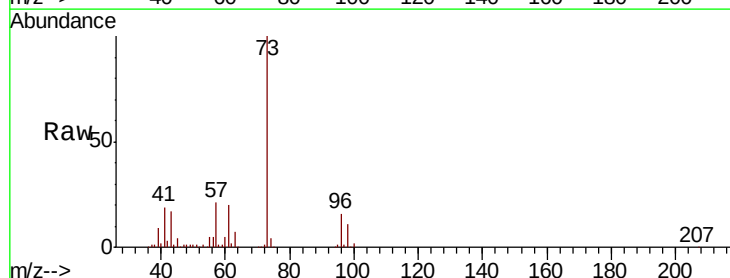
Tgt Ion: 73 Resp: 466415

Ion Ratio Lower Upper

73 100

43 17.2 14.8 22.2

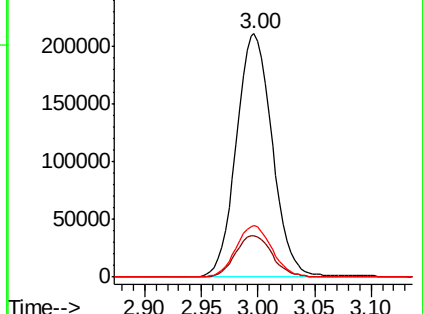
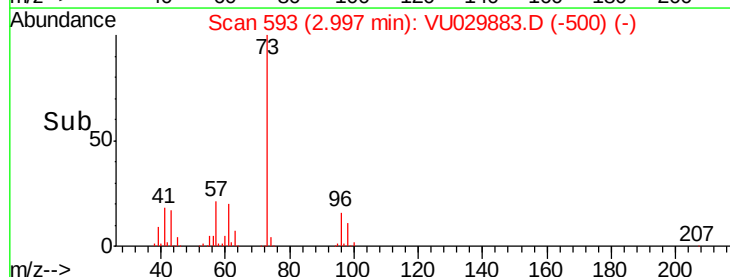
57 21.3 16.5 24.7

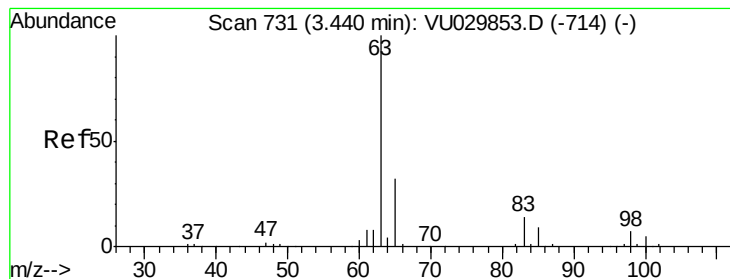


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 54.072 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

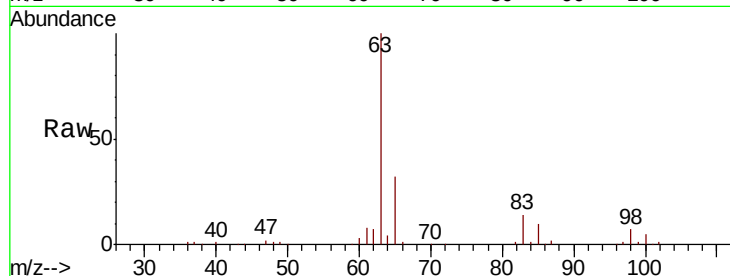
Tgt Ion: 63 Resp: 276311

Ion Ratio Lower Upper

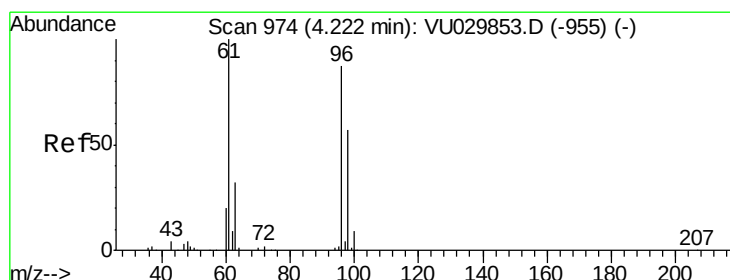
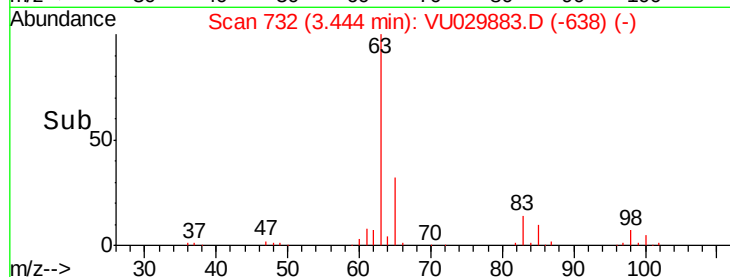
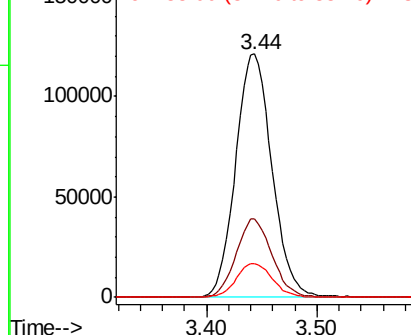
63 100

65 32.1 22.3 41.3

83 13.7 9.9 18.3



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: 52.183 ug/L

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

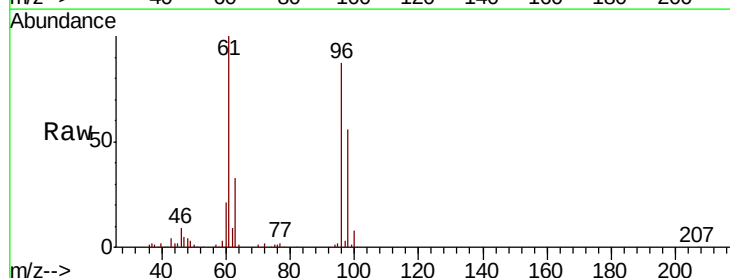
Tgt Ion: 96 Resp: 179188

Ion Ratio Lower Upper

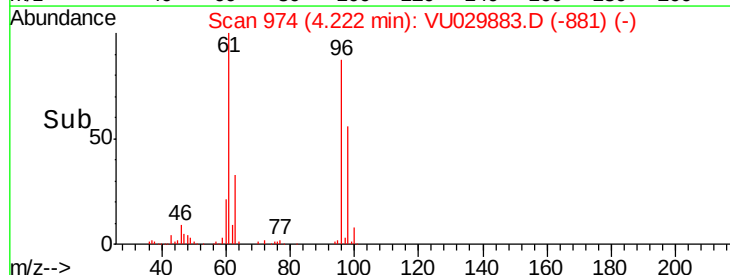
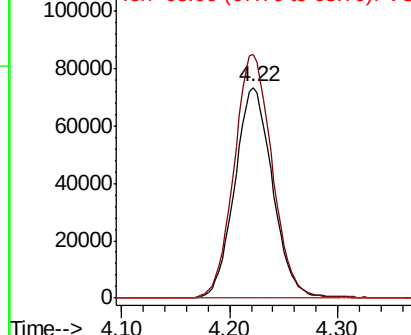
96 100

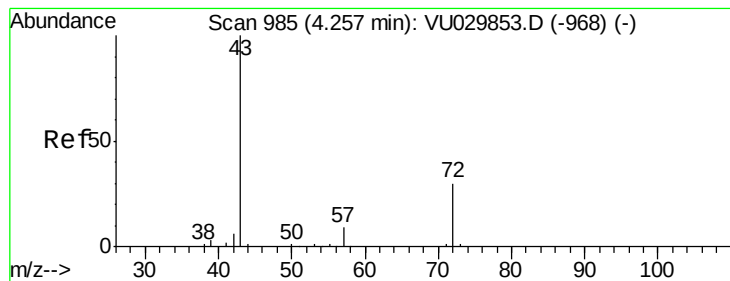
61 115.6 83.9 155.7

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: 93.777 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampled :

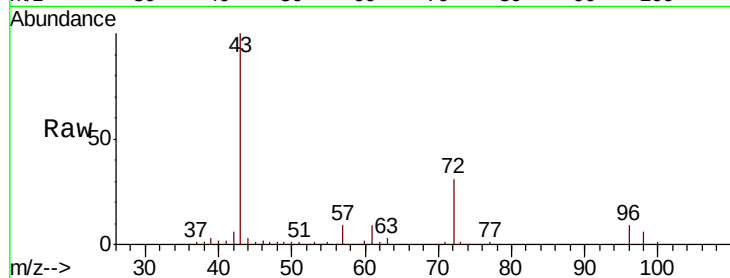
VSTD05053

Tgt Ion: 43 Resp: 246571

Ion Ratio Lower Upper

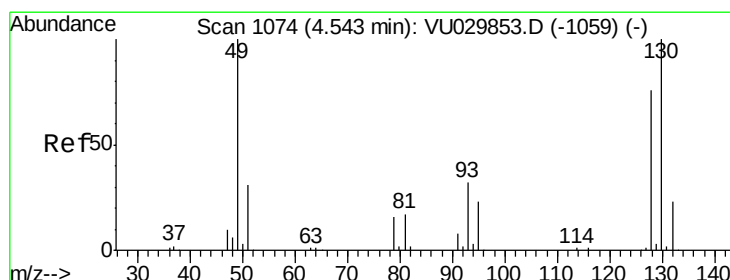
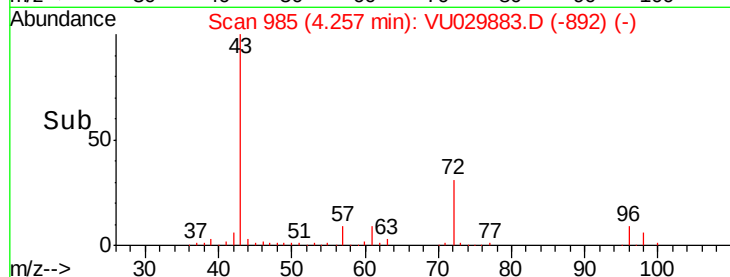
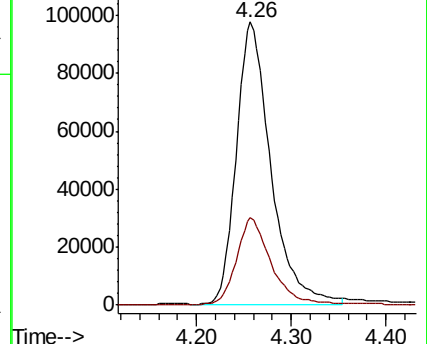
43 100

72 31.3 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#23

Bromochloromethane

Concen: 50.347 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Tgt Ion: 128 Resp: 94775

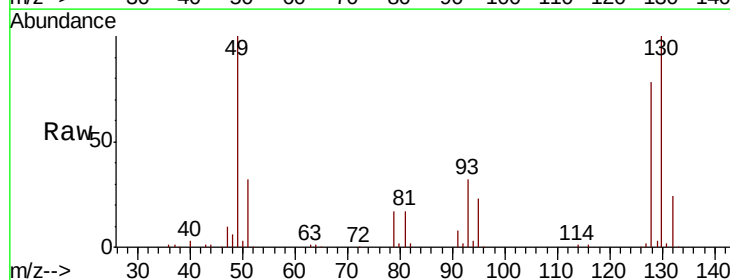
Ion Ratio Lower Upper

128 100

49 127.9 85.9 159.5

130 127.4 91.3 169.5

51 41.4 32.2 48.2

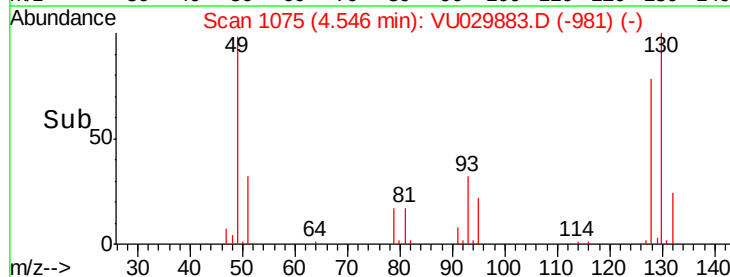
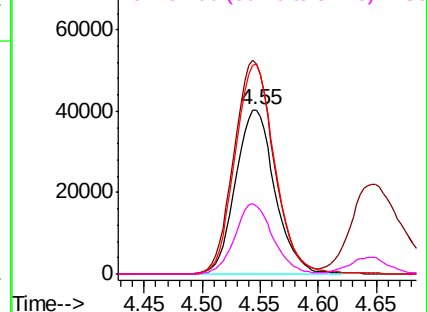


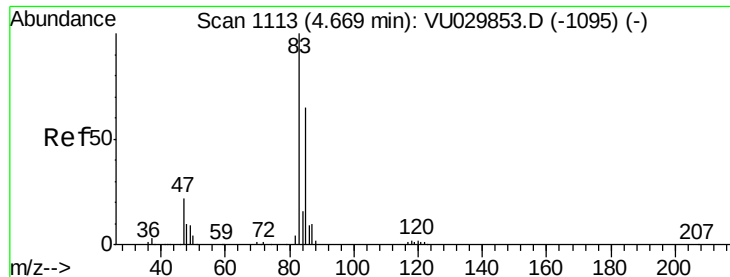
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VU0

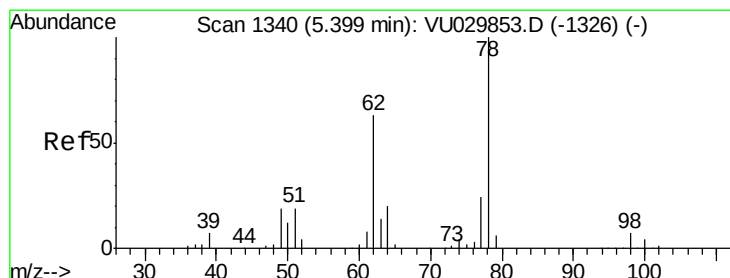
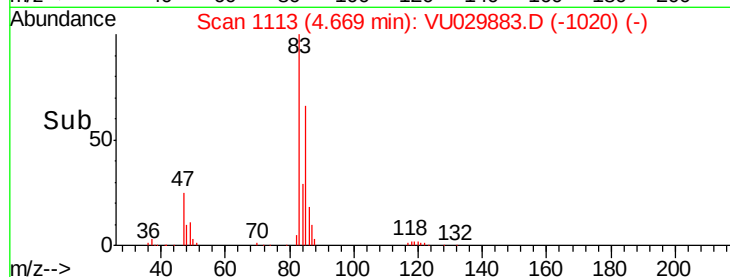
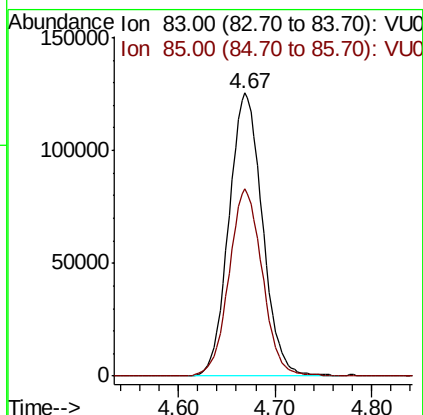
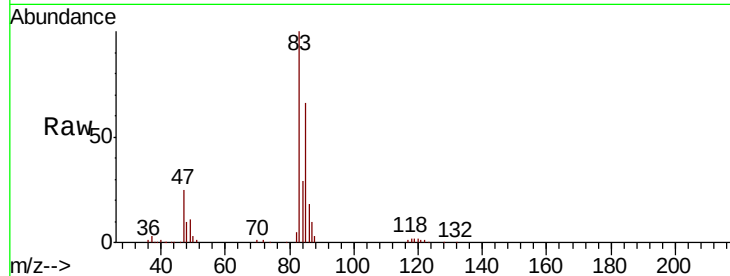




#25
Chloroform
Concen: 53.001 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

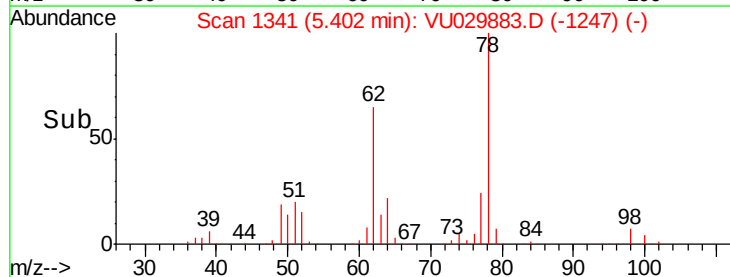
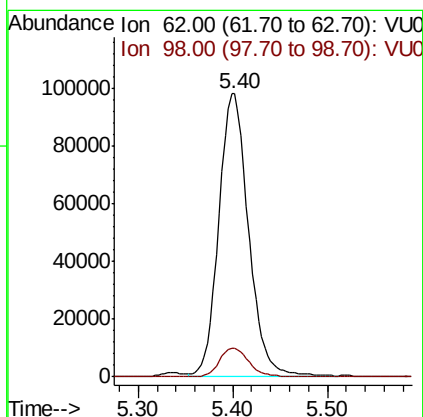
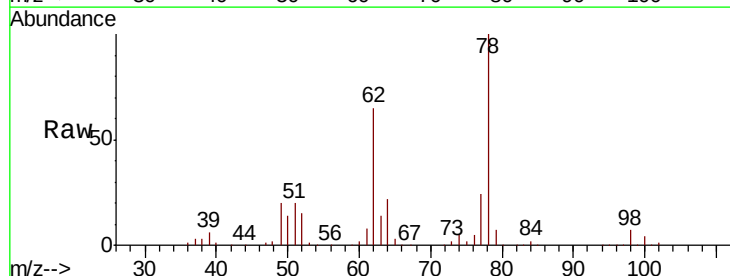
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

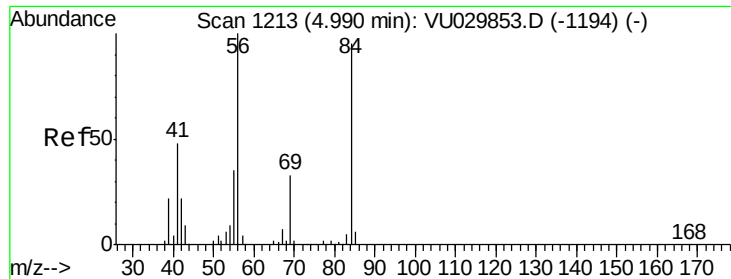
Tgt Ion: 83 Resp: 302177
Ion Ratio Lower Upper
83 100
85 66.1 45.4 84.2



#27
1,2-Dichloroethane
Concen: 49.246 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Tgt Ion: 62 Resp: 215867
Ion Ratio Lower Upper
62 100
98 10.2 7.8 11.8

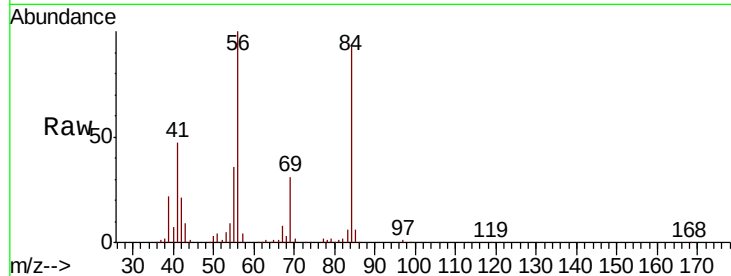




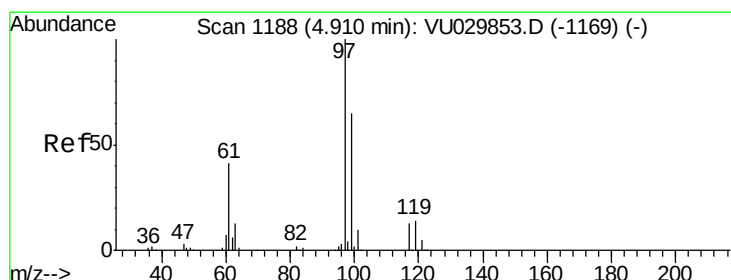
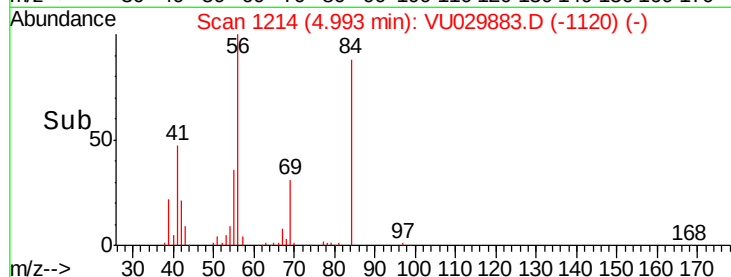
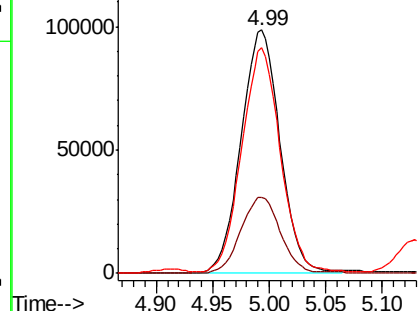
#29
Cyclohexane
Concen: 50.595 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

Tgt Ion: 56 Resp: 236766
Ion Ratio Lower Upper
56 100
69 31.9 25.7 38.5
84 92.5 77.1 115.7

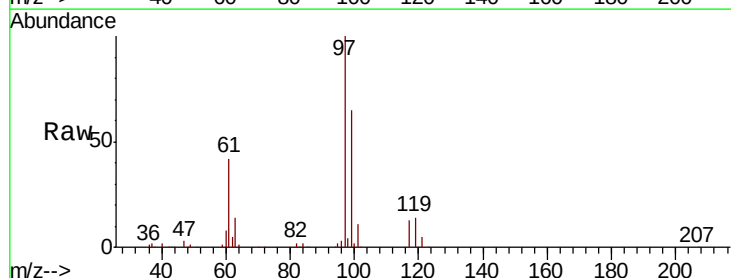


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

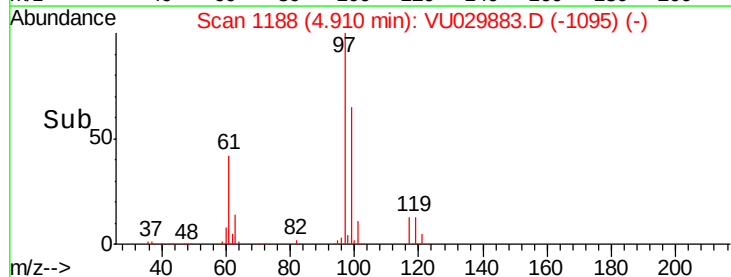
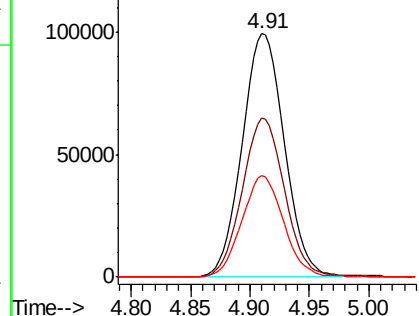


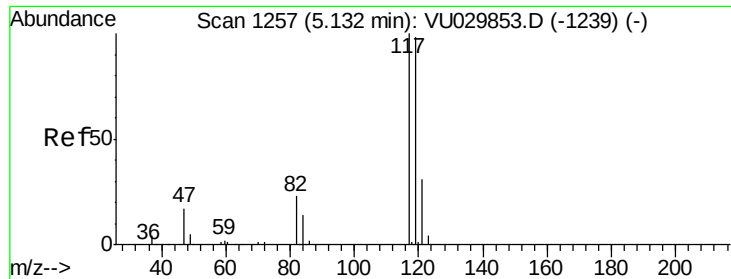
#30
1,1,1-Trichloroethane
Concen: 48.868 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Tgt Ion: 97 Resp: 245021
Ion Ratio Lower Upper
97 100
99 65.3 51.4 77.0
61 41.2 32.3 48.5



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

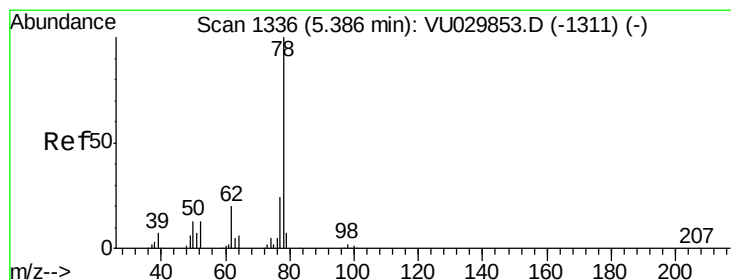
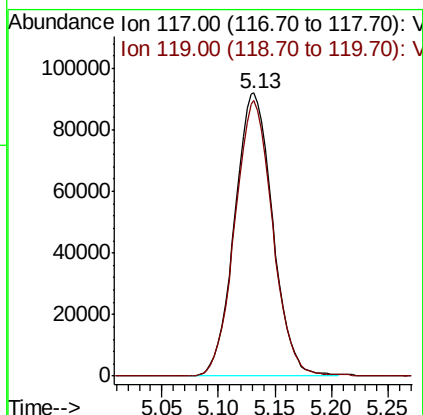
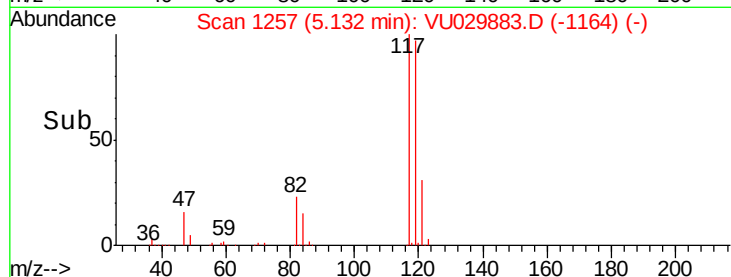
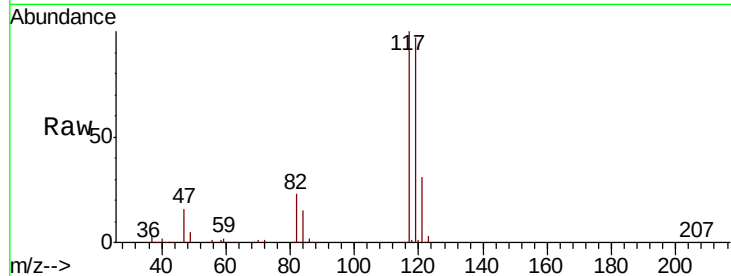




#31
Carbon tetrachloride
Concen: 47.355 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

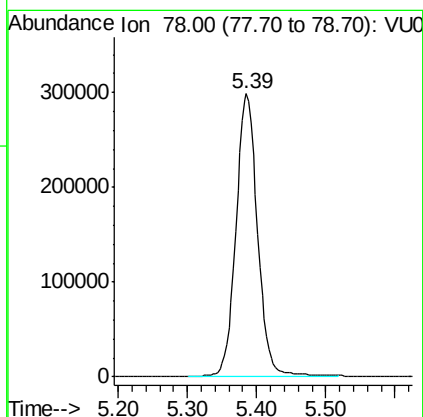
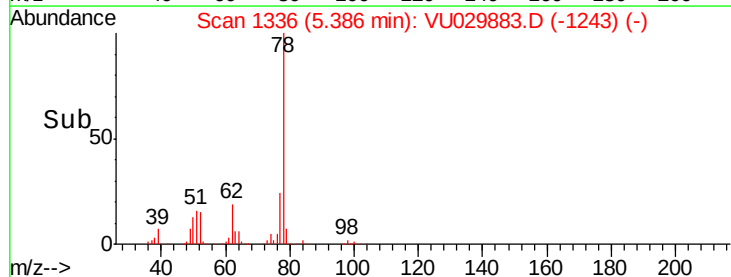
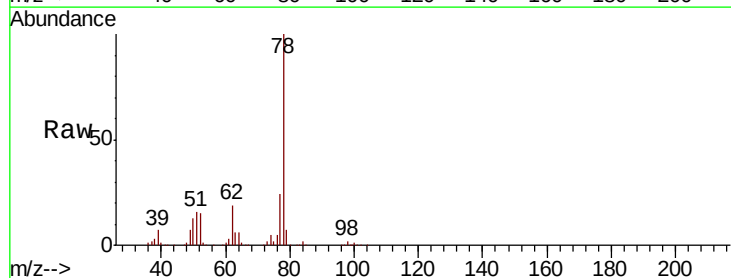
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

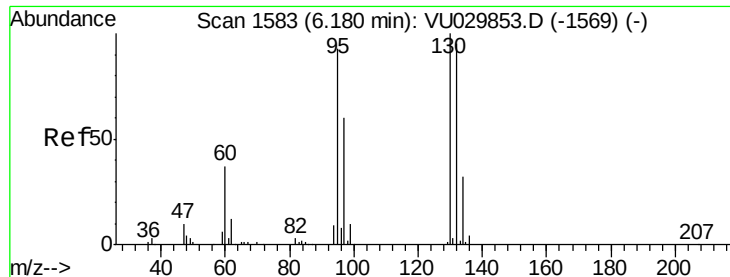
Tgt Ion:117 Resp: 214903
Ion Ratio Lower Upper
117 100
119 96.7 77.8 116.8



#33
Benzene
Concen: 53.989 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Tgt Ion: 78 Resp: 654561





#34

Trichloroethene

Concen: 52.219 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tgt Ion: 95 Resp: 170550

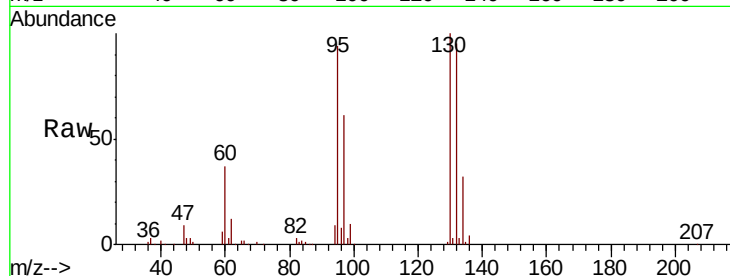
Ion Ratio Lower Upper

95 100

97 65.4 44.6 82.8

132 100.9 74.6 138.6

130 106.8 77.2 143.4

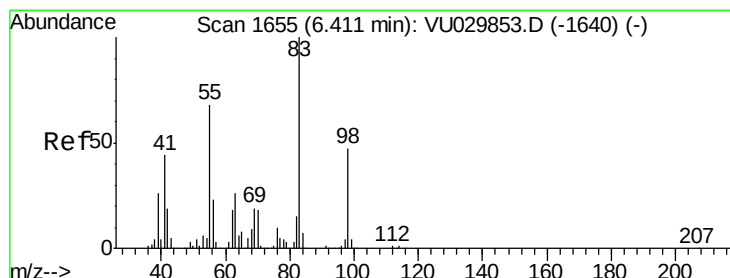
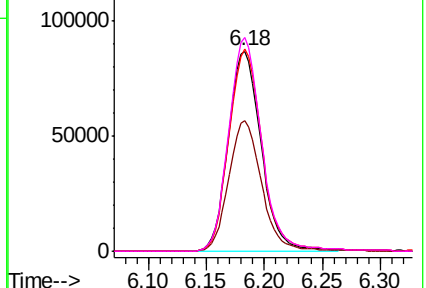
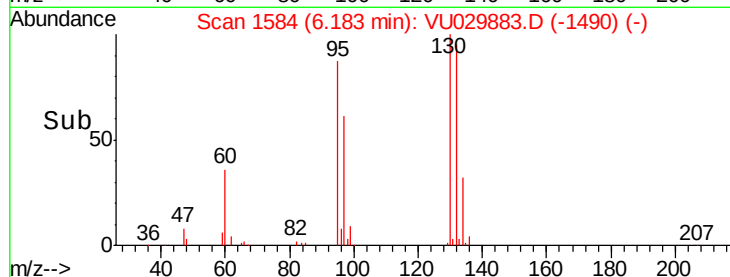


Abundance Ion 95.00 (94.70 to 95.70): VU029883.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU029883.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU029883.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU029883.D (-1569) (-)



#35

Methylcyclohexane

Concen: 51.328 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

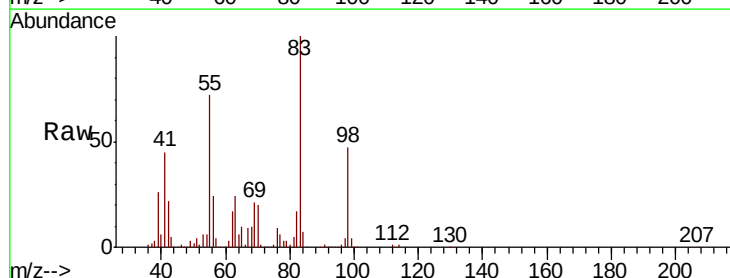
Tgt Ion: 83 Resp: 278403

Ion Ratio Lower Upper

83 100

55 70.4 55.2 82.8

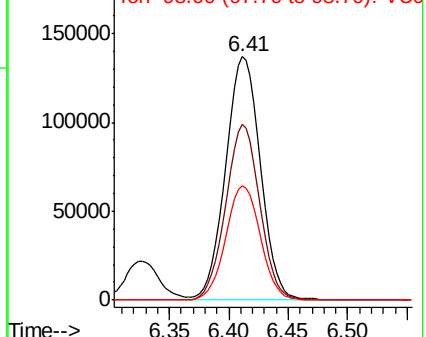
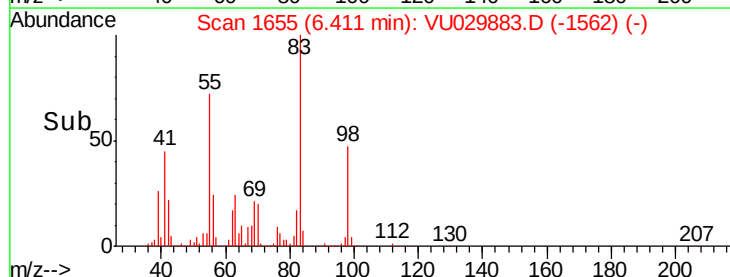
98 46.7 39.4 59.2

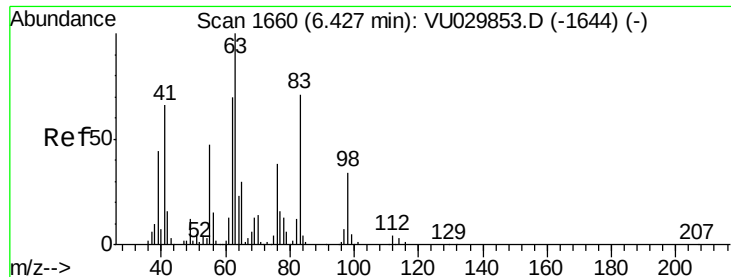


Abundance Ion 83.00 (82.70 to 83.70): VU029883.D (-1640) (-)

Ion 55.00 (54.70 to 55.70): VU029883.D (-1640) (-)

Ion 98.00 (97.70 to 98.70): VU029883.D (-1640) (-)

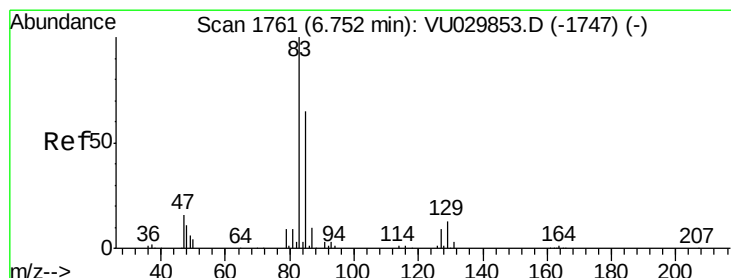
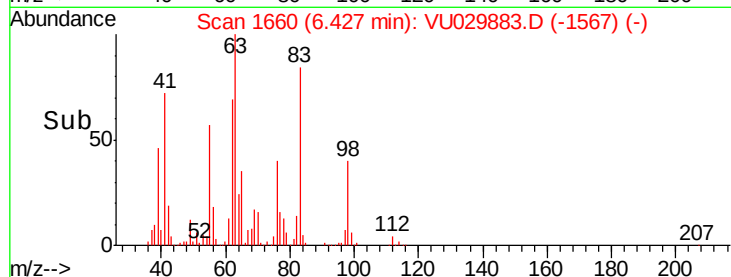
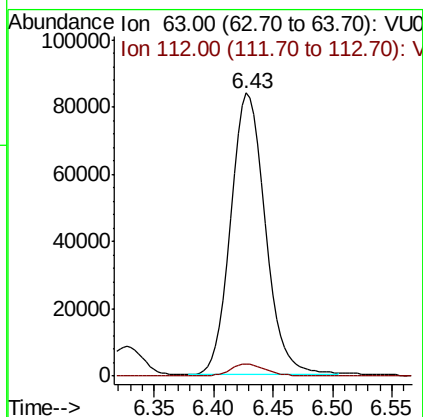
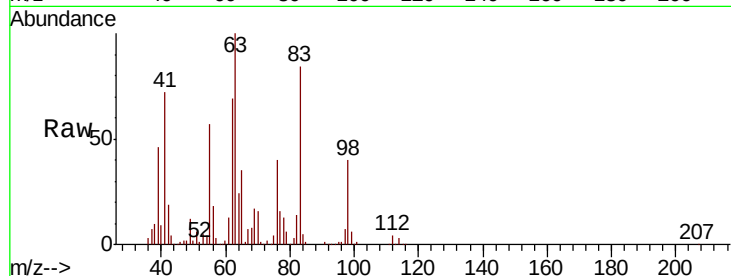




#37
 1,2-Dichloropropane
 Concen: 53.428 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

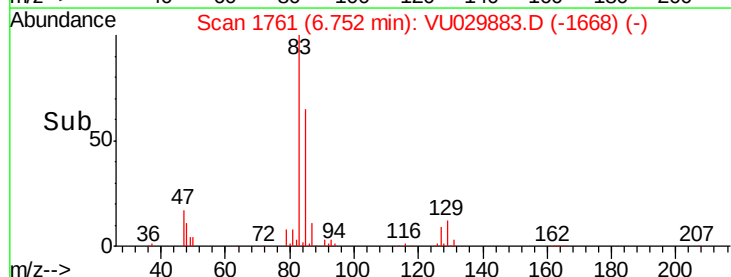
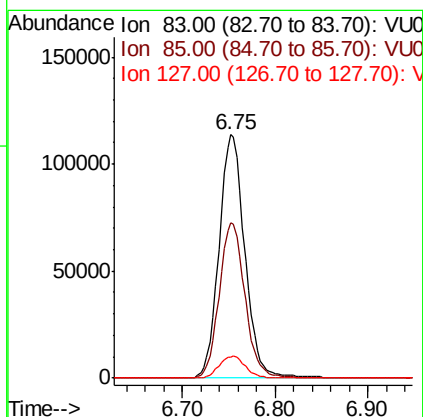
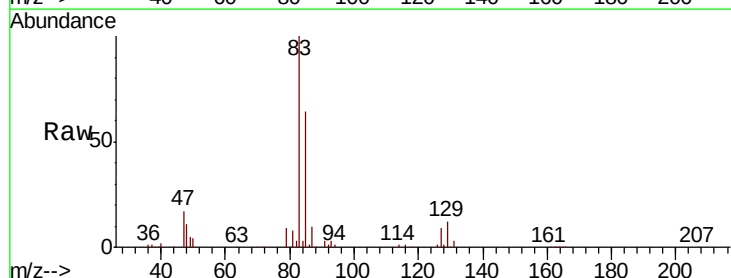
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

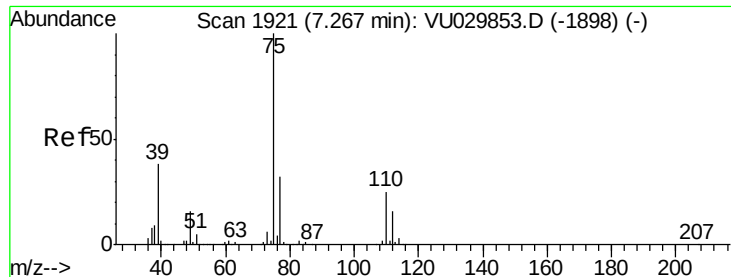
Tgt Ion: 63 Resp: 170039
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 51.133 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion: 83 Resp: 219391
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.2 82.0
 127 8.8 8.3 12.5

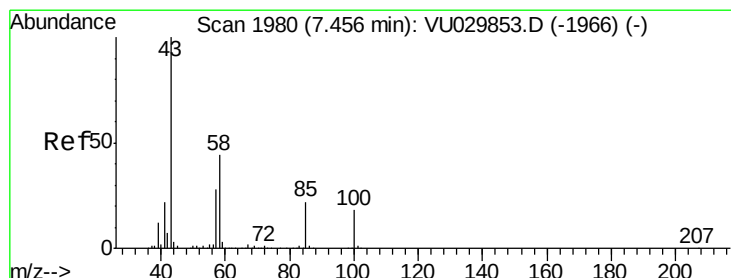
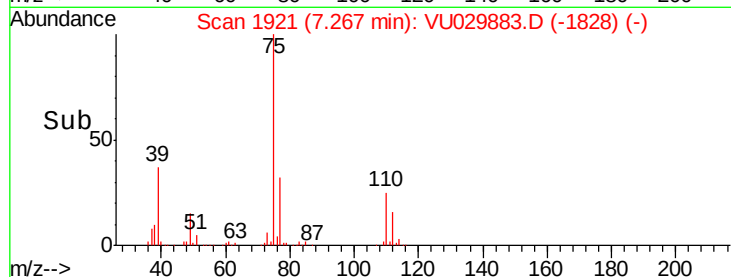
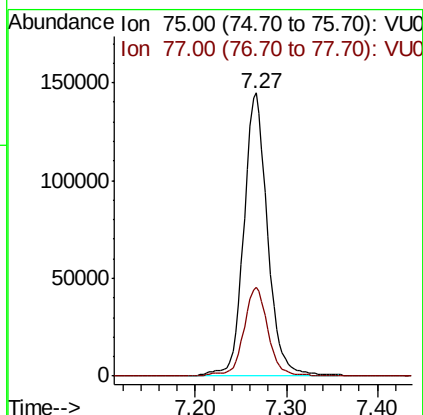
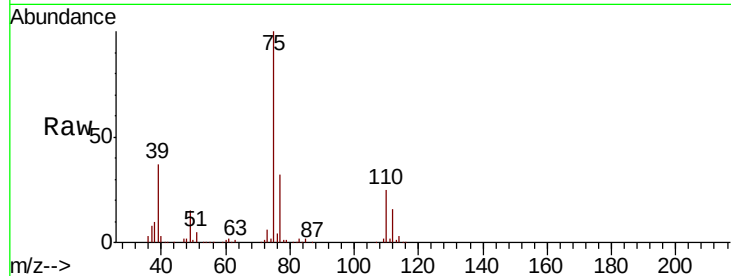




#39
 cis-1,3-Dichloropropene
 Concen: 51.288 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

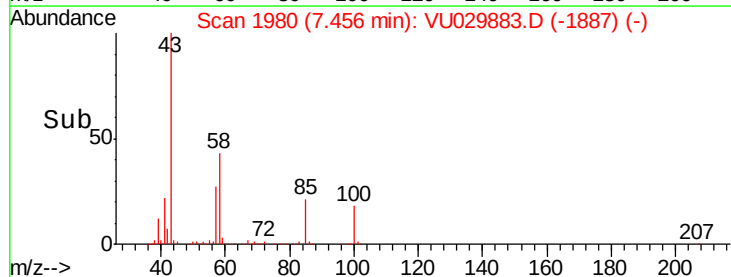
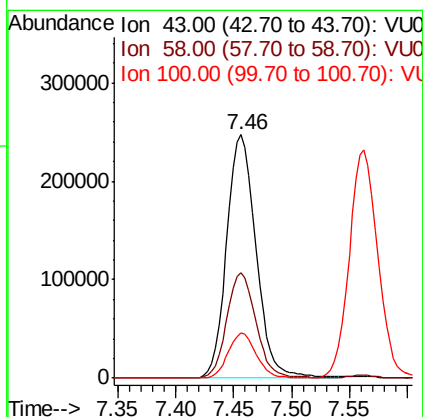
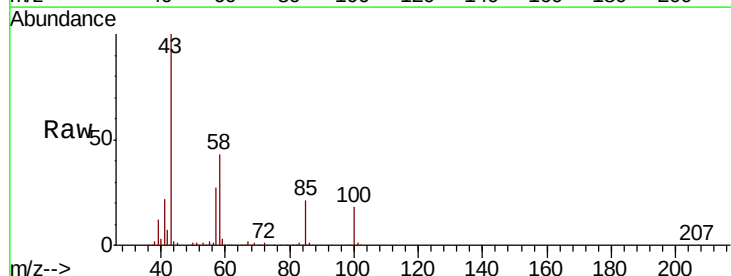
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

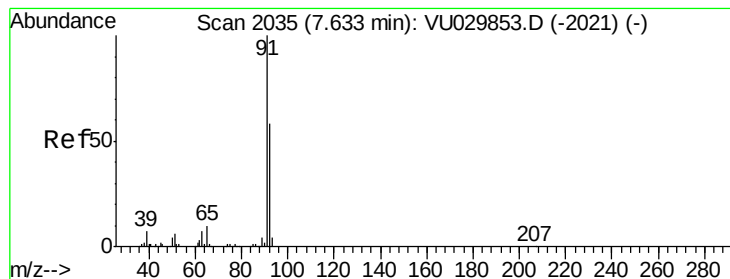
Tgt Ion: 75 Resp: 263350
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 96.950 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion: 43 Resp: 433889
 Ion Ratio Lower Upper
 43 100
 58 42.9 33.0 49.4
 100 17.9 14.5 21.7





#42

Toluene

Concen: 50.590 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

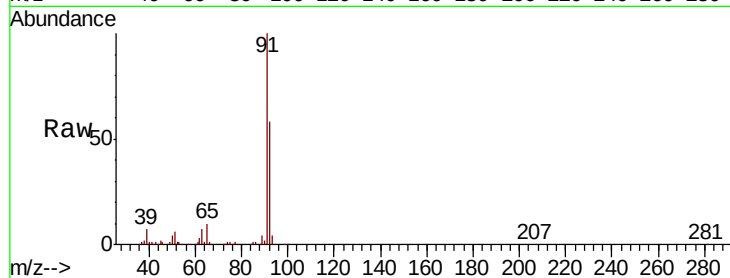
VSTD05053

Tgt Ion: 91 Resp: 725344

Ion Ratio Lower Upper

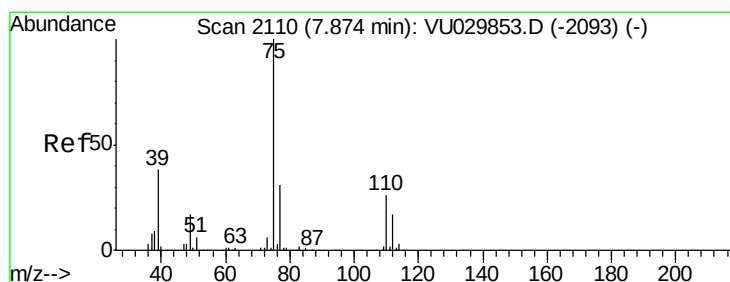
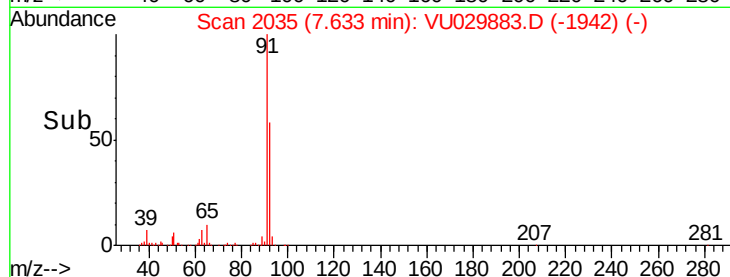
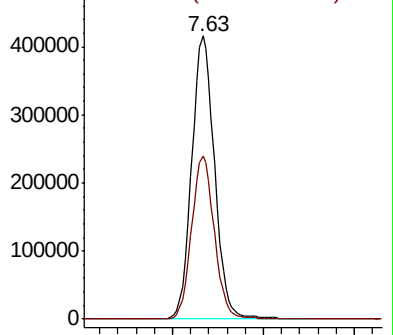
91 100

92 57.7 40.8 75.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 49.853 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU029883.D

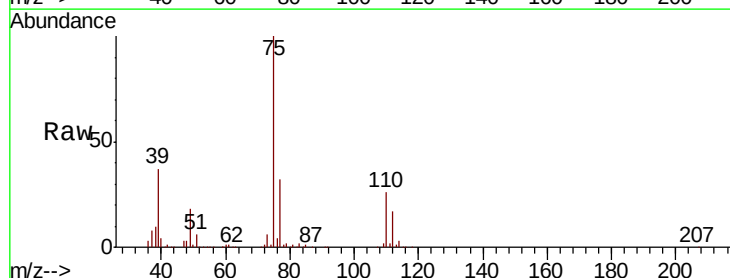
Acq: 08 Mar 2019 13:21

Tgt Ion: 75 Resp: 241247

Ion Ratio Lower Upper

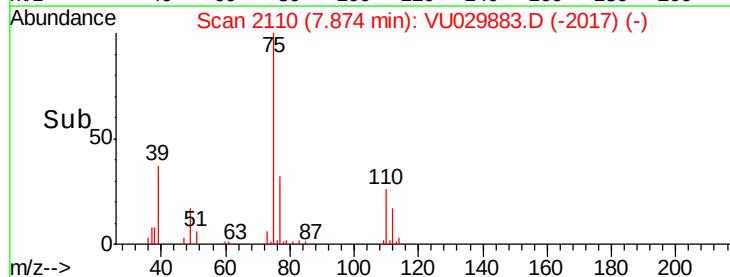
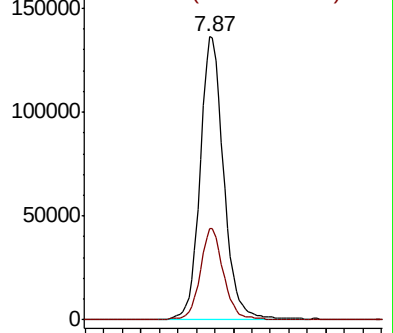
75 100

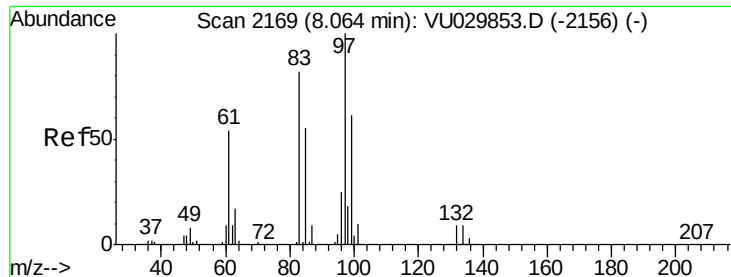
77 32.2 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

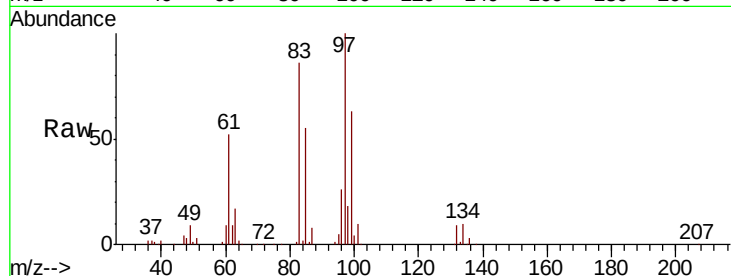




#45
 1,1,2-Trichloroethane
 Concen: 51.865 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Tgt Ion:	97	Resp:	175938
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.8	81.3
83	85.8	57.7	107.1
85	55.3	38.5	71.5



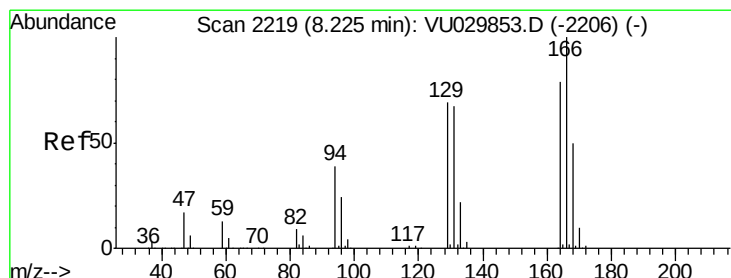
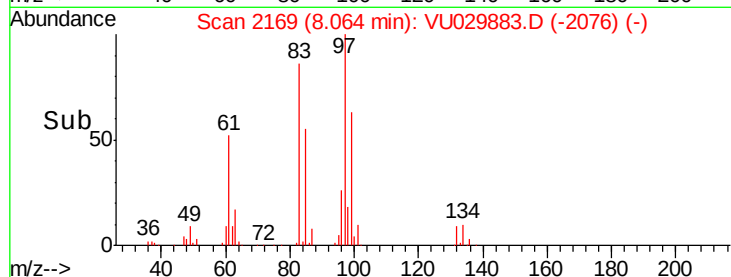
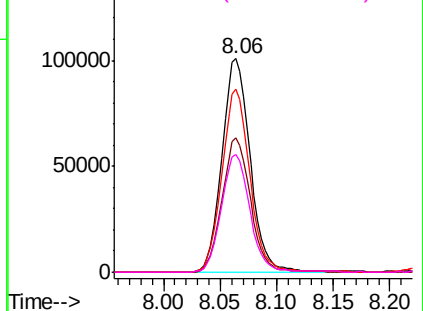
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

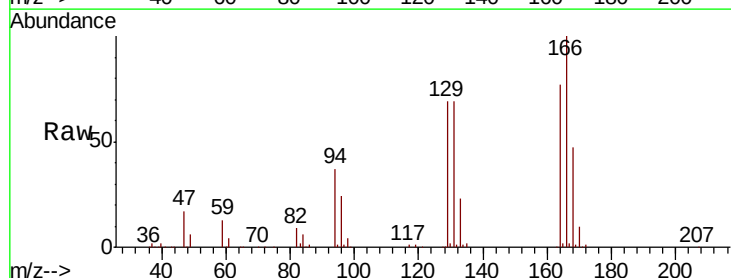
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 46.841 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion:	164	Resp:	149737
Ion	Ratio	Lower	Upper
164	100		
129	89.7	62.1	115.3
131	90.2	60.1	111.5
166	130.6	89.7	166.5



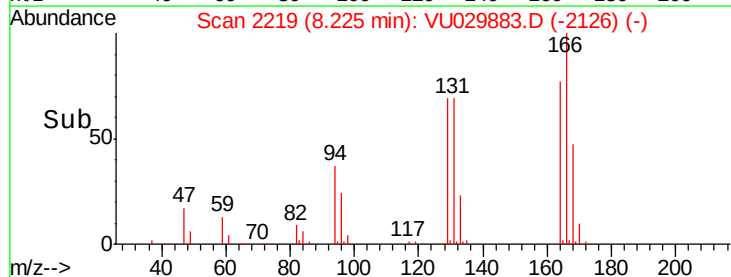
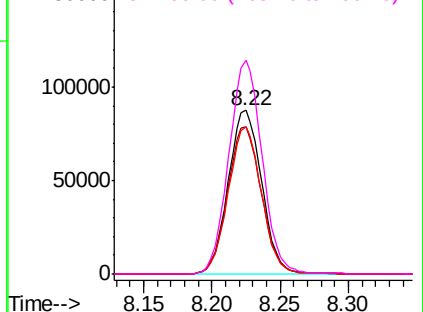
Abundance

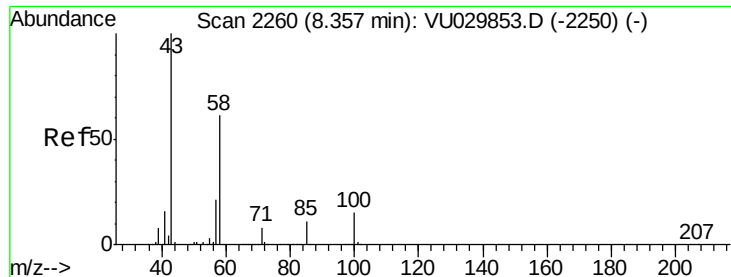
Ion 164.00 (163.70 to 164.70): V

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

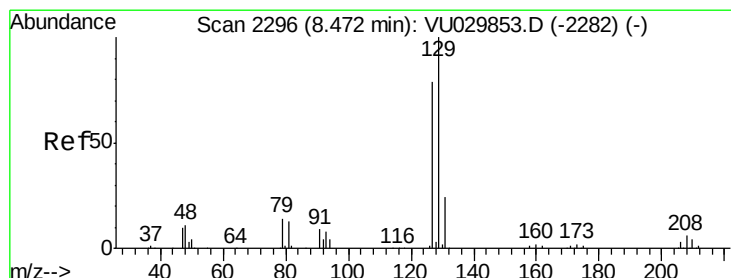
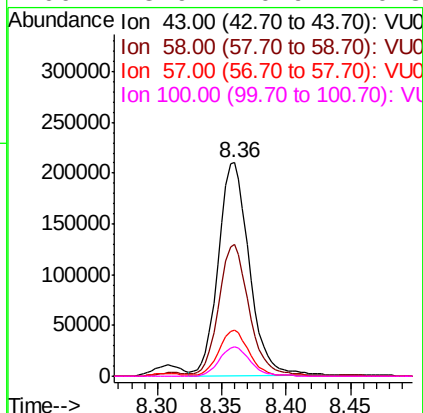
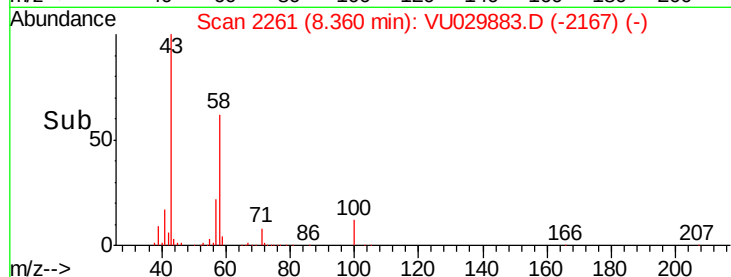
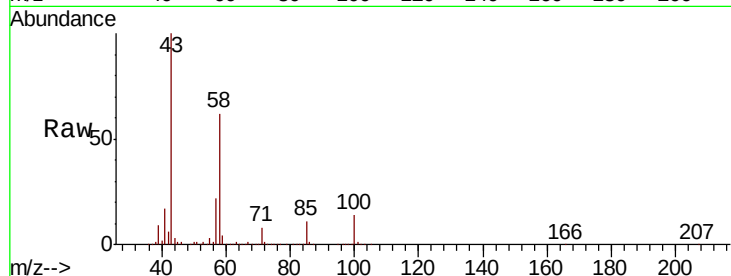




#48
2-Hexanone
Concen: 89.641 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

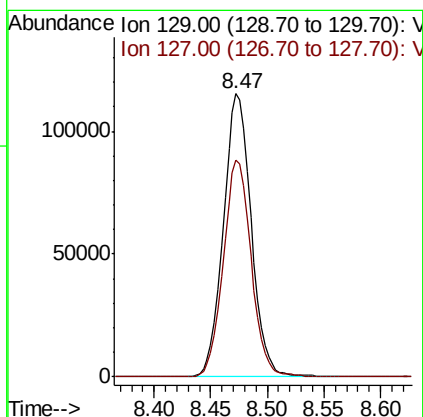
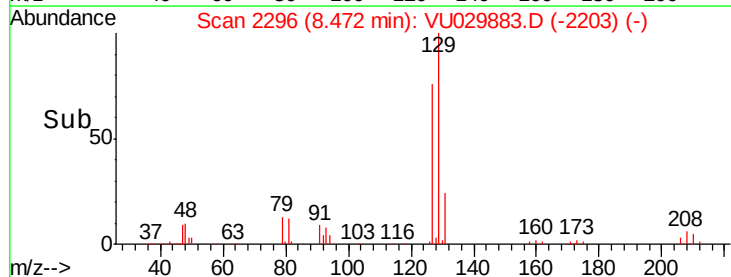
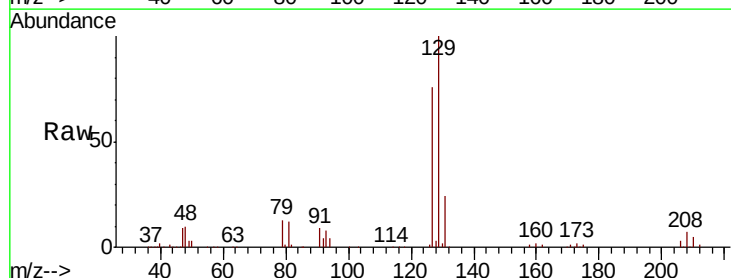
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

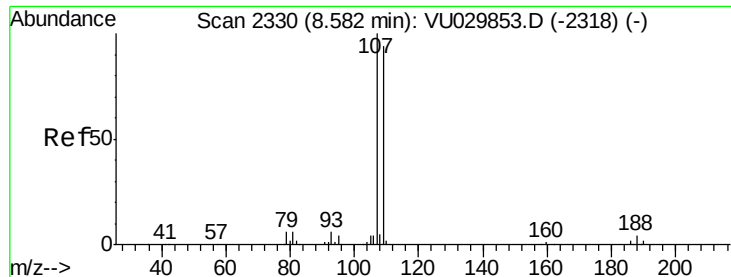
Tgt Ion: 43 Resp: 350461
Ion Ratio Lower Upper
43 100
58 60.5 46.4 69.6
57 20.6 15.7 23.5
100 13.9 10.9 16.3



#49
Dibromochloromethane
Concen: 48.043 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029883.D
Acq: 08 Mar 2019 13:21

Tgt Ion: 129 Resp: 197573
Ion Ratio Lower Upper
129 100
127 76.5 54.4 101.0





#50

1,2-Dibromoethane

Concen: 49.688 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

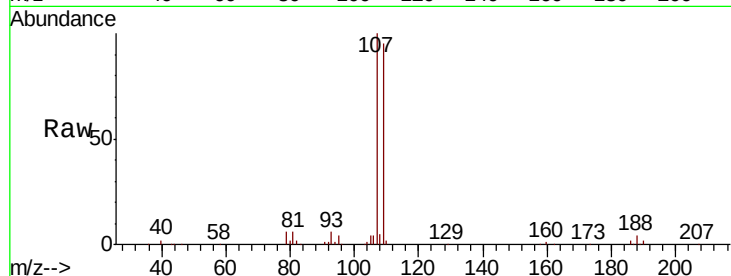
Tgt Ion:107 Resp: 186743

Ion Ratio Lower Upper

107 100

109 95.1 66.4 123.4

188 4.0 3.5 5.3

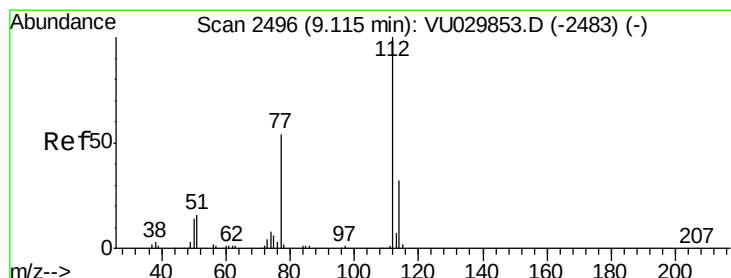
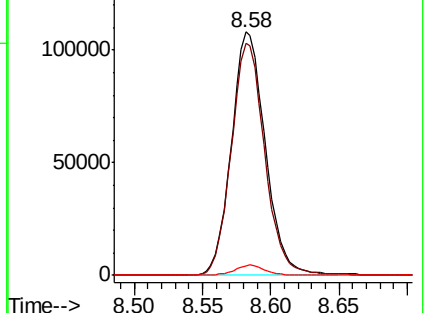
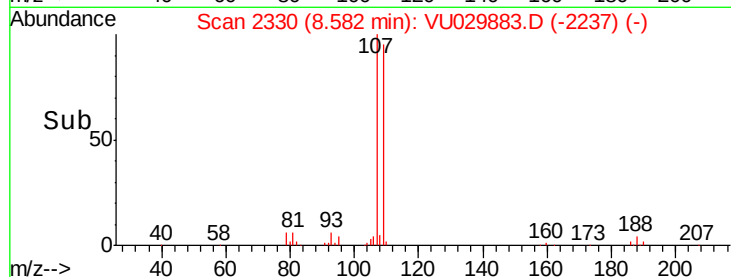


Abundance

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: 49.241 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

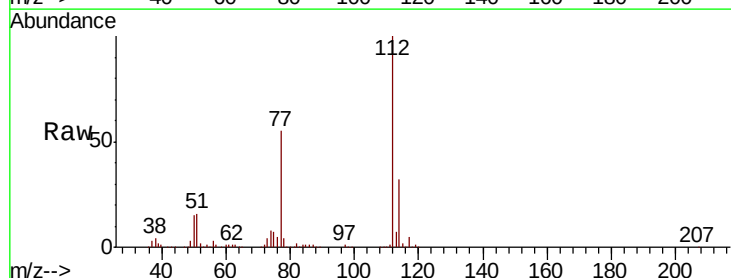
Tgt Ion:112 Resp: 484562

Ion Ratio Lower Upper

112 100

114 31.7 22.7 42.1

77 55.0 42.1 63.1

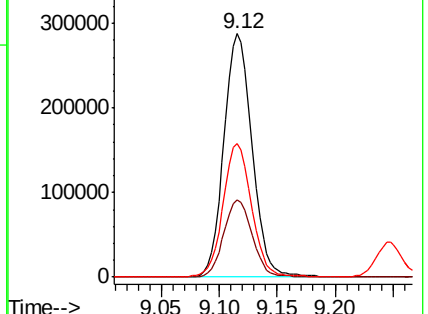
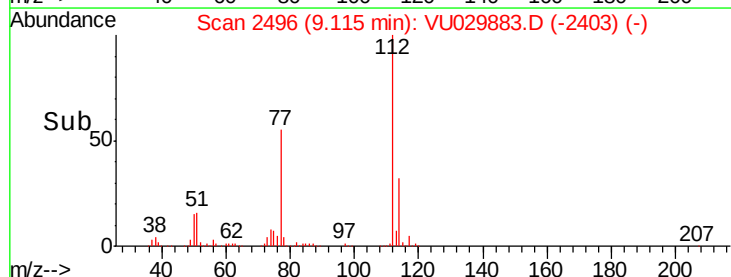


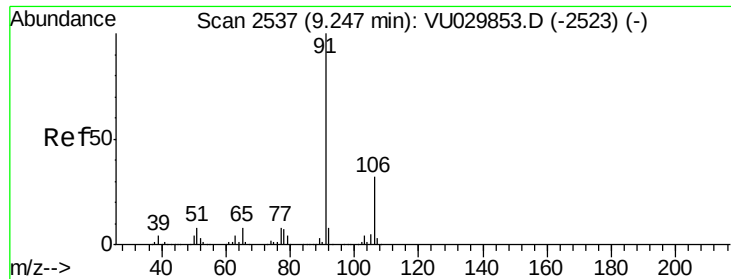
Abundance

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: 48.762 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

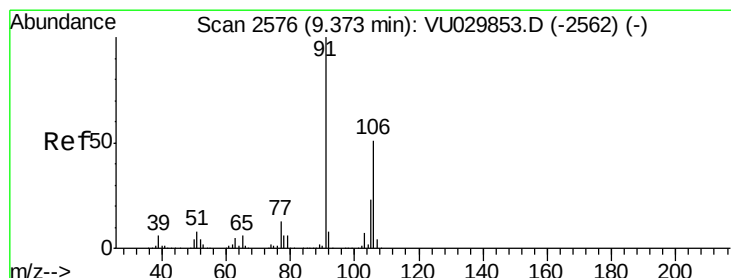
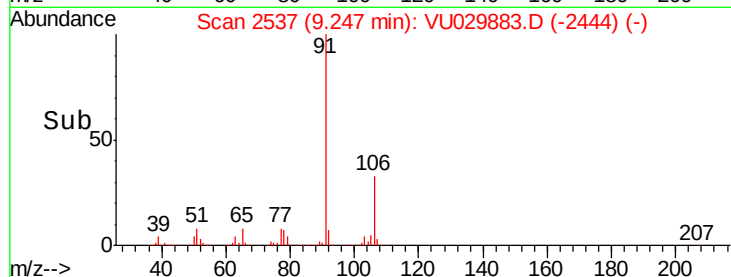
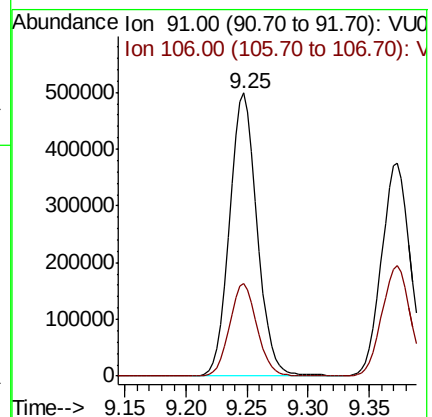
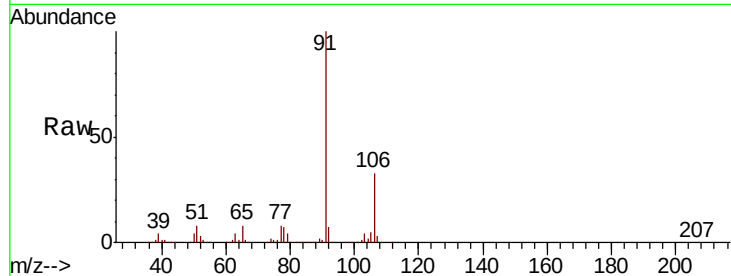
VSTD05053

Tgt Ion: 91 Resp: 794021

Ion Ratio Lower Upper

91 100

106 32.9 22.7 42.1



#53

m,p-Xylene

Concen: 48.261 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029883.D

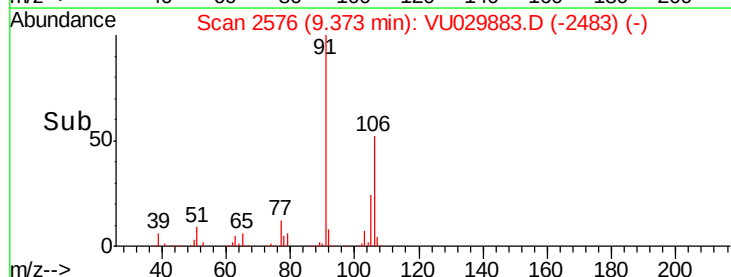
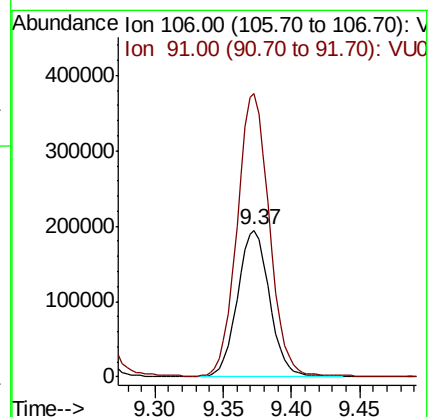
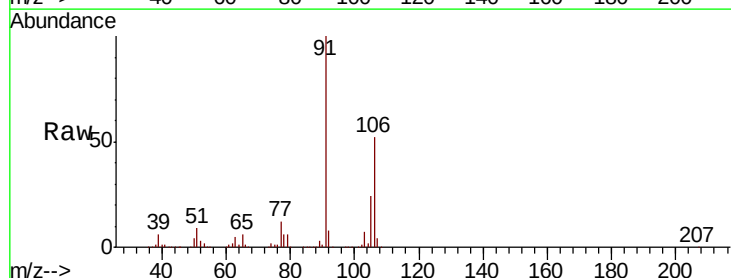
Acq: 08 Mar 2019 13:21

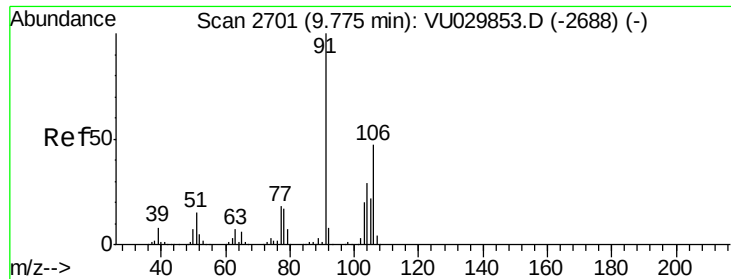
Tgt Ion: 106 Resp: 315461

Ion Ratio Lower Upper

106 100

91 193.2 135.3 251.3





#54

o-xylene

Concen: 48.088 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

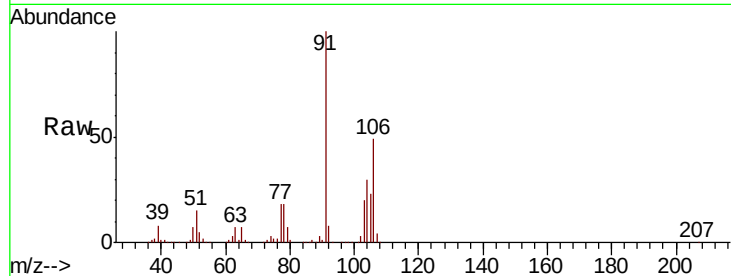
VSTD05053

Tgt Ion:106 Resp: 315737

Ion Ratio Lower Upper

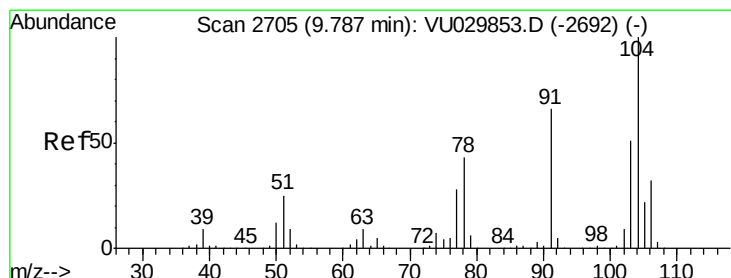
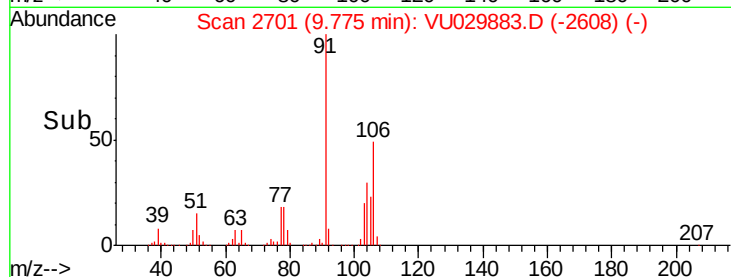
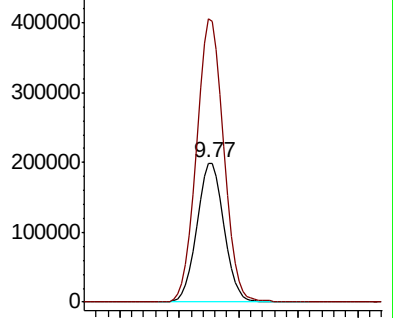
106 100

91 203.4 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.143 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029883.D

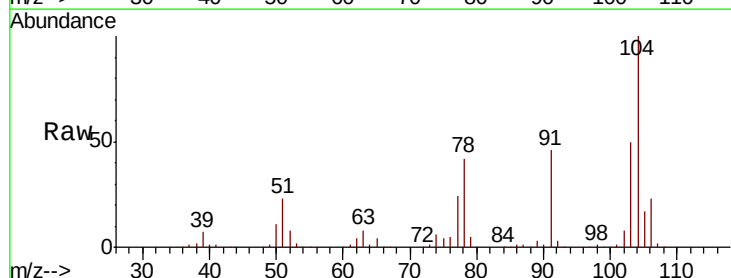
Acq: 08 Mar 2019 13:21

Tgt Ion:104 Resp: 533612

Ion Ratio Lower Upper

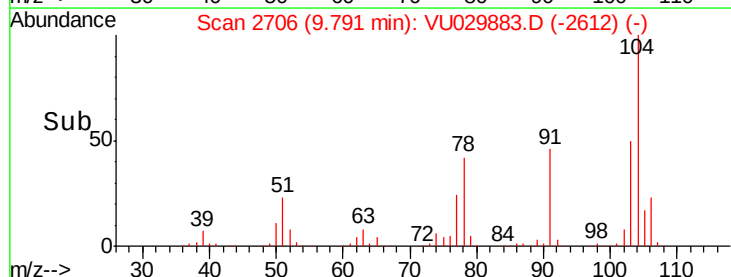
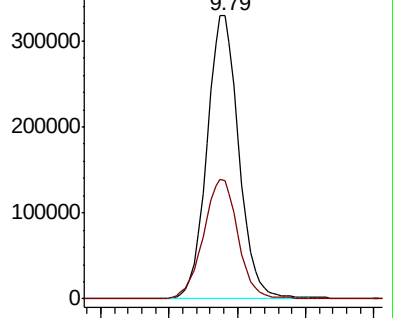
104 100

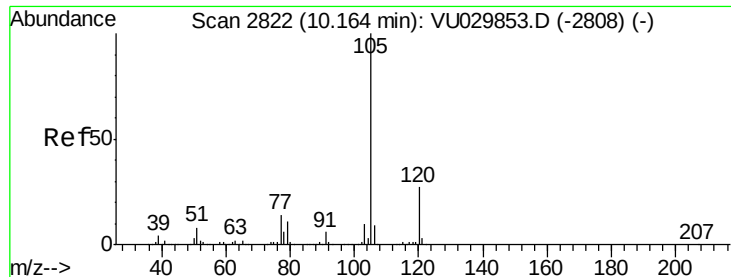
78 41.6 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.348 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

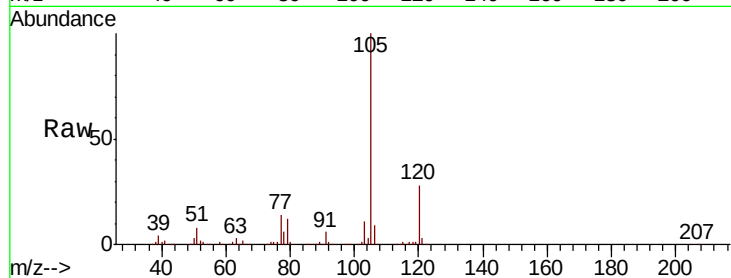
Tgt Ion: 105 Resp: 813483

Ion Ratio Lower Upper

105 100

120 27.4 21.9 32.9

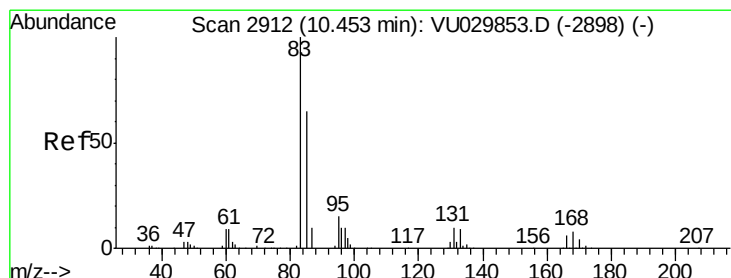
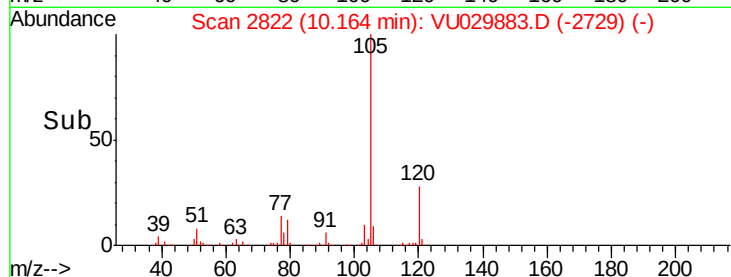
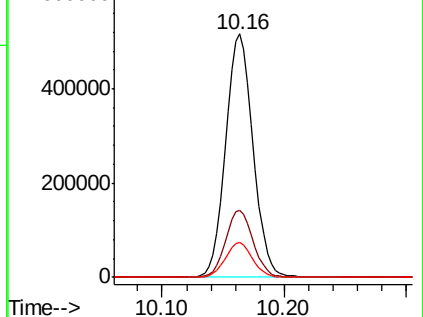
77 14.4 11.7 17.5



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: 48.531 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

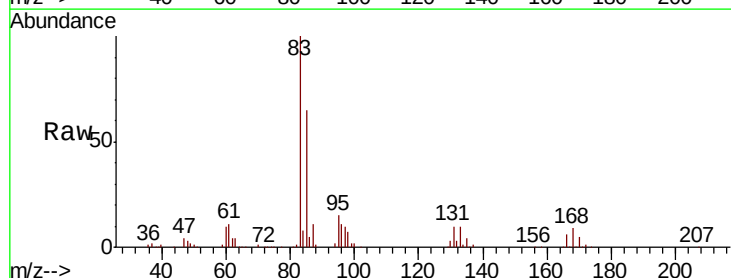
Tgt Ion: 83 Resp: 291114

Ion Ratio Lower Upper

83 100

85 65.1 45.5 84.5

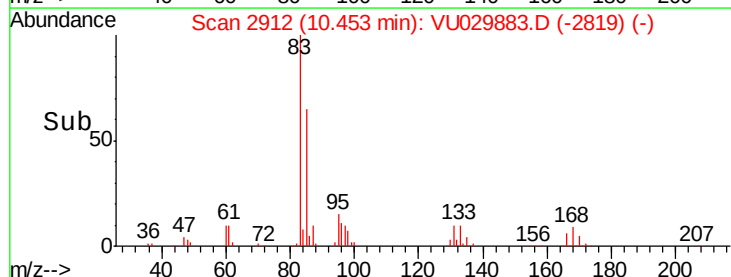
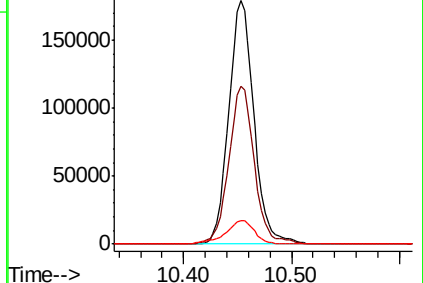
131 9.9 8.6 12.8

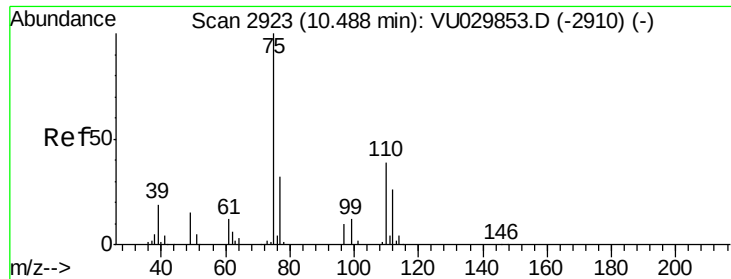


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

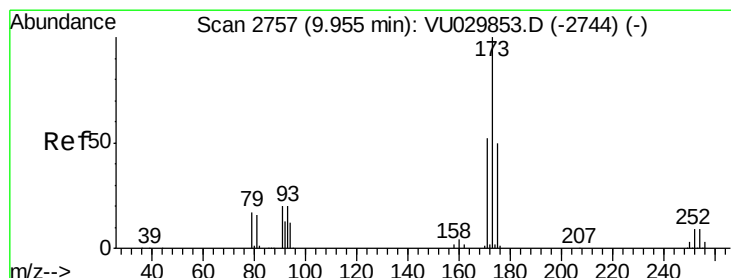
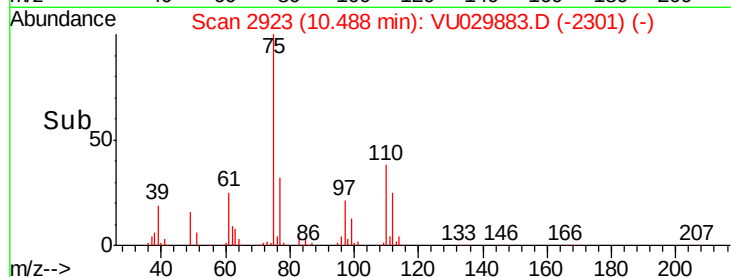
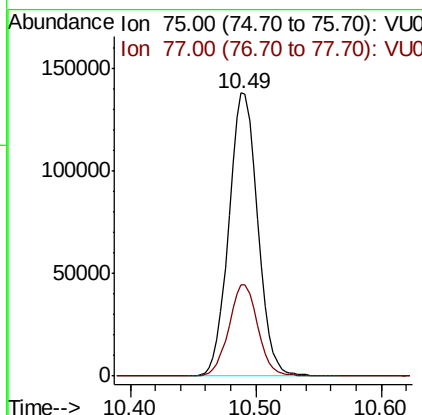
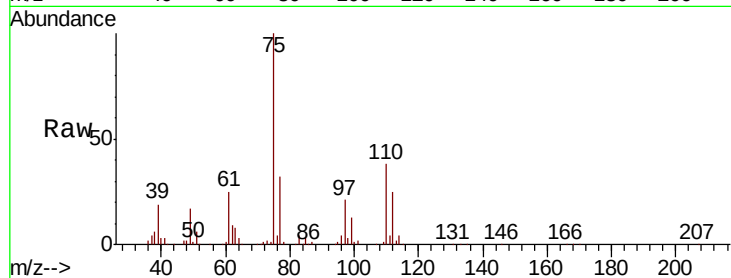




#59
 1,2,3-Trichloropropane
 Concen: 48.615 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

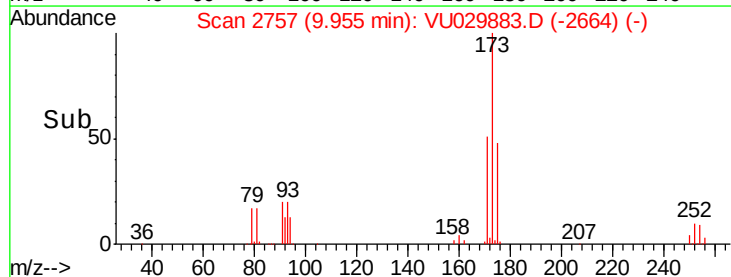
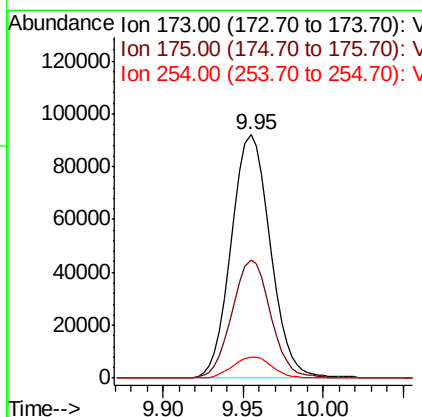
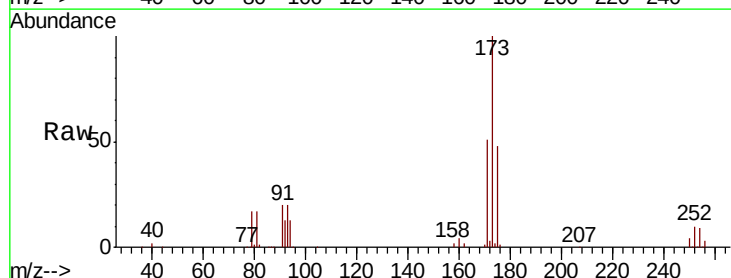
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

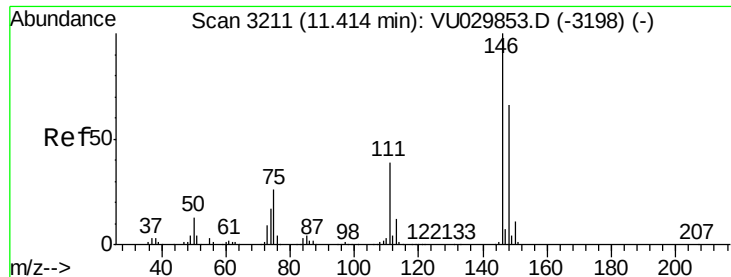
Tgt Ion: 75 Resp: 220601
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.7 38.5



#61
 Bromoform
 Concen: 46.046 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion: 173 Resp: 153430
 Ion Ratio Lower Upper
 173 100
 175 48.2 39.0 58.4
 254 8.6 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 50.137 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

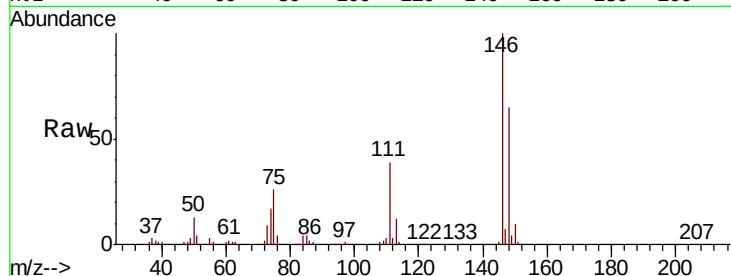
Tgt Ion:146 Resp: 395536

Ion Ratio Lower Upper

146 100

111 38.6 26.7 49.5

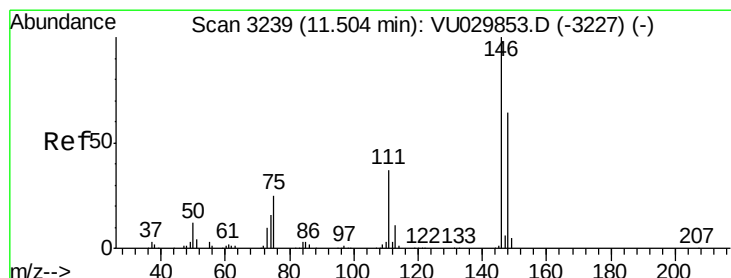
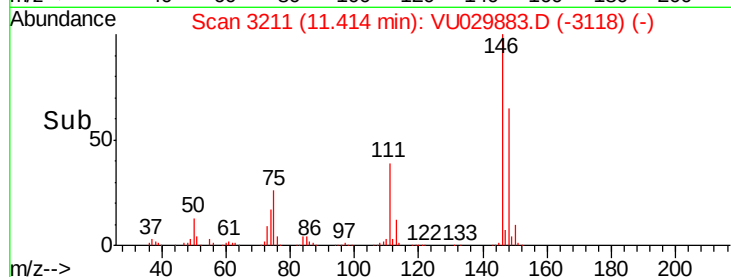
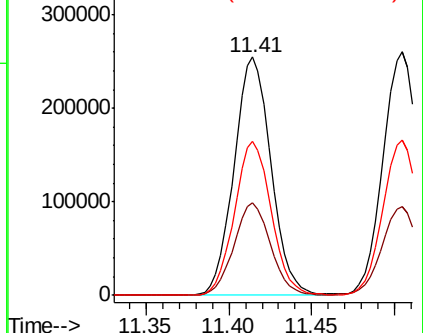
148 64.7 45.9 85.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.943 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

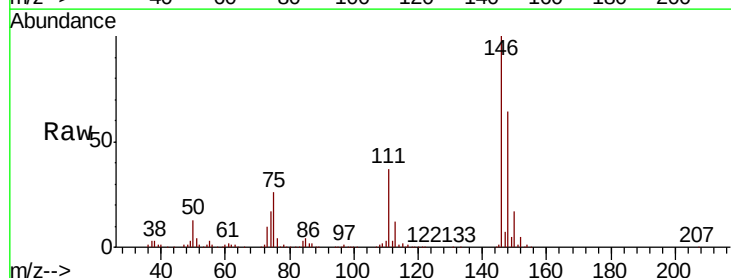
Tgt Ion:146 Resp: 404448

Ion Ratio Lower Upper

146 100

111 36.7 25.1 46.5

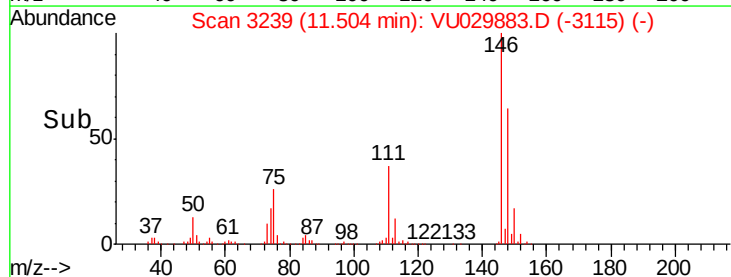
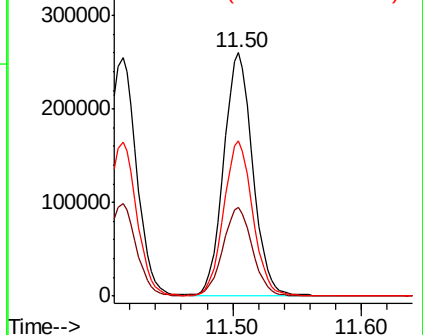
148 64.0 45.0 83.6

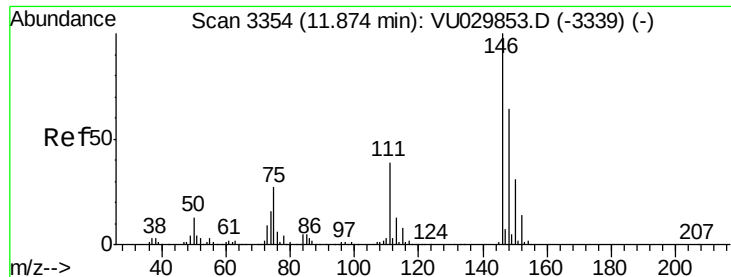


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

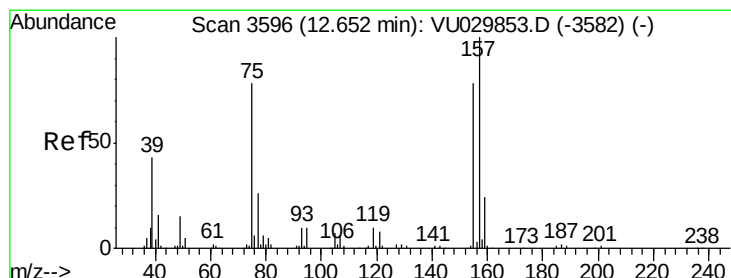
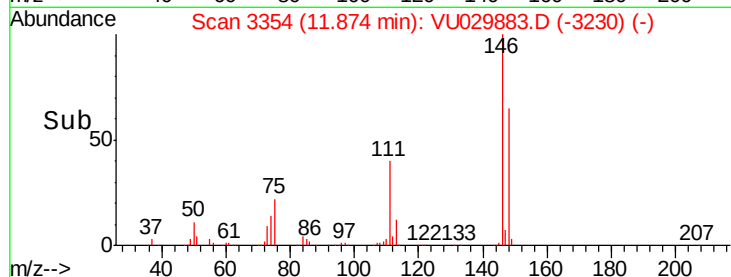
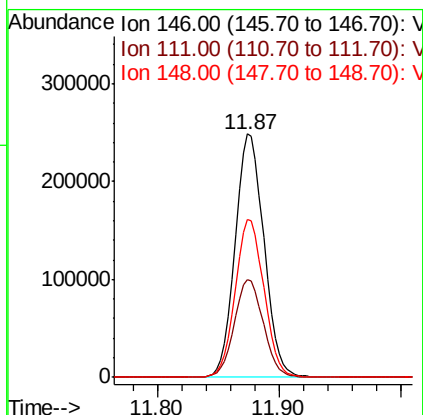
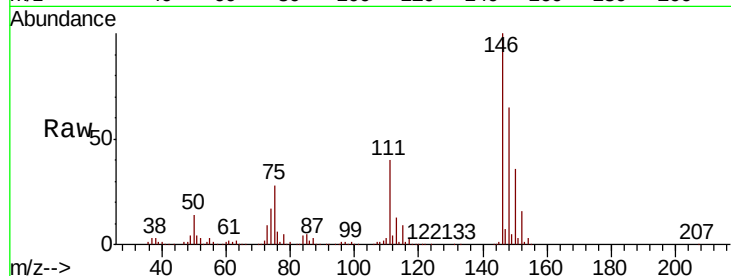




#65
 1,2-Dichlorobenzene
 Concen: 49.483 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

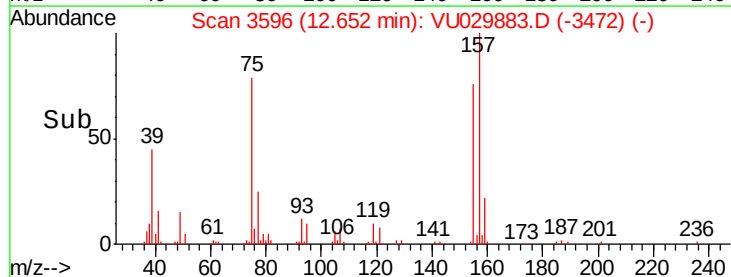
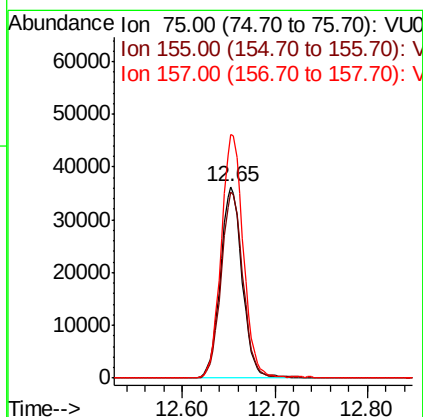
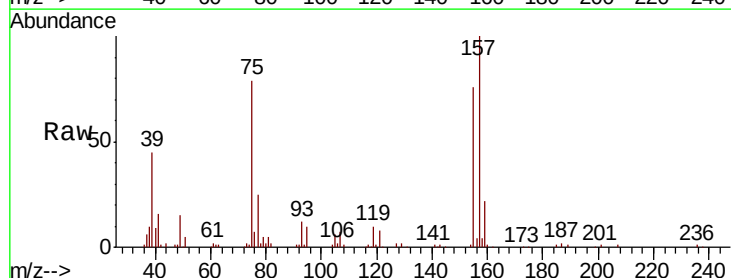
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

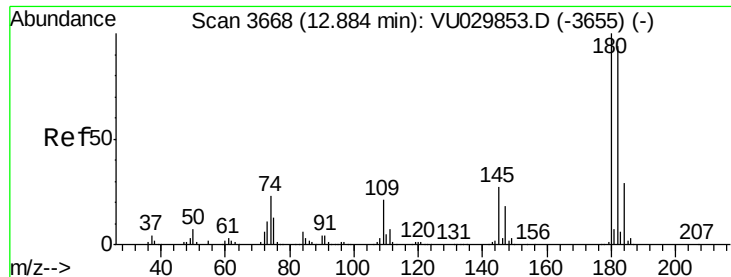
Tgt Ion: 146 Resp: 407498
 Ion Ratio Lower Upper
 146 100
 111 40.3 31.2 46.8
 148 64.8 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.486 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion: 75 Resp: 59572
 Ion Ratio Lower Upper
 75 100
 155 96.9 79.5 119.3
 157 127.2 103.4 155.0

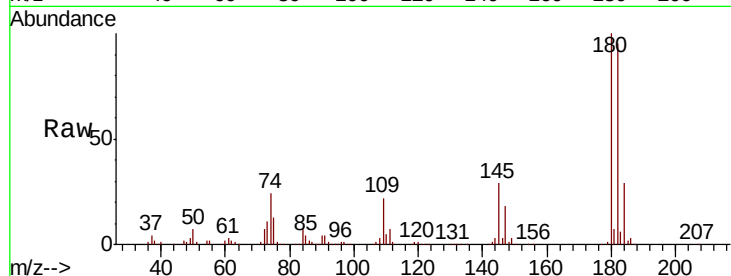




#67
 1,3,5-Trichlorobenzene
 Concen: 51.765 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Tgt Ion:	180	Resp:	311637
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.9	116.9
184	30.2	24.5	36.7
145	28.2	22.4	33.6



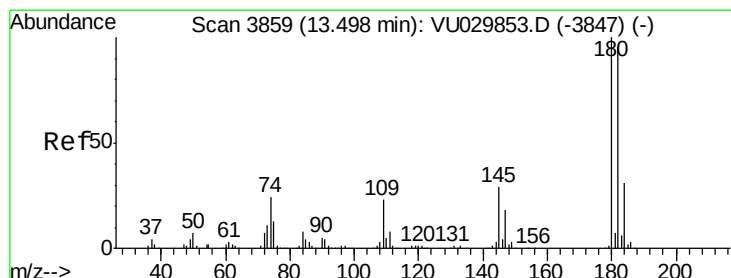
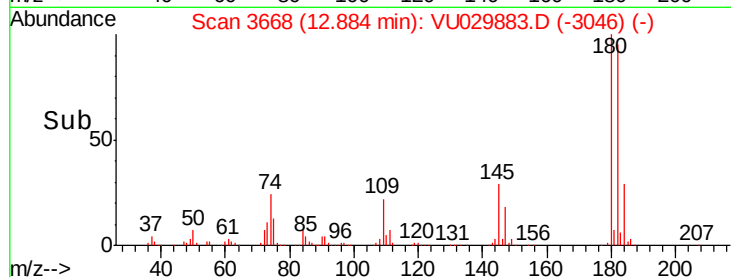
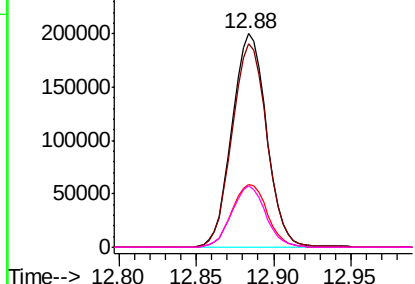
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

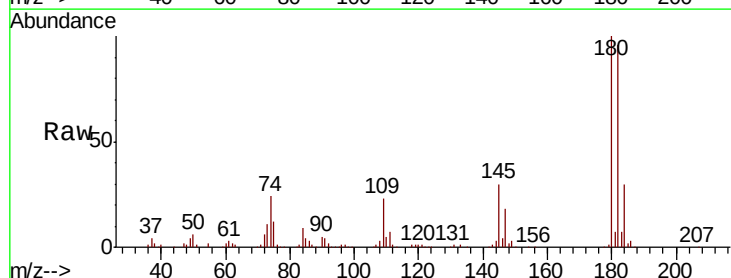
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.610 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029883.D
 Acq: 08 Mar 2019 13:21

Tgt Ion:	180	Resp:	273939
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.2	114.2
145	28.6	22.7	34.1

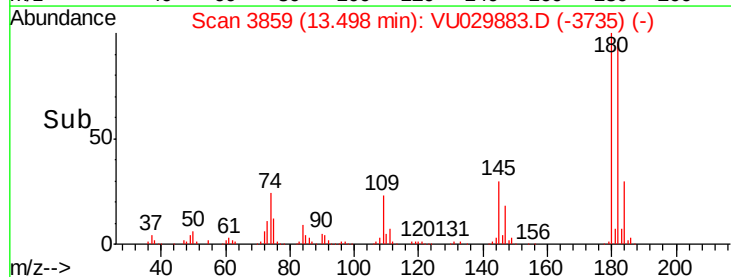
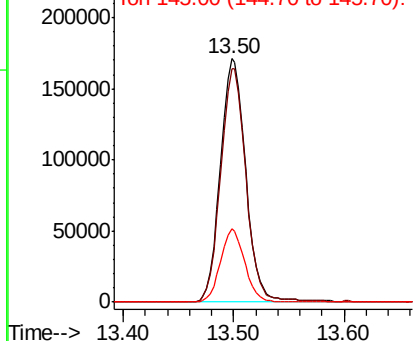


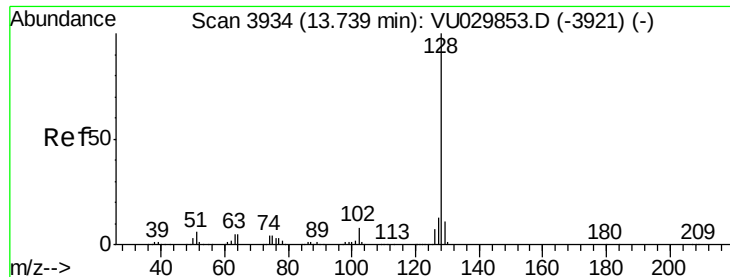
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.001 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

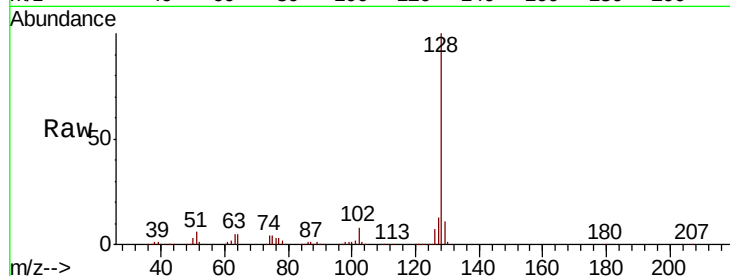
Tgt Ion:128 Resp: 816253

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

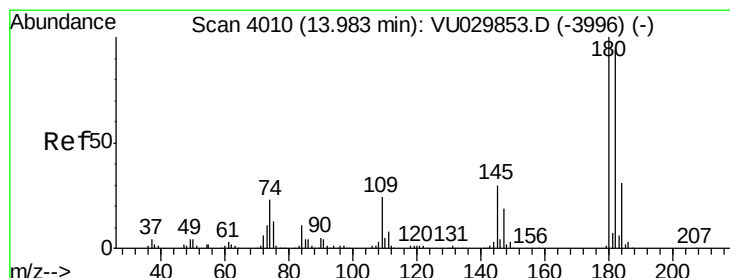
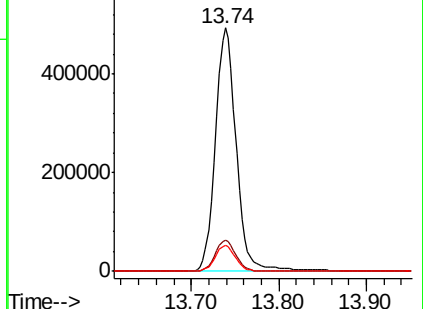
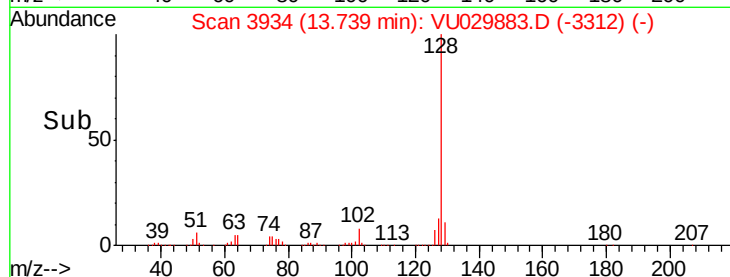
129 10.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.586 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029883.D

Acq: 08 Mar 2019 13:21

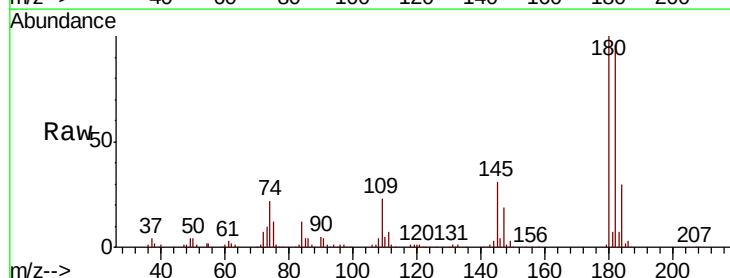
Tgt Ion:180 Resp: 285245

Ion Ratio Lower Upper

180 100

182 94.4 76.8 115.2

145 30.5 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

