

Data File : VU032989.D
Acq On : 22 Jun 2019 09:38
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 60 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Quant Time: Jun 24 02:05:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Jun 24 02:01:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	198497	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	196253	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	103000	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	58694	43.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.54%
7) Chloroethane-d5	1.67	69	49981	46.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.40%
11) 1,1-Dichloroethene-d2	2.27	63	130865	47.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.78%
21) 2-Butanone-d5	4.17	46	127878	113.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.26%
24) Chloroform-d	4.64	84	135346	51.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.64%
26) 1,2-Dichloroethane-d4	5.30	65	92194	52.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.96%
32) Benzene-d6	5.33	84	255100	49.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.72%
36) 1,2-Dichloropropane-d6	6.32	67	81763	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.34%
41) Toluene-d8	7.56	98	241347	50.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.76%
43) trans-1,3-Dichloropropene-	7.84	79	38962	45.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.92%
47) 2-Hexanone-d5	8.31	63	81242	106.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.76%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	127078	50.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.88%
64) 1,2-Dichlorobenzene-d4	11.85	152	100380	50.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	99950	49.849 ug/L	100
3) Chloromethane	1.32	50	83437	45.913 ug/L	99
5) Vinyl chloride	1.40	62	87778	48.697 ug/L	98
6) Bromomethane	1.62	94	35231	33.216 ug/L	100
8) Chloroethane	1.69	64	51844	49.966 ug/L	100
9) Trichlorofluoromethane	1.88	101	124805	49.353 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	61264	46.187 ug/L	97
12) 1,1-Dichloroethene	2.28	96	58313	46.651 ug/L	95
13) Acetone	2.31	43	94306	60.471 ug/L	97
14) Carbon disulfide	2.47	76	181581	45.908 ug/L	99
15) Methyl Acetate	2.61	43	96635	54.664 ug/L	98
16) Methylene chloride	2.69	84	72741	49.593 ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	64929	47.900 ug/L	97
18) Methyl tert-butyl Ether	2.99	73	223653	51.390 ug/L	98
19) 1,1-Dichloroethane	3.44	63	134294	51.967 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	76562	51.847 ug/L	95
22) 2-Butanone	4.25	43	140322	86.811 ug/L	99

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	39550	51.340	ug/L	98
25) Chloroform	4.67	83	139106	52.198	ug/L	96
27) 1,2-Dichloroethane	5.40	62	120405	54.997	ug/L	98
29) Cyclohexane	4.99	56	111496	48.655	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	121616	50.864	ug/L	98
31) Carbon tetrachloride	5.13	117	107535	49.429	ug/L	99
33) Benzene	5.38	78	284952	50.402	ug/L	100
34) Trichloroethene	6.18	95	75348	49.881	ug/L	98
35) Methylcyclohexane	6.41	83	111091	47.578	ug/L	98
37) 1,2-Dichloropropane	6.42	63	77890	50.225	ug/L	100
38) Bromodichloromethane	6.75	83	105660	50.669	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	115070	47.626	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	268992	108.643	ug/L	98
42) Toluene	7.63	91	313699	51.284	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	105766	46.606	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	73094	50.639	ug/L	97
46) Tetrachloroethene	8.22	164	59212	47.837	ug/L	97
48) 2-Hexanone	8.36	43	212205	97.140	ug/L	99
49) Dibromochloromethane	8.47	129	85237	48.984	ug/L	95
50) 1,2-Dibromoethane	8.58	107	80123	49.983	ug/L	99
51) Chlorobenzene	9.11	112	200248	49.748	ug/L	98
52) Ethylbenzene	9.24	91	343479	50.730	ug/L	98
53) m,p-Xylene	9.37	106	129262	50.600	ug/L	99
54) o-xylene	9.77	106	127852	51.249	ug/L	100
55) Styrene	9.79	104	220202	50.880	ug/L	98
56) Isopropylbenzene	10.16	105	339108	50.439	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	131211	50.236	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	107486	51.936	ug/L	100
61) Bromoform	9.95	173	65664	48.823	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	160041	49.988	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	164342	49.698	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	163832	50.117	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	33196	53.228	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	123553	48.029	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	108968	49.229	ug/L	98
69) Naphthalene	13.74	128	343811	50.518	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	116601	49.760	ug/L	99

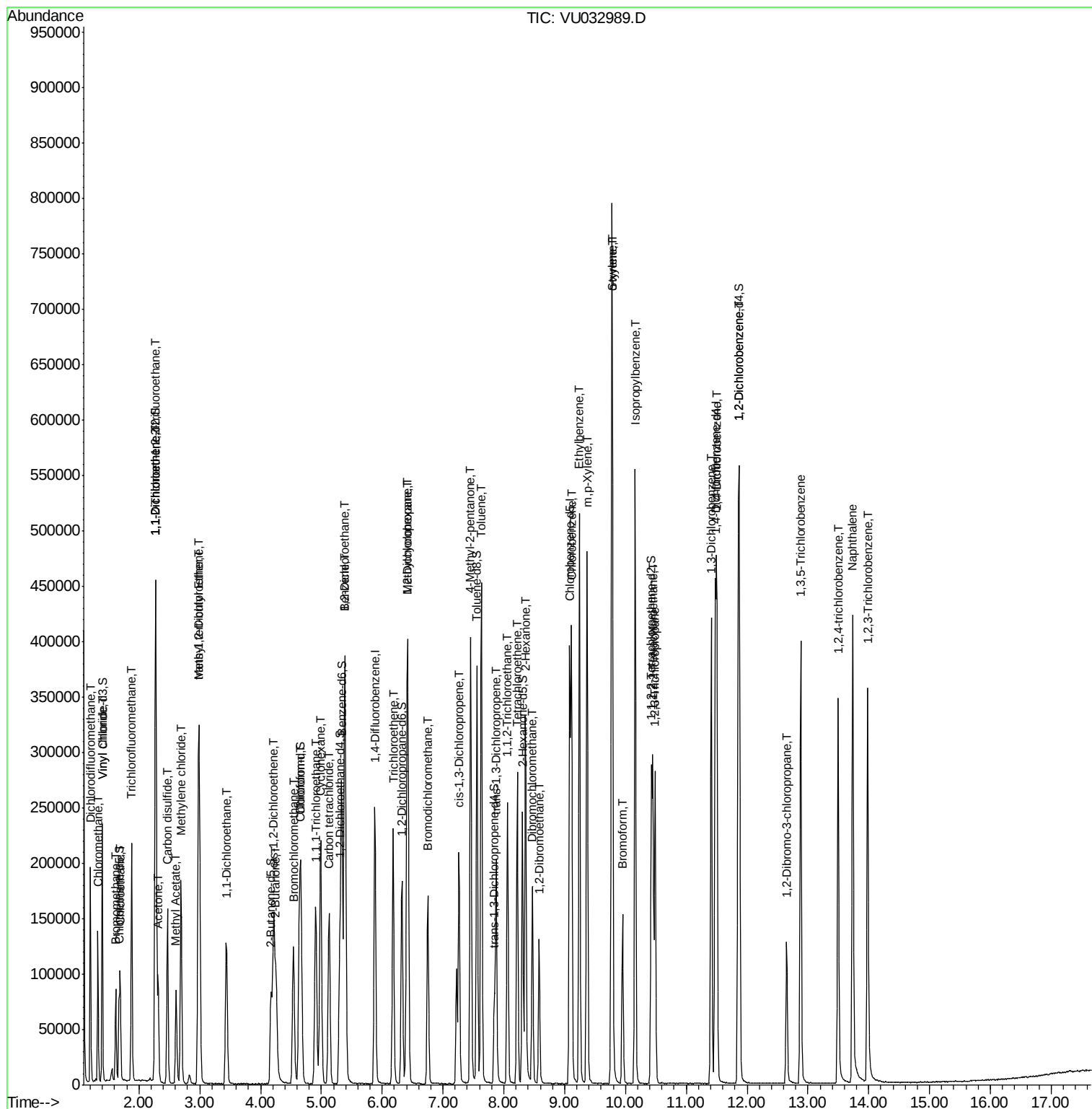
(#) = qualifier out of range (m) = manual integration (+) = signals summed

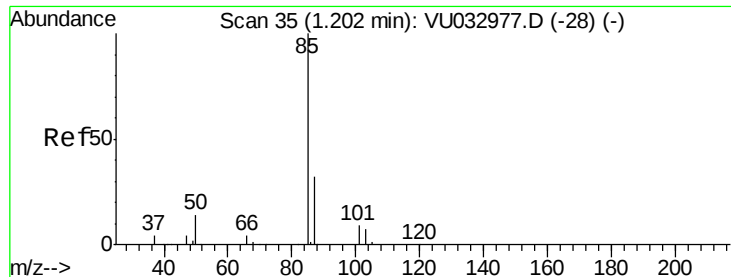
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#2

Dichlorodifluoromethane

Concen: 49.849 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

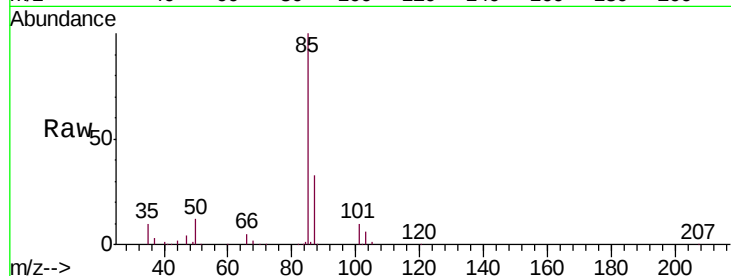
VSTD05059

Tgt Ion: 85 Resp: 99950

Ion Ratio Lower Upper

85 100

87 32.5 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032977.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032977.D (-28) (-)

1.20

100000

80000

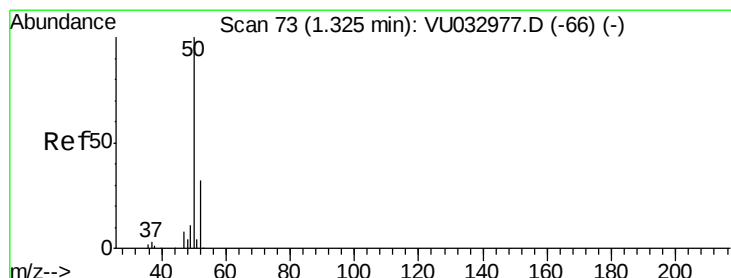
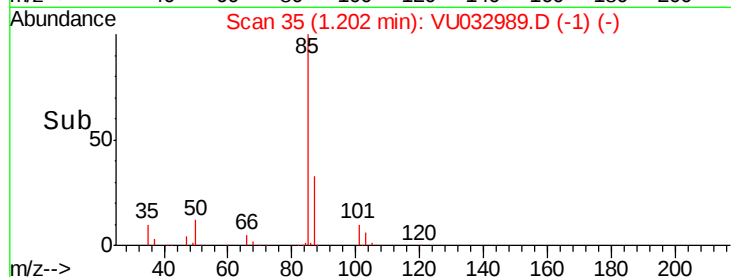
60000

40000

20000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 45.913 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032989.D

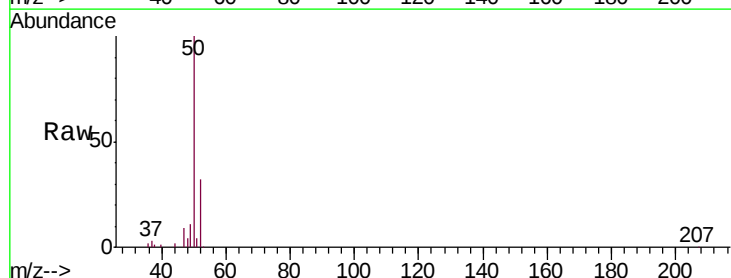
Acq: 22 Jun 2019 09:38

Tgt Ion: 50 Resp: 83437

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032977.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032977.D (-66) (-)

1.32

80000

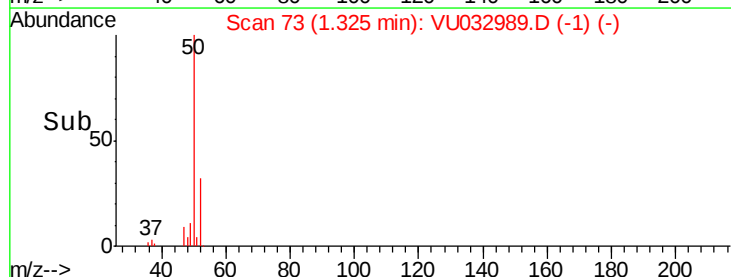
60000

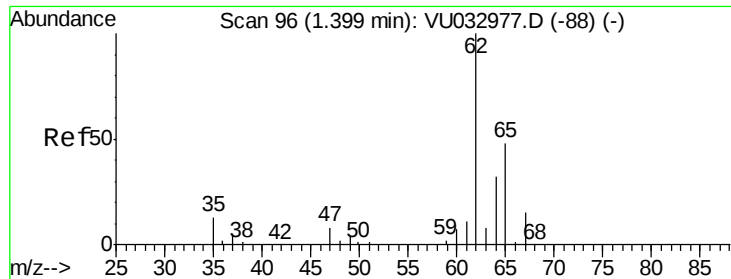
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 48.697 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

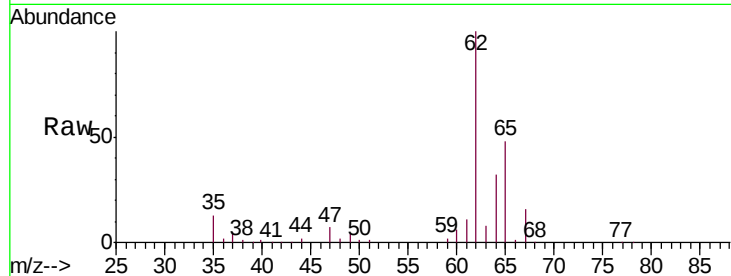
VSTD05059

Tgt Ion: 62 Resp: 87778

Ion Ratio Lower Upper

62 100

64 31.5 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032977.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032977.D (-88) (-)

1.40

80000

60000

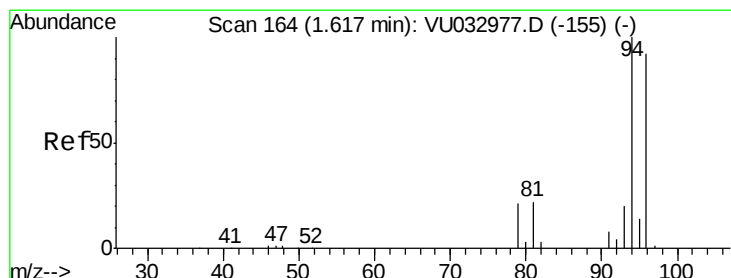
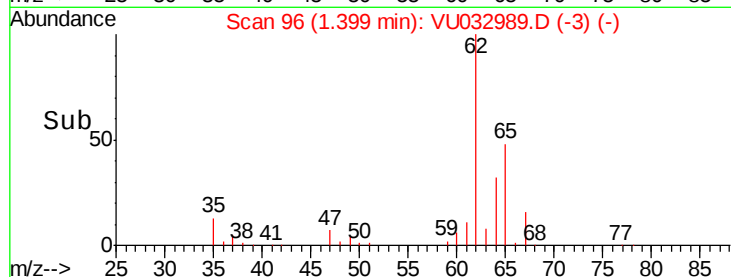
40000

20000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 33.216 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU032989.D

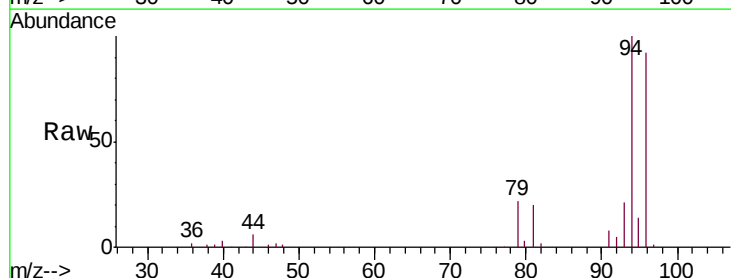
Acq: 22 Jun 2019 09:38

Tgt Ion: 94 Resp: 35231

Ion Ratio Lower Upper

94 100

96 92.3 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU032977.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU032977.D (-155) (-)

1.62

30000

25000

20000

15000

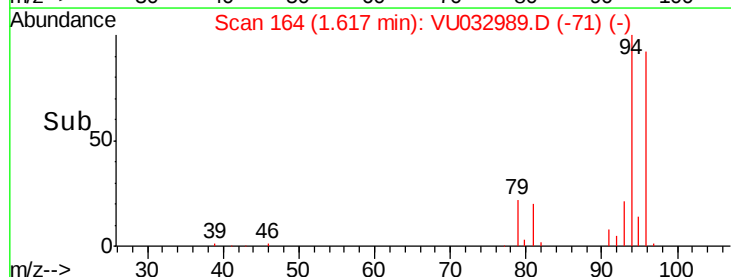
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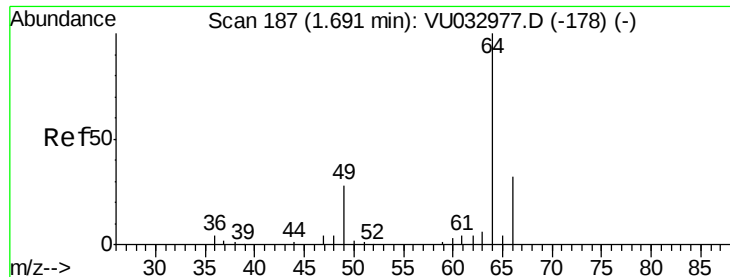
5000

0

Time-->

1.55 1.60 1.65 1.70

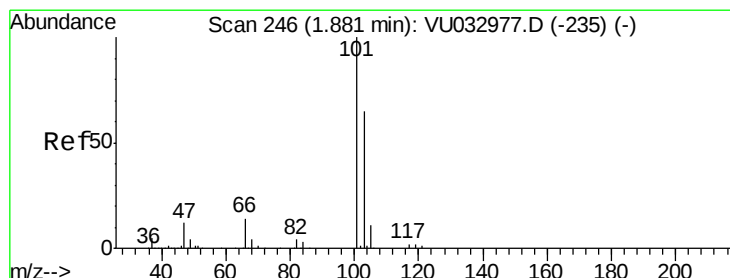
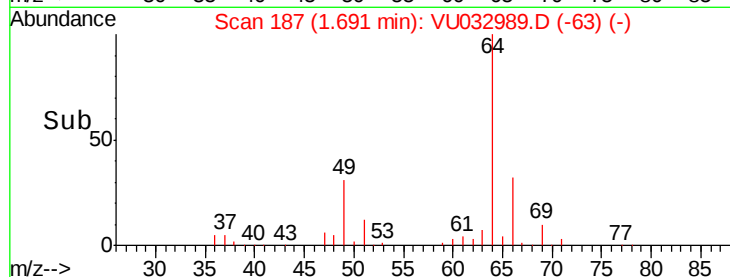
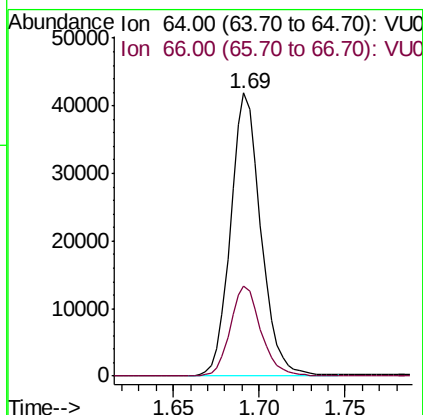
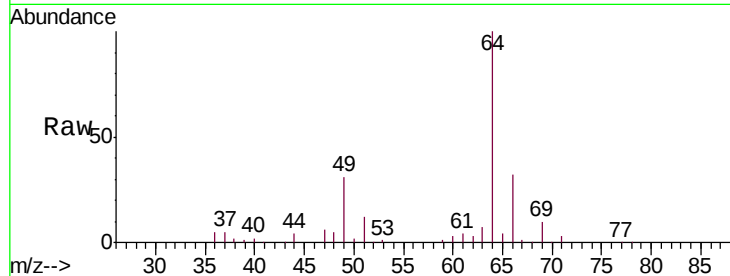




#8
Chloroethane
Concen: 49.966 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

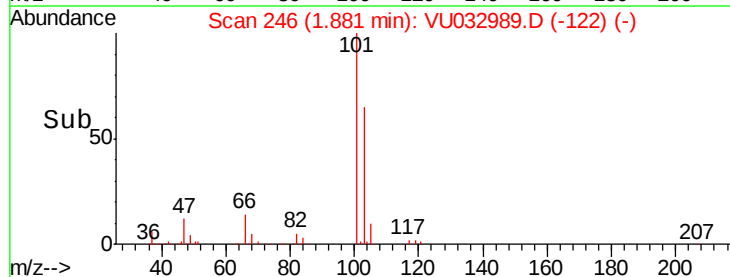
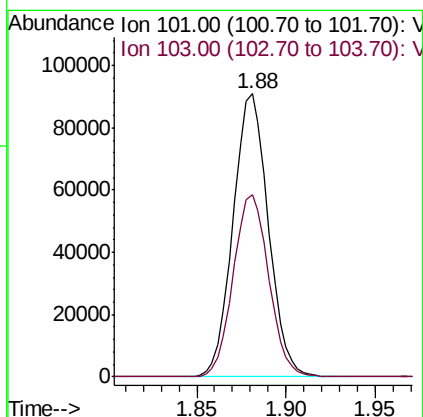
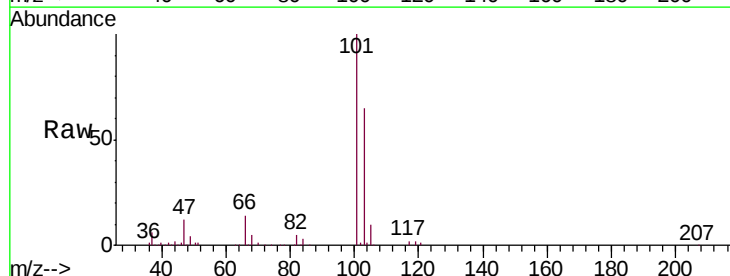
Instrument :
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VSTD05059

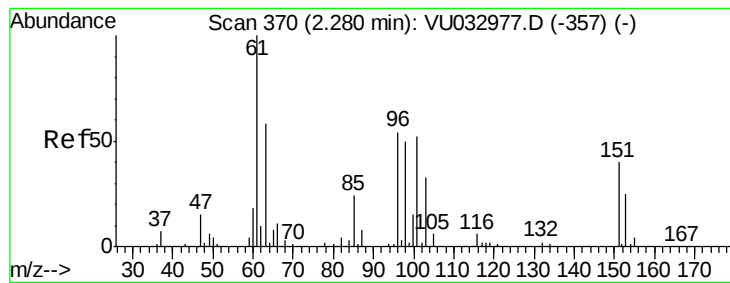
Tgt Ion: 64 Resp: 51844
Ion Ratio Lower Upper
64 100
66 32.0 22.5 41.7



#9
Trichlorofluoromethane
Concen: 49.353 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Tgt Ion: 101 Resp: 124805
Ion Ratio Lower Upper
101 100
103 65.0 51.3 76.9





#10

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

Concen: 46.187 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

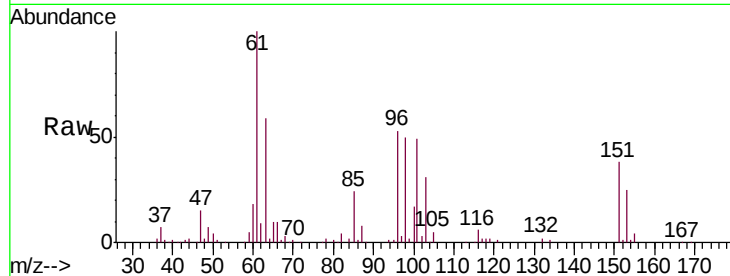
Tgt Ion:101 Resp: 61264

Ion Ratio Lower Upper

101 100

85 47.8 36.8 55.2

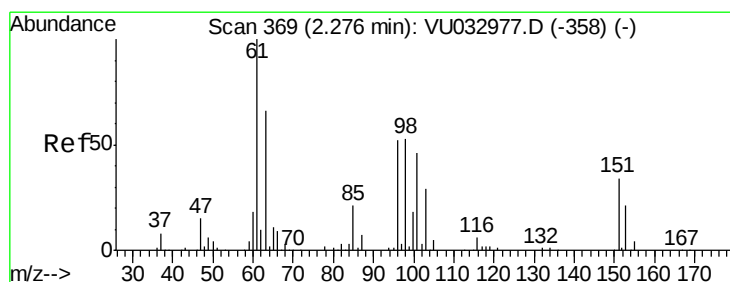
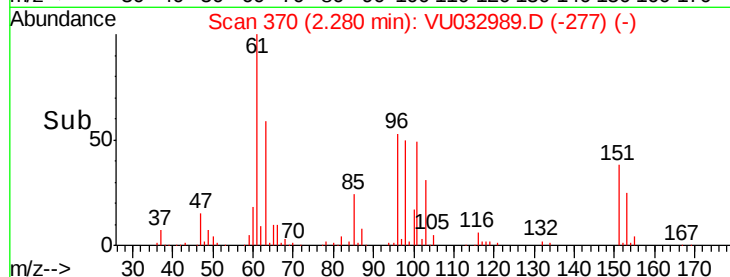
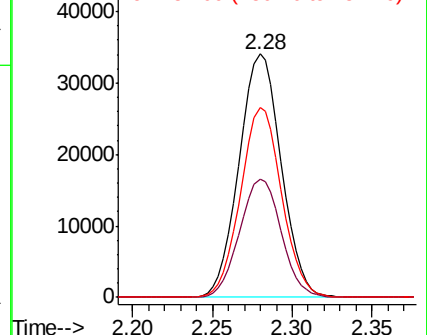
151 76.1 63.6 95.4



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: 46.651 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

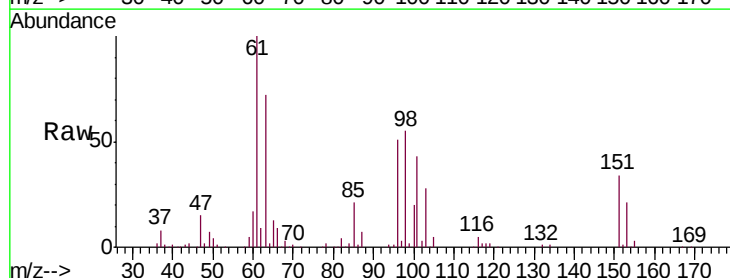
Tgt Ion: 96 Resp: 58313

Ion Ratio Lower Upper

96 100

61 196.0 131.0 243.4

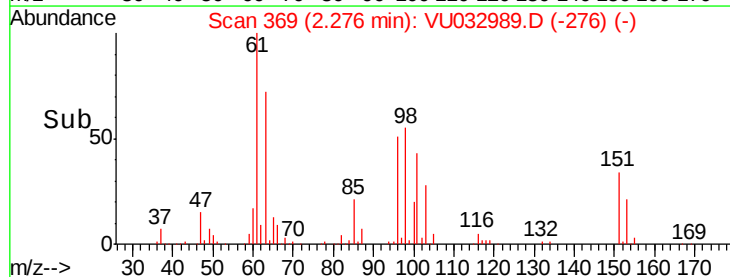
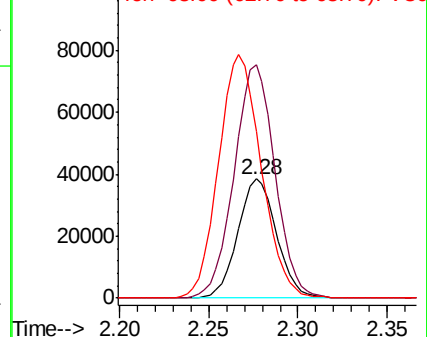
63 140.3 101.0 187.6

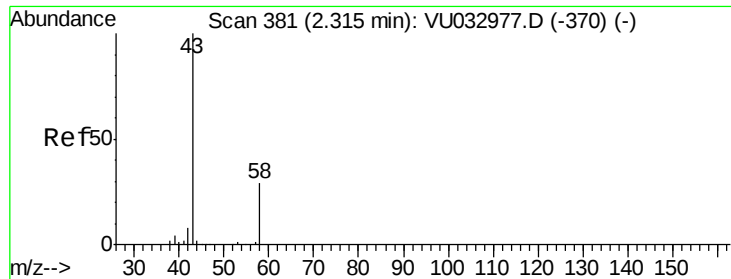


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 60.471 ug/L

RT: 2.31 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

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ClientSampleId :

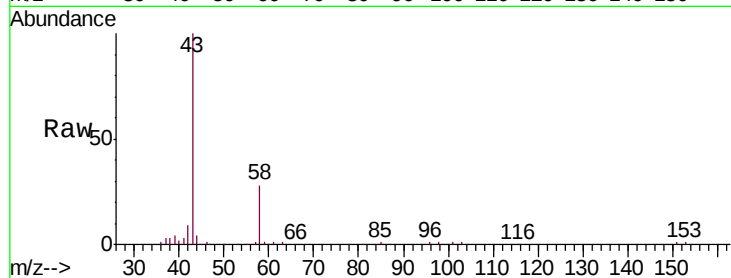
VSTD05059

Tgt Ion: 43 Resp: 94306

Ion Ratio Lower Upper

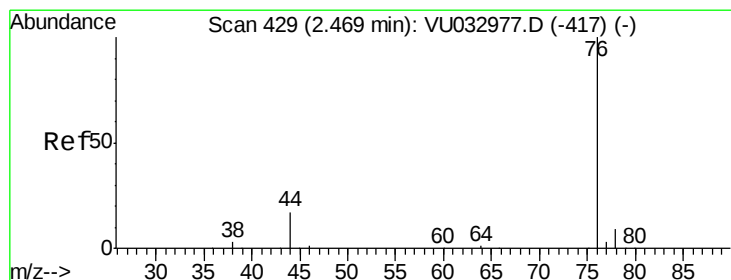
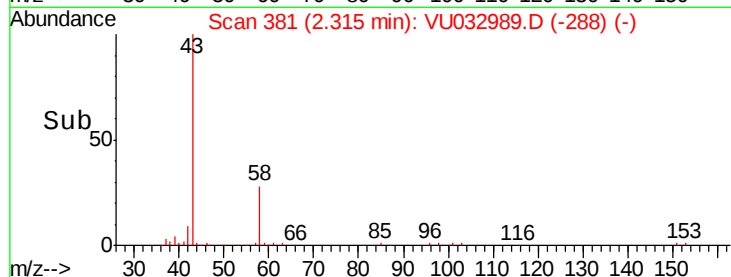
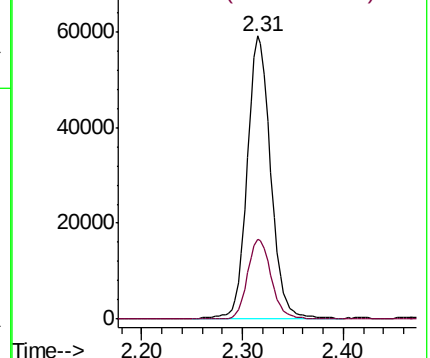
43 100

58 28.7 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU032977.D (-370) (-)

Ion 58.00 (57.70 to 58.70): VU032977.D (-370) (-)



#14

Carbon disulfide

Concen: 45.908 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032989.D

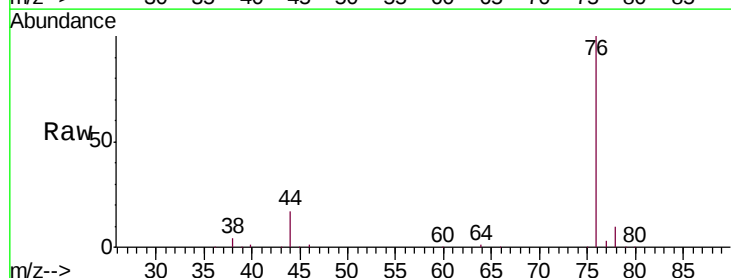
Acq: 22 Jun 2019 09:38

Tgt Ion: 76 Resp: 181581

Ion Ratio Lower Upper

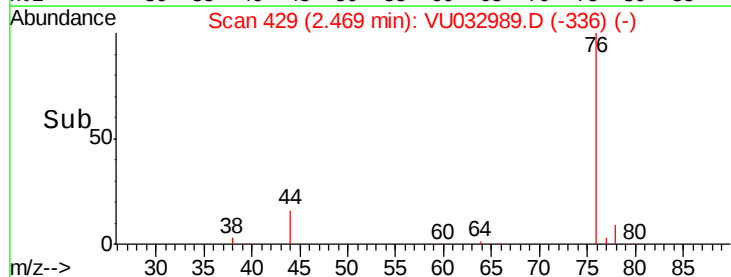
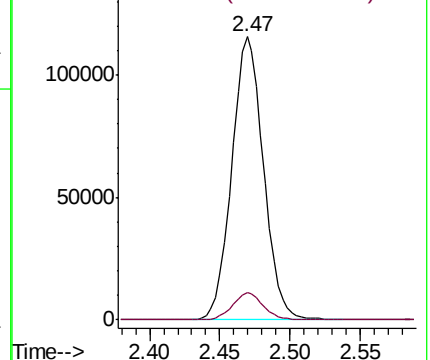
76 100

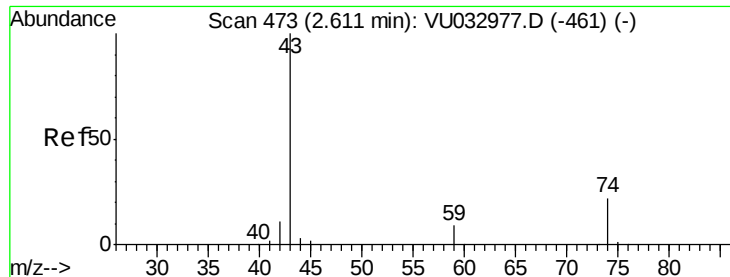
78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU032977.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032977.D (-417) (-)





#15

Methyl Acetate

Concen: 54.664 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

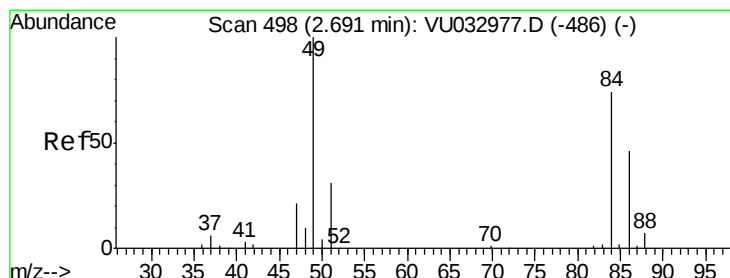
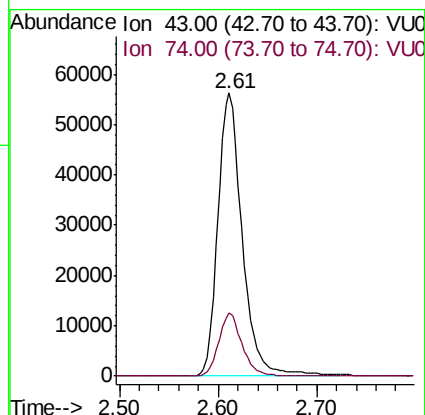
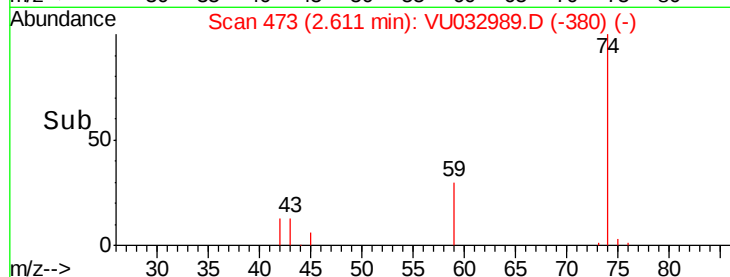
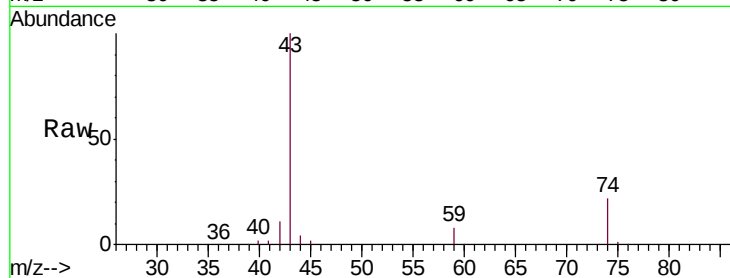
VSTD05059

Tgt Ion: 43 Resp: 96635

Ion Ratio Lower Upper

43 100

74 21.5 18.1 27.1



#16

Methylene chloride

Concen: 49.593 ug/L

RT: 2.69 min Scan# 498

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

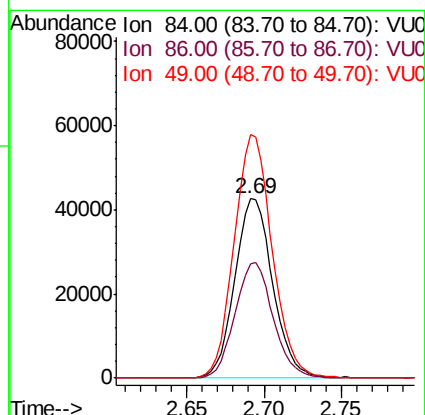
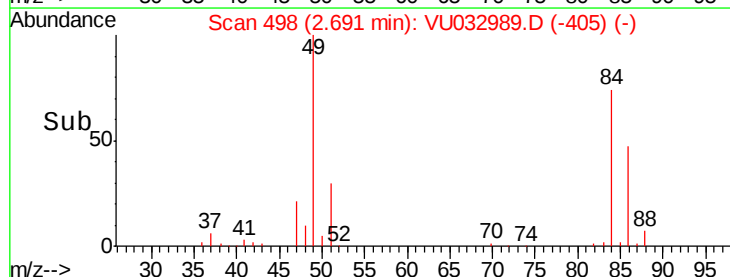
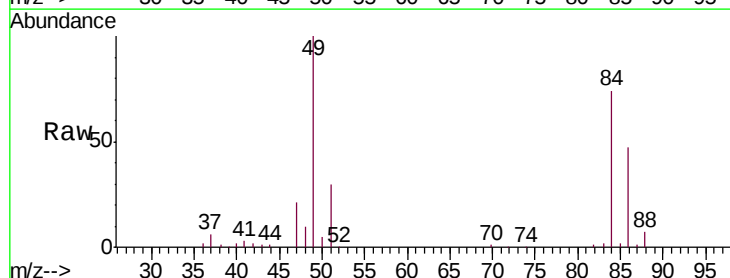
Tgt Ion: 84 Resp: 72741

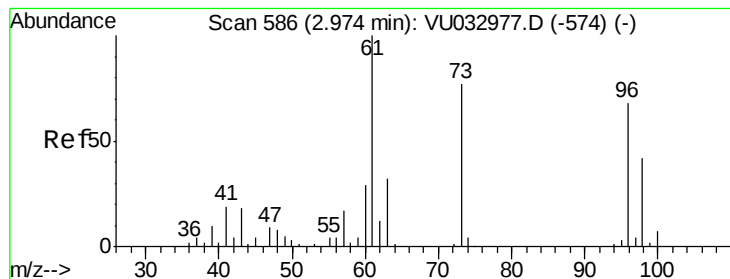
Ion Ratio Lower Upper

84 100

86 63.5 45.5 84.5

49 135.9 92.1 171.1





#17

trans-1,2-Dichloroethene

Concen: 47.900 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

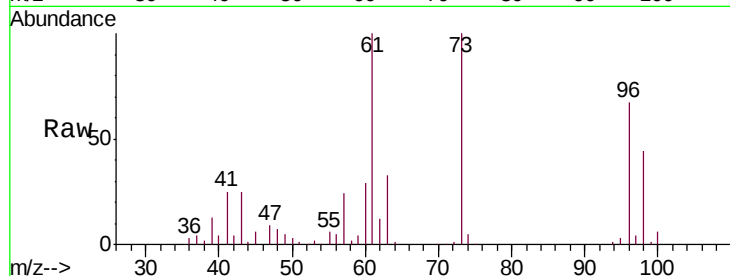
Tgt Ion: 96 Resp: 64929

Ion Ratio Lower Upper

96 100

61 148.2 100.9 187.5

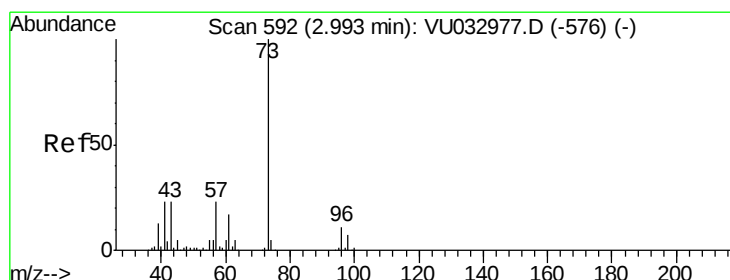
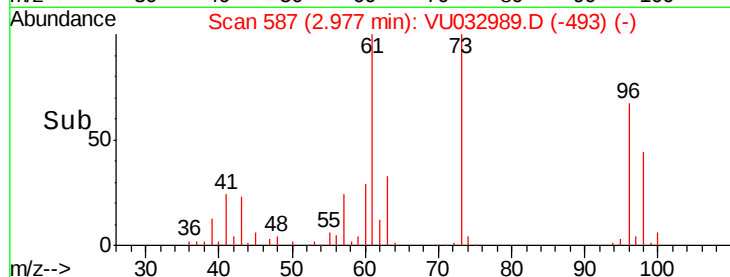
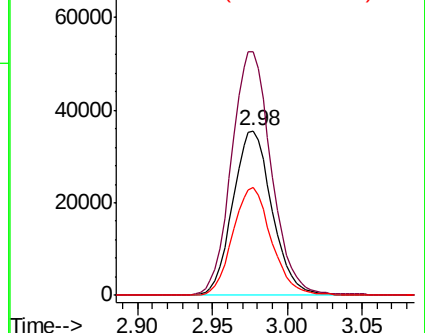
98 65.3 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU032977.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032977.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032977.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 51.390 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

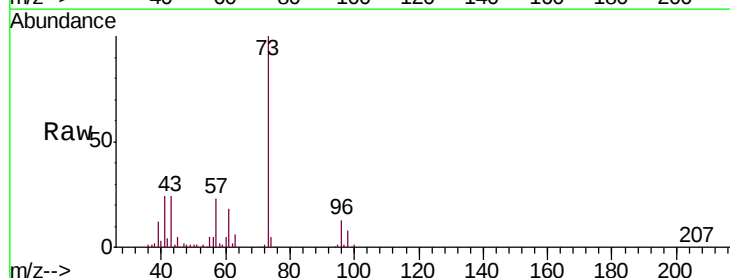
Tgt Ion: 73 Resp: 223653

Ion Ratio Lower Upper

73 100

43 23.7 17.8 26.8

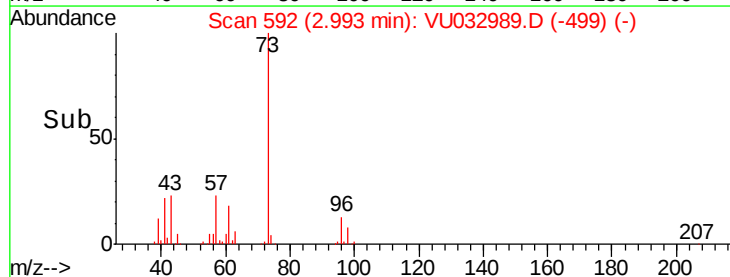
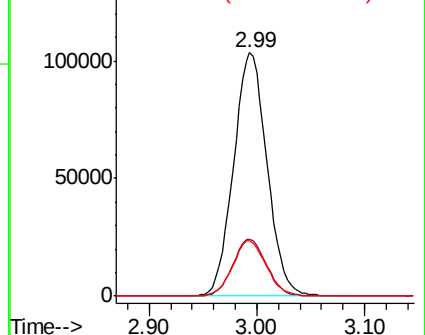
57 22.8 17.8 26.6

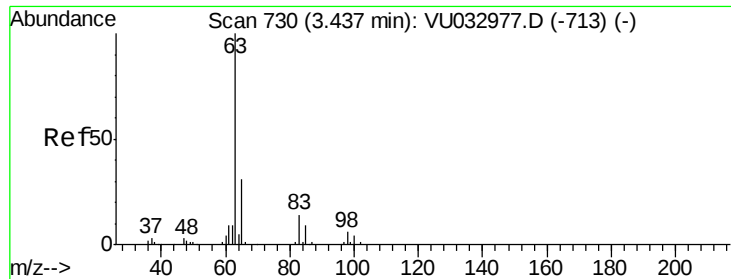


Abundance Ion 73.00 (72.70 to 73.70): VU032977.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU032977.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU032977.D (-576) (-)

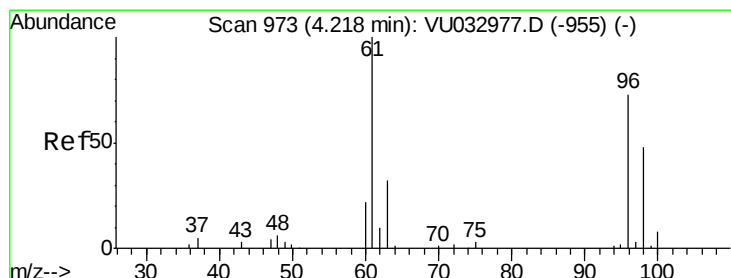
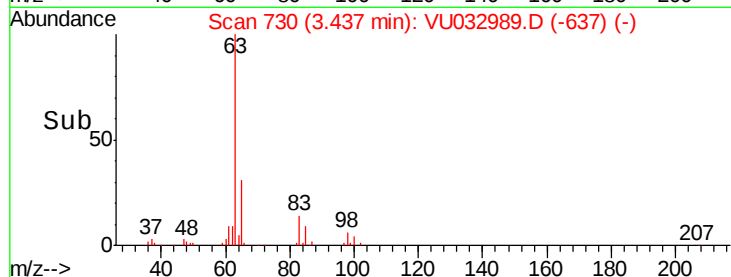
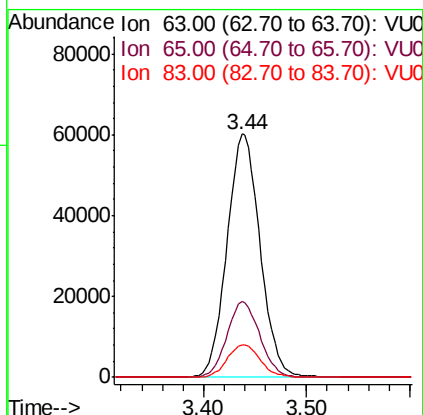
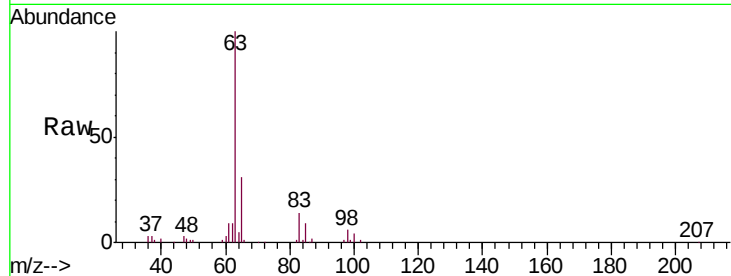




#19
 1,1-Dichloroethane
 Concen: 51.967 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

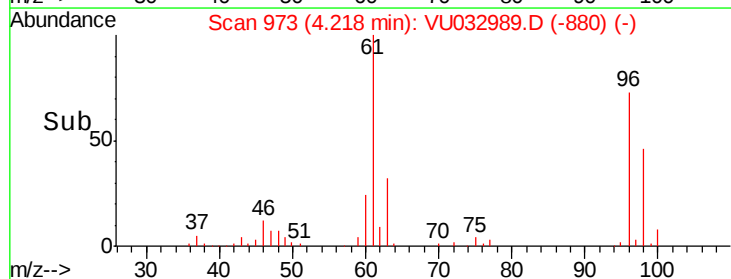
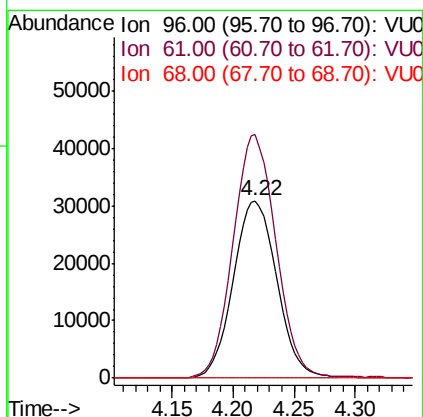
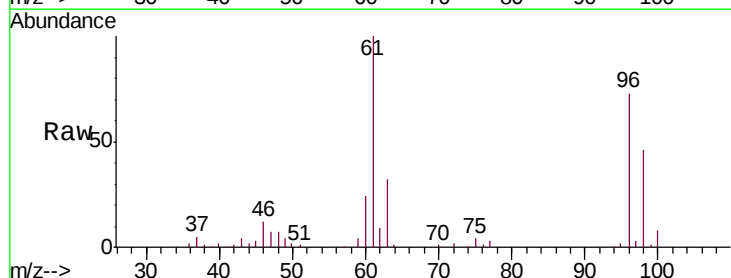
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

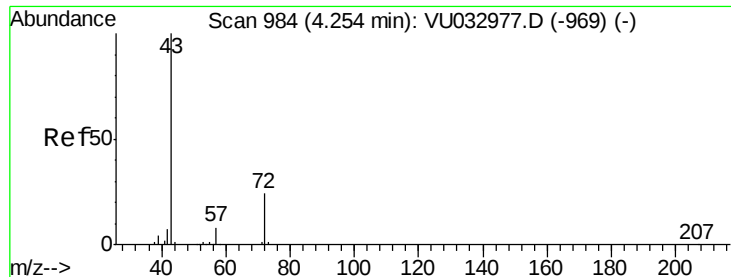
Tgt Ion: 63 Resp: 134294
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.0 41.0
 83 13.5 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 51.847 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion: 96 Resp: 76562
 Ion Ratio Lower Upper
 96 100
 61 137.5 92.4 171.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 86.811 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

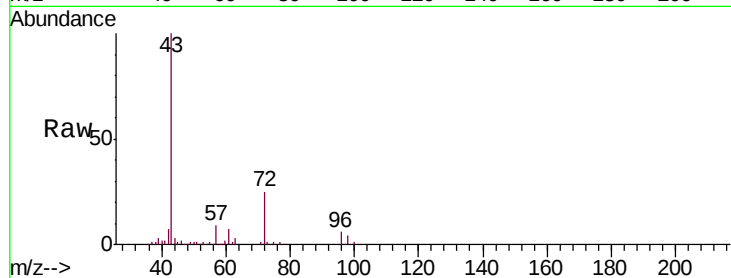
VSTD05059

Tgt Ion: 43 Resp: 140322

Ion Ratio Lower Upper

43 100

72 25.4 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU032977.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU032977.D (-969) (-)

4.25

60000

50000

40000

30000

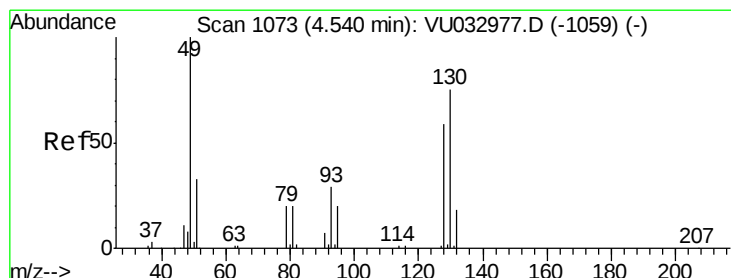
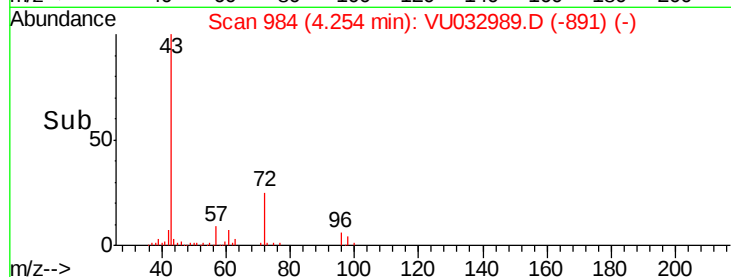
20000

10000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 51.340 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Tgt Ion: 128 Resp: 39550

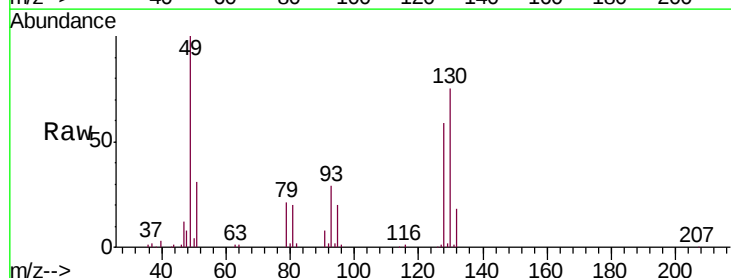
Ion Ratio Lower Upper

128 100

49 169.5 114.7 212.9

130 126.4 89.4 166.0

51 52.3 42.0 63.0



Abundance Ion 128.00 (127.70 to 128.70): VU032977.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032977.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032977.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032977.D (-1059) (-)

4.54

40000

30000

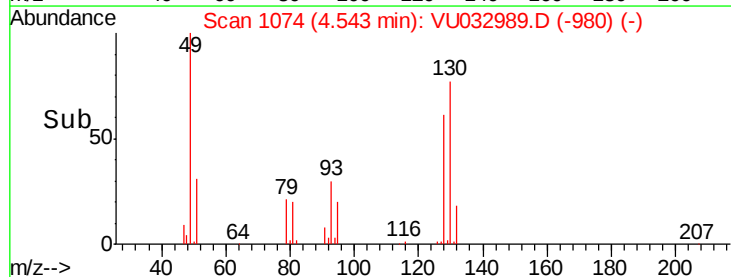
20000

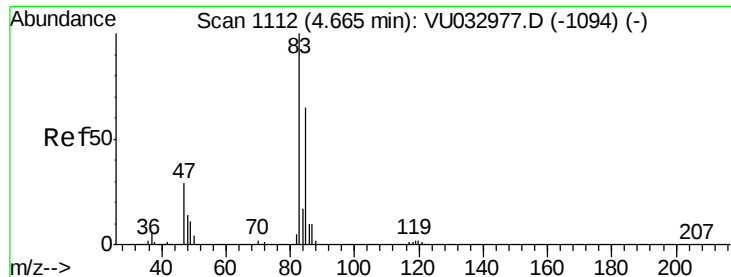
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->

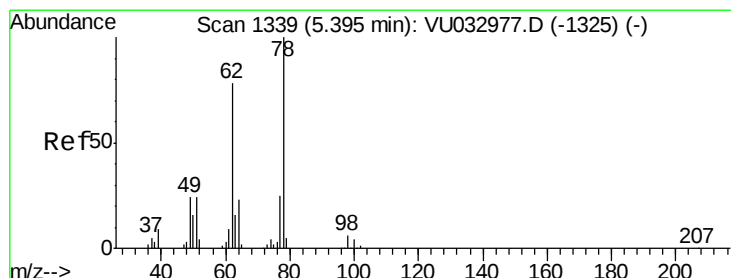
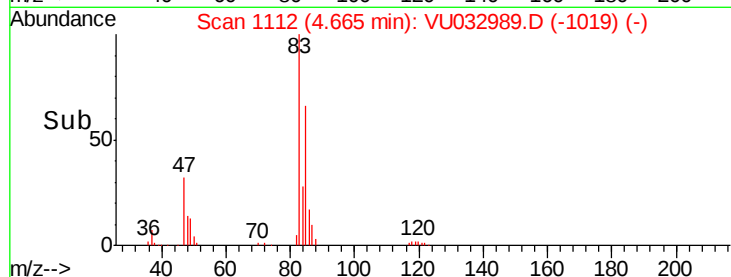
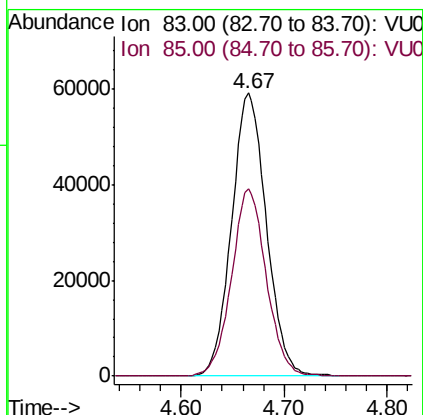
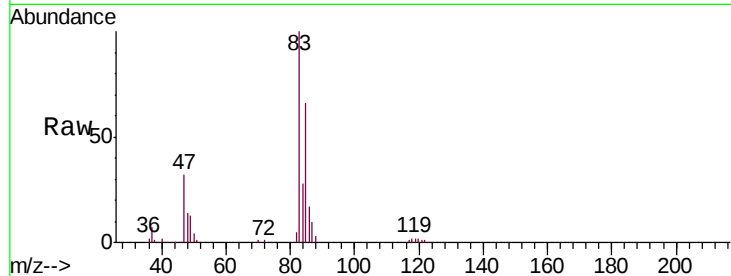




#25
Chloroform
Concen: 52.198 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

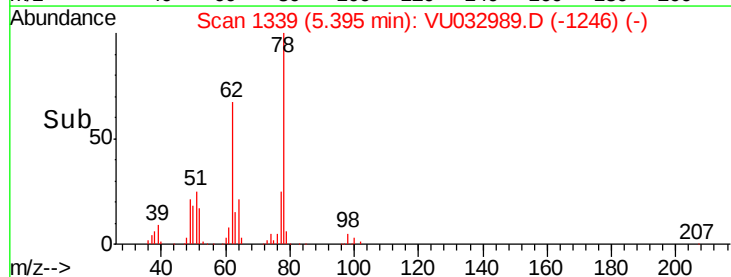
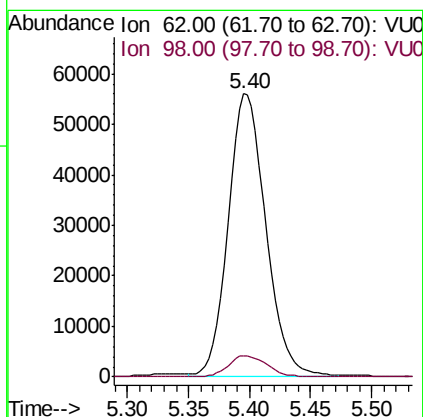
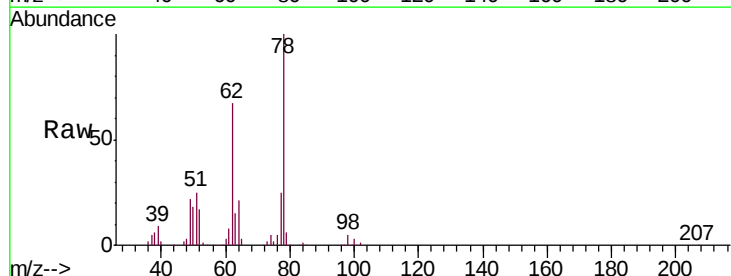
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

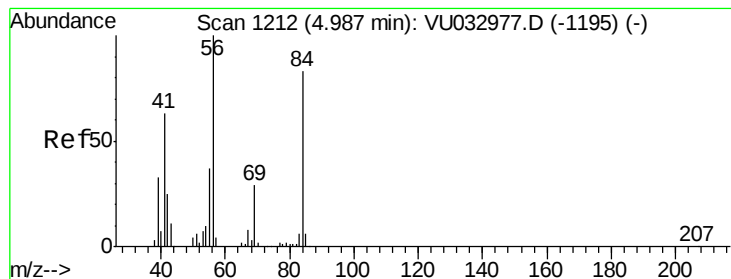
Tgt Ion: 83 Resp: 139106
Ion Ratio Lower Upper
83 100
85 66.1 44.2 82.2



#27
1,2-Dichloroethane
Concen: 54.997 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Tgt Ion: 62 Resp: 120405
Ion Ratio Lower Upper
62 100
98 7.6 6.6 10.0





#29

Cyclohexane

Concen: 48.655 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

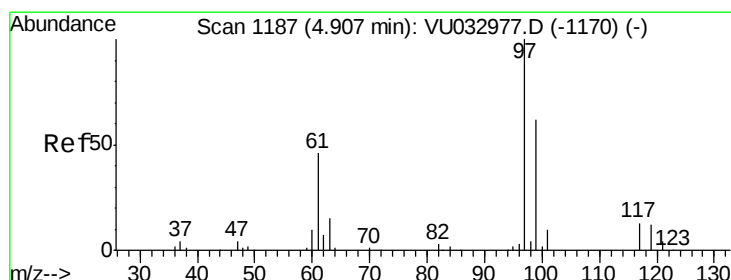
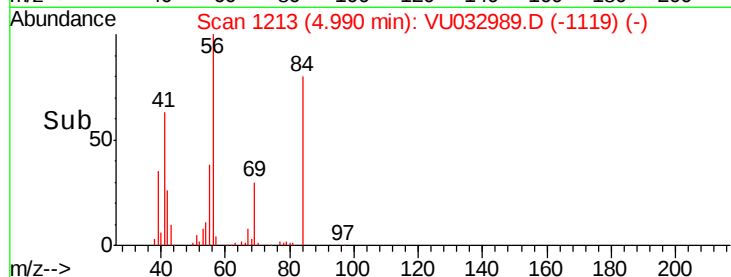
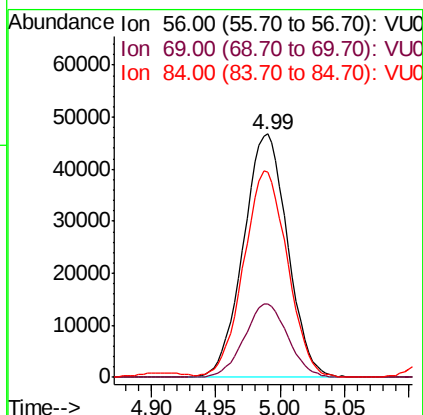
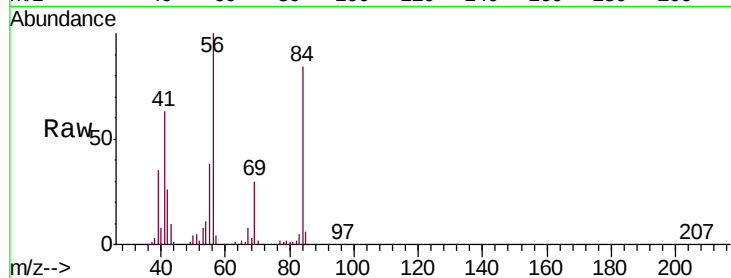
Tgt Ion: 56 Resp: 111496

Ion Ratio Lower Upper

56 100

69 29.7 24.2 36.4

84 84.4 68.0 102.0



#30

1,1,1-Trichloroethane

Concen: 50.864 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

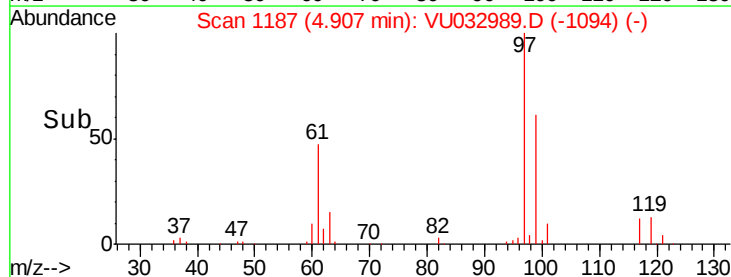
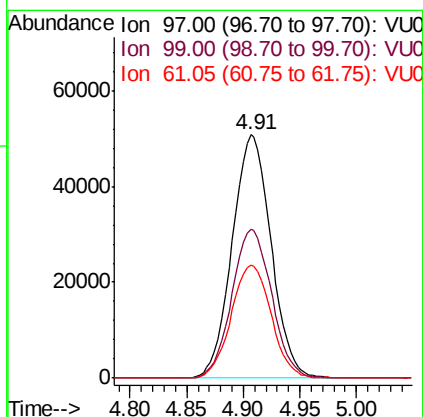
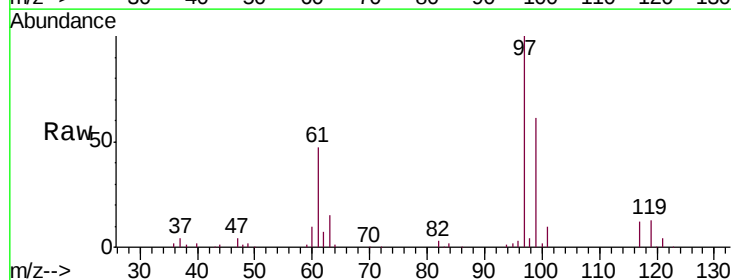
Tgt Ion: 97 Resp: 121616

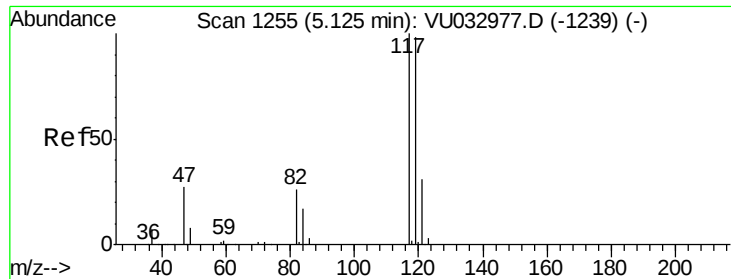
Ion Ratio Lower Upper

97 100

99 62.6 50.7 76.1

61 47.6 36.7 55.1

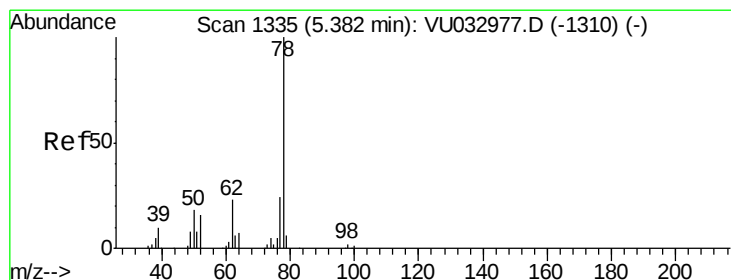
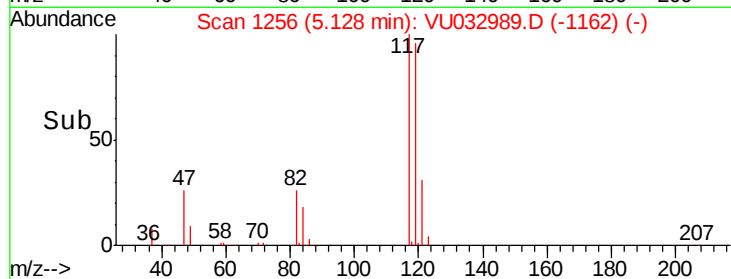
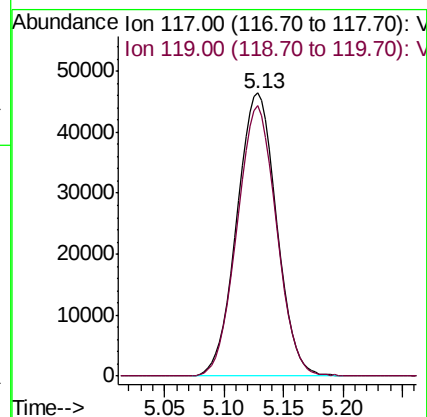
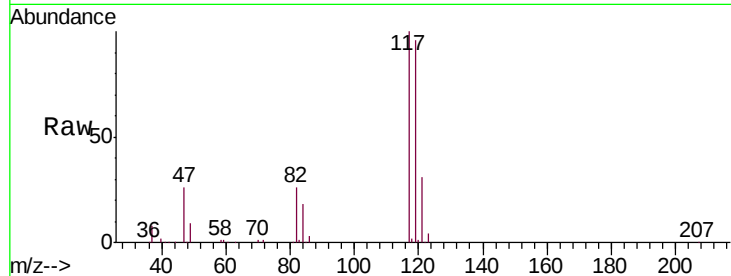




#31
Carbon tetrachloride
Concen: 49.429 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

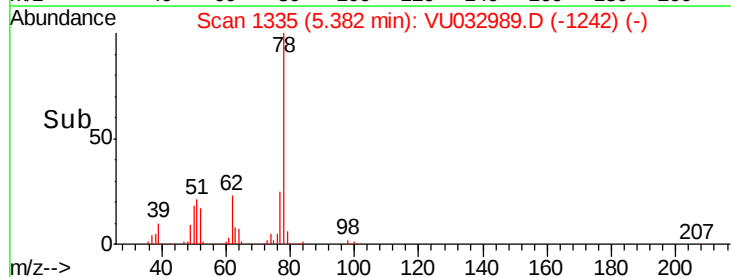
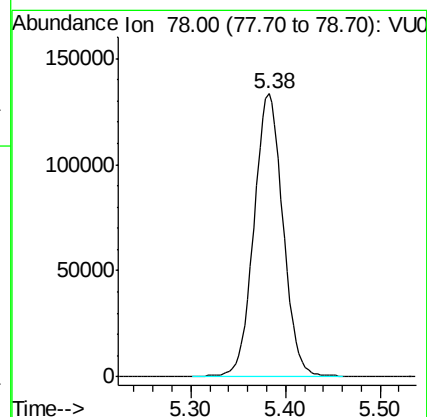
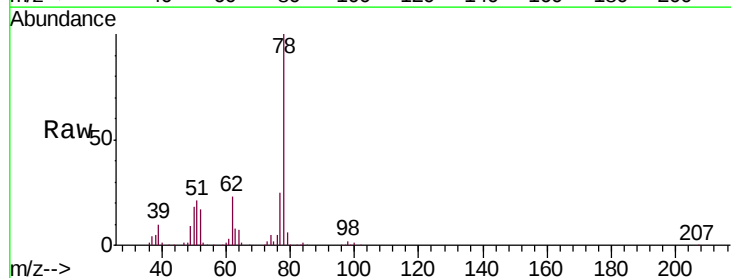
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

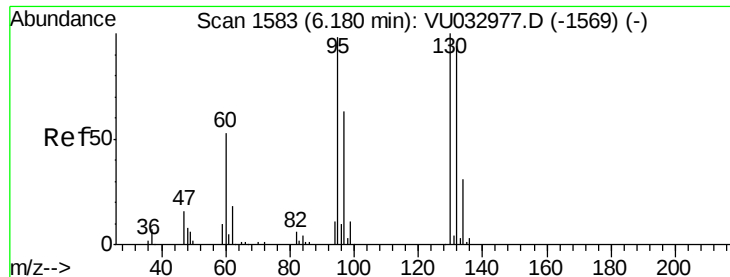
Tgt Ion:117 Resp: 107535
Ion Ratio Lower Upper
117 100
119 94.7 76.3 114.5



#33
Benzene
Concen: 50.402 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Tgt Ion: 78 Resp: 284952





#34

Trichloroethene

Concen: 49.881 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tgt Ion: 95 Resp: 75348

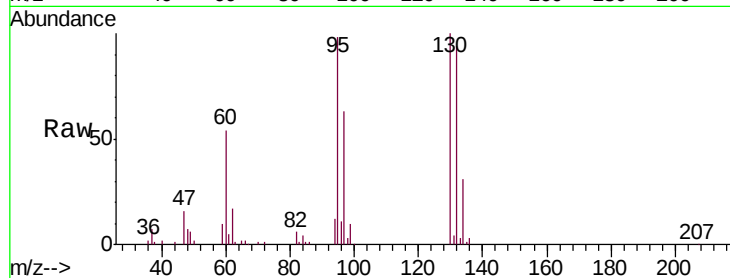
Ion Ratio Lower Upper

95 100

97 64.2 45.9 85.3

132 95.5 68.5 127.3

130 101.7 70.8 131.4

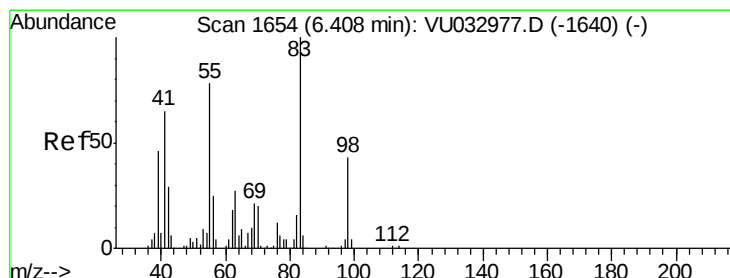
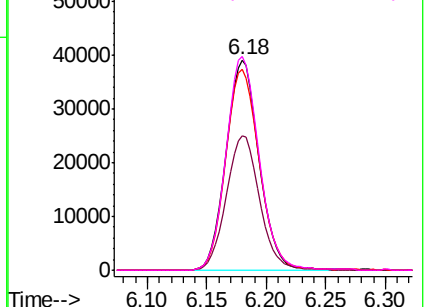
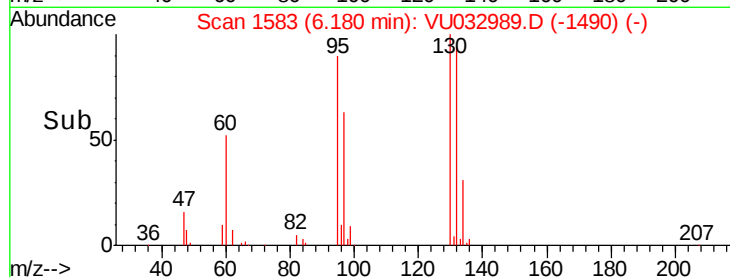


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 47.578 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

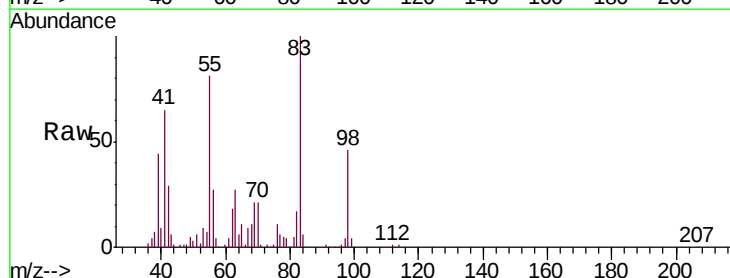
Tgt Ion: 83 Resp: 111091

Ion Ratio Lower Upper

83 100

55 79.9 62.6 94.0

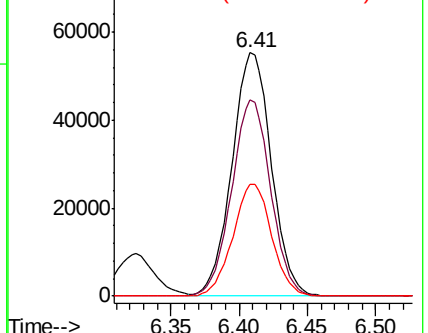
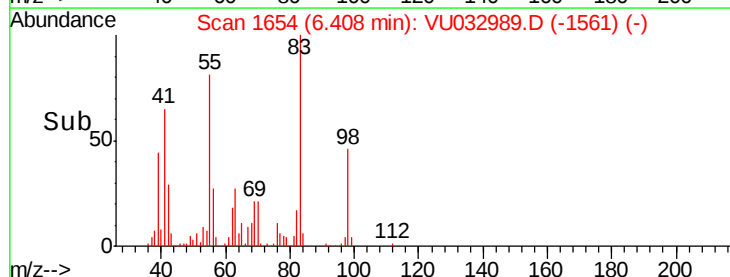
98 45.2 37.4 56.0

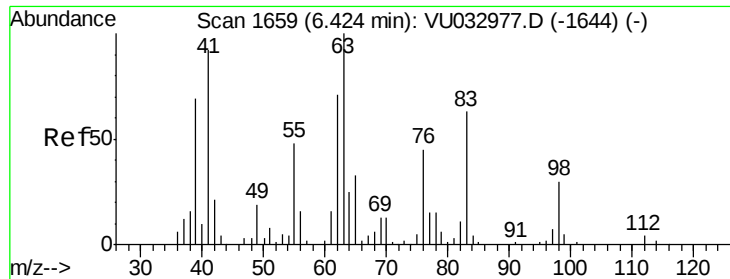


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

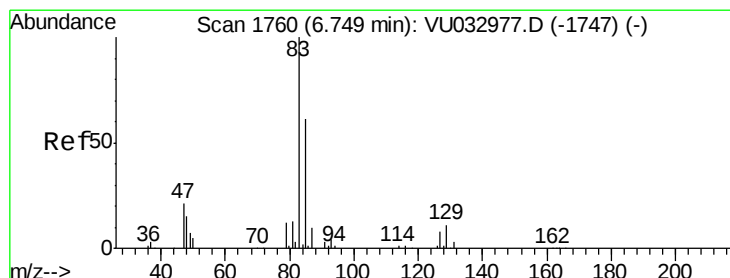
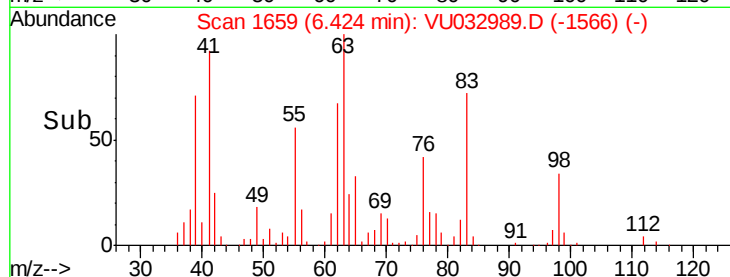
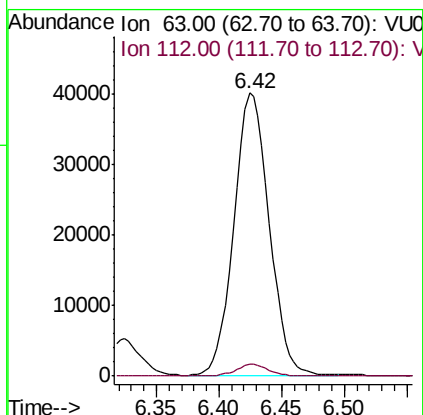
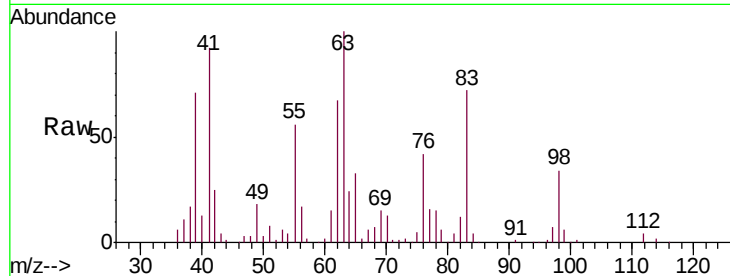




#37
 1,2-Dichloropropane
 Concen: 50.225 ug/L
 RT: 6.42 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

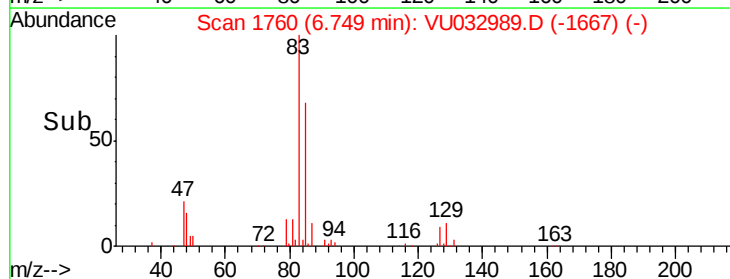
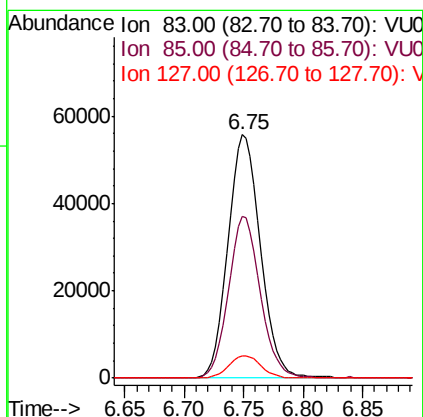
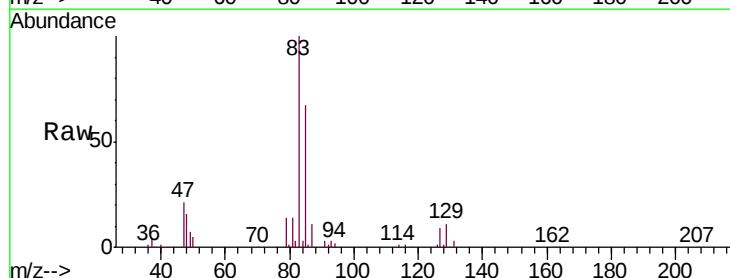
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

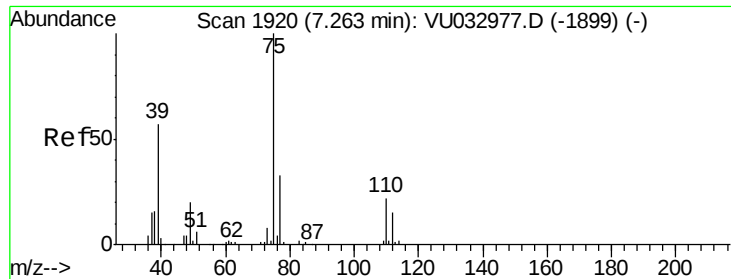
Tgt Ion: 63 Resp: 77890
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.6



#38
 Bromodichloromethane
 Concen: 50.669 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion: 83 Resp: 105660
 Ion Ratio Lower Upper
 83 100
 85 66.5 45.0 83.6
 127 9.3 7.0 10.6

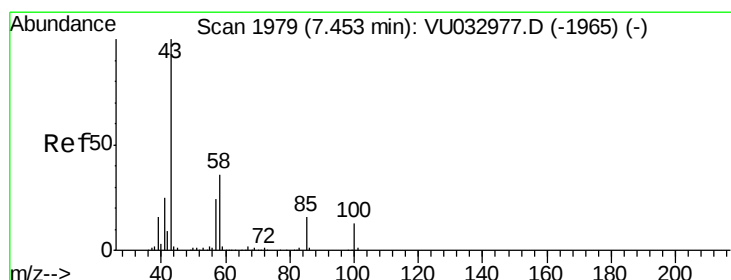
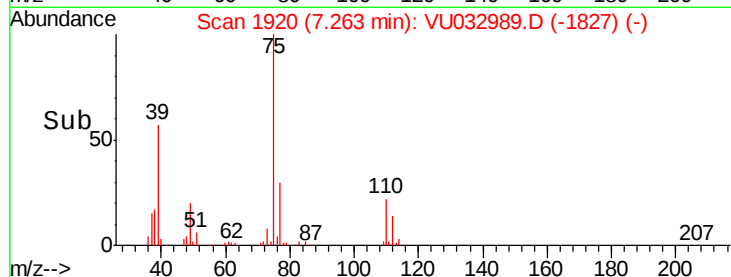
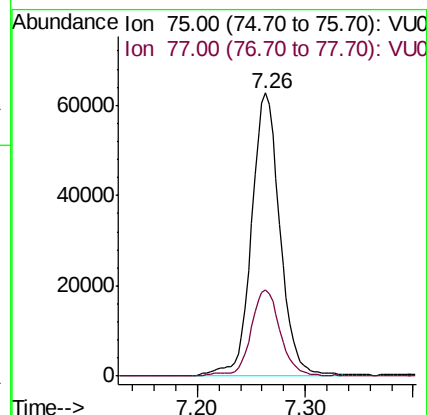
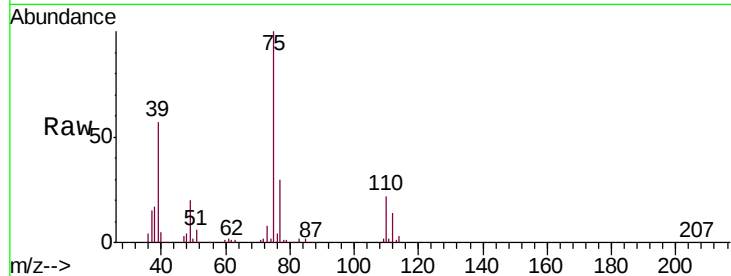




#39
 cis-1,3-Dichloropropene
 Concen: 47.626 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

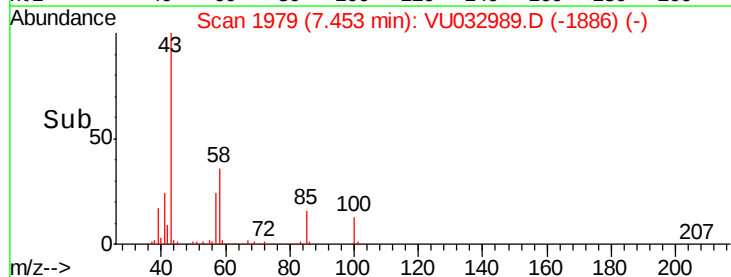
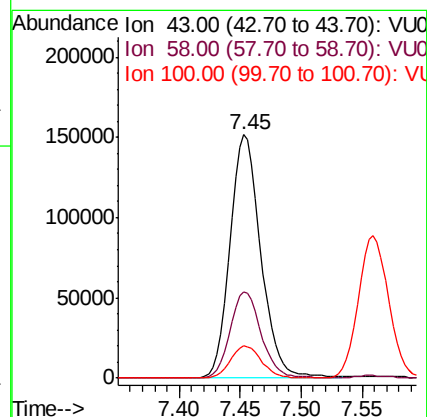
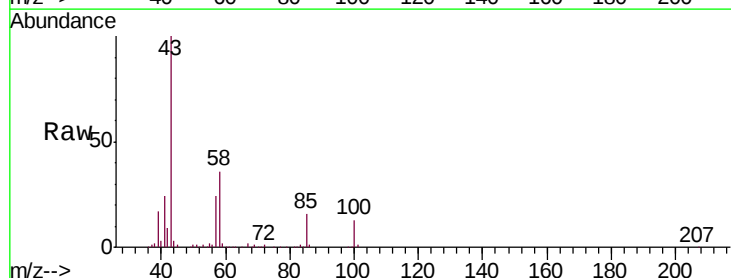
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

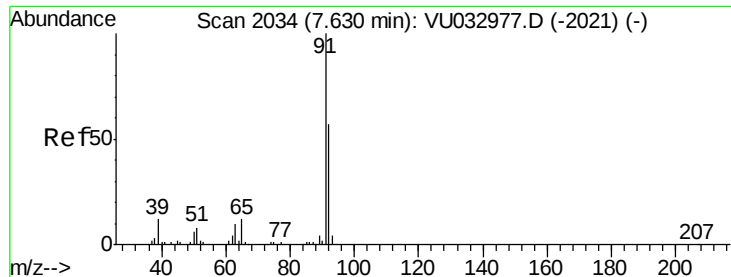
Tgt Ion: 75 Resp: 115070
 Ion Ratio Lower Upper
 75 100
 77 30.5 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 108.643 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion: 43 Resp: 268992
 Ion Ratio Lower Upper
 43 100
 58 35.8 29.4 44.2
 100 13.4 11.2 16.8





#42

Toluene

Concen: 51.284 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

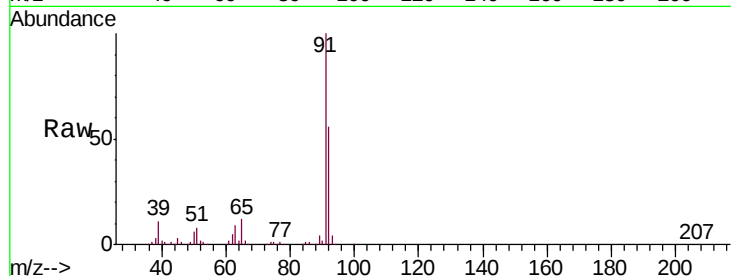
VSTD05059

Tgt Ion: 91 Resp: 313699

Ion Ratio Lower Upper

91 100

92 56.1 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU032977.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032977.D (-2021) (-)

7.63

200000

150000

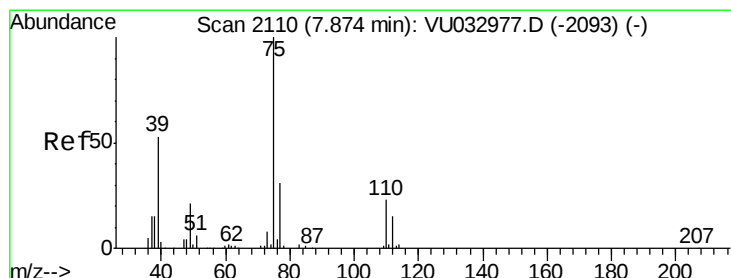
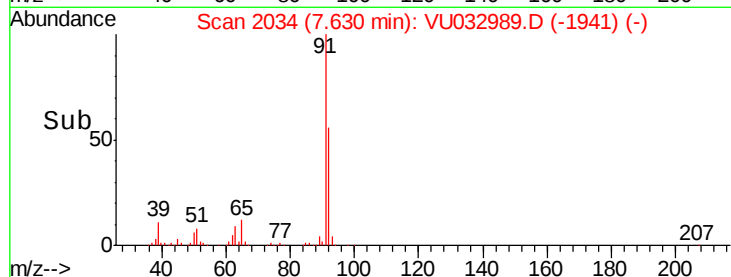
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.606 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032989.D

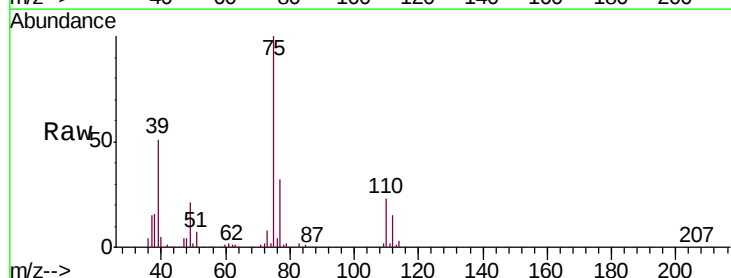
Acq: 22 Jun 2019 09:38

Tgt Ion: 75 Resp: 105766

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032977.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU032977.D (-2093) (-)

7.87

60000

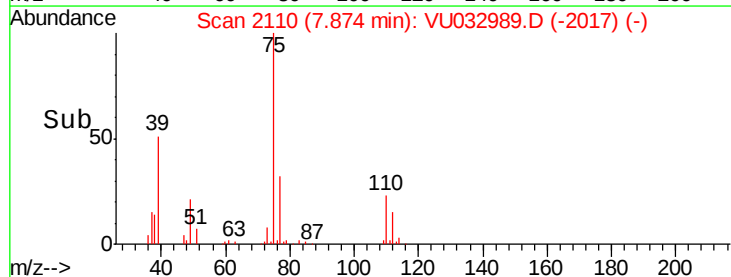
40000

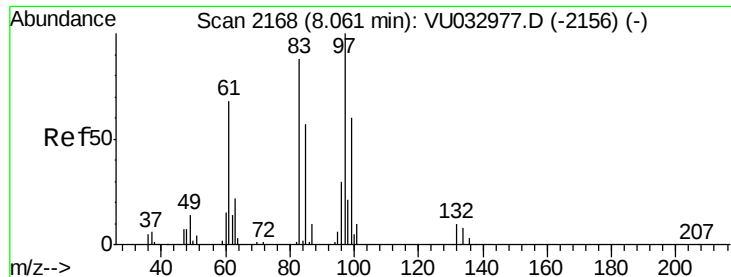
20000

0

7.80 7.85 7.90 7.95

Time-->

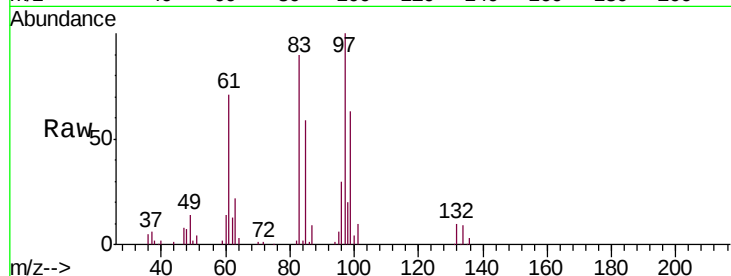




#45
 1,1,2-Trichloroethane
 Concen: 50.639 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion:	97	Resp:	73094
Ion	Ratio	Lower	Upper
97	100		
99	63.3	43.1	80.1
83	90.3	61.4	114.0
85	58.9	39.2	72.8



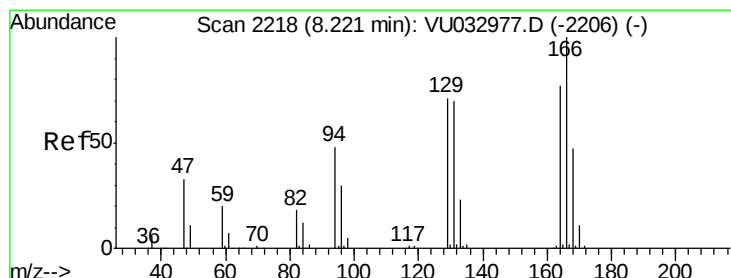
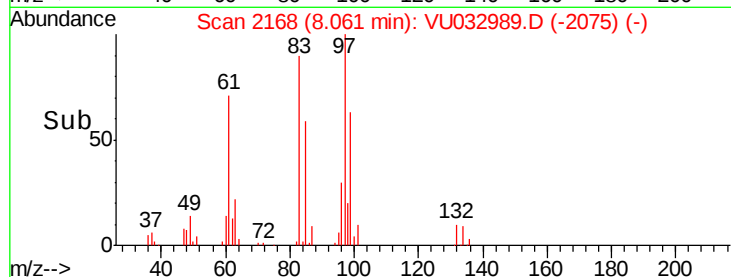
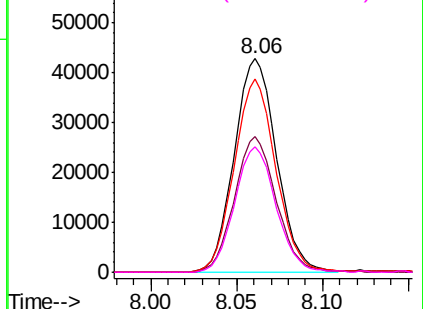
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

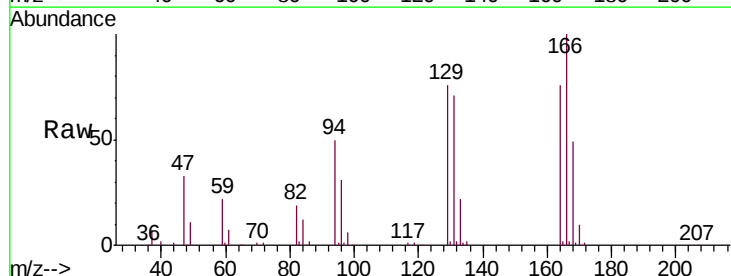
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 47.837 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion:	164	Resp:	59212
Ion	Ratio	Lower	Upper
164	100		
129	100.0	64.8	120.3
131	92.9	64.5	119.7
166	131.1	91.3	169.6



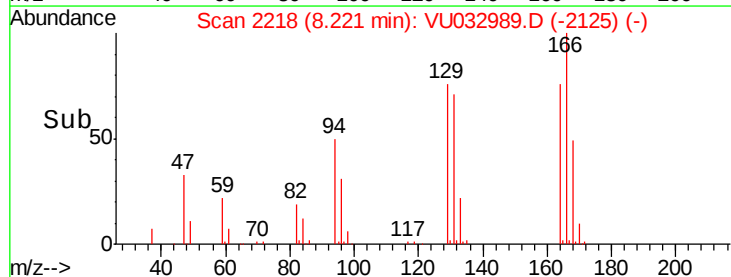
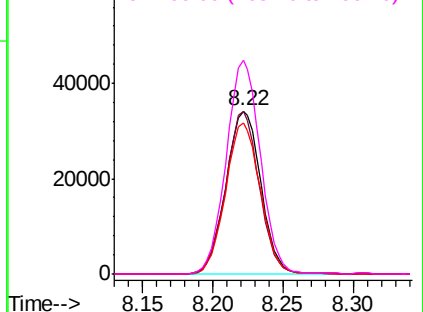
Abundance

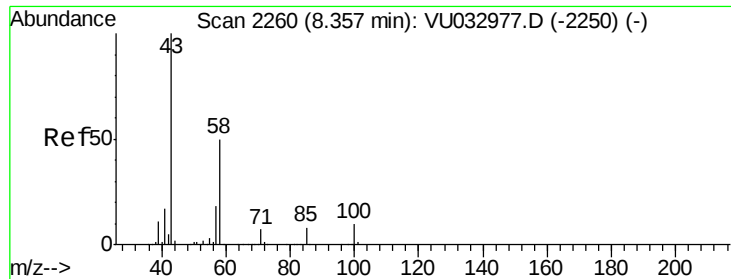
Ion 164.00 (163.70 to 164.70): V

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

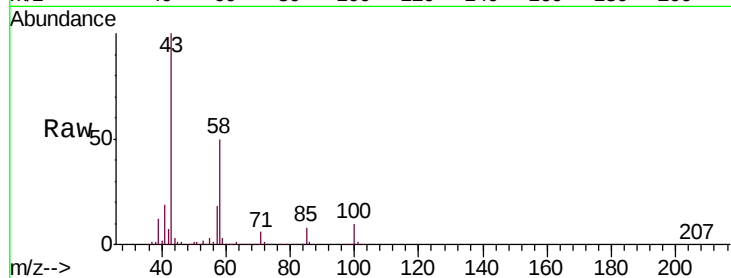




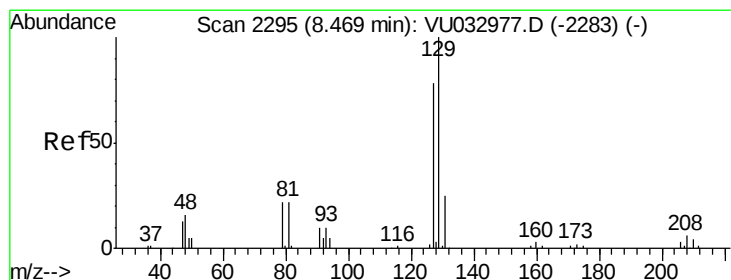
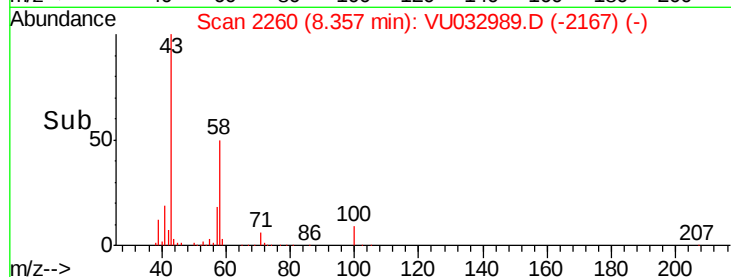
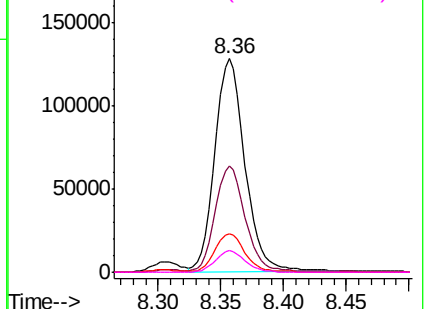
#48
2-Hexanone
Concen: 97.140 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion:	43	Resp:	212205
Ion	Ratio	Lower	Upper
43	100		
58	50.4	40.2	60.2
57	18.4	14.2	21.4
100	10.1	8.4	12.6

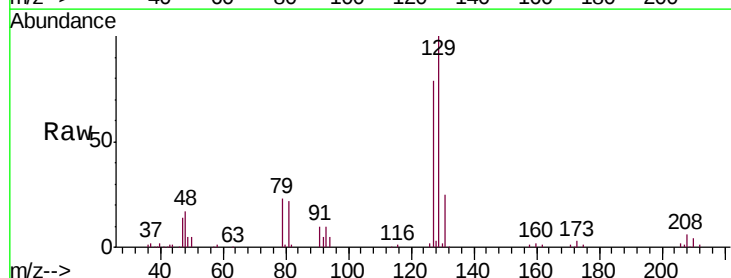


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

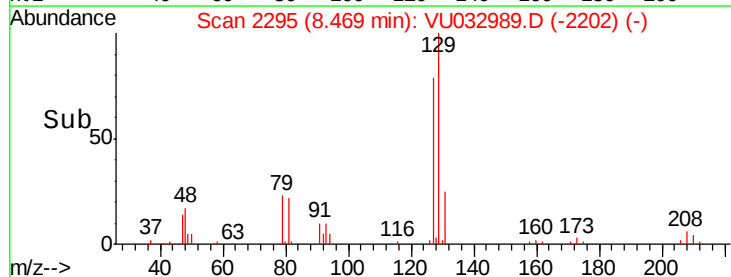
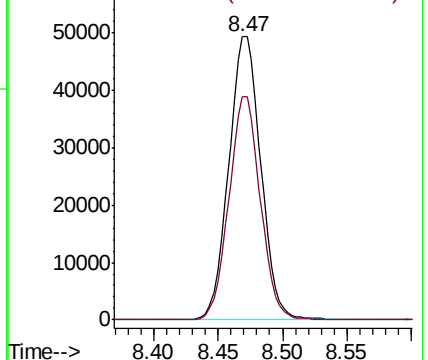


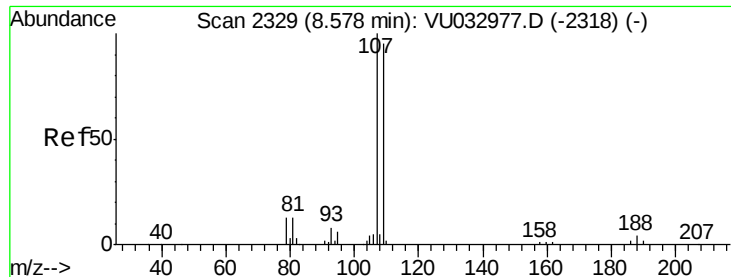
#49
Dibromochloromethane
Concen: 48.984 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Tgt Ion:	129	Resp:	85237
Ion	Ratio	Lower	Upper
129	100		
127	78.9	52.3	97.1



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

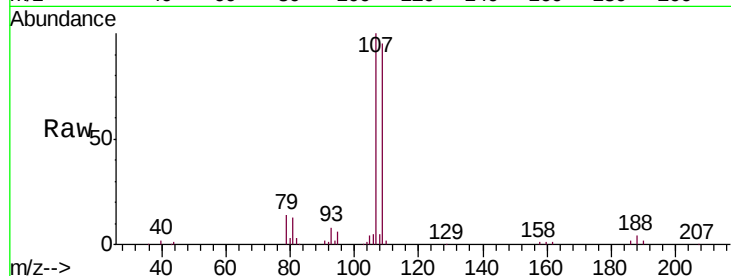




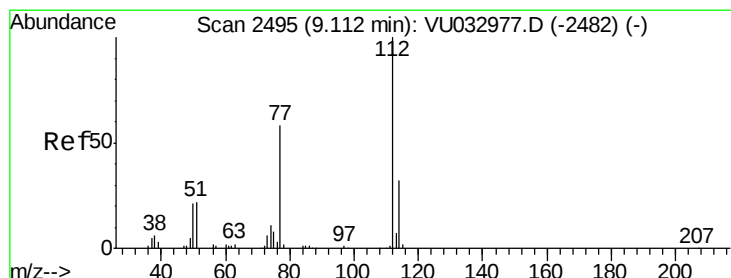
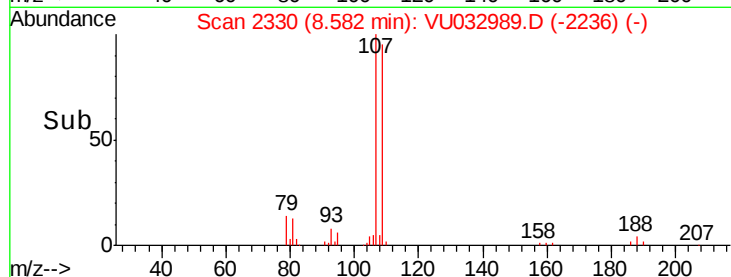
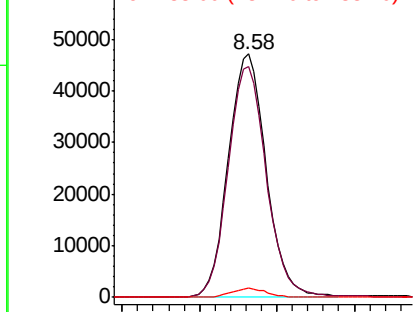
#50
1,2-Dibromoethane
Concen: 49.983 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion:107 Resp: 80123
Ion Ratio Lower Upper
107 100
109 94.7 65.4 121.4
188 3.7 3.1 4.7

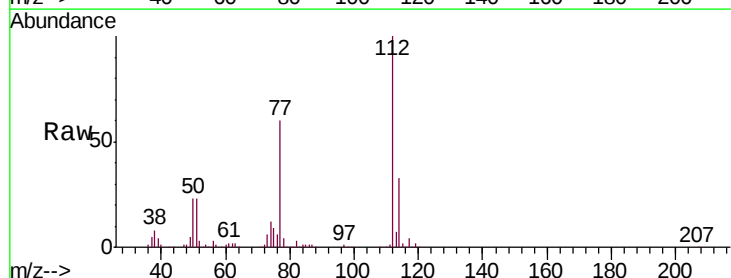


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

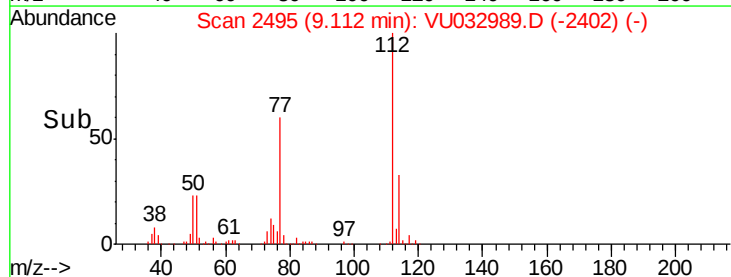
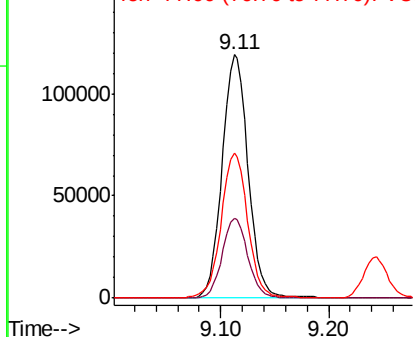


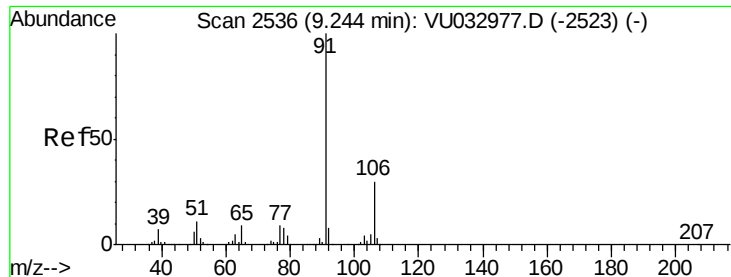
#51
Chlorobenzene
Concen: 49.748 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU032989.D
Acq: 22 Jun 2019 09:38

Tgt Ion:112 Resp: 200248
Ion Ratio Lower Upper
112 100
114 33.0 22.8 42.4
77 59.8 46.3 69.5



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: 50.730 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

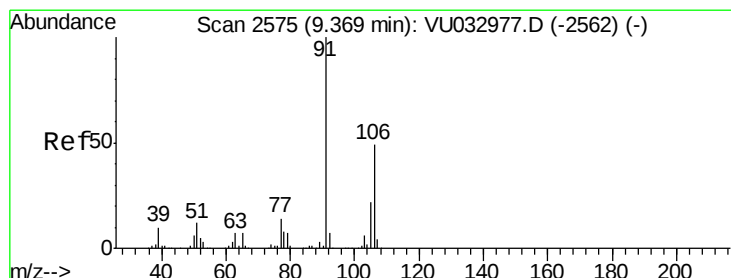
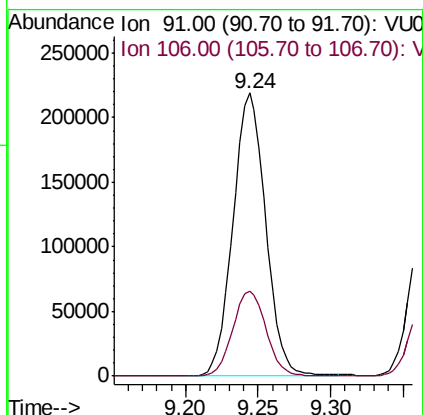
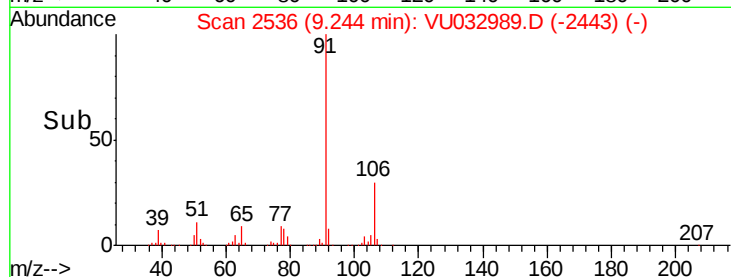
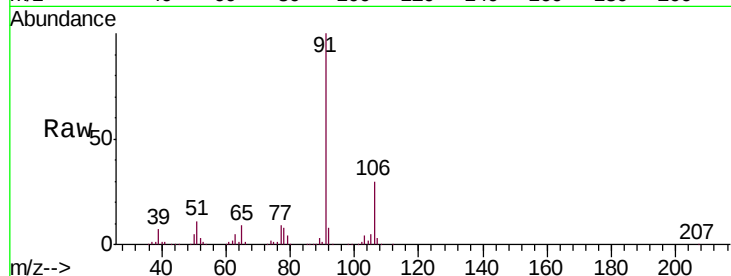
VSTD05059

Tgt Ion: 91 Resp: 343479

Ion Ratio Lower Upper

91 100

106 30.0 21.8 40.4



#53

m,p-Xylene

Concen: 50.600 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032989.D

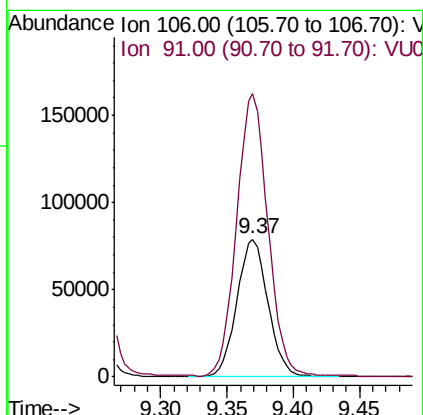
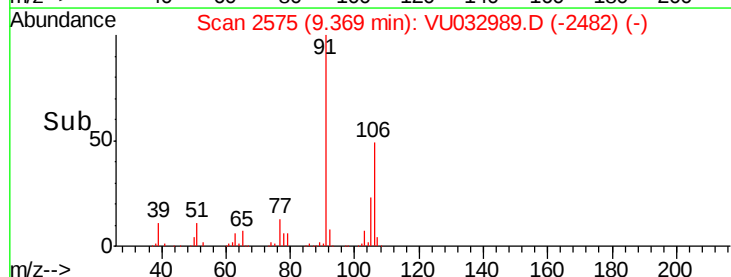
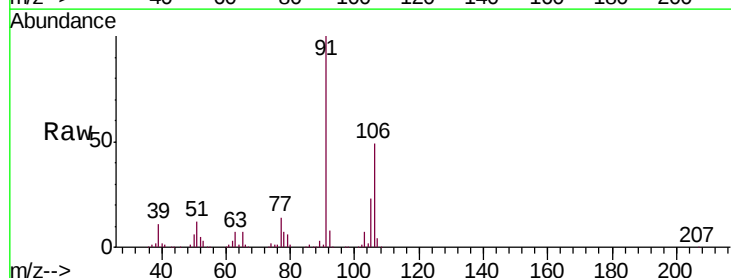
Acq: 22 Jun 2019 09:38

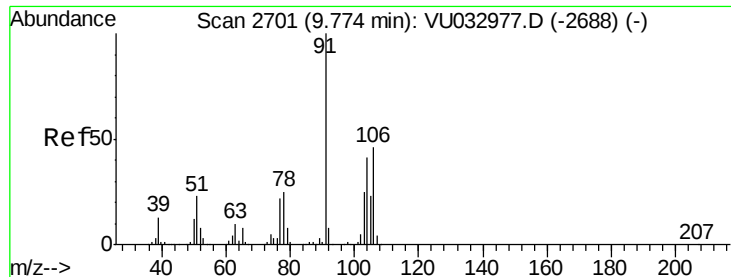
Tgt Ion: 106 Resp: 129262

Ion Ratio Lower Upper

106 100

91 205.6 142.9 265.5





#54

o-xylene

Concen: 51.249 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

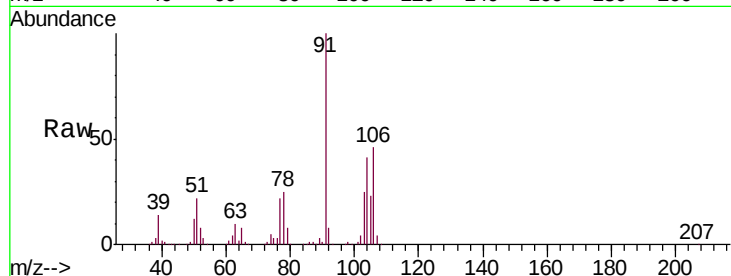
VSTD05059

Tgt Ion:106 Resp: 127852

Ion Ratio Lower Upper

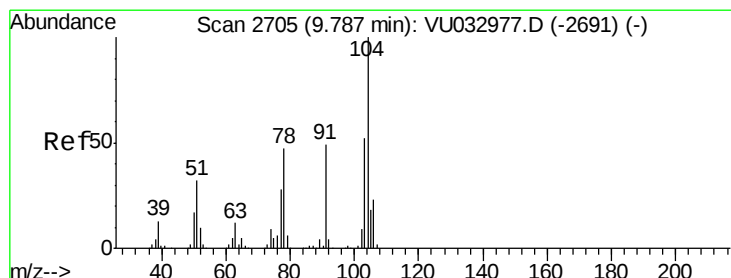
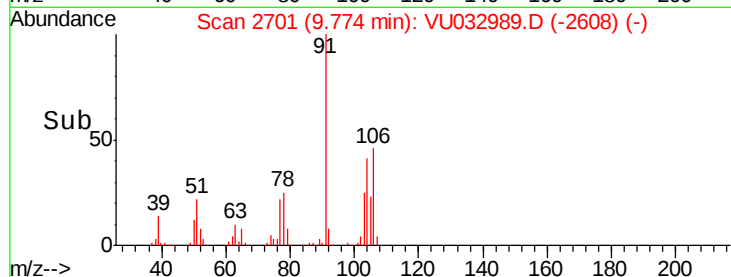
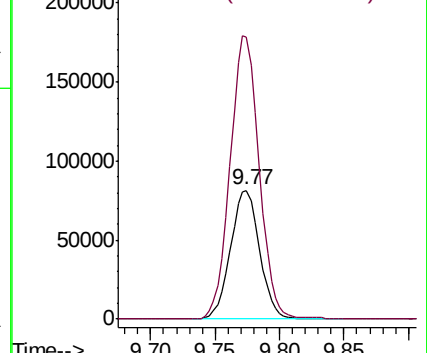
106 100

91 218.5 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.880 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032989.D

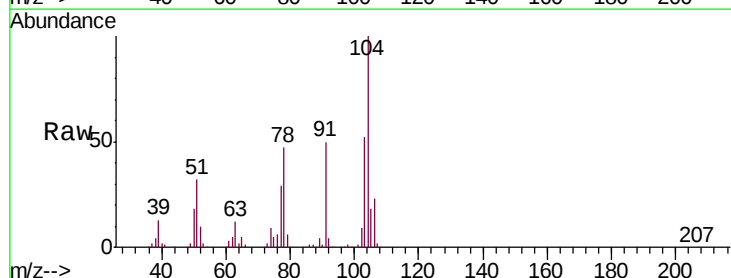
Acq: 22 Jun 2019 09:38

Tgt Ion:104 Resp: 220202

Ion Ratio Lower Upper

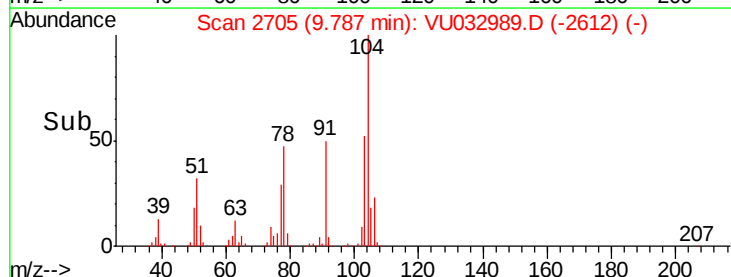
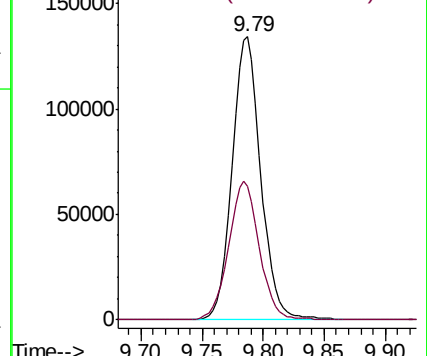
104 100

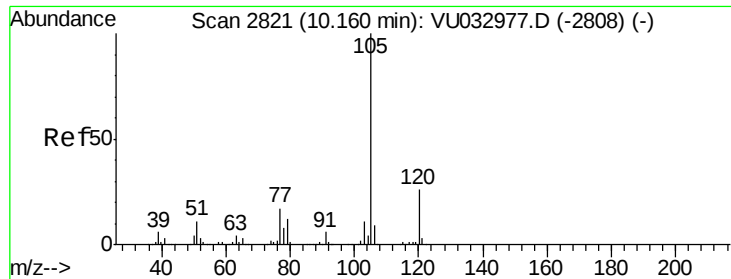
78 47.4 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.439 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

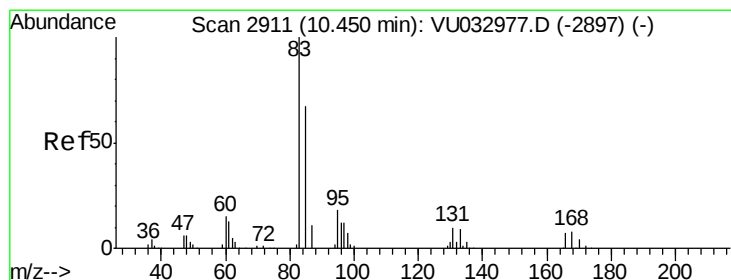
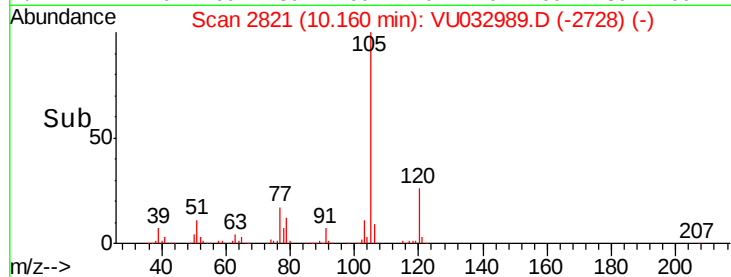
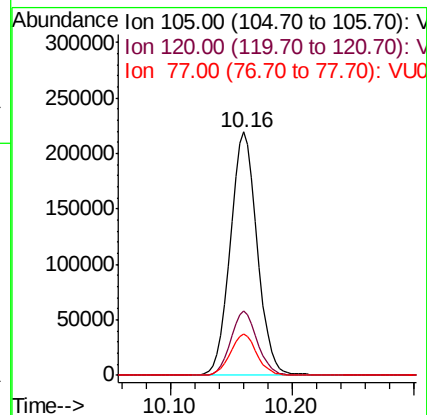
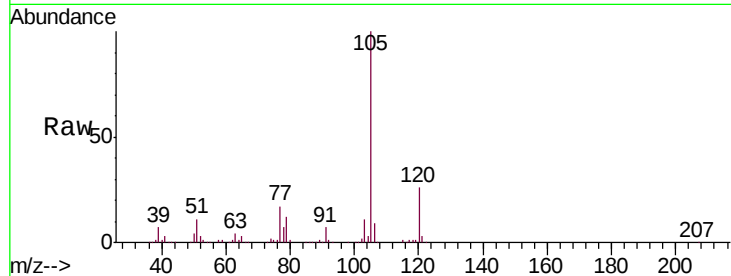
Tgt Ion: 105 Resp: 339108

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.0

77 16.8 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 50.236 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

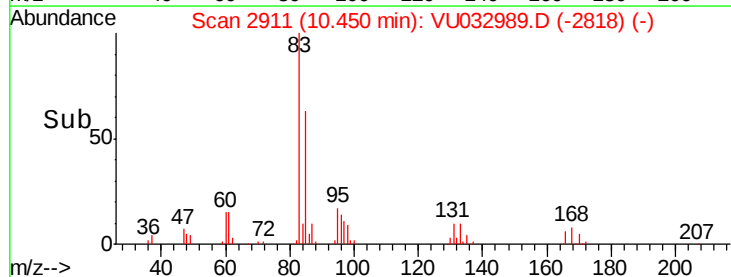
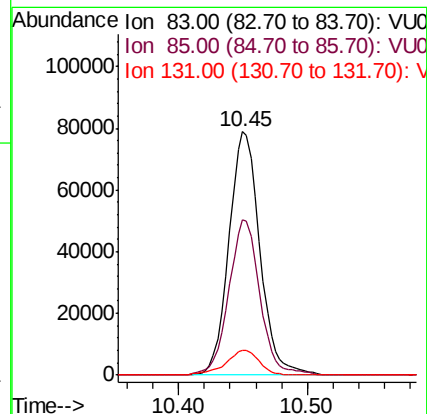
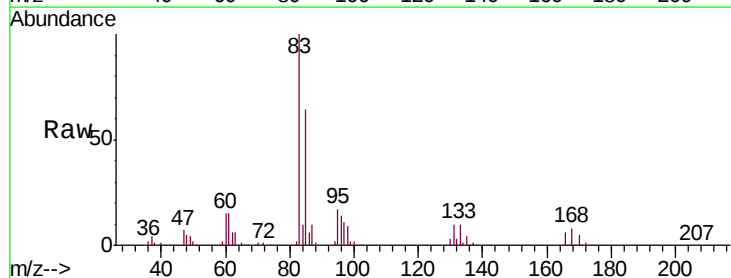
Tgt Ion: 83 Resp: 131211

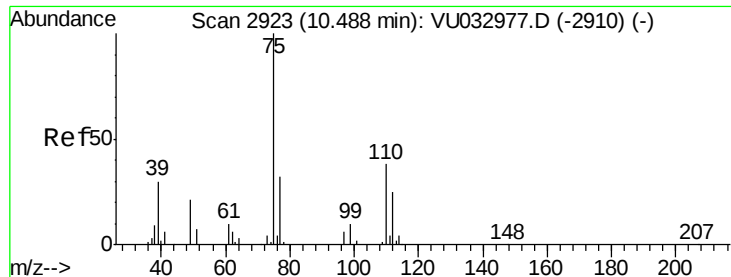
Ion Ratio Lower Upper

83 100

85 63.6 45.8 85.2

131 10.3 7.8 11.8

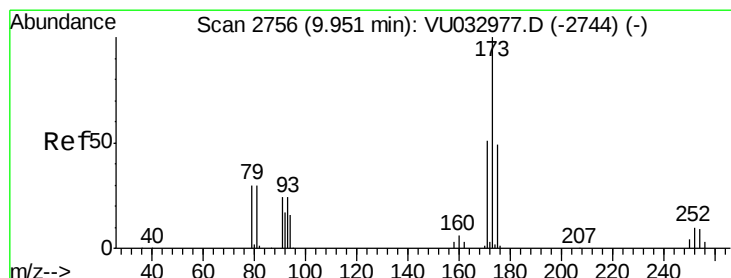
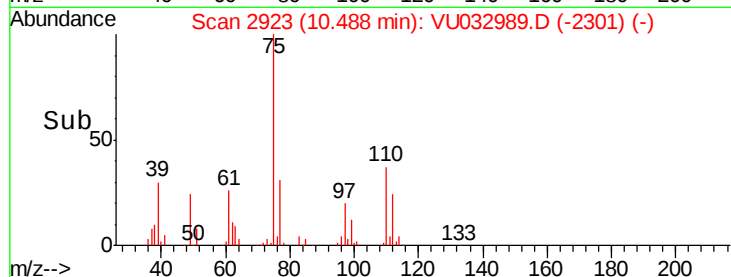
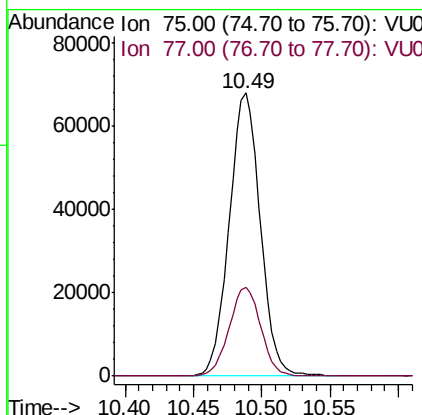
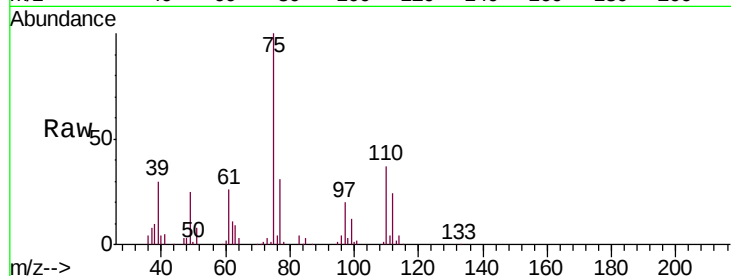




#59
 1,2,3-Trichloropropane
 Concen: 51.936 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

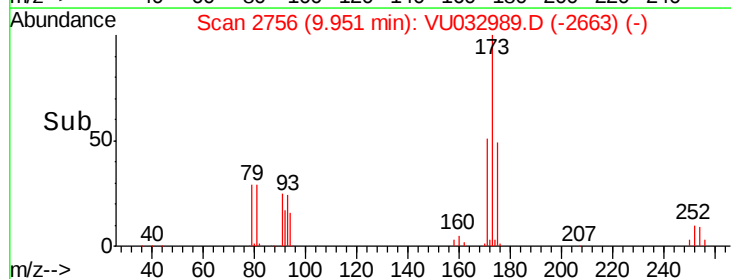
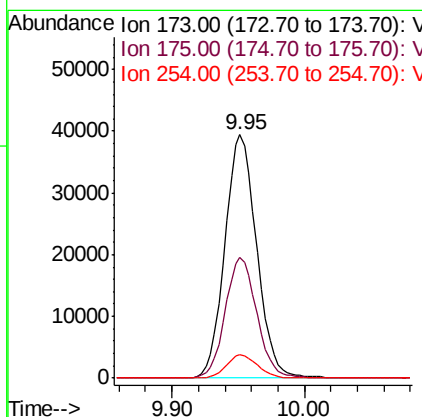
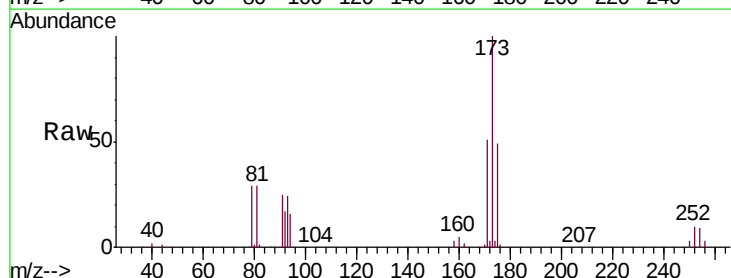
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

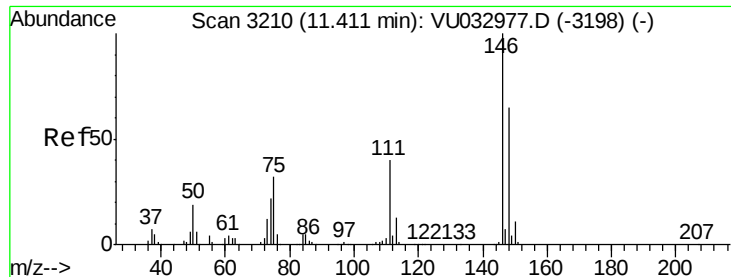
Tgt Ion: 75 Resp: 107486
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.5 38.3



#61
 Bromoform
 Concen: 48.823 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion: 173 Resp: 65664
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.0 58.4
 254 9.4 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 49.988 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

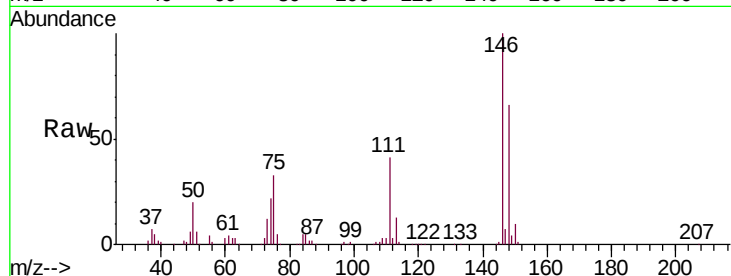
Tgt Ion:146 Resp: 160041

Ion Ratio Lower Upper

146 100

111 41.4 28.4 52.8

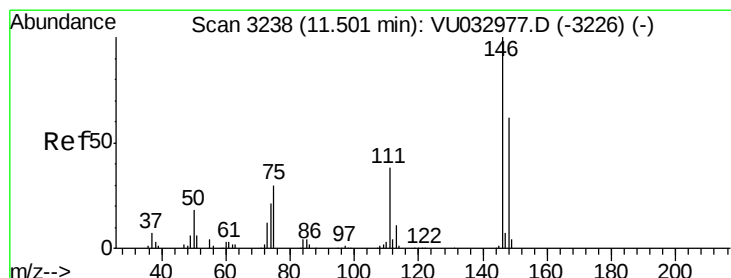
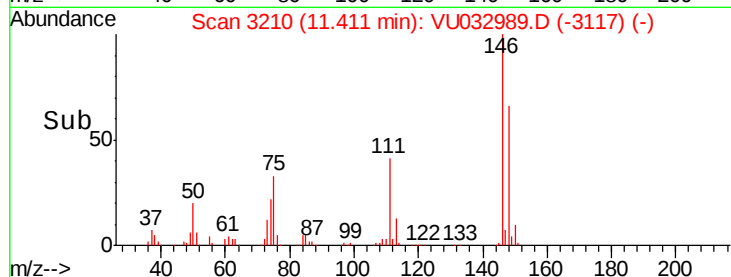
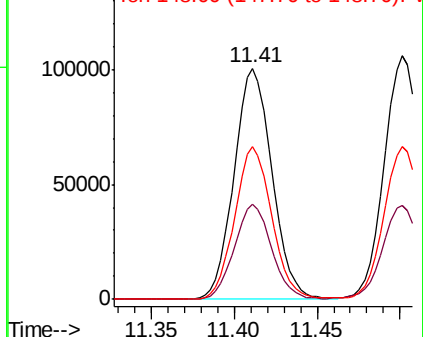
148 66.1 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.698 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

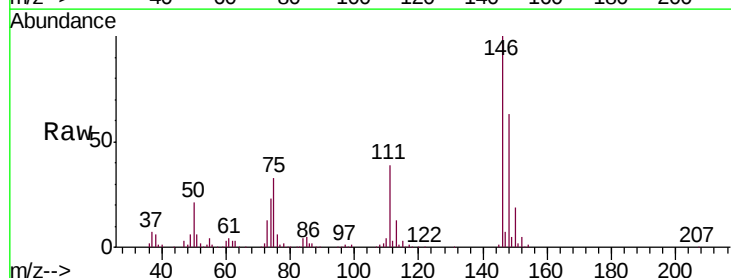
Tgt Ion:146 Resp: 164342

Ion Ratio Lower Upper

146 100

111 38.7 26.9 50.1

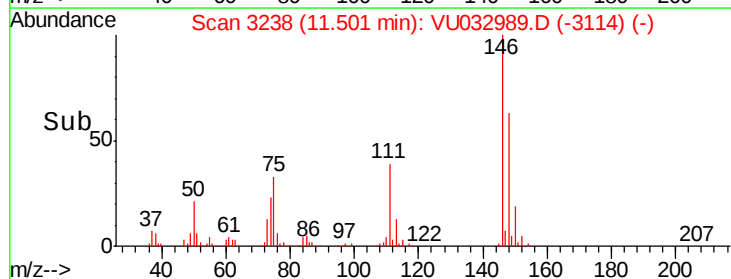
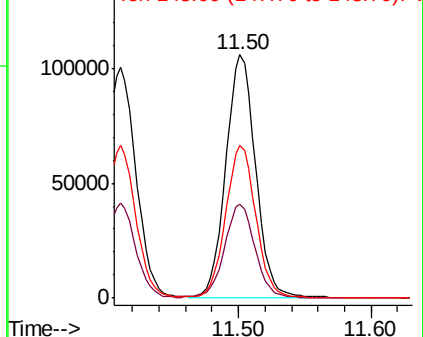
148 62.6 44.7 83.1

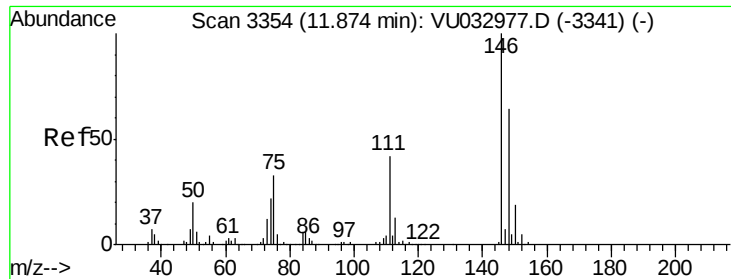


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

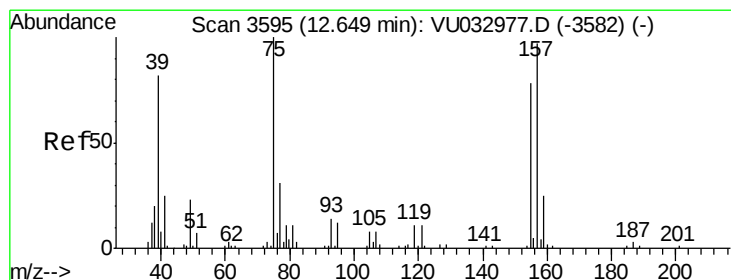
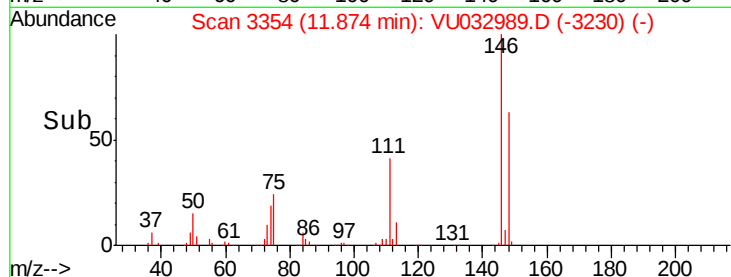
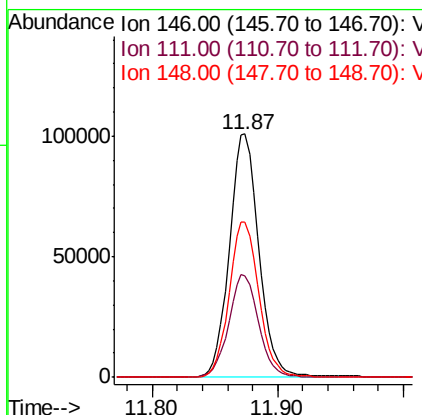
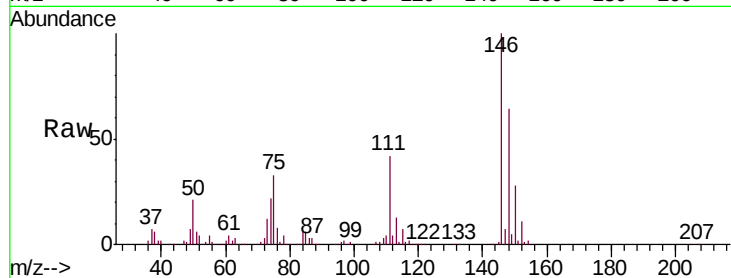




#65
 1,2-Dichlorobenzene
 Concen: 50.117 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

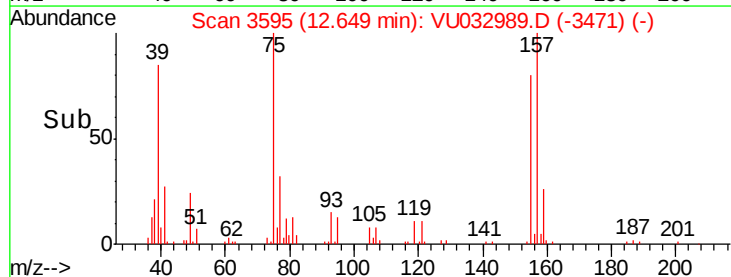
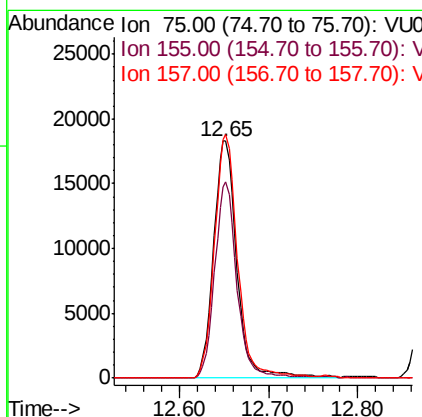
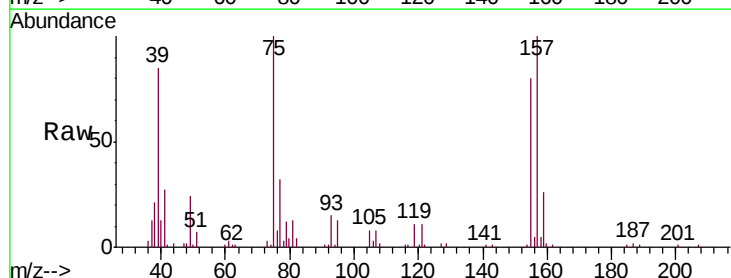
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

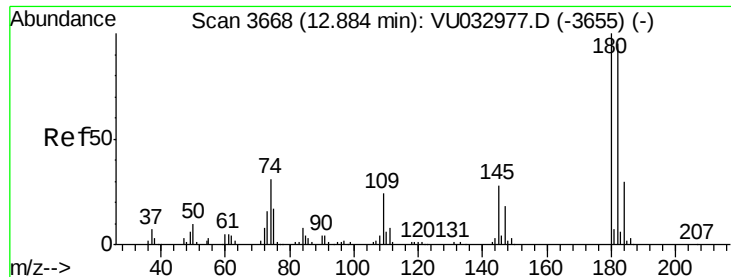
Tgt Ion: 146 Resp: 163832
 Ion Ratio Lower Upper
 146 100
 111 41.8 34.1 51.1
 148 63.7 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 53.228 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion: 75 Resp: 33196
 Ion Ratio Lower Upper
 75 100
 155 80.8 67.4 101.2
 157 100.4 85.5 128.3

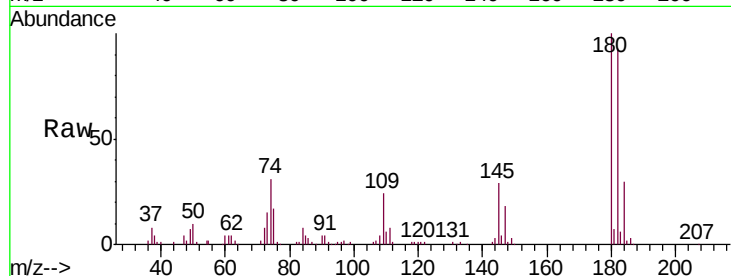




#67
 1,3,5-Trichlorobenzene
 Concen: 48.029 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	78.3	117.5
184	30.2	24.8	37.2
145	29.5	23.4	35.2



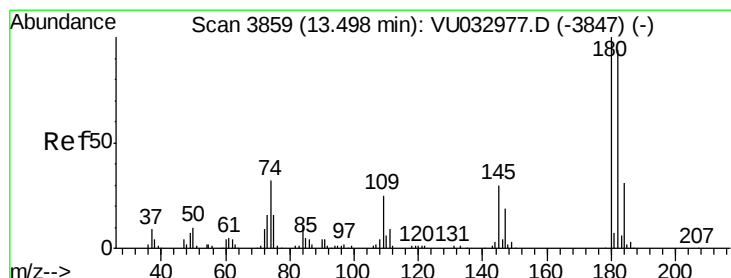
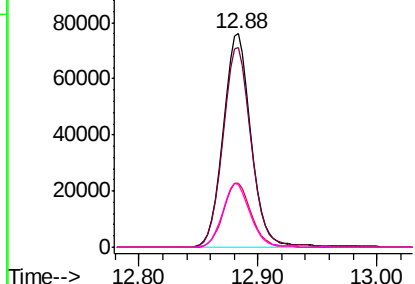
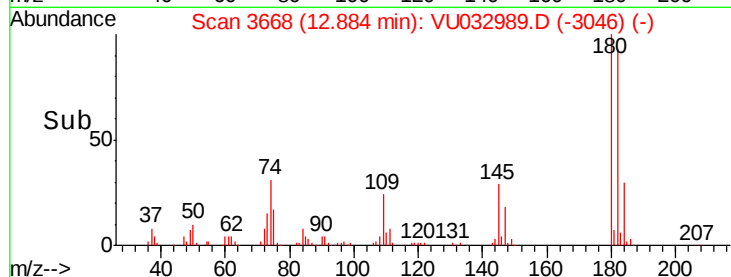
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

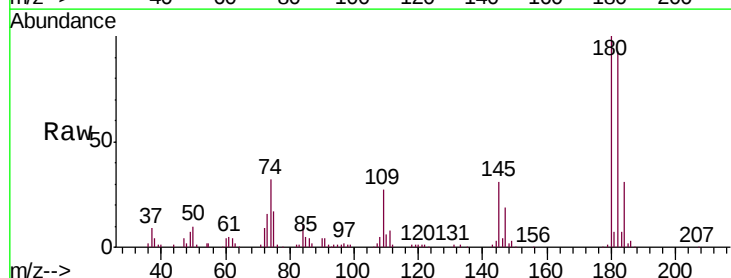
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.229 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032989.D
 Acq: 22 Jun 2019 09:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	76.2	114.4
145	29.5	23.8	35.8

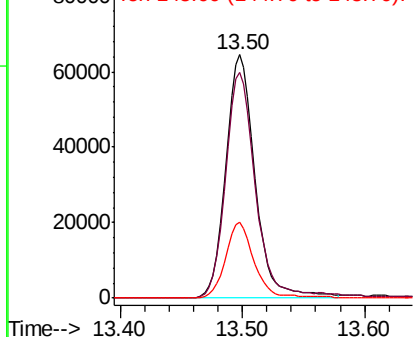
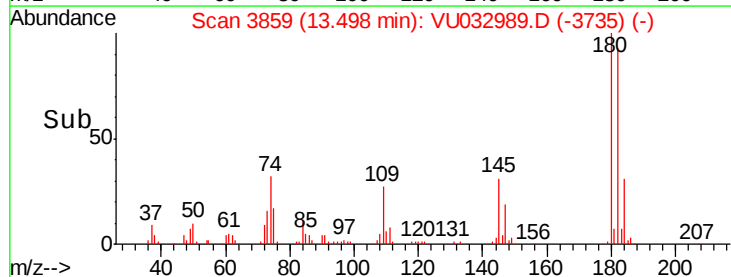


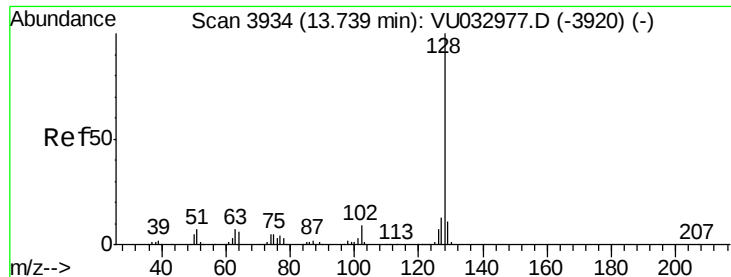
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.518 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

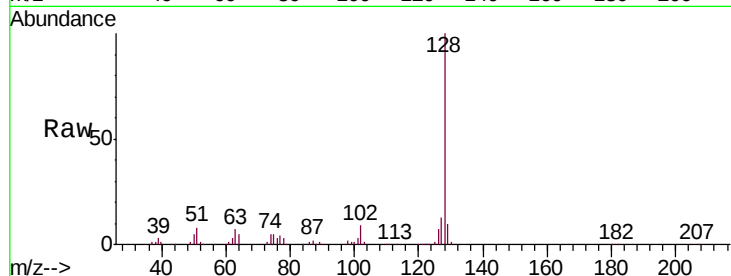
Tgt Ion:128 Resp: 343811

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

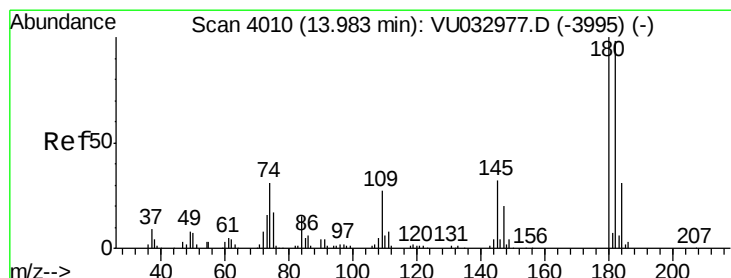
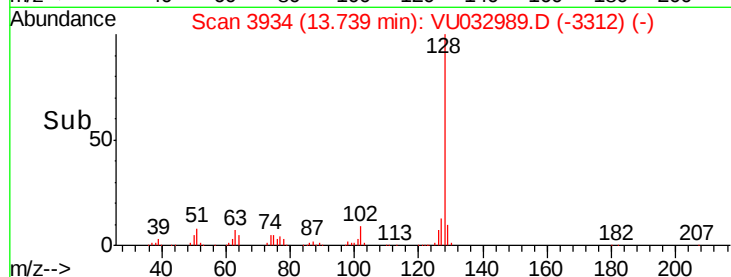
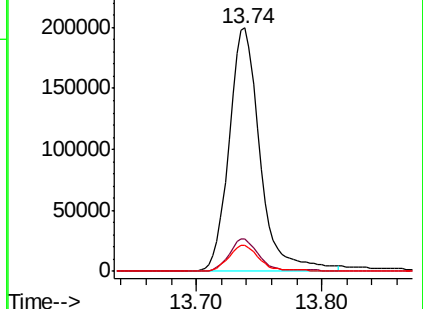
129 10.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.760 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032989.D

Acq: 22 Jun 2019 09:38

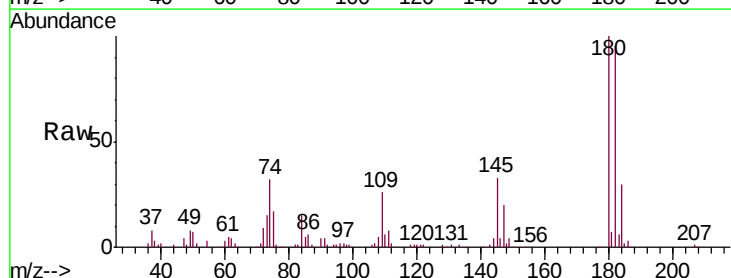
Tgt Ion:180 Resp: 116601

Ion Ratio Lower Upper

180 100

182 95.4 77.0 115.6

145 32.7 25.5 38.3



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

