

Data File : VU033897.D
Acq On : 22 Aug 2019 01:41
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Quant Time: Aug 22 07:24:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 07:18:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	379317	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	386046	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	208403	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	128335	37.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.22%
7) Chloroethane-d5	1.67	69	119805	37.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.06%
11) 1,1-Dichloroethene-d2	2.26	63	234695	41.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.30%
21) 2-Butanone-d5	4.15	46	196325	109.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.70%
24) Chloroform-d	4.62	84	258354	47.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.06%
26) 1,2-Dichloroethane-d4	5.29	65	162224	47.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.42%
32) Benzene-d6	5.31	84	470058	43.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.31	67	158055	45.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.16%
41) Toluene-d8	7.55	98	427263	42.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.50%
43) trans-1,3-Dichloropropene-	7.83	79	69368	42.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.86%
47) 2-Hexanone-d5	8.29	63	138590	107.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.33%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	255870	52.80	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	188077	45.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	177775	47.802	ug/L	100
3) Chloromethane	1.32	50	153007	40.003	ug/L	98
5) Vinyl chloride	1.39	62	215854	50.665	ug/L #	78
6) Bromomethane	1.61	94	53841	16.715	ug/L	98
8) Chloroethane	1.68	64	135429	45.886	ug/L	92
9) Trichlorofluoromethane	1.87	101	282553	50.009	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	130697	48.322	ug/L	100
12) 1,1-Dichloroethene	2.27	96	130305	49.706	ug/L	95
13) Acetone	2.31	43	144385	82.086	ug/L	98
14) Carbon disulfide	2.46	76	400511	48.449	ug/L	99
15) Methyl Acetate	2.60	43	153806	53.024	ug/L	99
16) Methylene chloride	2.68	84	154483	50.853	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	133706	48.926	ug/L	98
18) Methyl tert-butyl Ether	2.98	73	411183	51.558	ug/L	99
19) 1,1-Dichloroethane	3.42	63	266814	50.737	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	154972	52.422	ug/L	99
22) 2-Butanone	4.23	43	214070	105.754	ug/L	98

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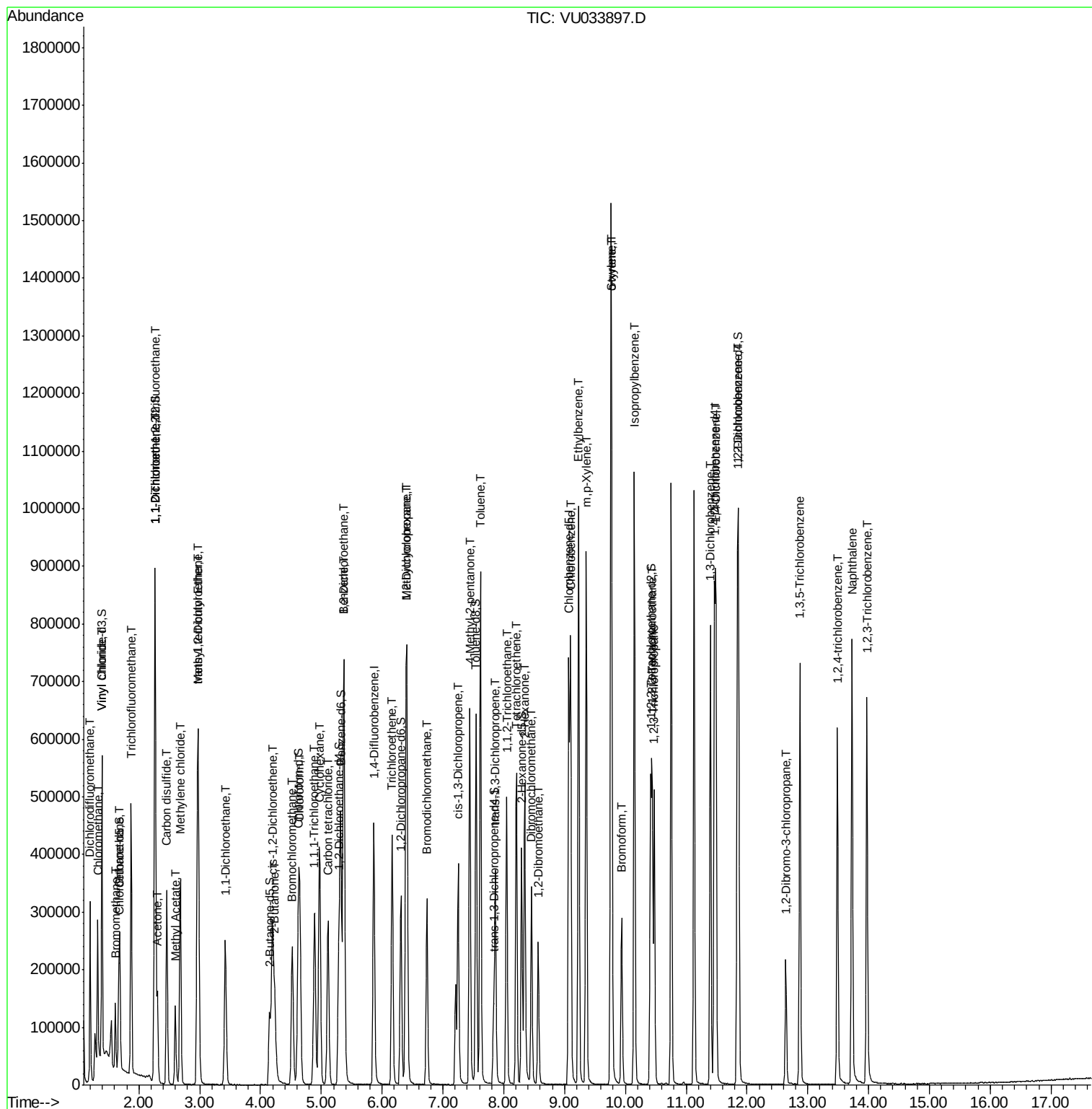
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	83316	51.691	ug/L	98
25) Chloroform	4.65	83	275417	50.395	ug/L	100
27) 1,2-Dichloroethane	5.38	62	217535	52.501	ug/L	99
29) Cyclohexane	4.97	56	206404	49.903	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	232895	50.112	ug/L	100
31) Carbon tetrachloride	5.11	117	206445	48.814	ug/L	100
33) Benzene	5.36	78	594191	50.953	ug/L	100
34) Trichloroethene	6.16	95	150031	48.206	ug/L	99
35) Methylcyclohexane	6.40	83	214391	47.041	ug/L	100
37) 1,2-Dichloropropane	6.41	63	163446	51.183	ug/L	99
38) Bromodichloromethane	6.74	83	211322	51.111	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	223144	47.945	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	408349	108.932	ug/L	100
42) Toluene	7.62	91	644101	52.247	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	208764	48.809	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	150545	50.227	ug/L	98
46) Tetrachloroethene	8.21	164	121174	48.564	ug/L	98
48) 2-Hexanone	8.34	43	321828	109.488	ug/L	99
49) Dibromochloromethane	8.46	129	175488	51.852	ug/L	99
50) 1,2-Dibromoethane	8.57	107	165027	51.711	ug/L	100
51) Chlorobenzene	9.10	112	404133	49.632	ug/L	98
52) Ethylbenzene	9.23	91	674296	51.624	ug/L	99
53) m,p-Xylene	9.36	106	257741	52.717	ug/L	98
54) o-xylene	9.76	106	255487	53.929	ug/L	98
55) Styrene	9.77	104	445429	54.874	ug/L	99
56) Isopropylbenzene	10.15	105	650665	52.529	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	266862	55.009	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	208351	53.866	ug/L	100
61) Bromoform	9.94	173	130201	50.164	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	323988	49.541	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	329984	48.741	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	329679	50.290	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	55710	51.110	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	235687	46.721	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	194680	47.131	ug/L	99
69) Naphthalene	13.73	128	616387	54.066	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	217898	50.827	ug/L	98

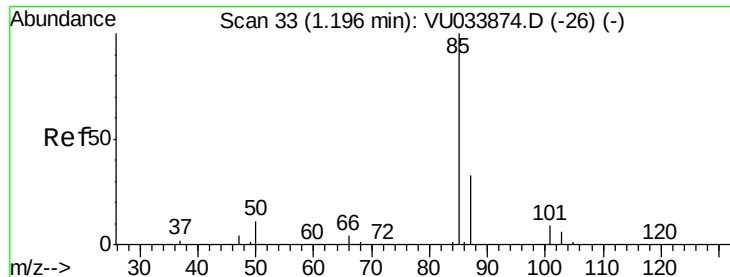
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.802 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

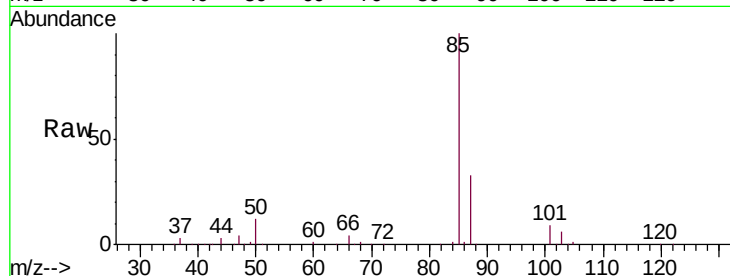
VSTD05049

Tgt Ion: 85 Resp: 177775

Ion Ratio Lower Upper

85 100

87 32.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033897.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033897.D (-1) (-)

1.20

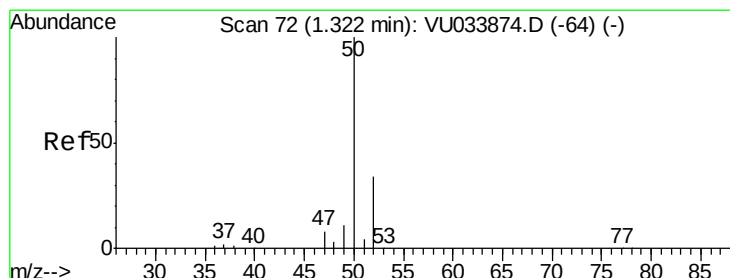
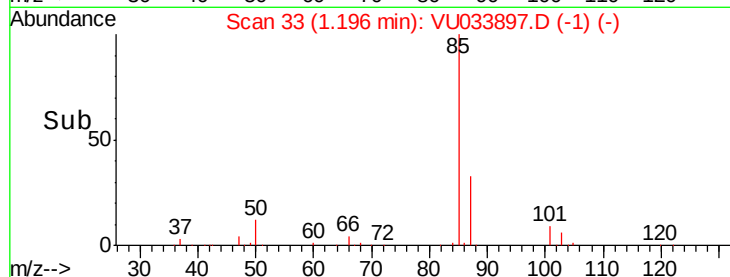
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 40.003 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033897.D

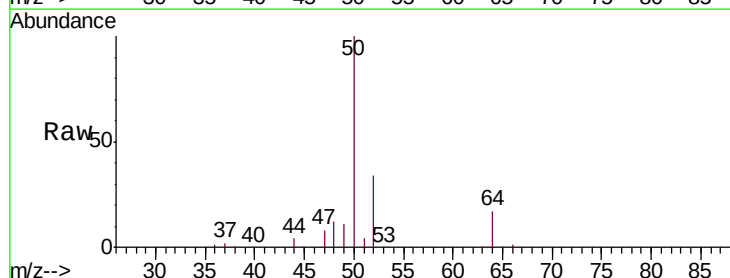
Acq: 22 Aug 2019 01:41

Tgt Ion: 50 Resp: 153007

Ion Ratio Lower Upper

50 100

52 34.2 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033897.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033897.D (-1) (-)

1.32

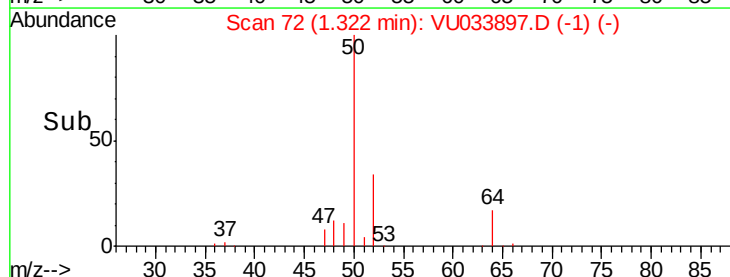
150000

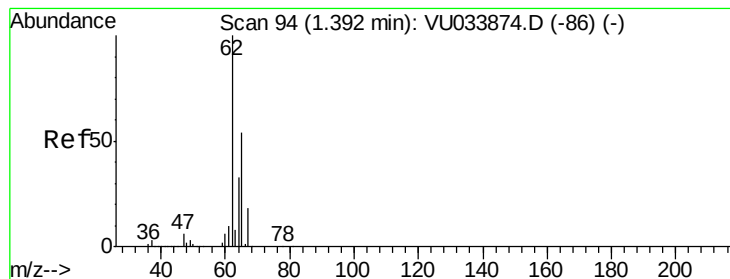
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 50.665 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

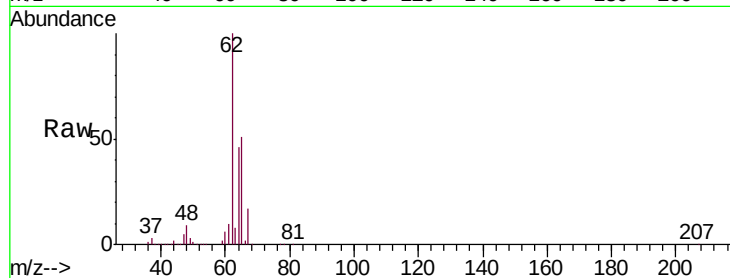
VSTD05049

Tgt Ion: 62 Resp: 215854

Ion Ratio Lower Upper

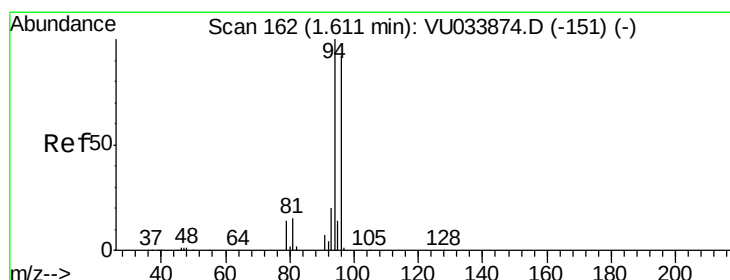
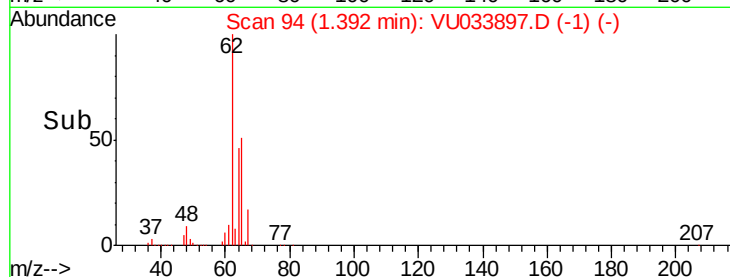
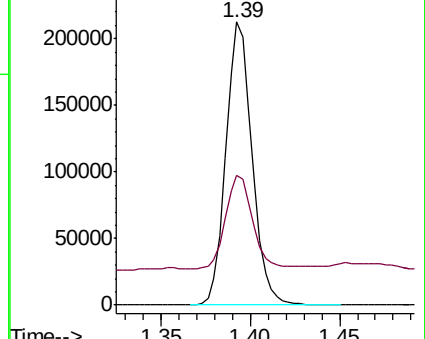
62 100

64 46.0 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VU033897.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU033897.D (-1) (-)



#6

Bromomethane

Concen: 16.715 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU033897.D

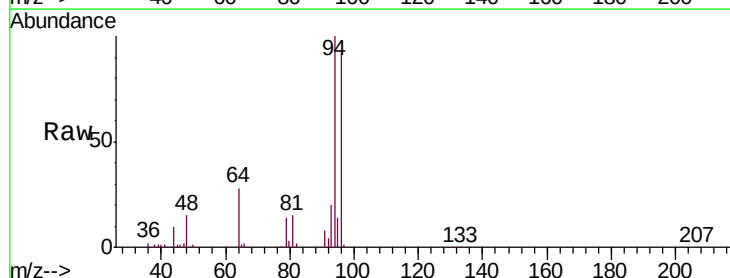
Acq: 22 Aug 2019 01:41

Tgt Ion: 94 Resp: 53841

Ion Ratio Lower Upper

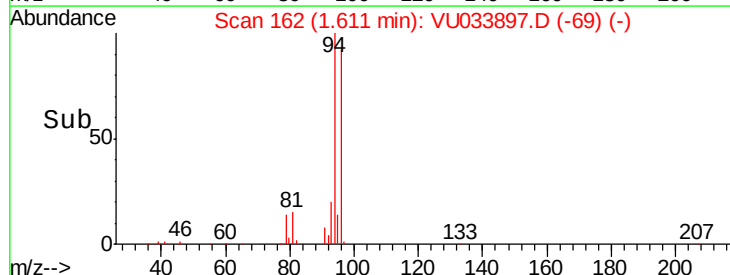
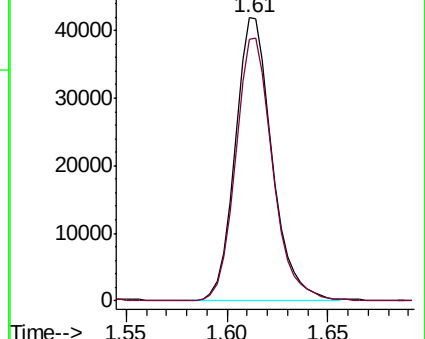
94 100

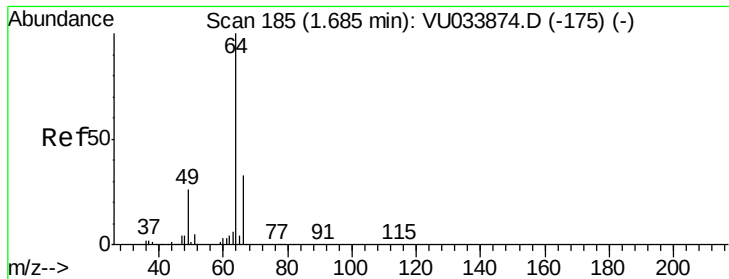
96 92.4 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033897.D (-69) (-)

Ion 96.00 (95.70 to 96.70): VU033897.D (-69) (-)





#8

Chloroethane

Concen: 45.886 ug/L

RT: 1.68 min Scan# 185

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

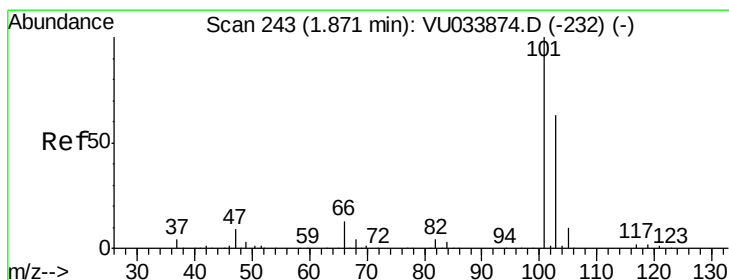
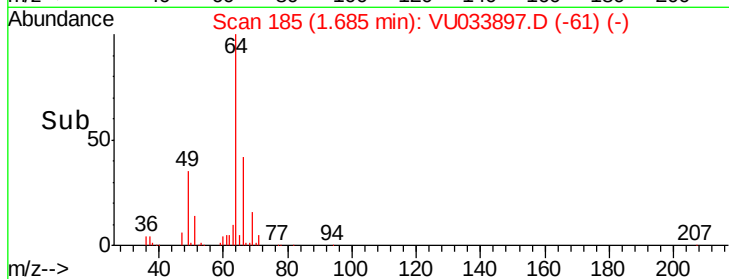
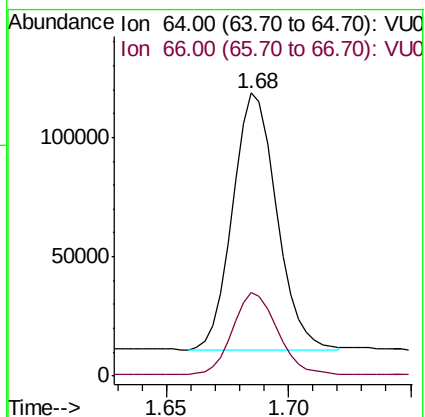
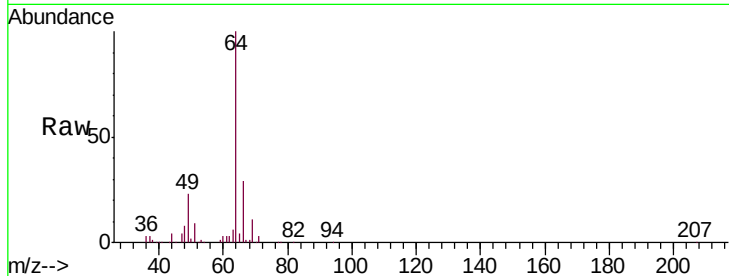
VSTD05049

Tgt Ion: 64 Resp: 135429

Ion Ratio Lower Upper

64 100

66 29.5 23.9 44.3



#9

Trichlorofluoromethane

Concen: 50.009 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033897.D

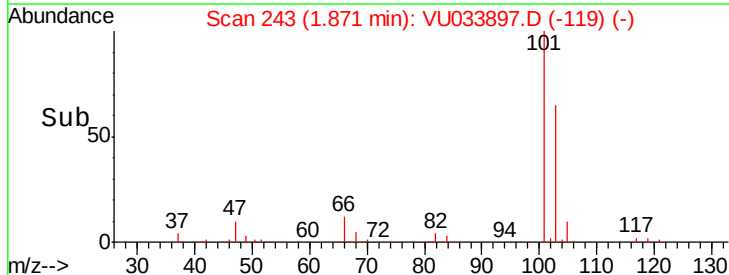
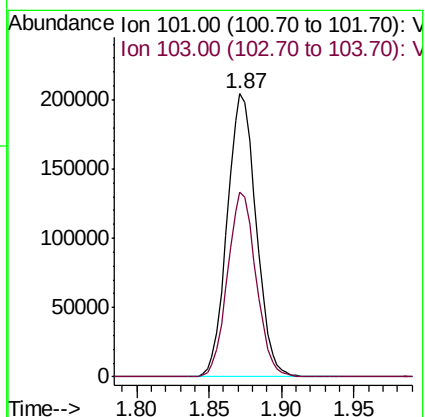
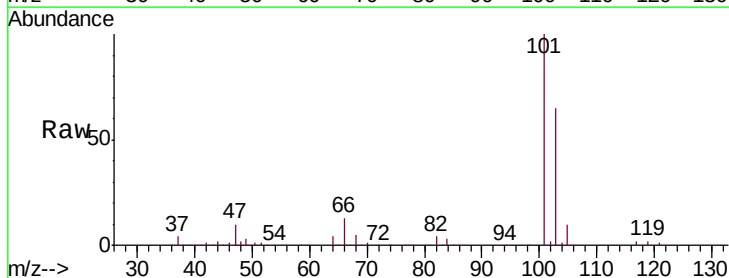
Acq: 22 Aug 2019 01:41

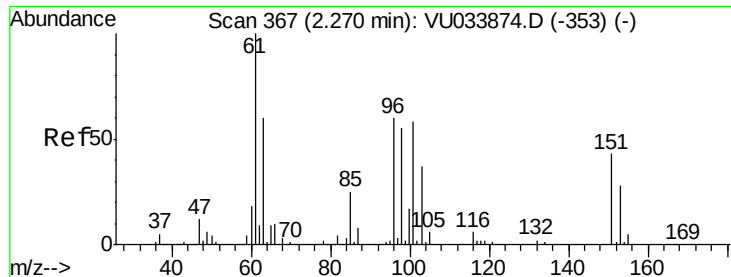
Tgt Ion: 101 Resp: 282553

Ion Ratio Lower Upper

101 100

103 64.3 51.9 77.9





#10

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

Concen: 48.322 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

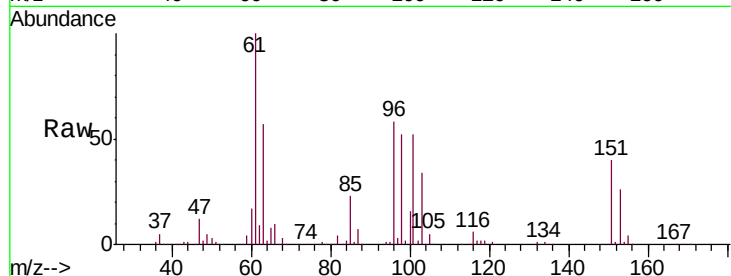
Tgt Ion: 101 Resp: 130697

Ion Ratio Lower Upper

101 100

85 44.3 35.2 52.8

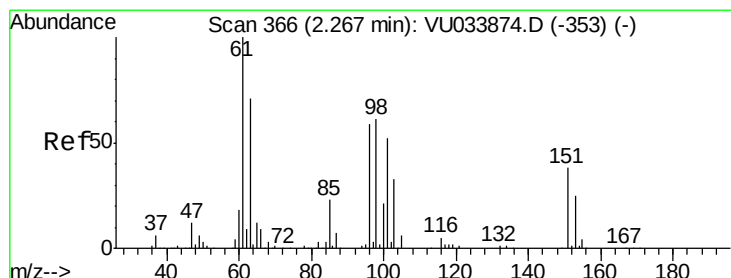
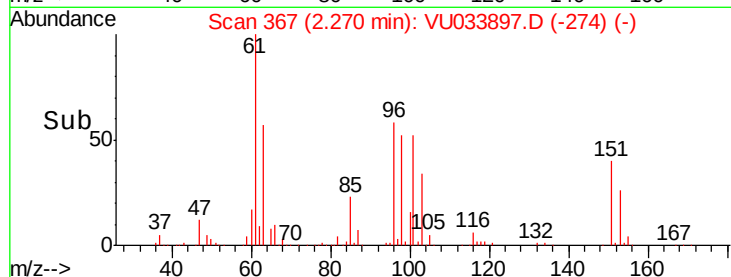
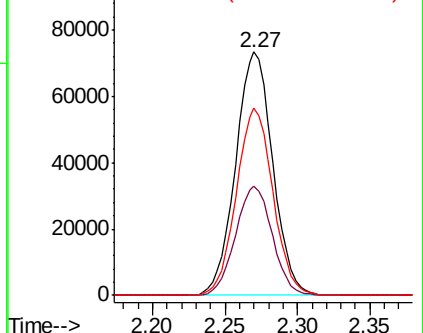
151 75.7 60.4 90.6



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: 49.706 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

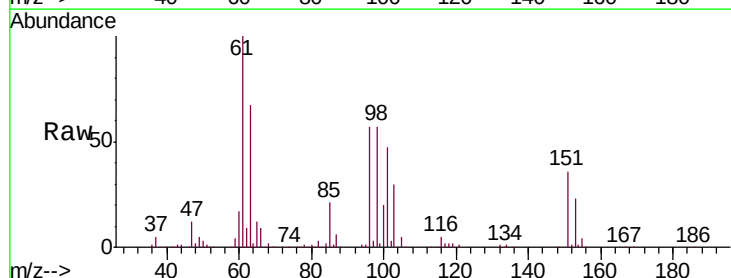
Tgt Ion: 96 Resp: 130305

Ion Ratio Lower Upper

96 100

61 175.3 123.7 229.7

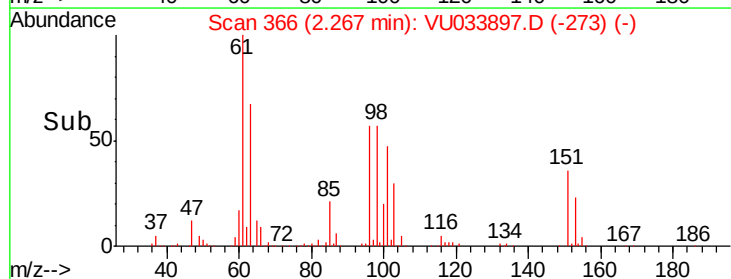
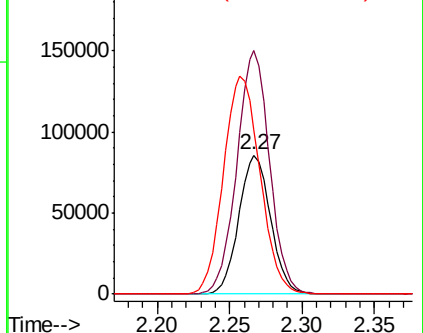
63 118.1 91.2 169.4

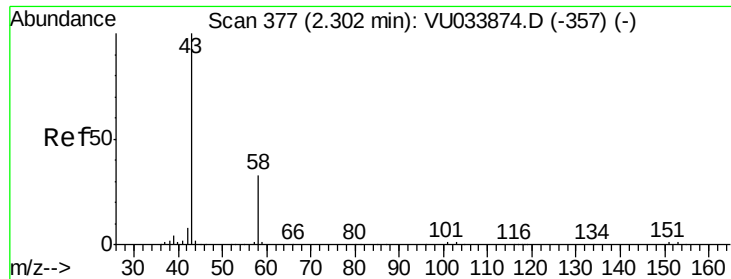


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.086 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

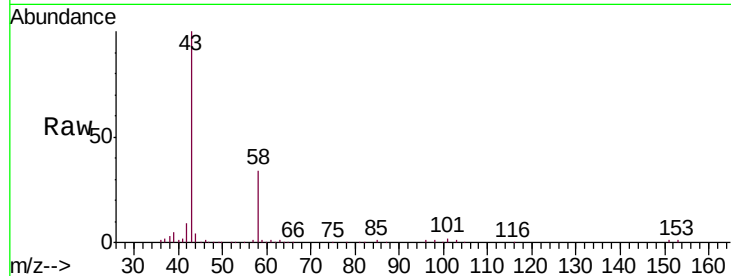
VSTD05049

Tgt Ion: 43 Resp: 144385

Ion Ratio Lower Upper

43 100

58 33.6 0.0 69.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.31

100000

80000

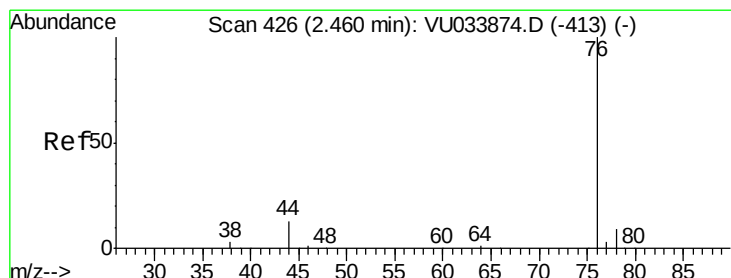
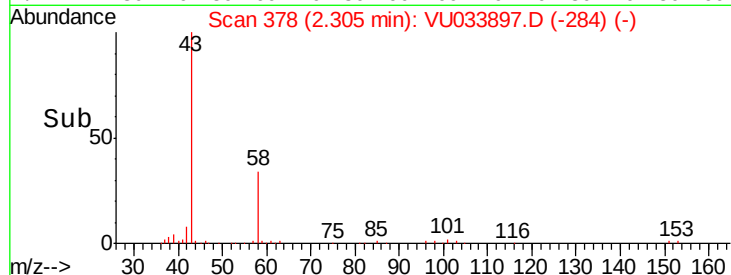
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 48.449 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033897.D

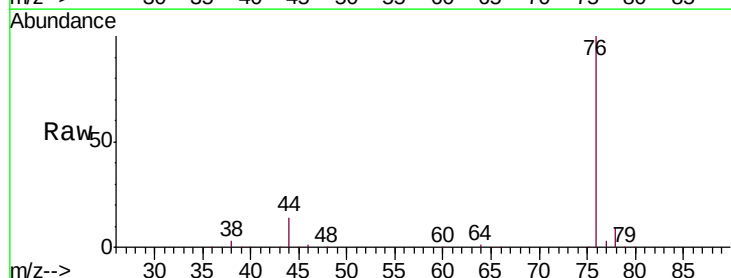
Acq: 22 Aug 2019 01:41

Tgt Ion: 76 Resp: 400511

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.46

300000

250000

200000

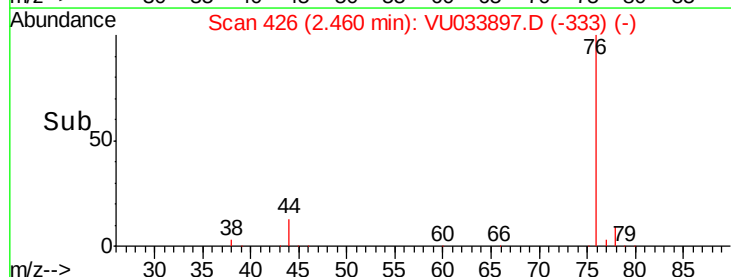
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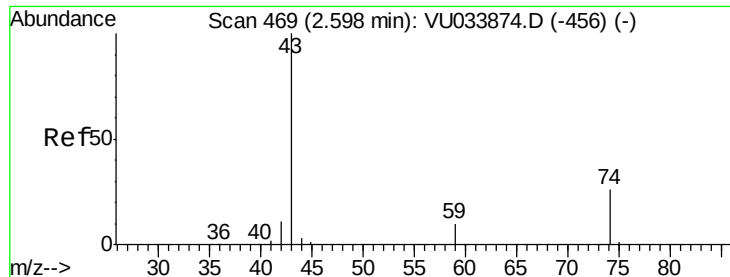
100000

50000

0

Time-->





#15

Methyl Acetate

Concen: 53.024 ug/L

RT: 2.60 min Scan# 469

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

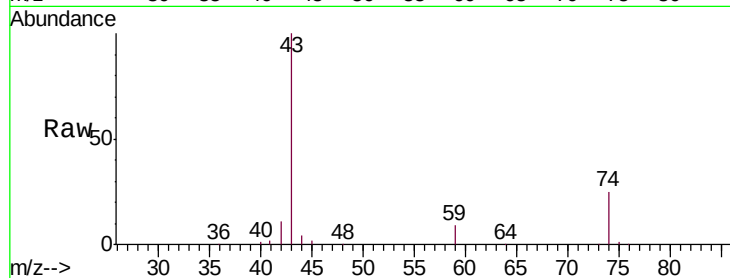
VSTD05049

Tgt Ion: 43 Resp: 153806

Ion Ratio Lower Upper

43 100

74 25.2 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VU033897.D (-456) (-)

Ion 74.00 (73.70 to 74.70): VU033897.D (-456) (-)

2.60

80000

60000

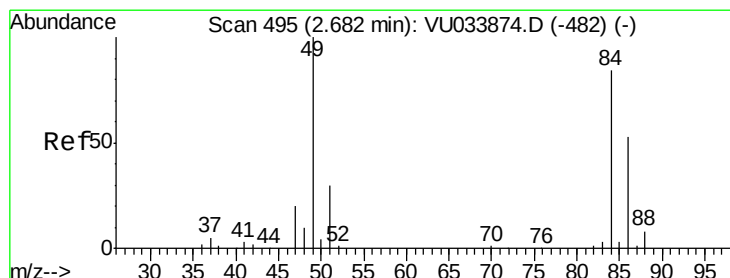
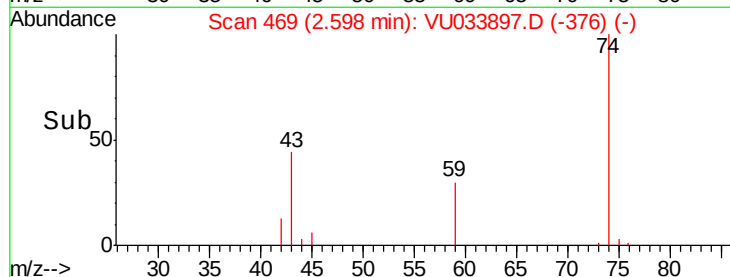
40000

20000

0

Time-->

2.50 2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 50.853 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

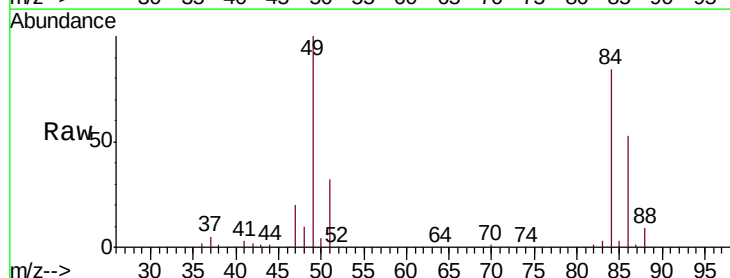
Tgt Ion: 84 Resp: 154483

Ion Ratio Lower Upper

84 100

86 62.7 46.1 85.5

49 119.0 85.6 159.0



Abundance Ion 84.00 (83.70 to 84.70): VU033897.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU033897.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU033897.D (-482) (-)

2.68

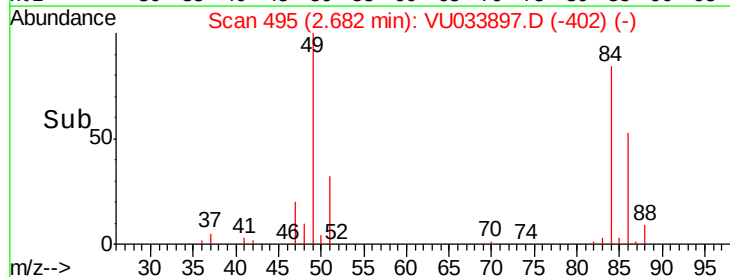
100000

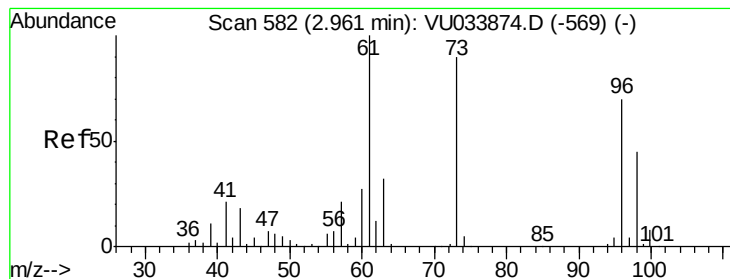
50000

0

Time-->

2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 48.926 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

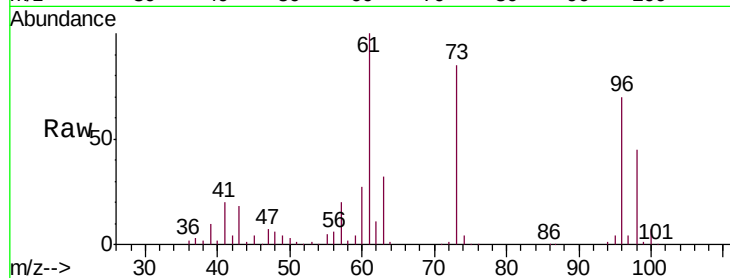
Tgt Ion: 96 Resp: 133706

Ion Ratio Lower Upper

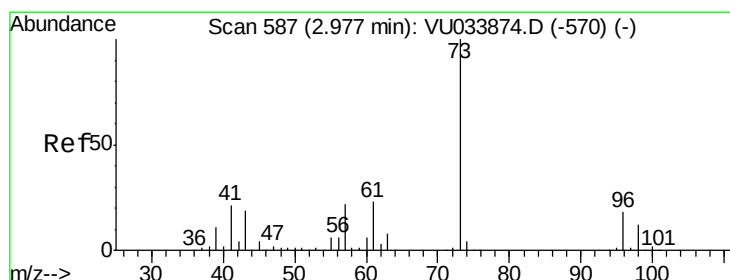
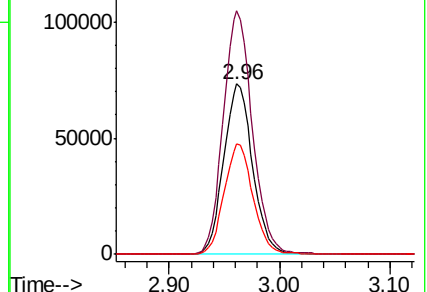
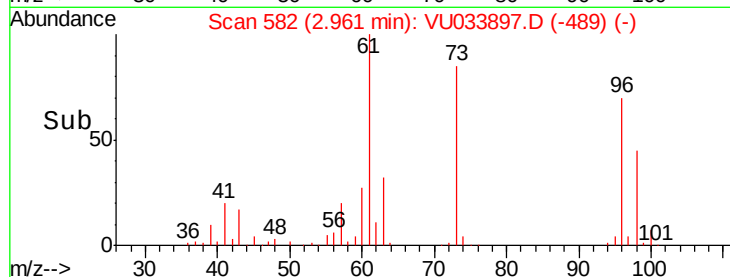
96 100

61 143.0 98.6 183.2

98 64.8 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033897.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 51.558 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

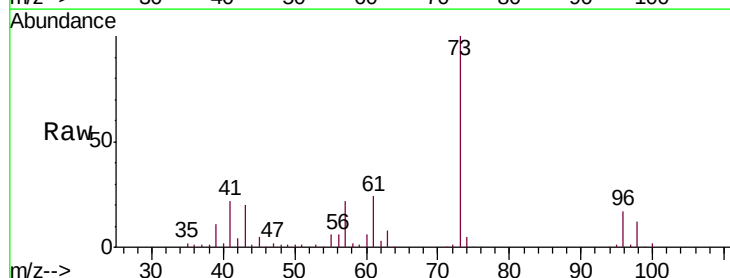
Tgt Ion: 73 Resp: 411183

Ion Ratio Lower Upper

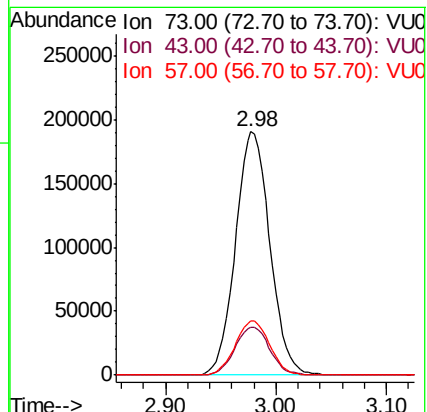
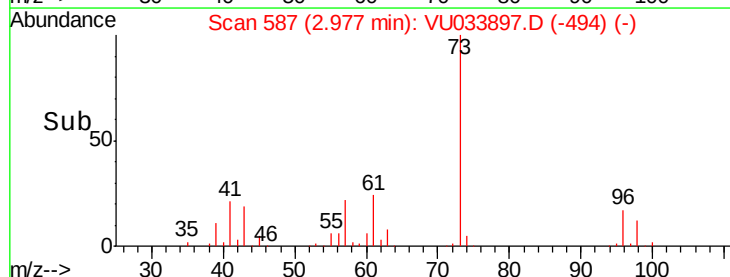
73 100

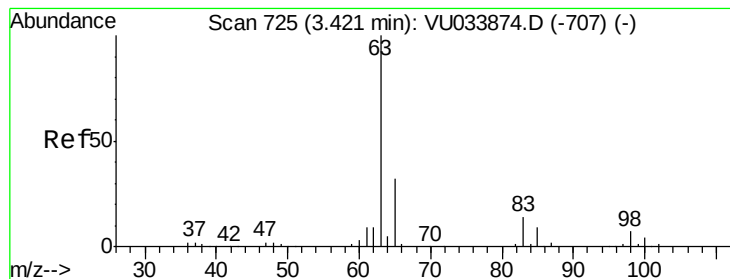
43 19.8 15.2 22.8

57 22.5 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VU033897.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 50.737 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

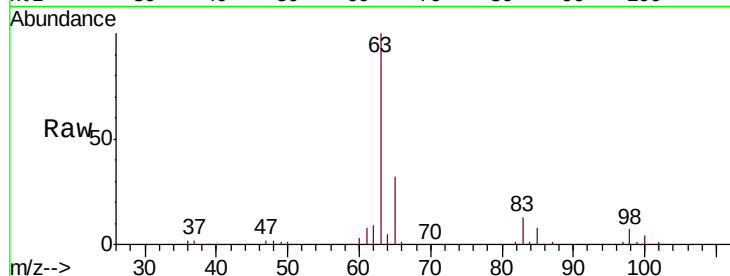
Tgt Ion: 63 Resp: 266814

Ion Ratio Lower Upper

63 100

65 32.0 21.8 40.6

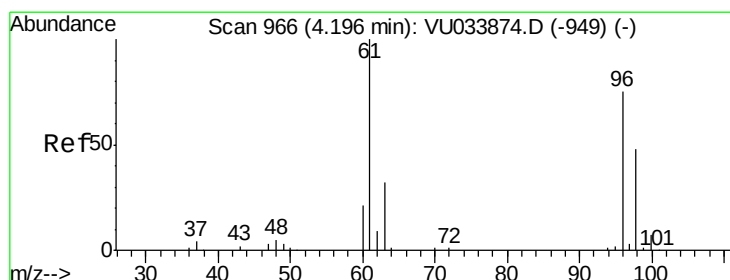
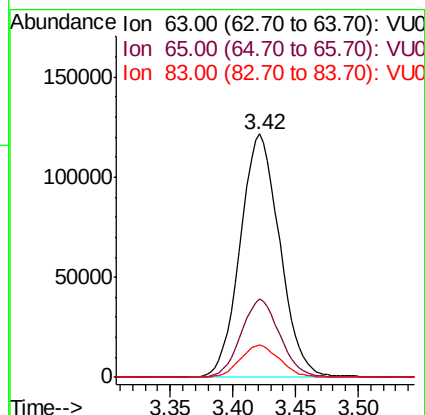
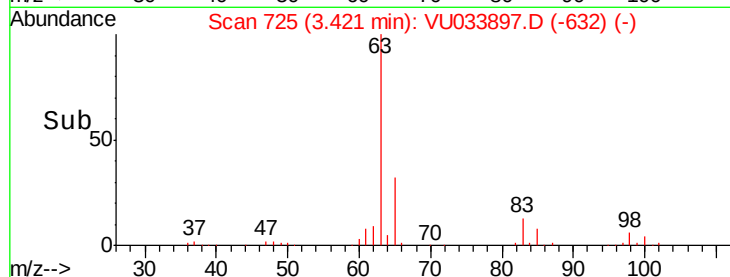
83 13.3 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU033897.D (-707) (-)

Ion 65.00 (64.70 to 65.70): VU033897.D (-707) (-)

Ion 83.00 (82.70 to 83.70): VU033897.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.422 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

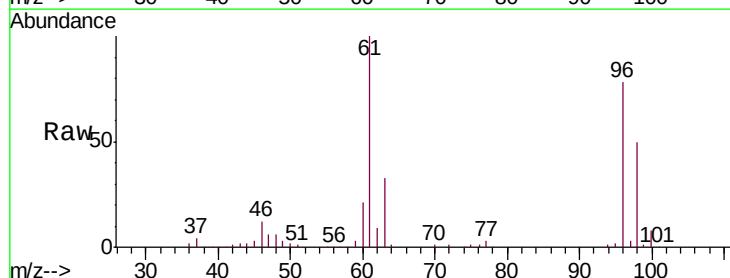
Tgt Ion: 96 Resp: 154972

Ion Ratio Lower Upper

96 100

61 127.5 88.2 163.8

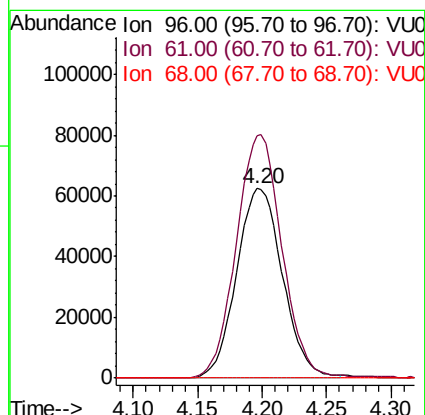
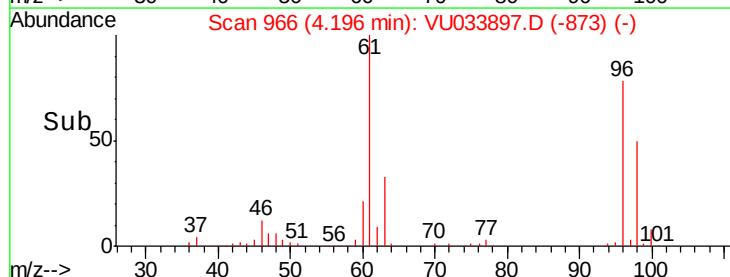
68 0.0 0.0 0.0

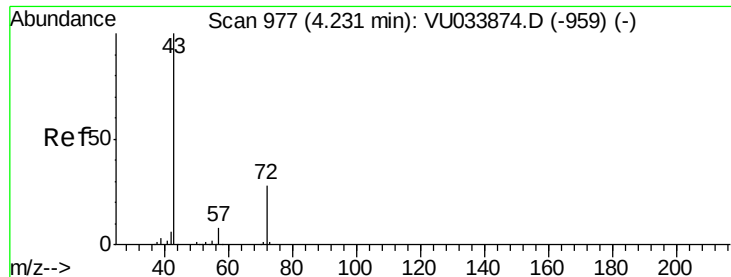


Abundance Ion 96.00 (95.70 to 96.70): VU033897.D (-873) (-)

Ion 61.00 (60.70 to 61.70): VU033897.D (-873) (-)

Ion 68.00 (67.70 to 68.70): VU033897.D (-873) (-)





#22

2-Butanone

Concen: 105.754 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

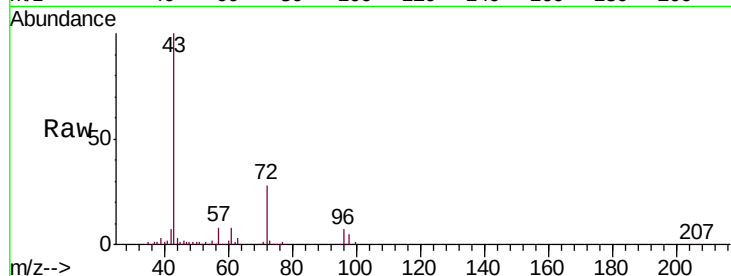
VSTD05049

Tgt Ion: 43 Resp: 214070

Ion Ratio Lower Upper

43 100

72 27.5 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033897.D (-959) (-)

Ion 72.00 (71.70 to 72.70): VU033897.D (-959) (-)

4.23

80000

60000

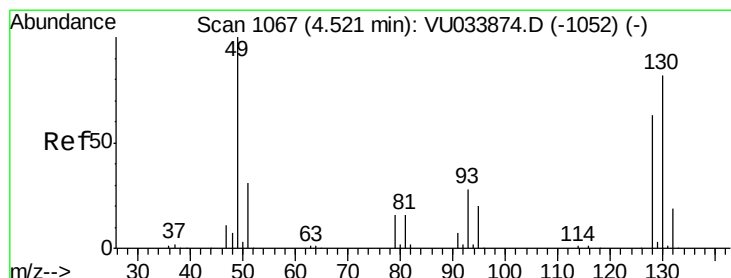
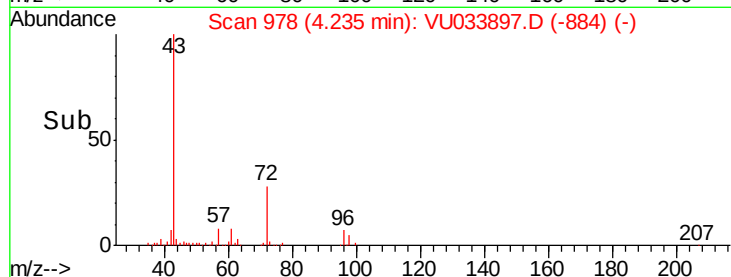
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 51.691 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Tgt Ion: 128 Resp: 83316

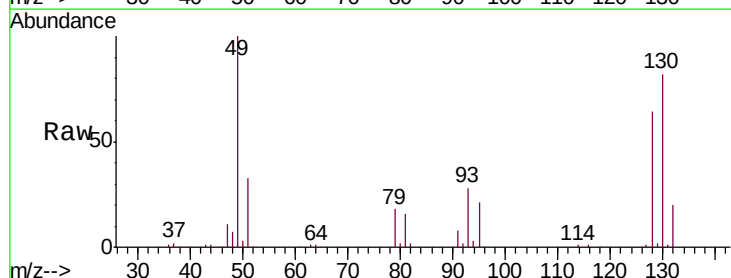
Ion Ratio Lower Upper

128 100

49 156.9 106.7 198.3

130 129.4 90.4 168.0

51 51.1 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU033897.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU033897.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU033897.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU033897.D (-974) (-)

80000

60000

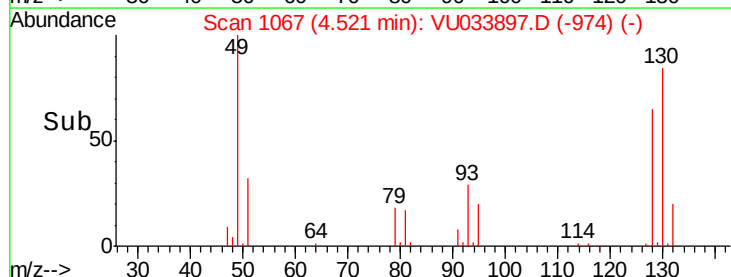
40000

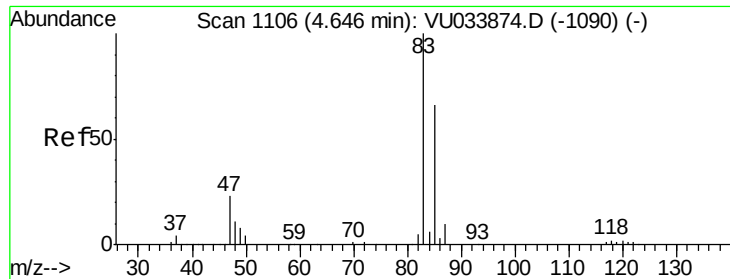
20000

0

4.45 4.50 4.55 4.60

Time-->

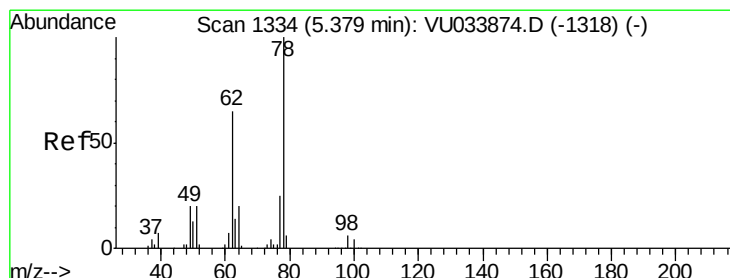
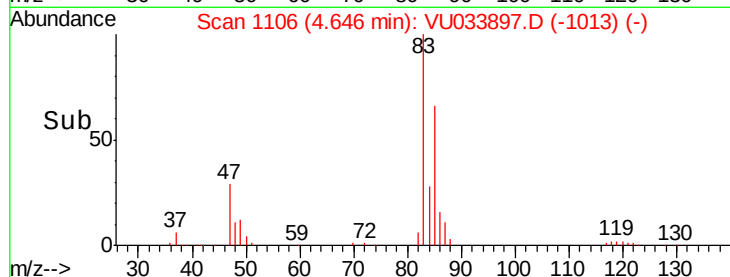
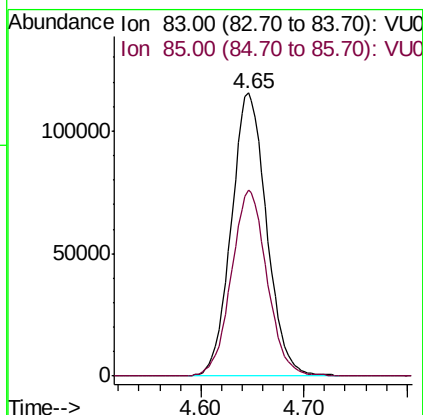
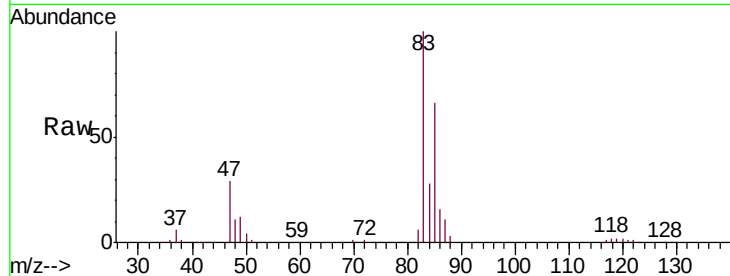




#25
 Chloroform
 Concen: 50.395 ug/L
 RT: 4.65 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

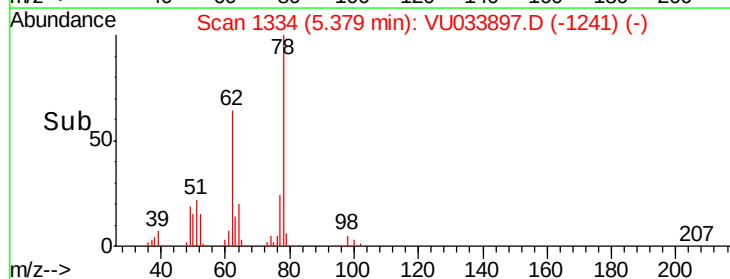
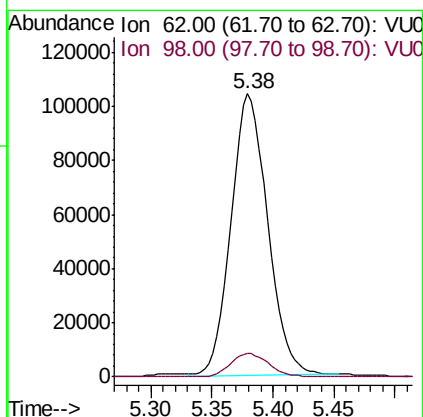
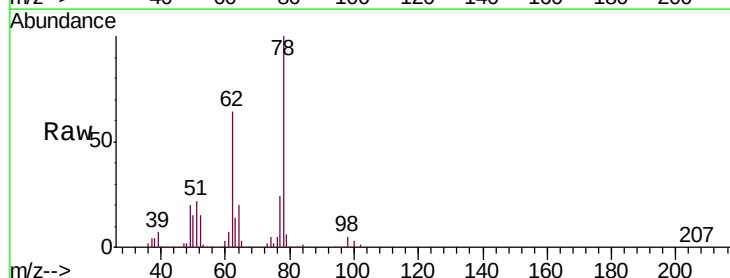
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

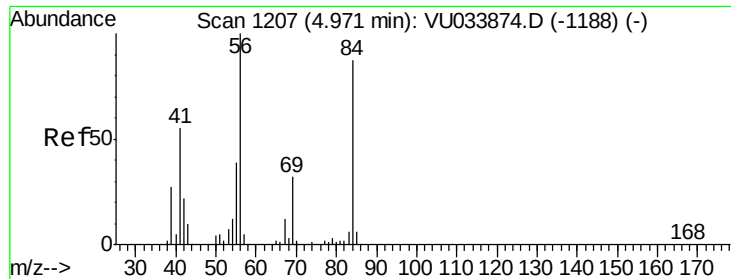
Tgt Ion: 83 Resp: 275417
 Ion Ratio Lower Upper
 83 100
 85 65.8 46.3 86.1



#27
 1,2-Dichloroethane
 Concen: 52.501 ug/L
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion: 62 Resp: 217535
 Ion Ratio Lower Upper
 62 100
 98 8.5 7.0 10.6

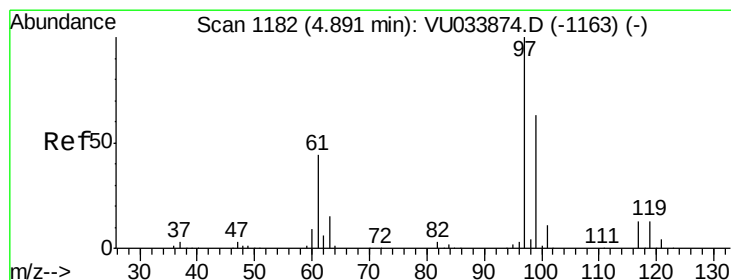
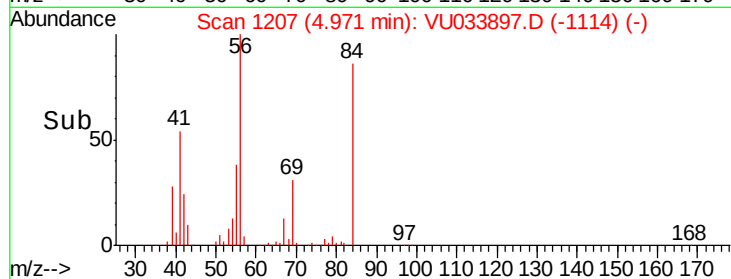
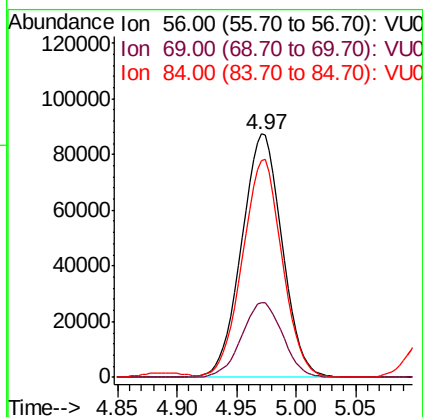
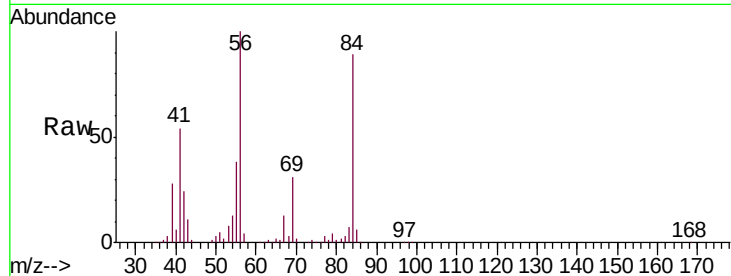




#29
Cyclohexane
Concen: 49.903 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033897.D
Acq: 22 Aug 2019 01:41

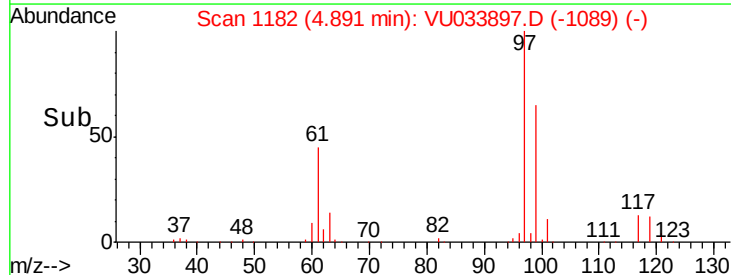
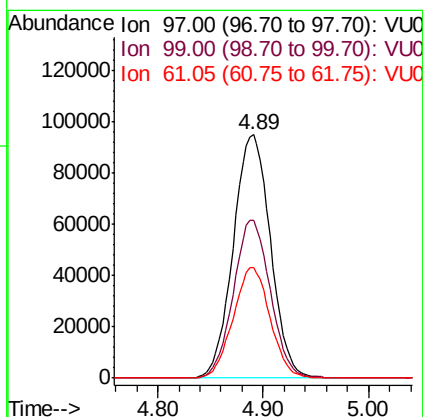
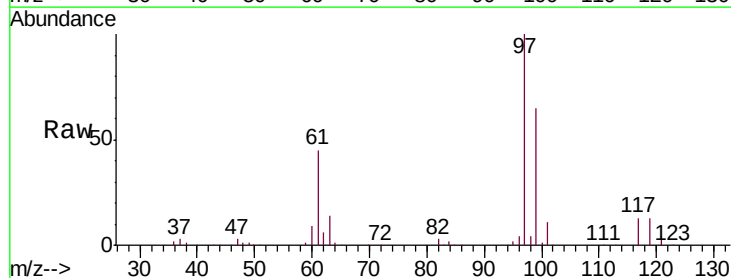
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

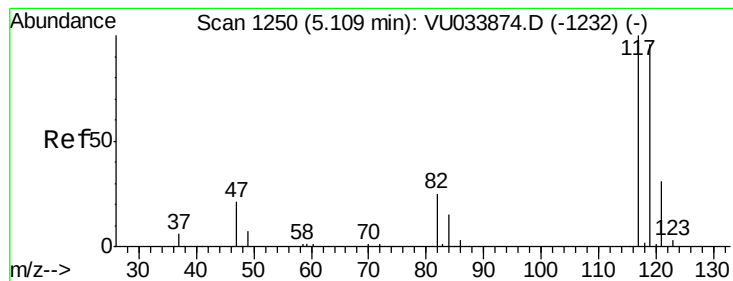
Tgt Ion: 56 Resp: 206404
Ion Ratio Lower Upper
56 100
69 31.0 24.4 36.6
84 87.6 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 50.112 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033897.D
Acq: 22 Aug 2019 01:41

Tgt Ion: 97 Resp: 232895
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.8
61 45.0 35.8 53.6





#31

Carbon tetrachloride

Concen: 48.814 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

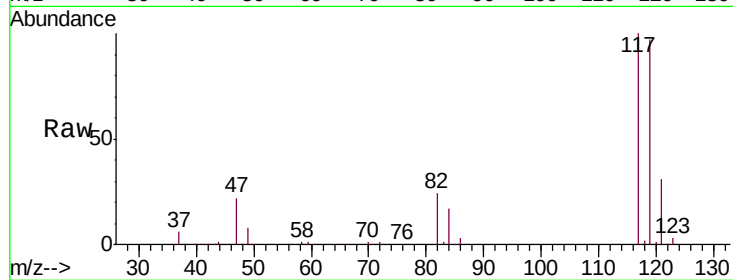
VSTD05049

Tgt Ion:117 Resp: 206445

Ion Ratio Lower Upper

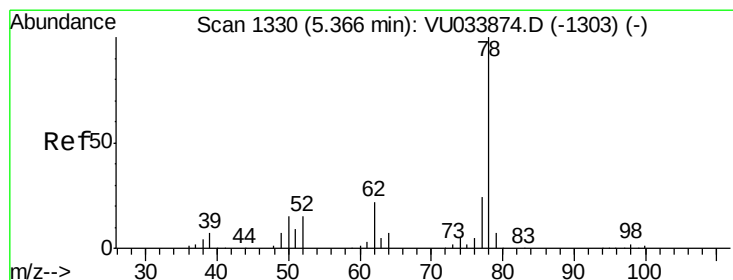
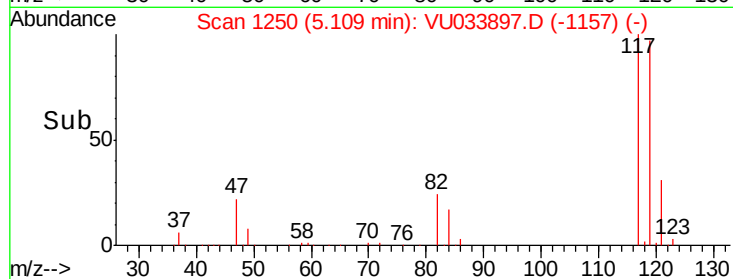
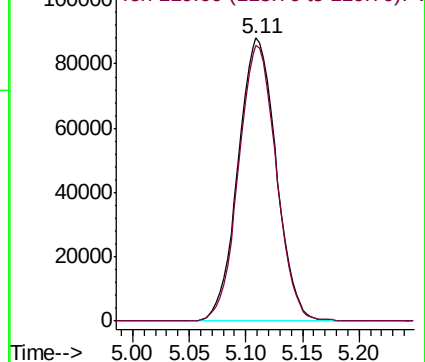
117 100

119 96.3 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.953 ug/L

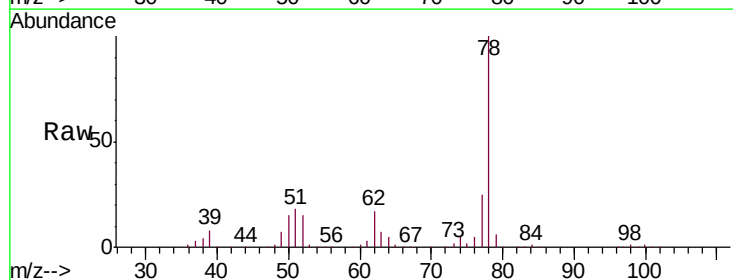
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

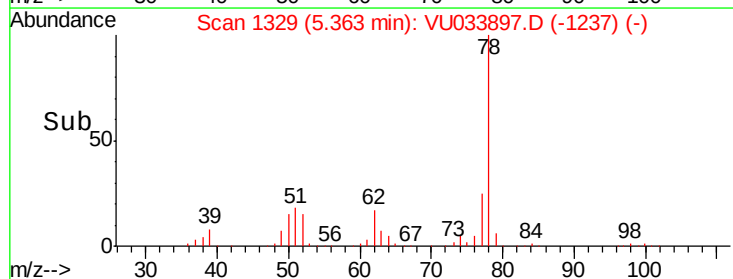
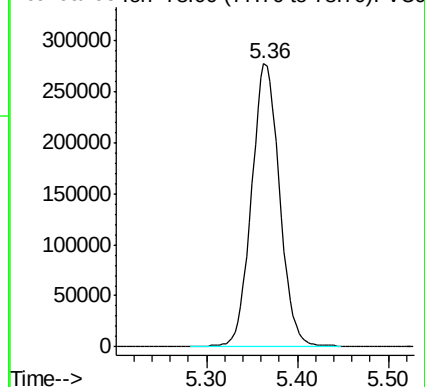
Lab File: VU033897.D

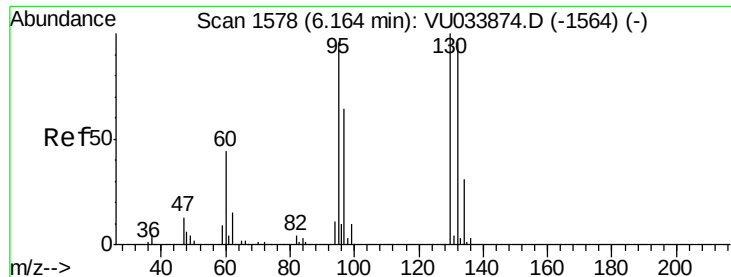
Acq: 22 Aug 2019 01:41

Tgt Ion: 78 Resp: 594191



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.206 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 150031

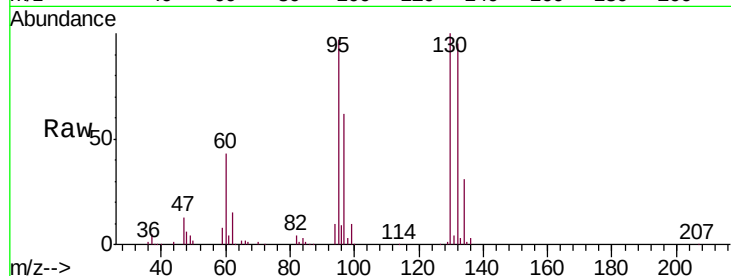
Ion Ratio Lower Upper

95 100

97 63.9 46.3 86.1

132 97.5 67.9 126.1

130 103.0 72.0 133.6



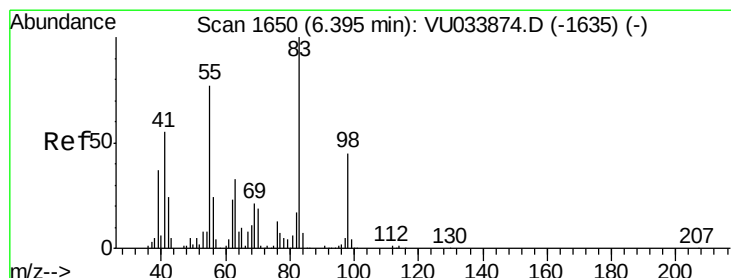
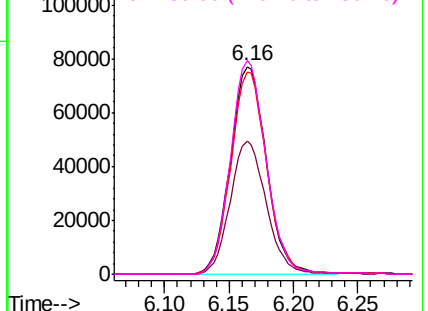
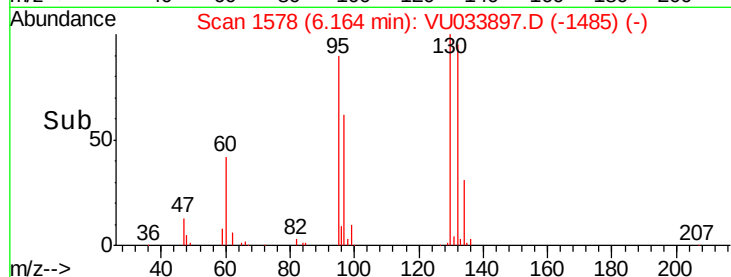
Abundance

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: 47.041 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

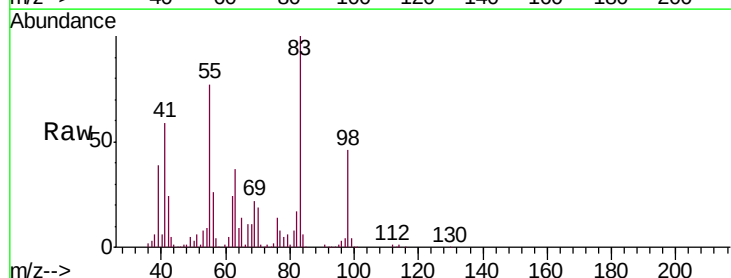
Tgt Ion: 83 Resp: 214391

Ion Ratio Lower Upper

83 100

55 77.6 61.6 92.4

98 46.5 37.2 55.8

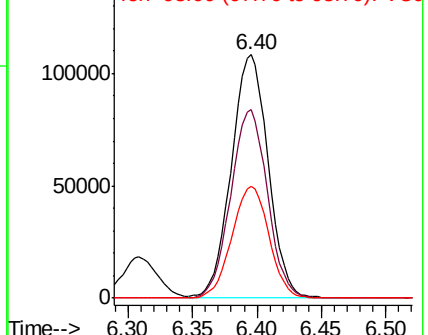
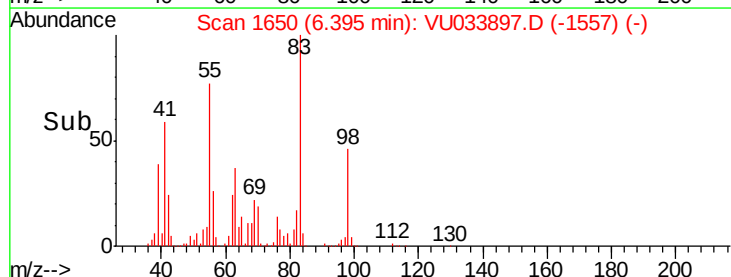


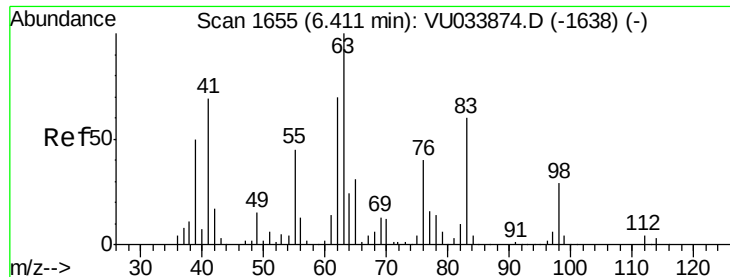
Abundance

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

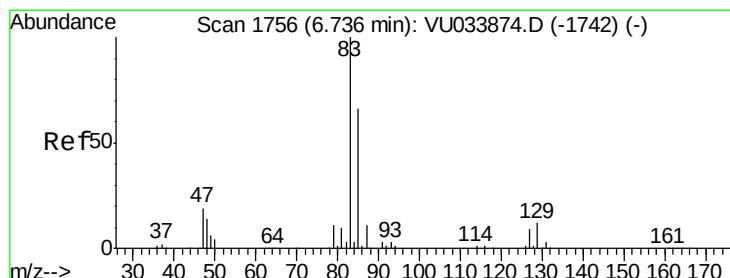
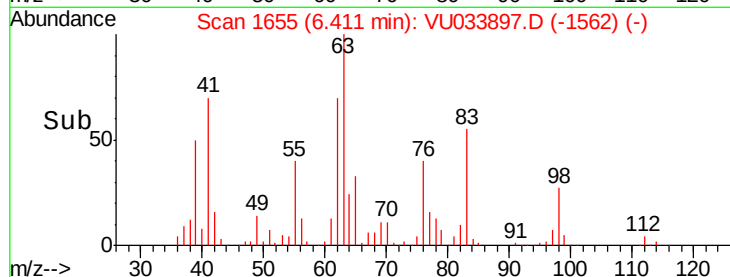
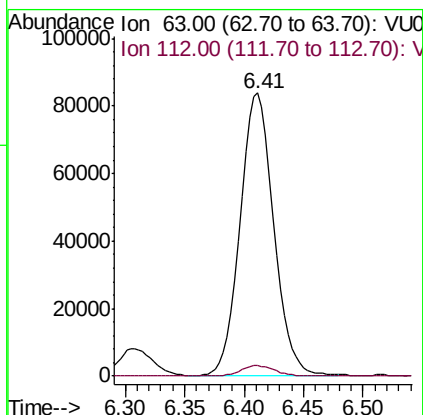
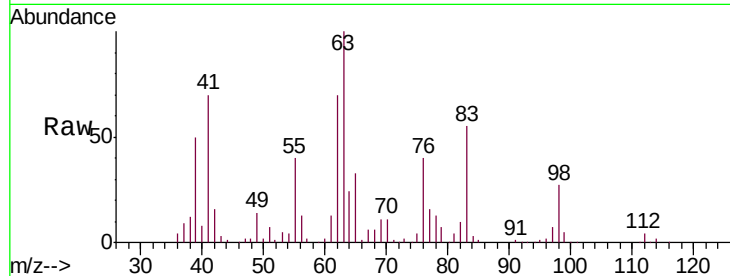




#37
 1,2-Dichloropropane
 Concen: 51.183 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

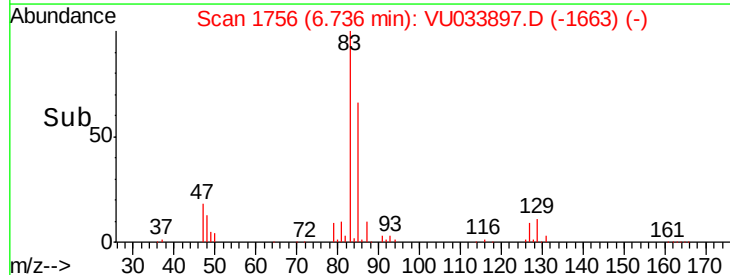
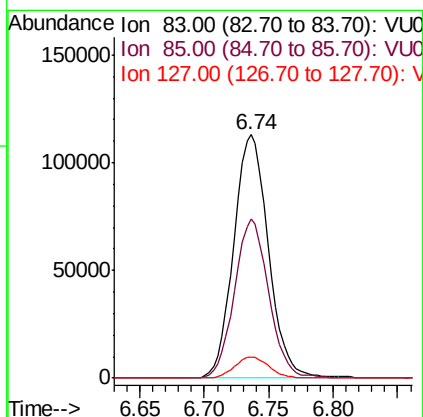
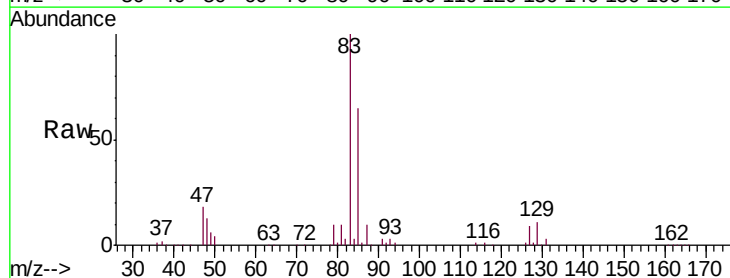
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

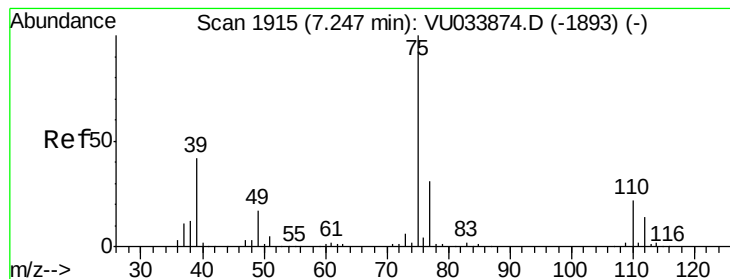
Tgt Ion: 63 Resp: 163446
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 51.111 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion: 83 Resp: 211322
 Ion Ratio Lower Upper
 83 100
 85 65.2 45.9 85.3
 127 8.7 7.3 10.9



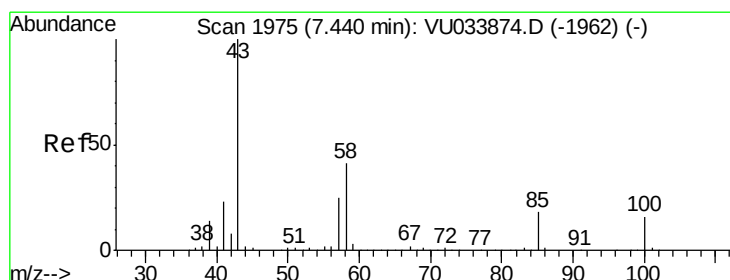
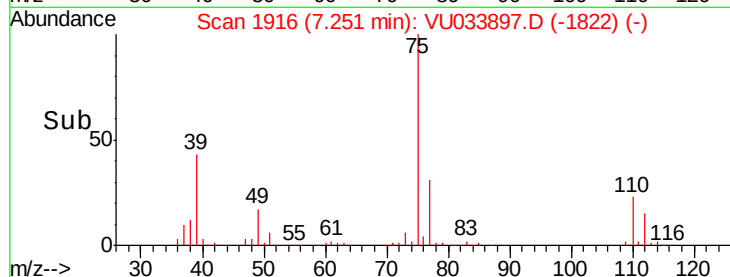
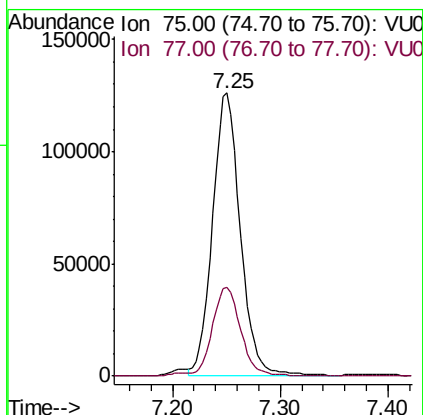
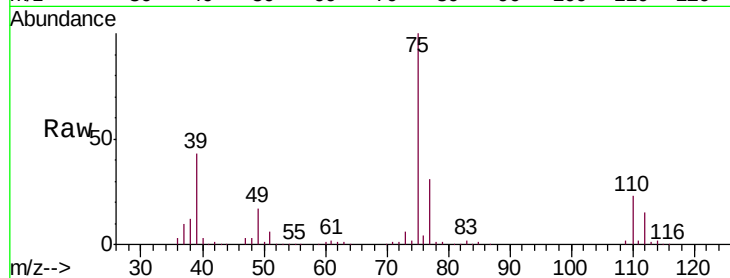


#39

cis-1,3-Dichloropropene
 Concen: 47.945 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

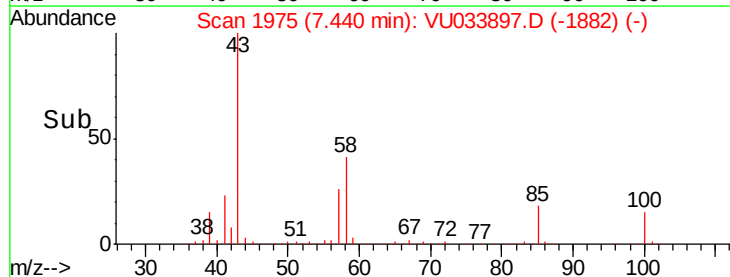
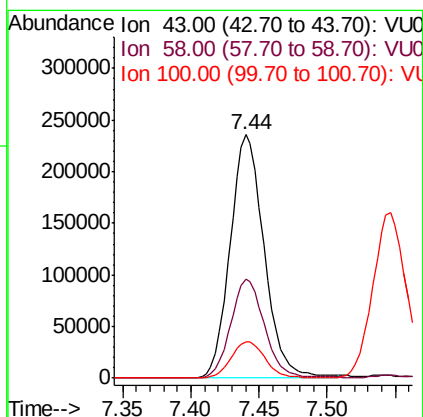
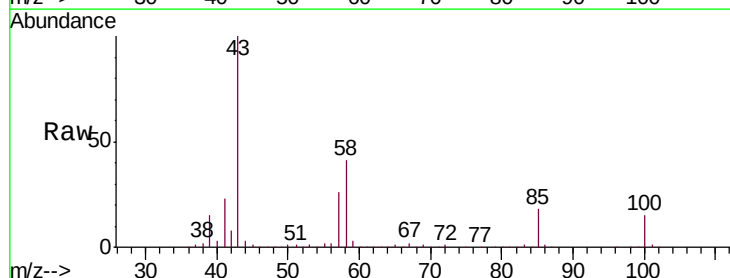
Tgt Ion: 75 Resp: 223144
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.5 41.7

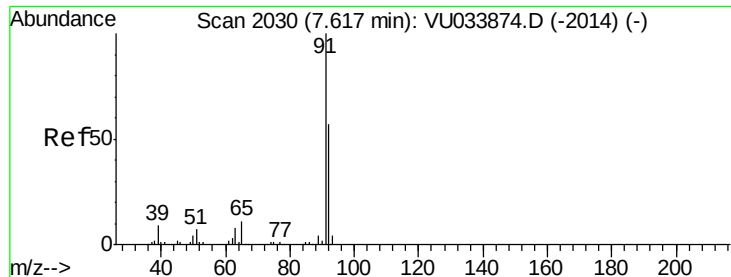


#40

4-Methyl-2-pentanone
 Concen: 108.932 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion: 43 Resp: 408349
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.6 49.0
 100 15.1 12.4 18.6





#42

Toluene

Concen: 52.247 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

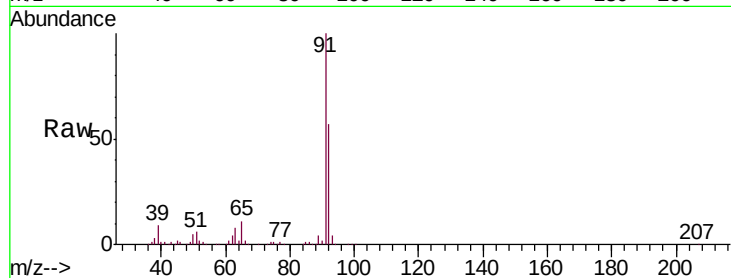
VSTD05049

Tgt Ion: 91 Resp: 644101

Ion Ratio Lower Upper

91 100

92 57.2 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU033874.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU033897.D (-2013) (-)

7.62

400000

300000

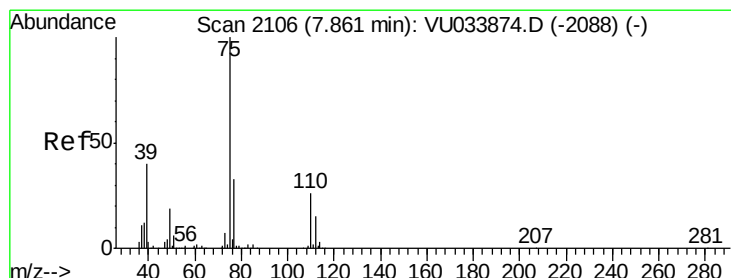
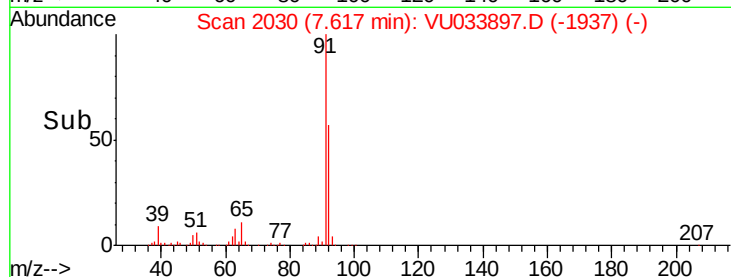
200000

100000

0

7.50 7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.809 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033897.D

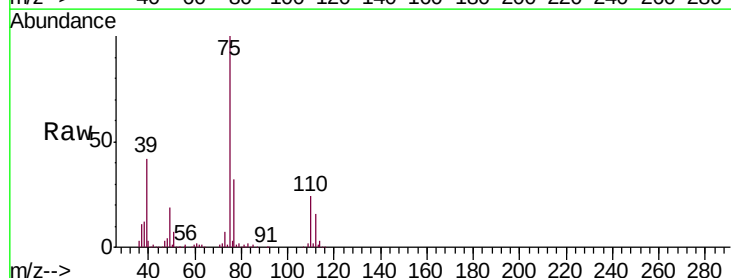
Acq: 22 Aug 2019 01:41

Tgt Ion: 75 Resp: 208764

Ion Ratio Lower Upper

75 100

77 31.6 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU033874.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033897.D (-2013) (-)

7.86

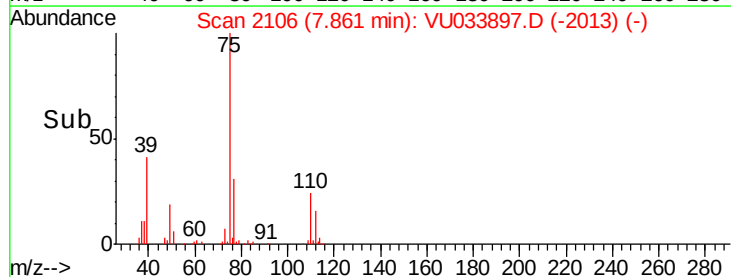
100000

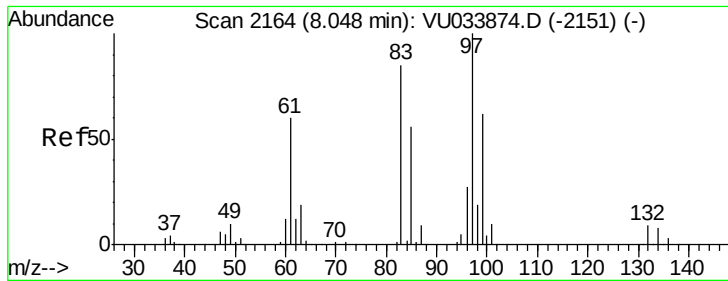
50000

0

7.75 7.80 7.85 7.90 7.95

Time-->





#45

1,1,2-Trichloroethane

Concen: 50.227 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 97 Resp: 150545

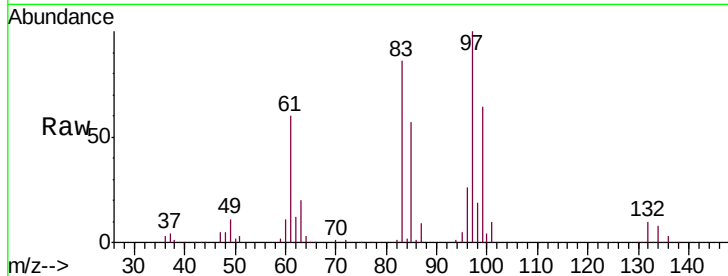
Ion Ratio Lower Upper

97 100

99 63.7 43.9 81.5

83 86.1 61.7 114.5

85 57.0 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

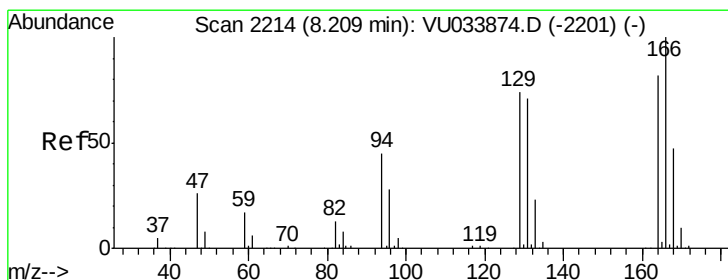
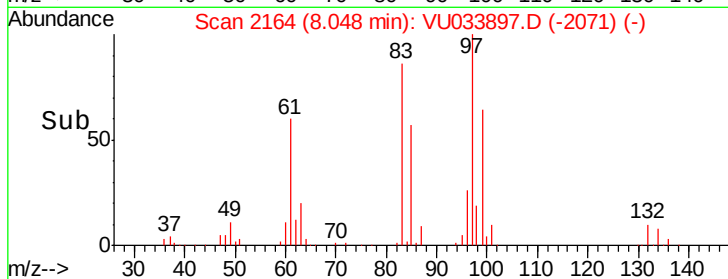
100000

50000

0

8.00 8.05 8.10

Time-->



#46

Tetrachloroethene

Concen: 48.564 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Tgt Ion: 164 Resp: 121174

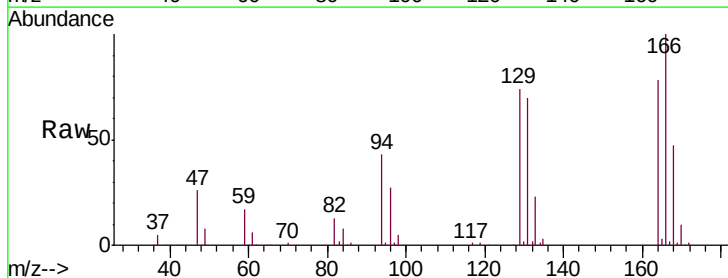
Ion Ratio Lower Upper

164 100

129 94.8 64.4 119.6

131 89.6 63.8 118.4

166 127.6 90.9 168.7



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

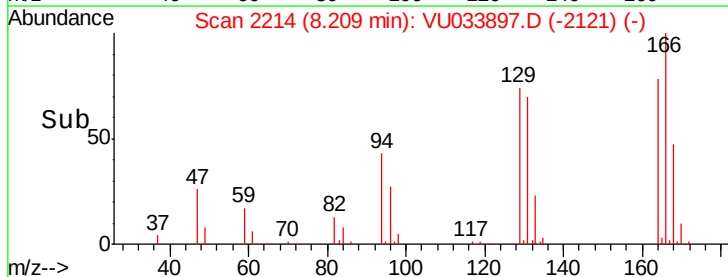
100000

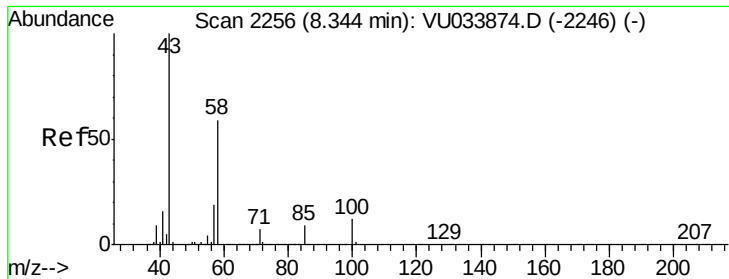
50000

0

8.15 8.20 8.25

Time-->

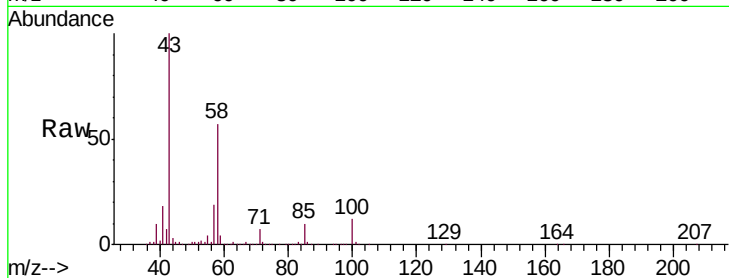




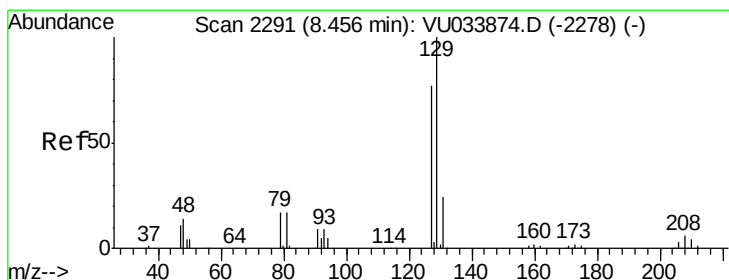
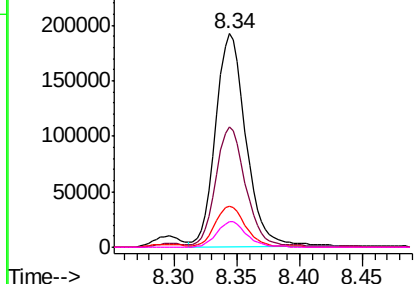
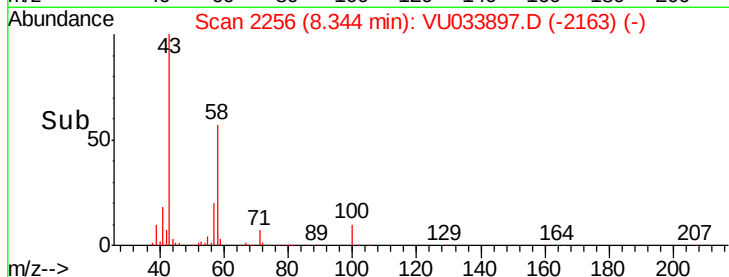
#48
2-Hexanone
Concen: 109.488 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033897.D
Acq: 22 Aug 2019 01:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion:	43	Resp:	321828
Ion	Ratio	Lower	Upper
43	100		
58	55.5	45.0	67.4
57	19.5	15.4	23.0
100	11.9	9.6	14.4

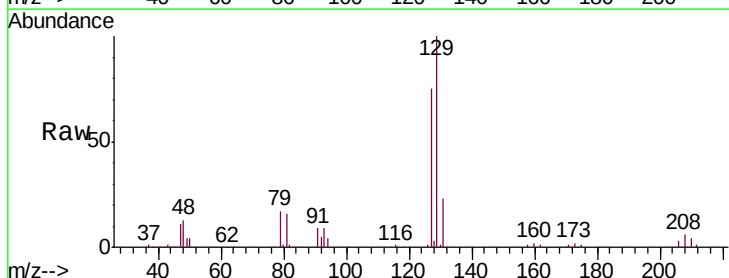


Abundance Ion 43.00 (42.70 to 43.70): VU033897.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033897.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033897.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033897.D (-2163) (-)

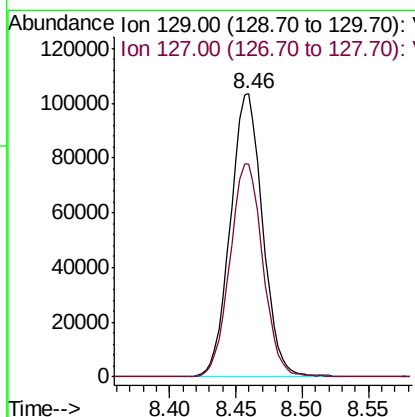
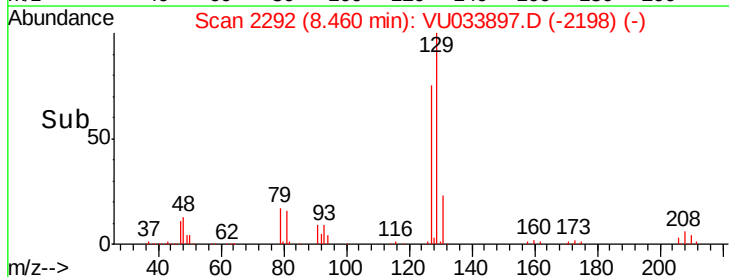


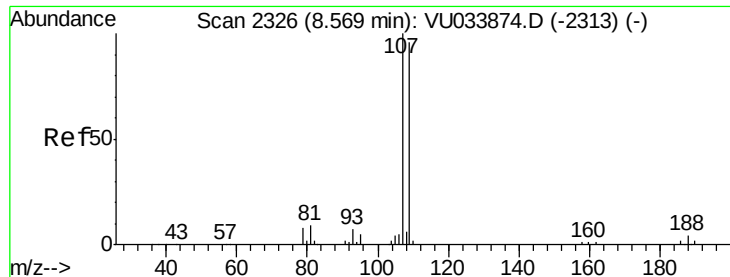
#49
Dibromochloromethane
Concen: 51.852 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033897.D
Acq: 22 Aug 2019 01:41

Tgt Ion:	129	Resp:	175488
Ion	Ratio	Lower	Upper
129	100		
127	75.3	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033897.D (-2198) (-)
Ion 127.00 (126.70 to 127.70): VU033897.D (-2198) (-)

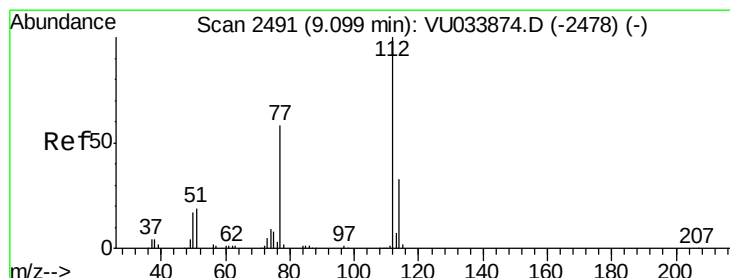
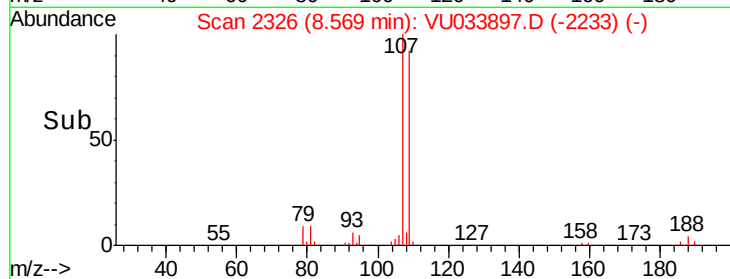
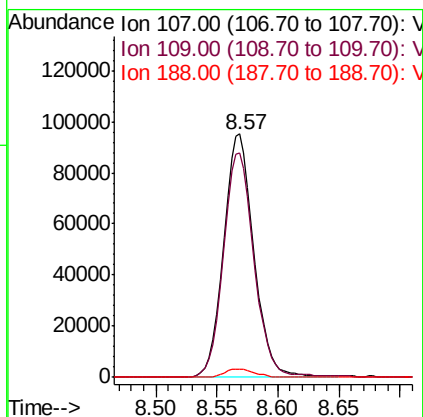
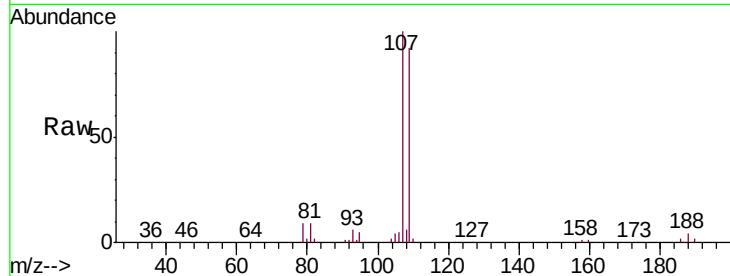




#50
 1,2-Dibromoethane
 Concen: 51.711 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

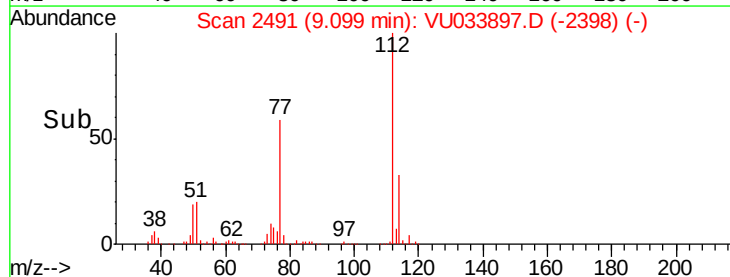
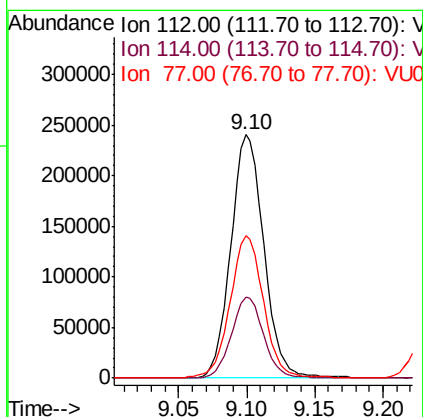
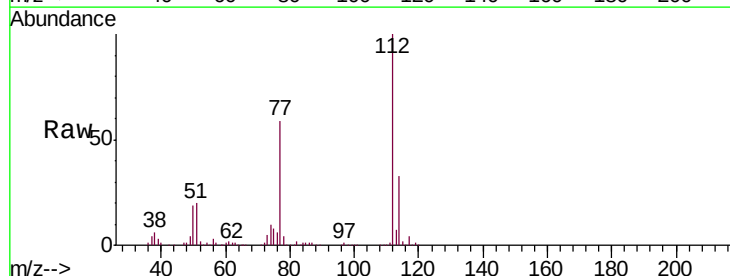
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

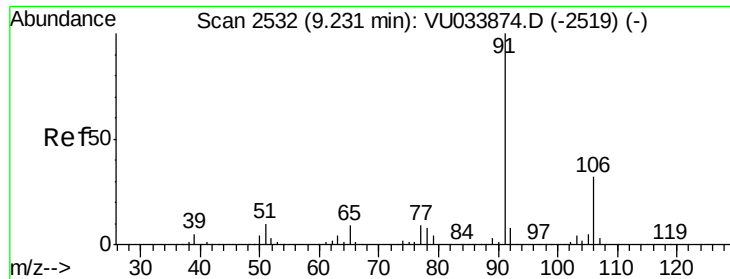
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.1	64.8	120.3
188	3.5	3.1	4.7



#51
 Chlorobenzene
 Concen: 49.632 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.3	22.5	41.9
77	58.8	45.4	68.0





#52

Ethylbenzene

Concen: 51.624 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

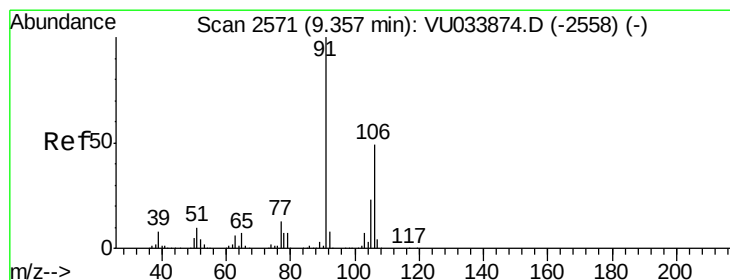
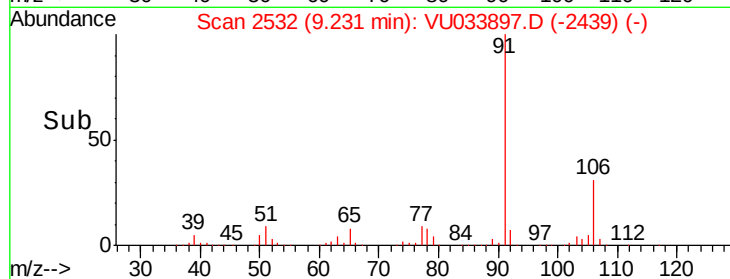
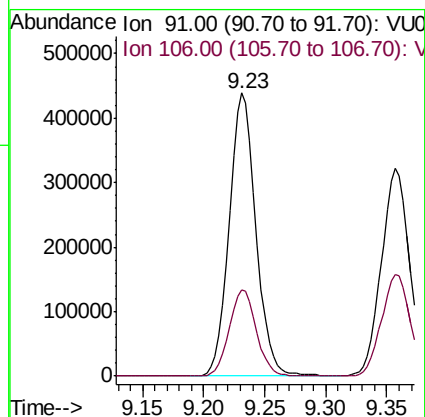
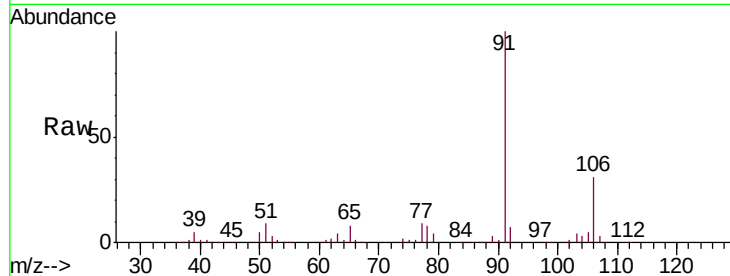
VSTD05049

Tgt Ion: 91 Resp: 674296

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6



#53

m,p-Xylene

Concen: 52.717 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033897.D

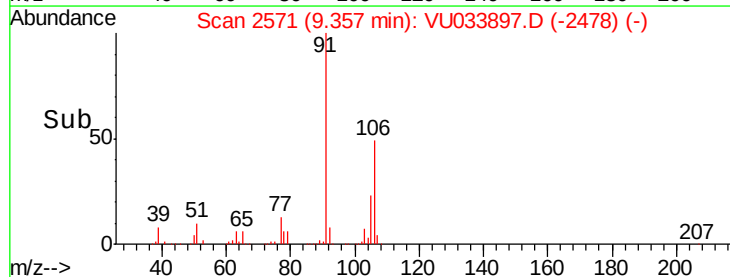
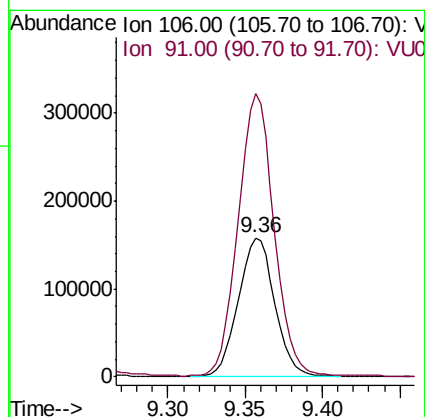
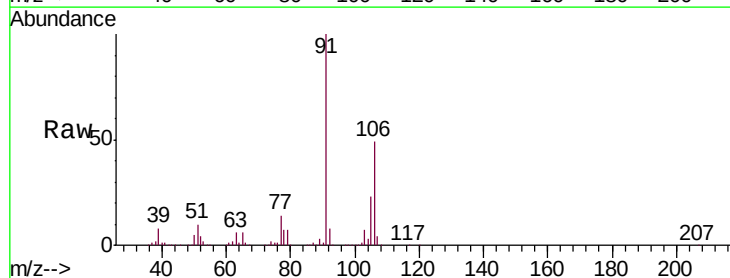
Acq: 22 Aug 2019 01:41

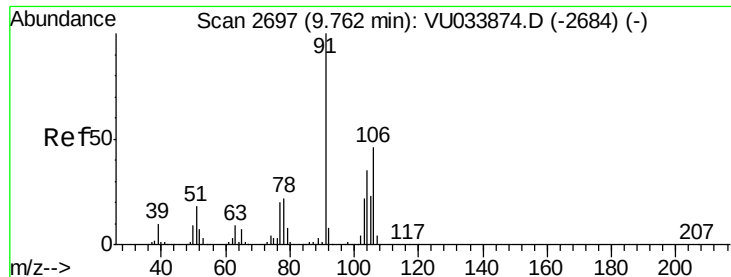
Tgt Ion: 106 Resp: 257741

Ion Ratio Lower Upper

106 100

91 203.6 140.9 261.7





#54

o-xylene

Concen: 53.929 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

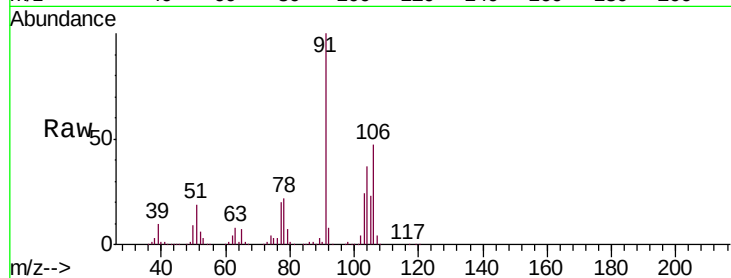
VSTD05049

Tgt Ion:106 Resp: 255487

Ion Ratio Lower Upper

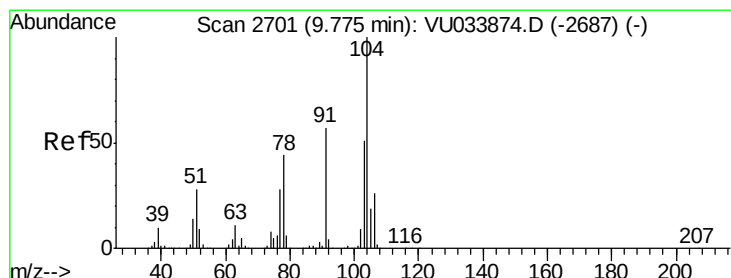
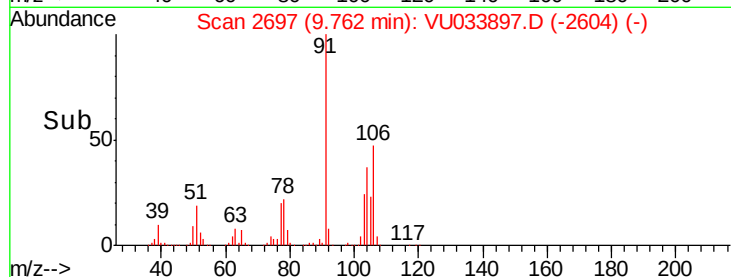
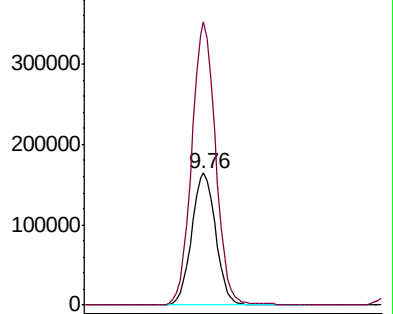
106 100

91 214.1 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.874 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033897.D

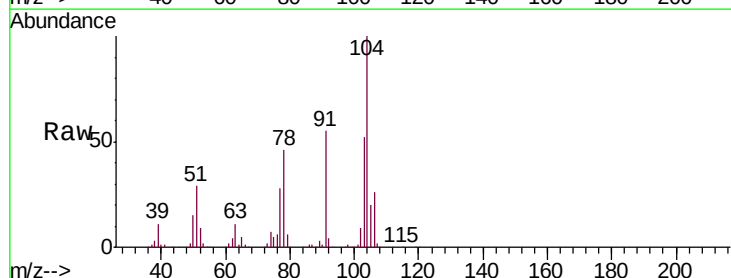
Acq: 22 Aug 2019 01:41

Tgt Ion:104 Resp: 445429

Ion Ratio Lower Upper

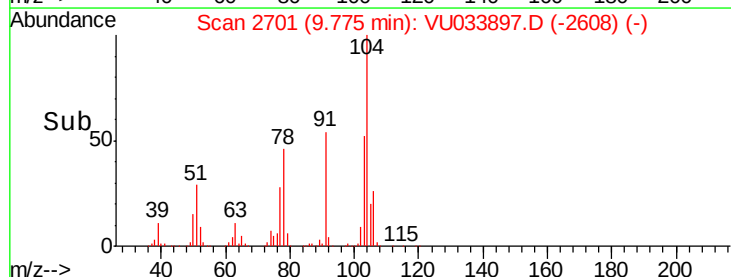
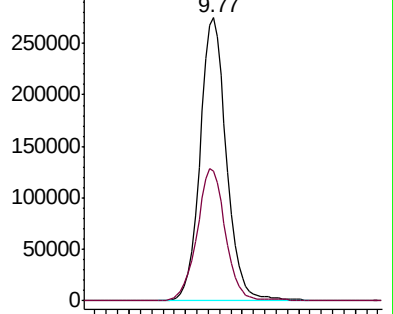
104 100

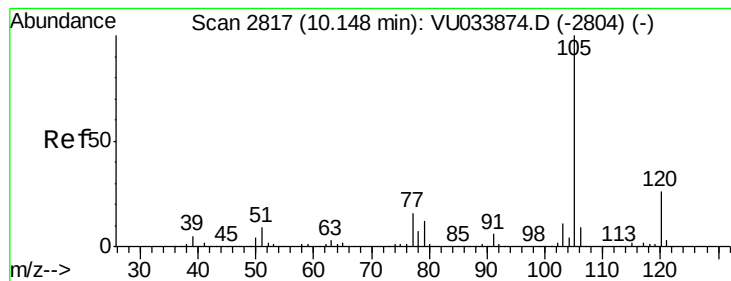
78 46.1 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.529 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

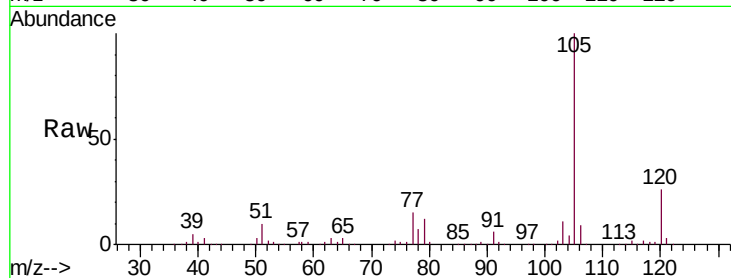
Tgt Ion: 105 Resp: 650665

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.0

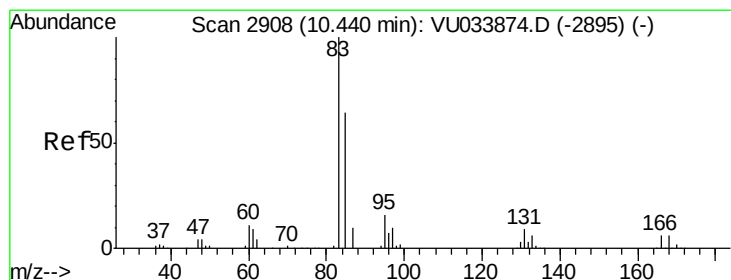
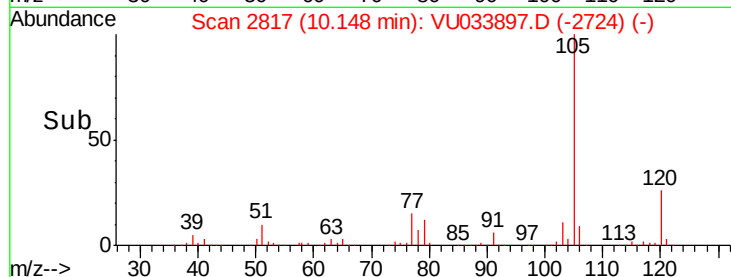
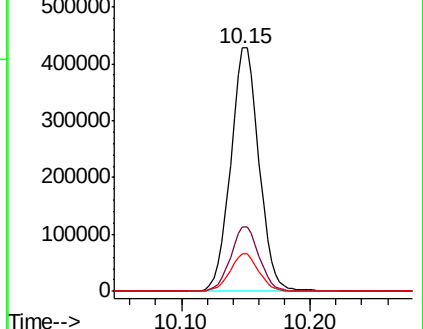
77 15.7 12.5 18.7



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: 55.009 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

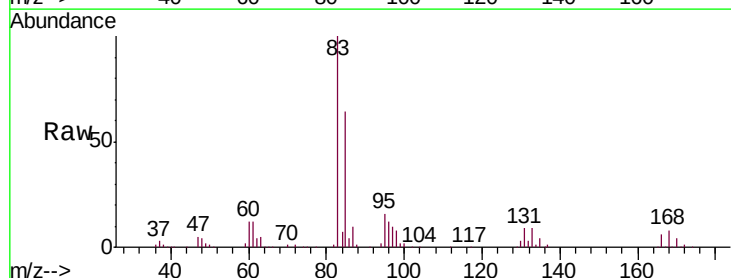
Tgt Ion: 83 Resp: 266862

Ion Ratio Lower Upper

83 100

85 63.7 44.6 82.8

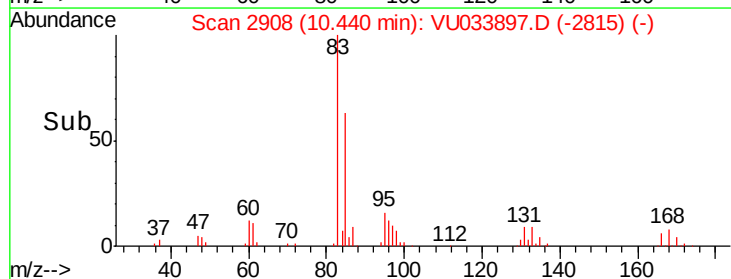
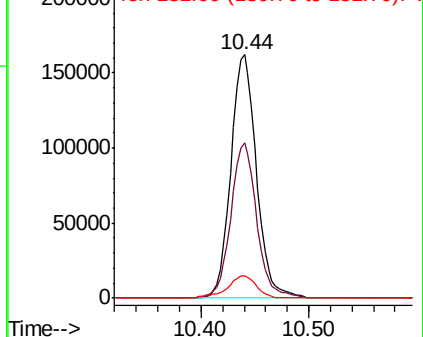
131 9.2 7.8 11.6

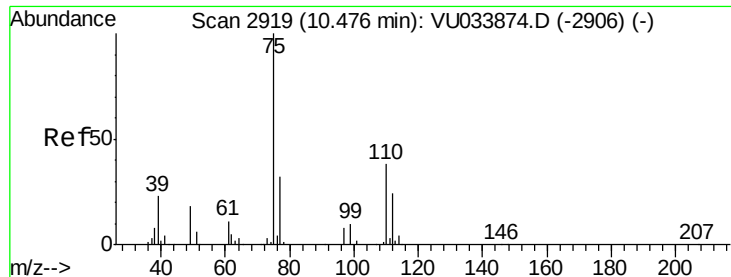


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.866 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

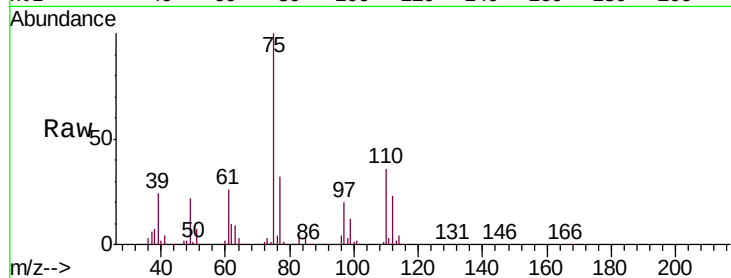
VSTD05049

Tgt Ion: 75 Resp: 208351

Ion Ratio Lower Upper

75 100

77 32.3 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU033897.D (-2297) (-)

Ion 77.00 (76.70 to 77.70): VU033897.D (-2297) (-)

10.48

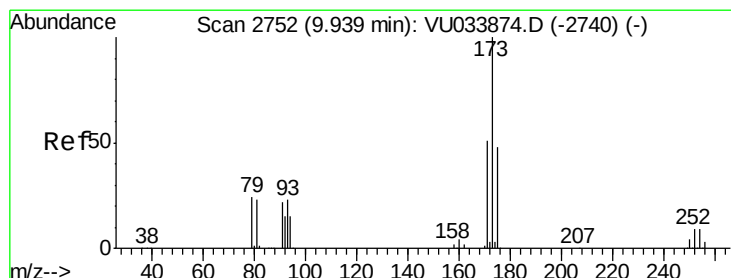
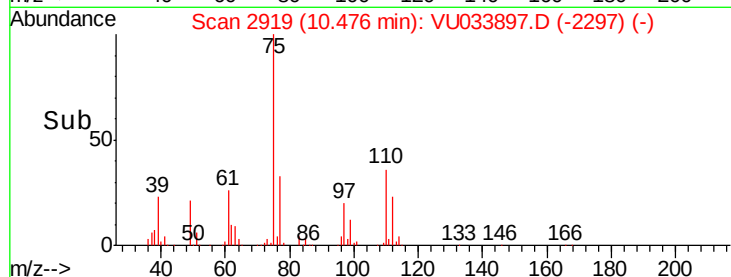
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 50.164 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

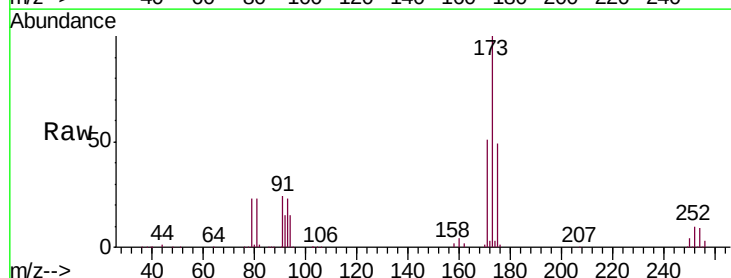
Tgt Ion: 173 Resp: 130201

Ion Ratio Lower Upper

173 100

175 48.9 38.8 58.2

254 9.4 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU033897.D (-2659) (-)

Ion 175.00 (174.70 to 175.70): VU033897.D (-2659) (-)

Ion 254.00 (253.70 to 254.70): VU033897.D (-2659) (-)

9.94

100000

80000

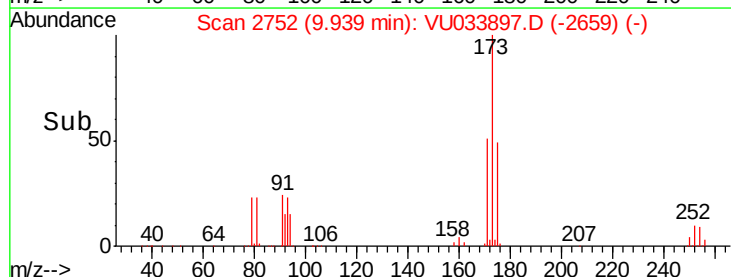
60000

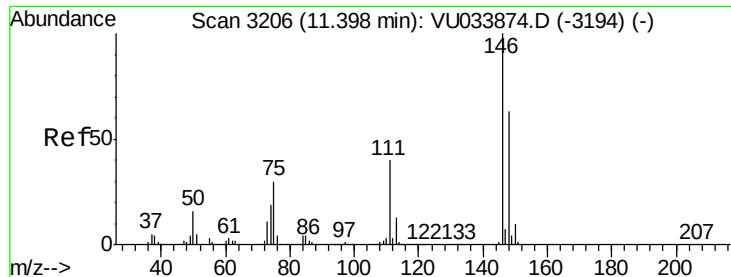
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.541 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

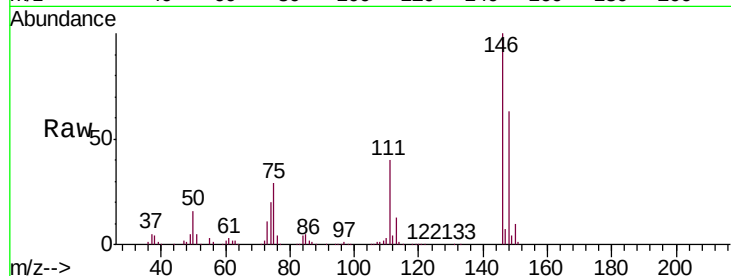
Tgt Ion:146 Resp: 323988

Ion Ratio Lower Upper

146 100

111 40.5 28.1 52.1

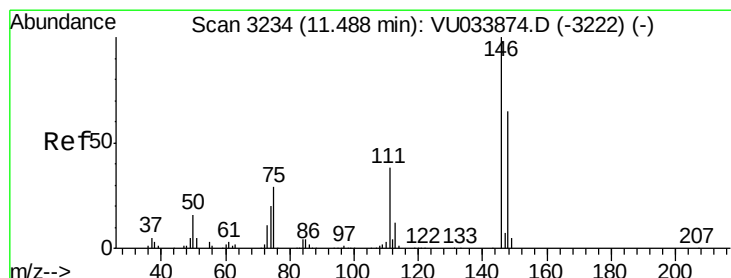
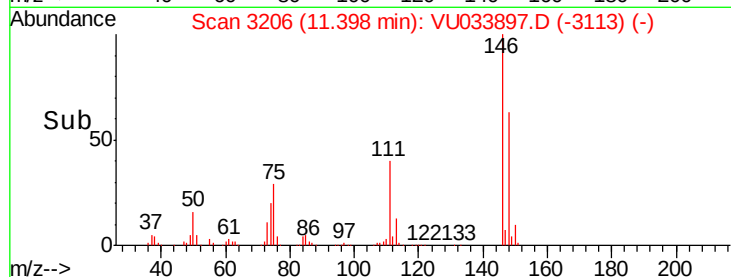
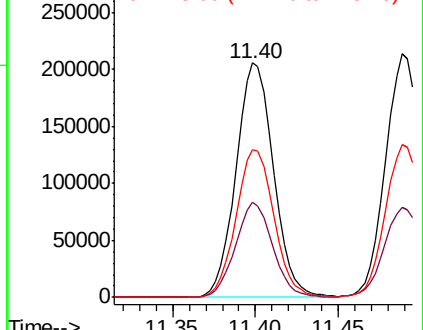
148 63.3 45.2 84.0



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: 48.741 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

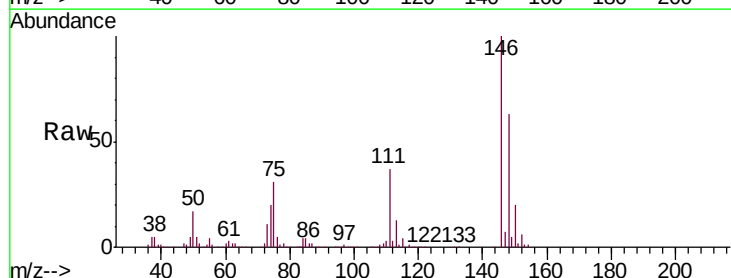
Tgt Ion:146 Resp: 329984

Ion Ratio Lower Upper

146 100

111 36.8 27.0 50.2

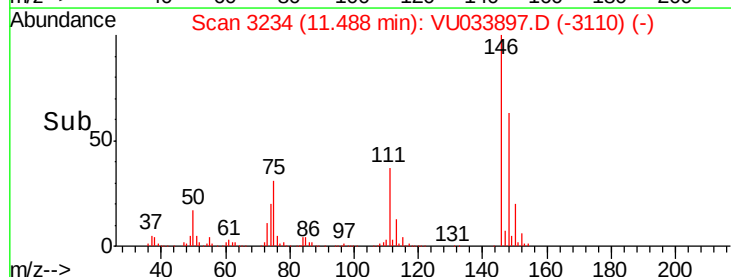
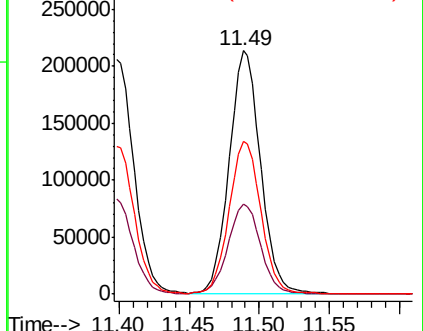
148 62.6 44.5 82.7

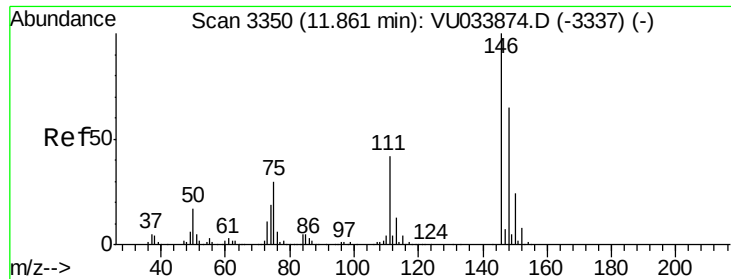


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

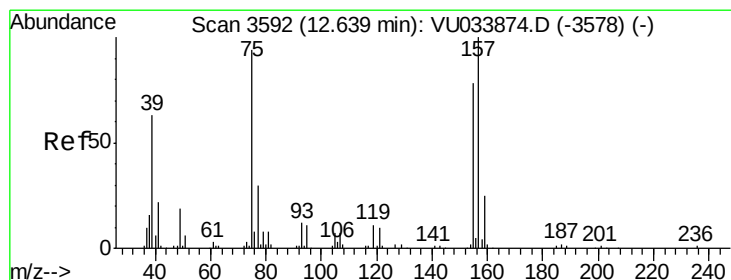
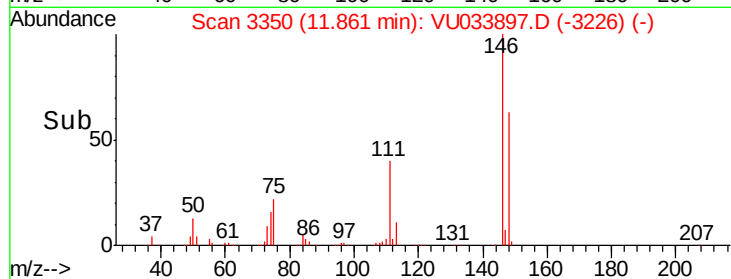
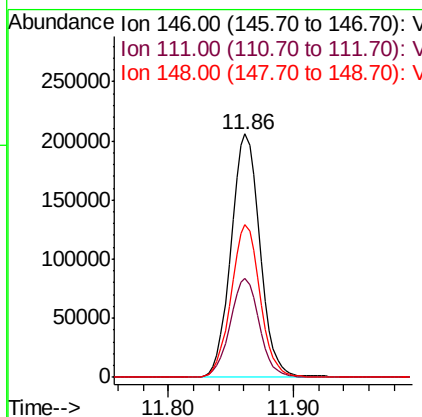
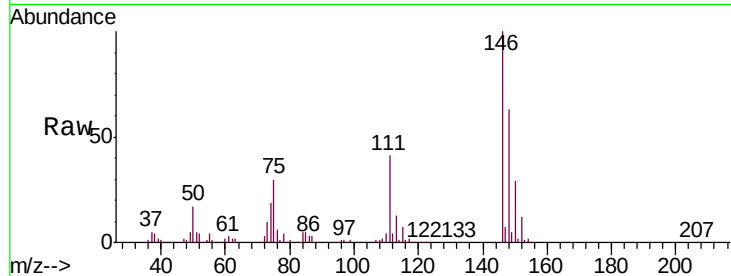




#65
 1,2-Dichlorobenzene
 Concen: 50.290 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

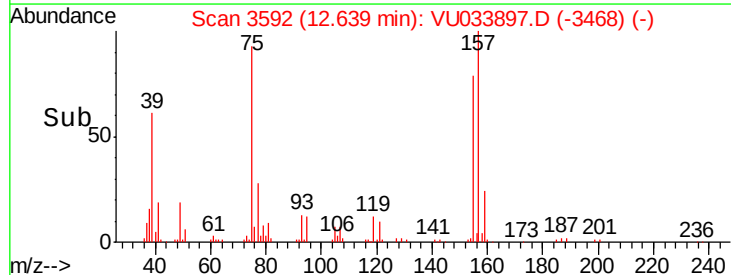
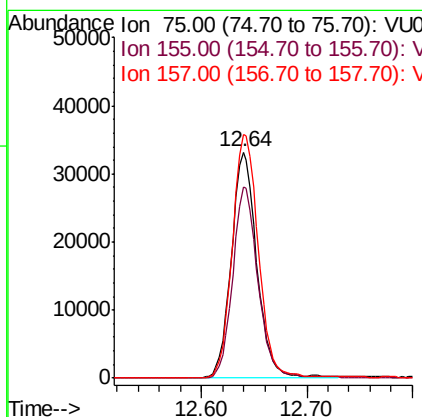
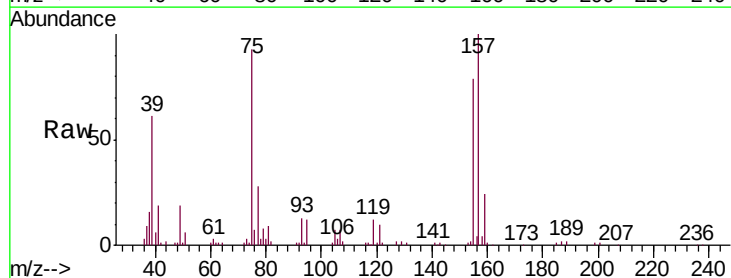
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

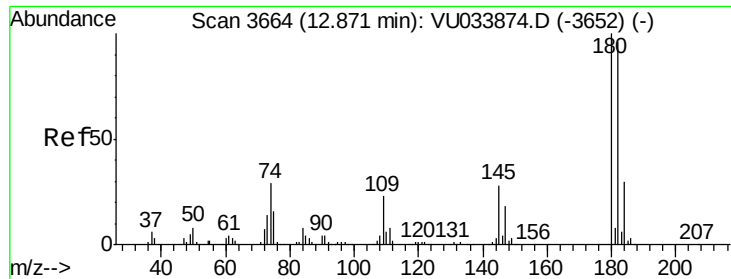
Tgt Ion: 146 Resp: 329679
 Ion Ratio Lower Upper
 146 100
 111 40.6 33.8 50.6
 148 62.8 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.110 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion: 75 Resp: 55710
 Ion Ratio Lower Upper
 75 100
 155 84.7 67.5 101.3
 157 107.7 87.7 131.5

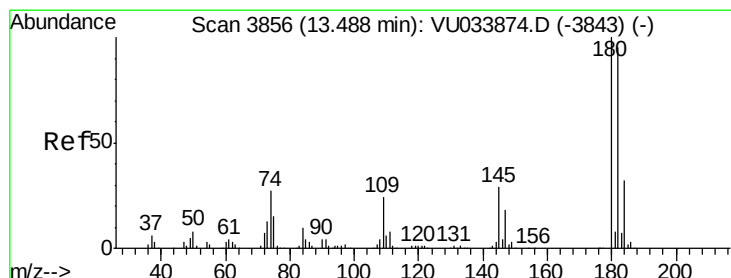
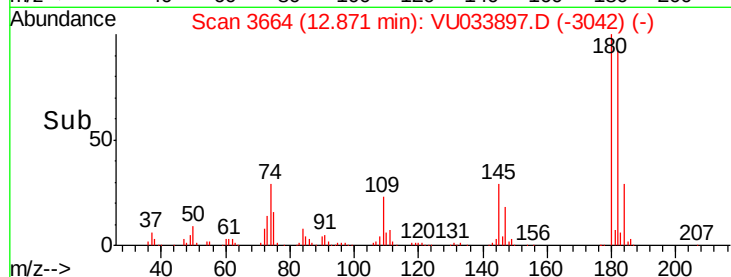
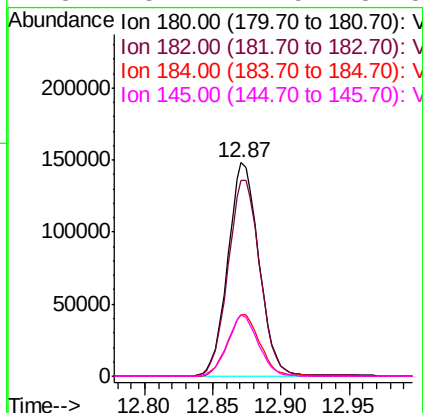
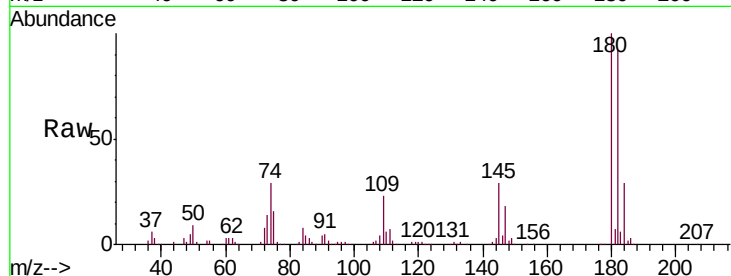




#67
 1,3,5-Trichlorobenzene
 Concen: 46.721 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

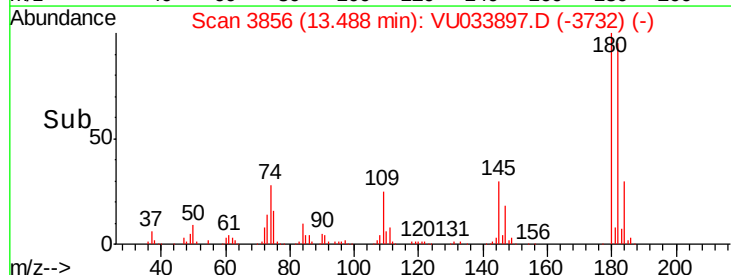
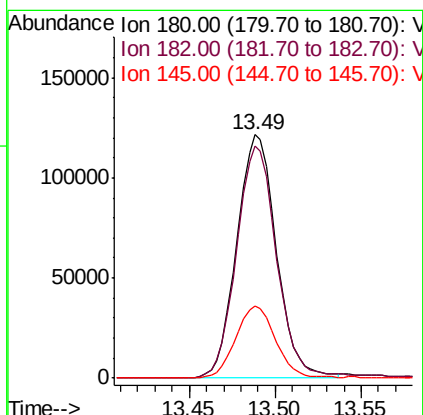
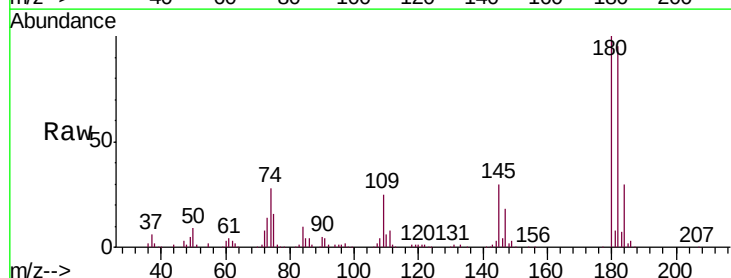
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

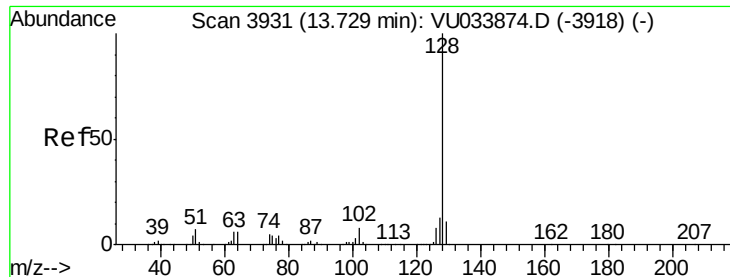
Tgt Ion:	180	Resp:	235687
Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.8	113.8
184	29.2	23.8	35.8
145	28.4	22.9	34.3



#68
 1,2,4-trichlorobenzene
 Concen: 47.131 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033897.D
 Acq: 22 Aug 2019 01:41

Tgt Ion:	180	Resp:	194680
Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.2	114.2
145	29.7	23.8	35.8





#69

Naphthalene

Concen: 54.066 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

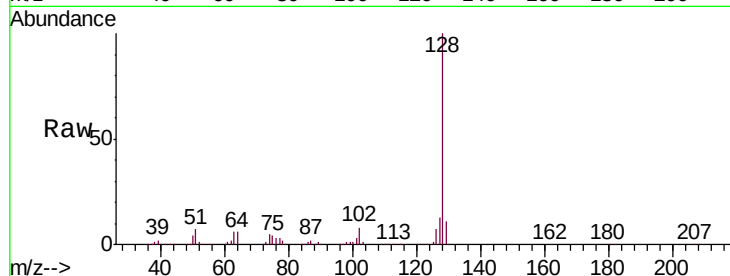
Tgt Ion:128 Resp: 616387

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

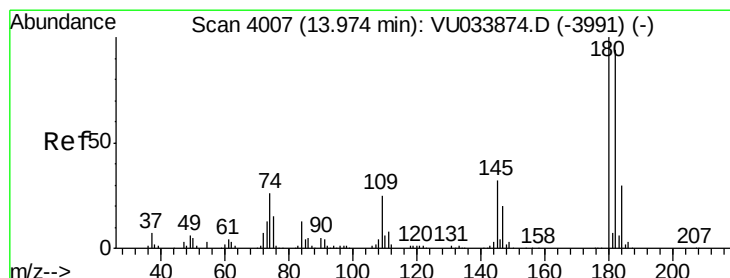
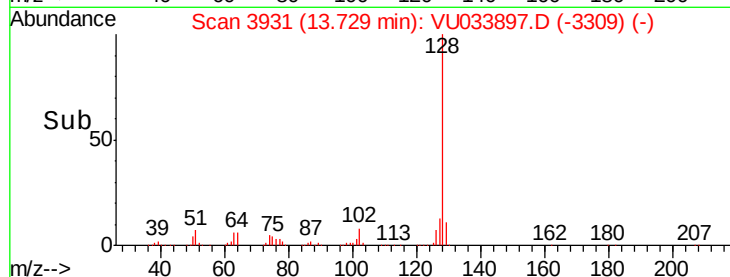
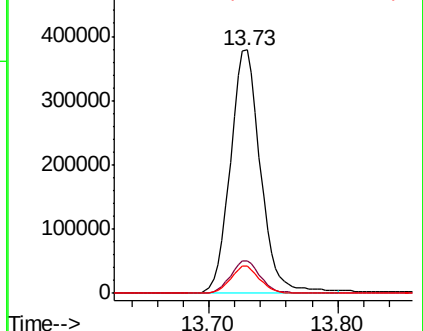
129 10.8 8.6 12.8



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: 50.827 ug/L

RT: 13.97 min Scan# 4006

Delta R.T. -0.00 min

Lab File: VU033897.D

Acq: 22 Aug 2019 01:41

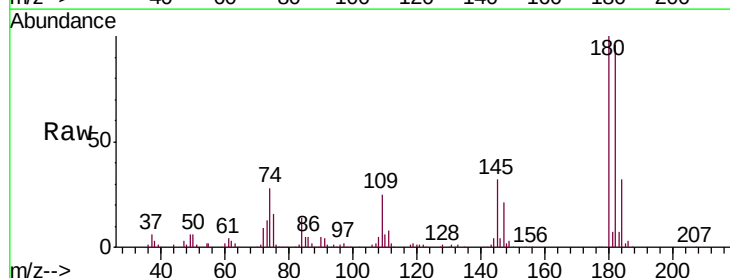
Tgt Ion:180 Resp: 217898

Ion Ratio Lower Upper

180 100

182 96.3 75.9 113.9

145 31.7 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

