

Data File : VU033863.D
Acq On : 21 Aug 2019 11:11
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Quant Time: Aug 22 05:39:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 19 16:05:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	380761	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	391567	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	208563	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	144295	42.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.24%
7) Chloroethane-d5	1.67	69	130747	40.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.62%
11) 1,1-Dichloroethene-d2	2.26	63	266450	46.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.08%
21) 2-Butanone-d5	4.15	46	186904	104.04	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.04%
24) Chloroform-d	4.62	84	268600	48.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.42%
26) 1,2-Dichloroethane-d4	5.28	65	166160	48.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.34%
32) Benzene-d6	5.32	84	505317	46.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.64%
36) 1,2-Dichloropropane-d6	6.31	67	166357	46.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.56%
41) Toluene-d8	7.55	98	468622	46.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.46%
43) trans-1,3-Dichloropropene-	7.83	79	76988	46.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.86%
47) 2-Hexanone-d5	8.29	63	128802	98.34	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.34%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	254894	51.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.72%
64) 1,2-Dichlorobenzene-d4	11.84	152	194831	46.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	202449	54.230 ug/L	99
3) Chloromethane	1.32	50	183352	47.755 ug/L	99
5) Vinyl chloride	1.39	62	226026	52.851 ug/L	99
6) Bromomethane	1.61	94	114786	35.500 ug/L	99
8) Chloroethane	1.69	64	139715	47.159 ug/L	98
9) Trichlorofluoromethane	1.87	101	300241	52.938 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	150544	55.449 ug/L	99
12) 1,1-Dichloroethene	2.27	96	140915	53.549 ug/L	93
13) Acetone	2.30	43	212340	120.262 ug/L	97
14) Carbon disulfide	2.46	76	424689	51.179 ug/L	100
15) Methyl Acetate	2.60	43	153545	52.733 ug/L	100
16) Methylene chloride	2.68	84	160416	52.606 ug/L	94
17) trans-1,2-Dichloroethene	2.96	96	142484	51.941 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	415051	51.845 ug/L	99
19) 1,1-Dichloroethane	3.42	63	271824	51.493 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	158956	53.566 ug/L	99
22) 2-Butanone	4.23	43	235883	116.088 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	85819	53.042	ug/L	99
25) Chloroform	4.65	83	286714	52.263	ug/L	95
27) 1,2-Dichloroethane	5.38	62	224574	53.995	ug/L	98
29) Cyclohexane	4.97	56	224011	53.396	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	241383	51.206	ug/L	99
31) Carbon tetrachloride	5.11	117	218888	51.027	ug/L	99
33) Benzene	5.37	78	615711	52.054	ug/L	100
34) Trichloroethene	6.16	95	157379	49.854	ug/L	99
35) Methylcyclohexane	6.40	83	250104	54.104	ug/L	99
37) 1,2-Dichloropropane	6.41	63	167529	51.722	ug/L	100
38) Bromodichloromethane	6.74	83	212834	50.751	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	245227	51.947	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	403506	106.123	ug/L	99
42) Toluene	7.62	91	675828	54.048	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	227437	52.424	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	158561	52.156	ug/L	99
46) Tetrachloroethene	8.21	164	132670	52.421	ug/L	99
48) 2-Hexanone	8.34	43	331581	111.215	ug/L	99
49) Dibromochloromethane	8.46	129	179731	52.357	ug/L	97
50) 1,2-Dibromoethane	8.57	107	166391	51.403	ug/L	96
51) Chlorobenzene	9.10	112	425476	51.517	ug/L	99
52) Ethylbenzene	9.23	91	706245	53.308	ug/L	100
53) m,p-Xylene	9.36	106	270817	54.610	ug/L	97
54) o-xylene	9.76	106	263696	54.877	ug/L	100
55) Styrene	9.77	104	470267	57.117	ug/L	99
56) Isopropylbenzene	10.15	105	686997	54.680	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	261644	53.173	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	207350	52.851	ug/L	99
61) Bromoform	9.94	173	134988	51.968	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	347128	53.039	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	352190	51.981	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	343695	52.387	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	53610	49.146	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	256231	50.755	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	209324	50.638	ug/L	100
69) Naphthalene	13.73	128	620642	54.398	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	224702	52.374	ug/L	98

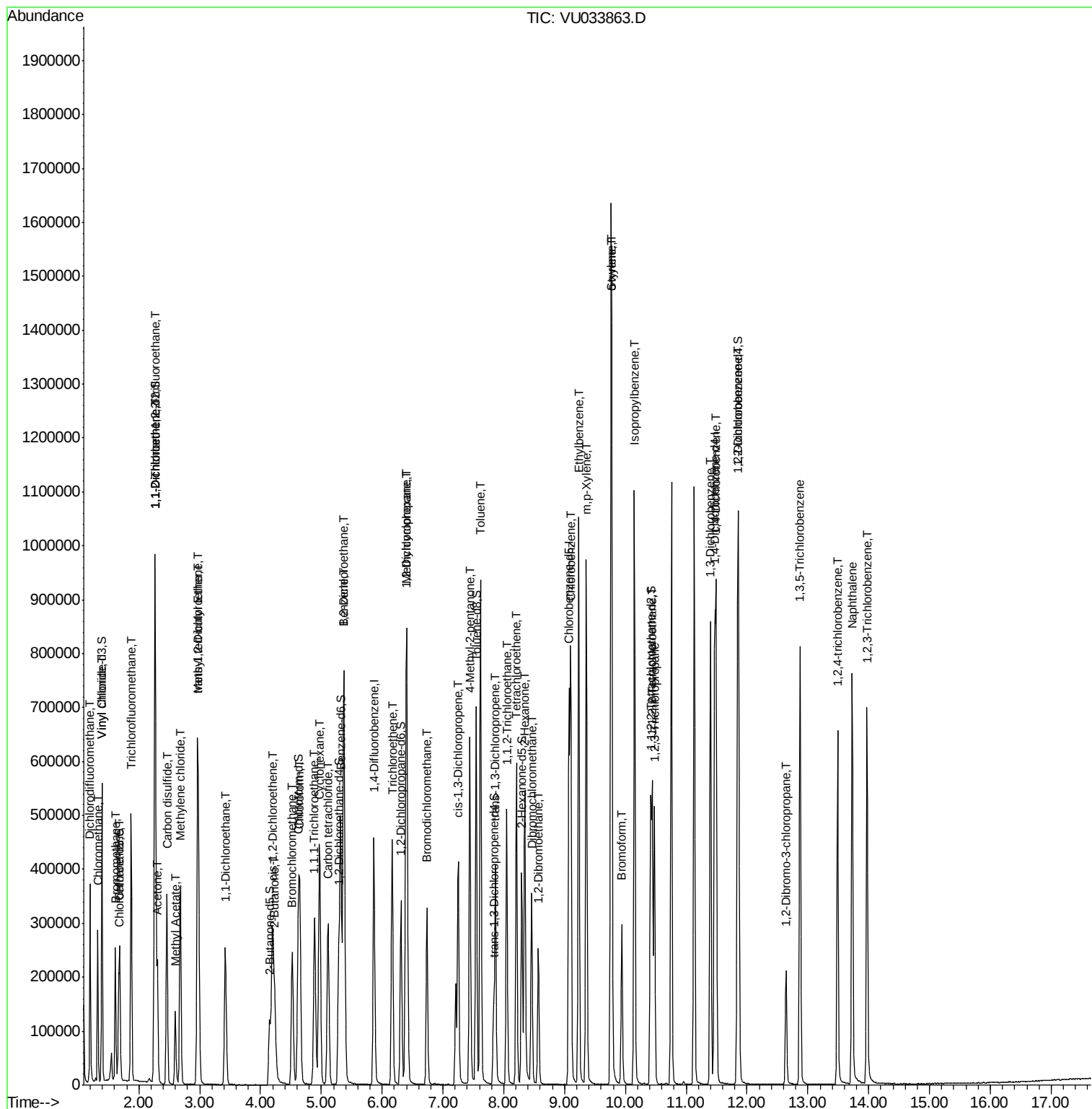
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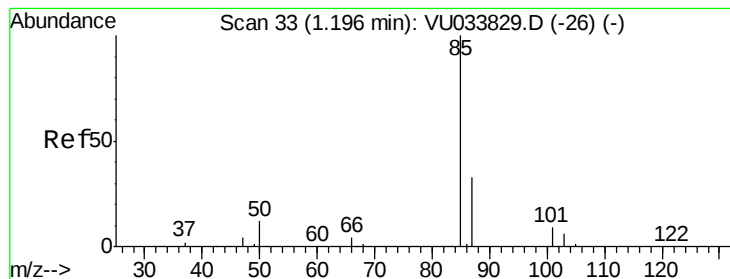
Data File : VU033863.D

```
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#2

Dichlorodifluoromethane

Concen: 54.230 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

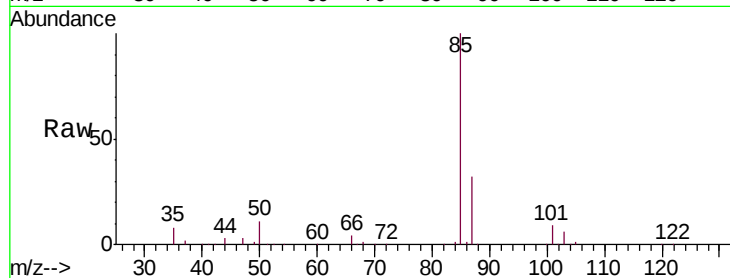
VSTD05047

Tgt Ion: 85 Resp: 202449

Ion Ratio Lower Upper

85 100

87 32.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033863.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033863.D (-1) (-)

1.20

200000

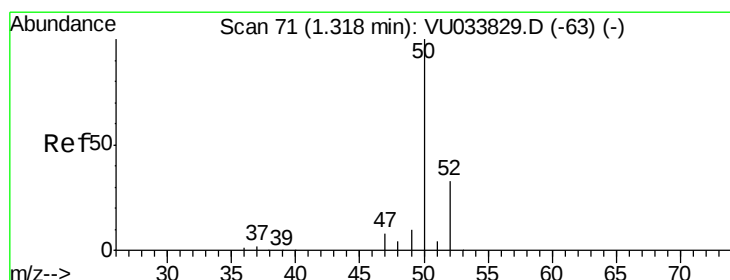
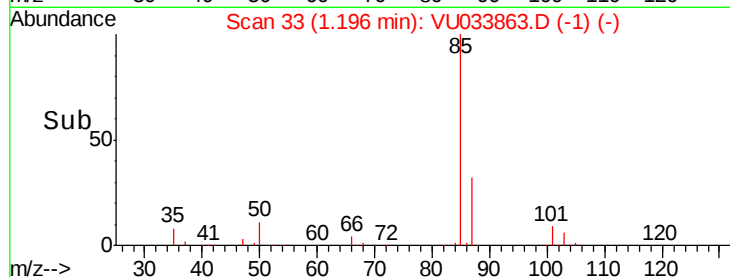
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.755 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033863.D

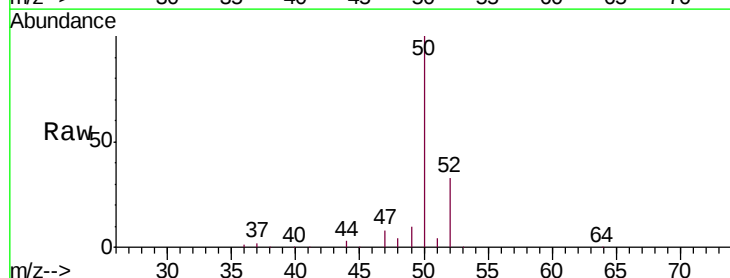
Acq: 21 Aug 2019 11:11

Tgt Ion: 50 Resp: 183352

Ion Ratio Lower Upper

50 100

52 32.6 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033863.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033863.D (-1) (-)

1.32

200000

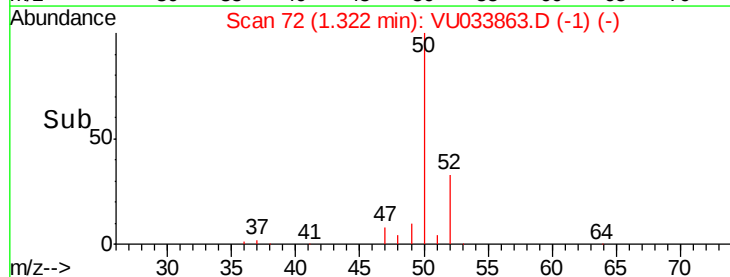
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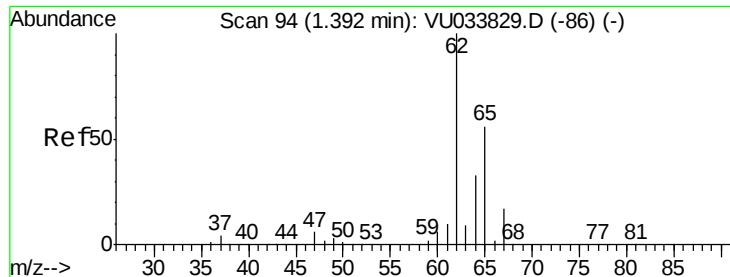
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.851 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

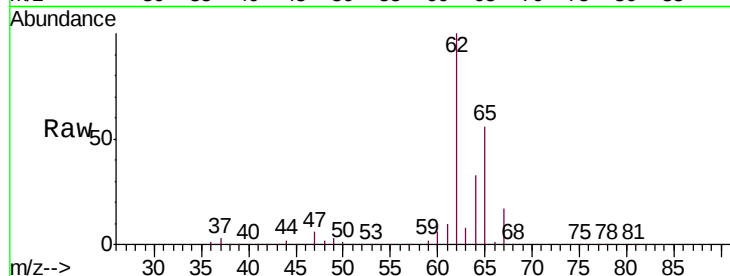
VSTD05047

Tgt Ion: 62 Resp: 226026

Ion Ratio Lower Upper

62 100

64 32.6 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU033829.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033829.D (-86) (-)

1.39

250000

200000

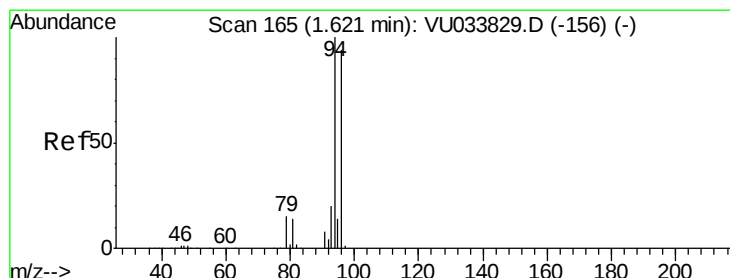
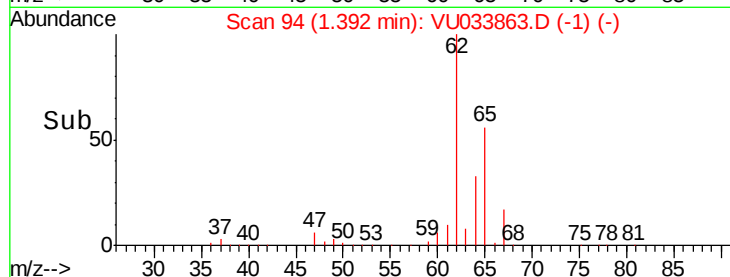
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 35.500 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU033863.D

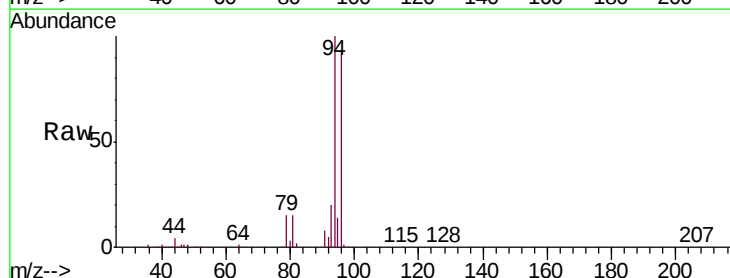
Acq: 21 Aug 2019 11:11

Tgt Ion: 94 Resp: 114786

Ion Ratio Lower Upper

94 100

96 93.3 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033829.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033829.D (-156) (-)

1.61

100000

80000

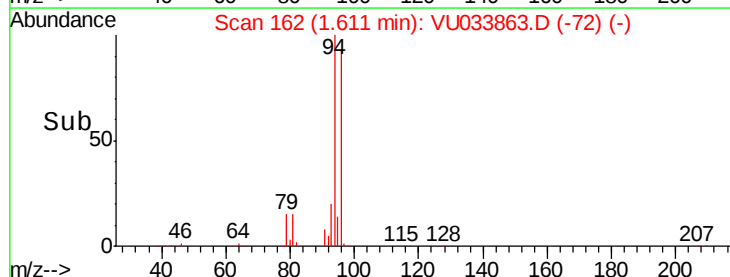
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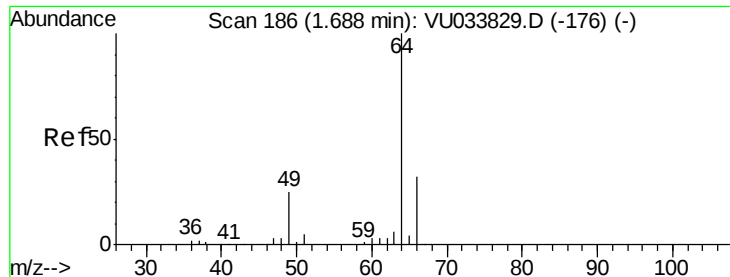
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Time-->

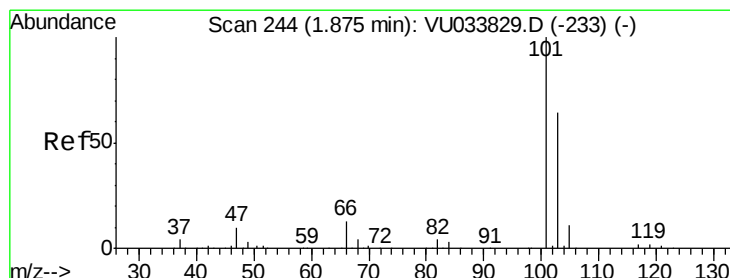
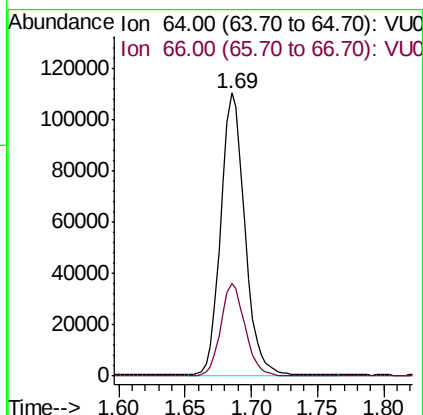
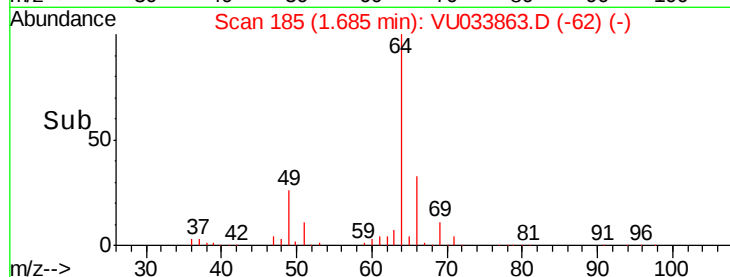
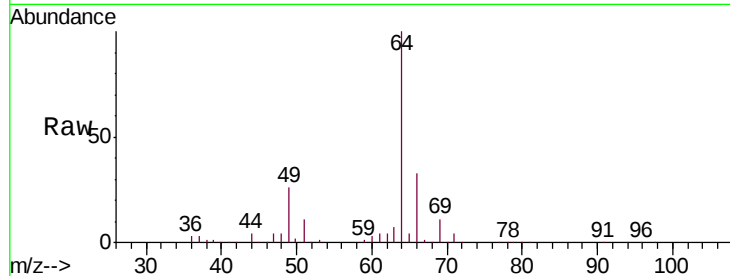




#8
Chloroethane
Concen: 47.159 ug/L
RT: 1.69 min Scan# 185
Delta R.T. -0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

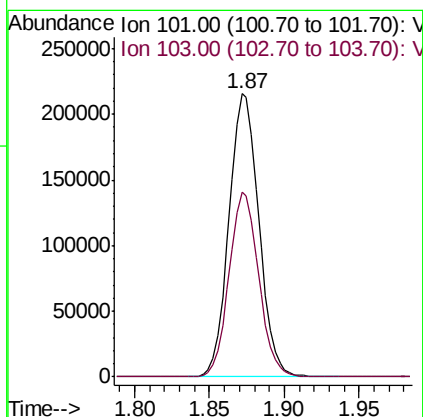
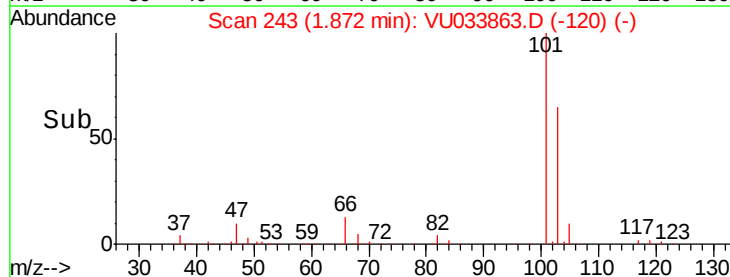
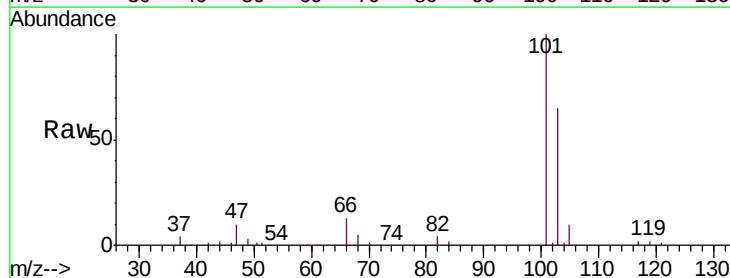
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

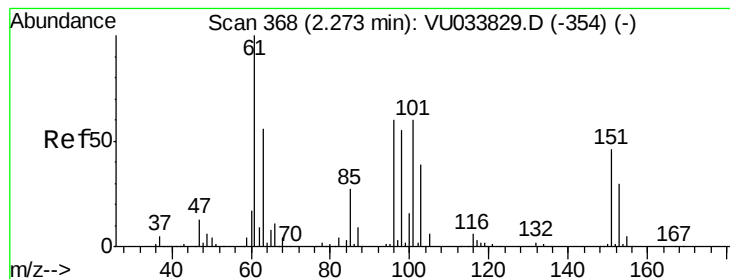
Tgt Ion: 64 Resp: 139715
Ion Ratio Lower Upper
64 100
66 32.8 23.9 44.3



#9
Trichlorofluoromethane
Concen: 52.938 ug/L
RT: 1.87 min Scan# 243
Delta R.T. -0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion: 101 Resp: 300241
Ion Ratio Lower Upper
101 100
103 64.6 51.9 77.9





#10

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

Concen: 55.449 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

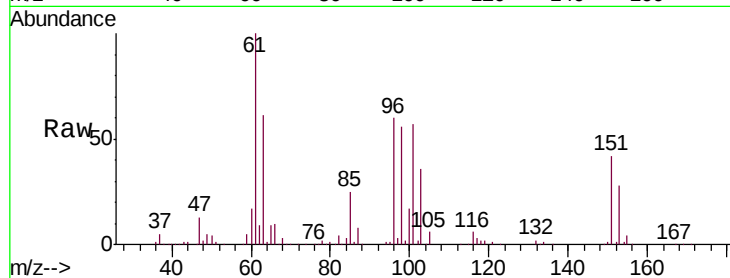
Tgt Ion: 101 Resp: 150544

Ion Ratio Lower Upper

101 100

85 43.9 35.2 52.8

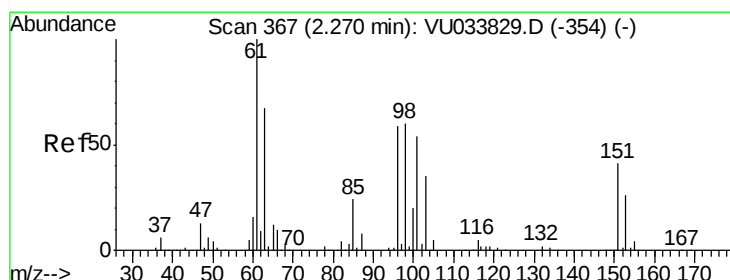
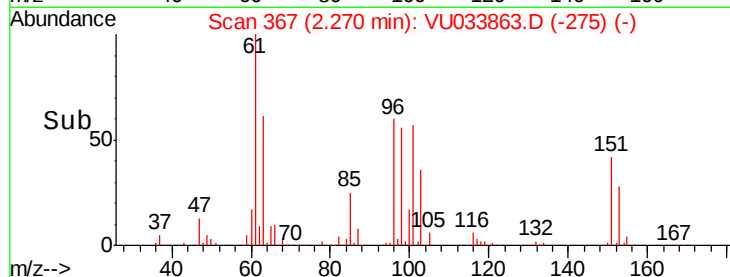
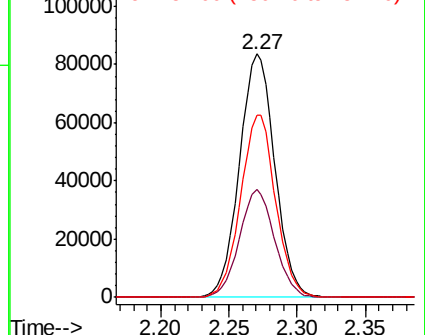
151 73.9 60.4 90.6



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: 53.549 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

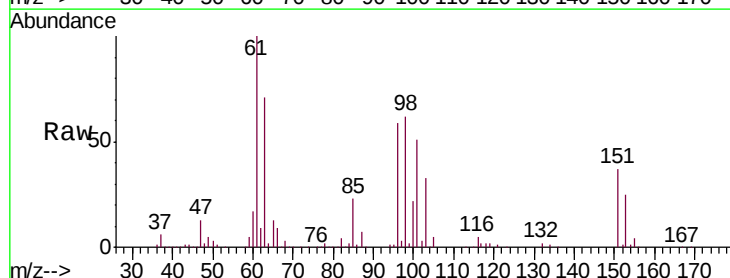
Tgt Ion: 96 Resp: 140915

Ion Ratio Lower Upper

96 100

61 168.6 123.7 229.7

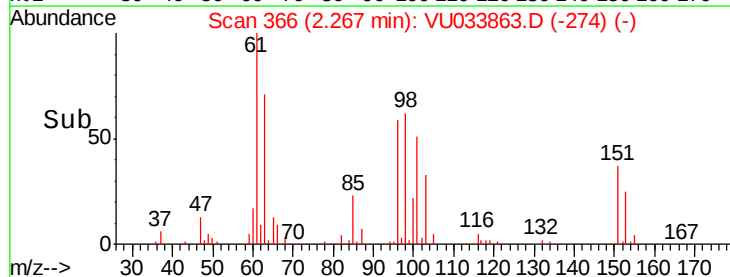
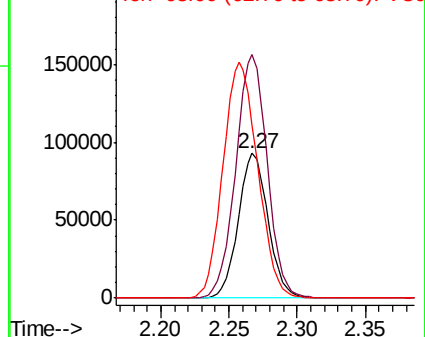
63 120.3 91.2 169.4

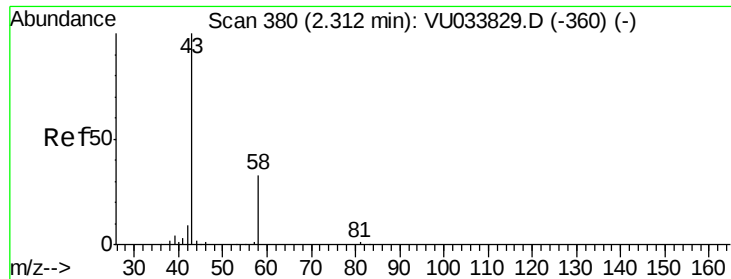


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 120.262 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.01 min

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Acq: 21 Aug 2019 11:11

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ClientSampleId :

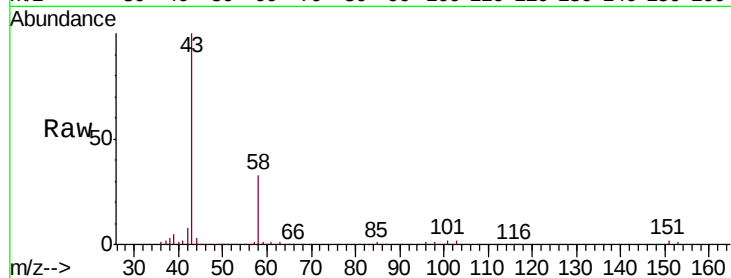
VSTD05047

Tgt Ion: 43 Resp: 212340

Ion Ratio Lower Upper

43 100

58 32.9 0.0 69.0



Abundance Ion 43.00 (42.70 to 43.70): VU033829.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU033829.D (-360) (-)

2.30

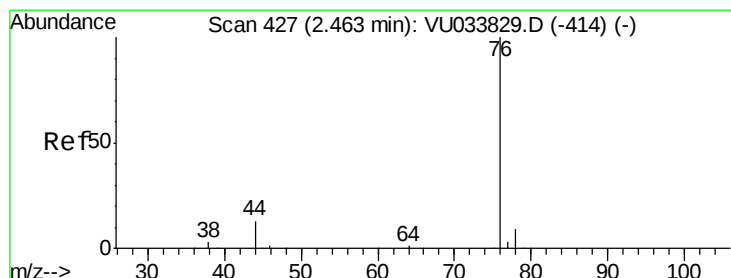
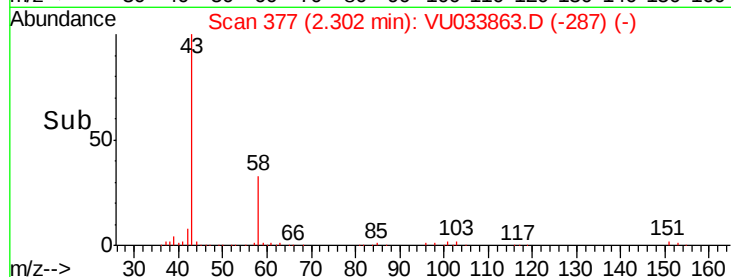
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 51.179 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033863.D

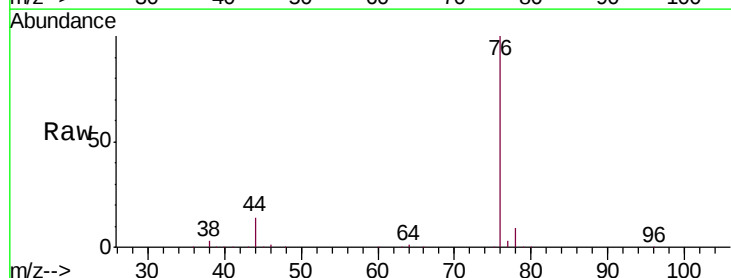
Acq: 21 Aug 2019 11:11

Tgt Ion: 76 Resp: 424689

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033829.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033829.D (-414) (-)

2.46

300000

250000

200000

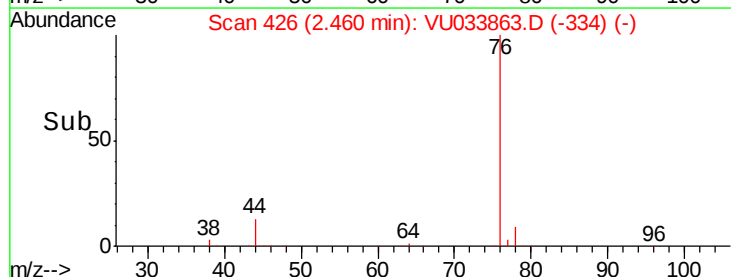
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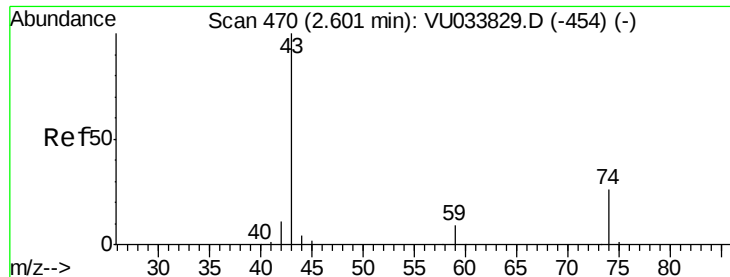
100000

50000

0

Time-->

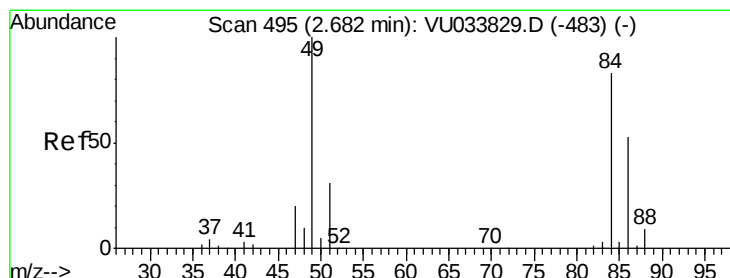
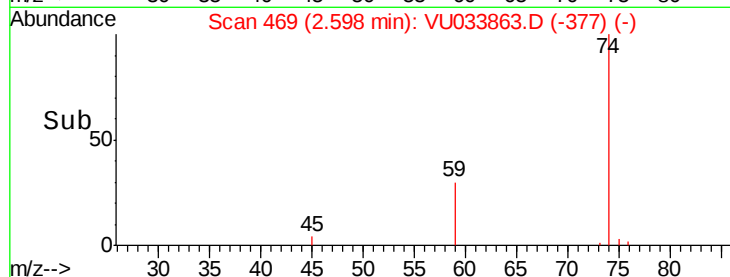
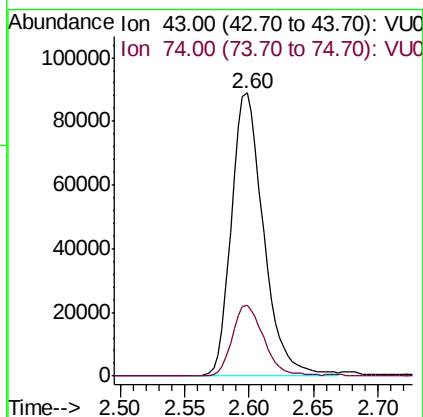
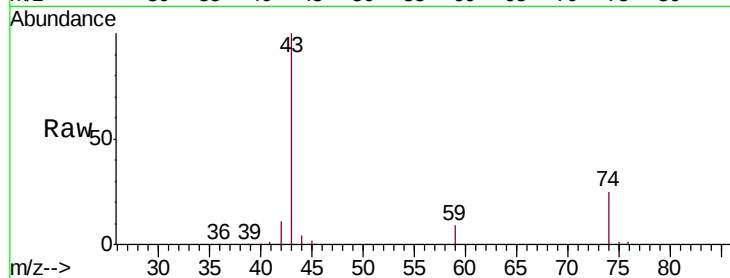




#15
Methyl Acetate
Concen: 52.733 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

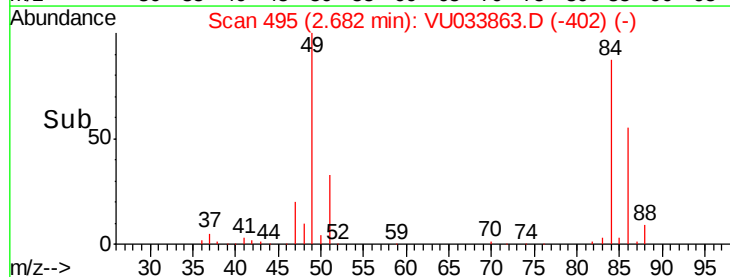
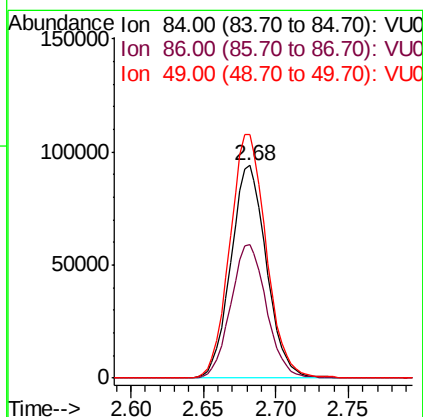
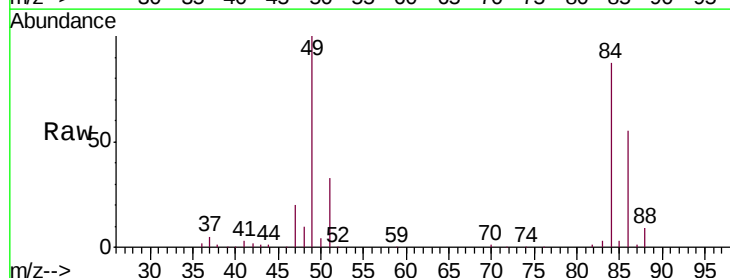
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

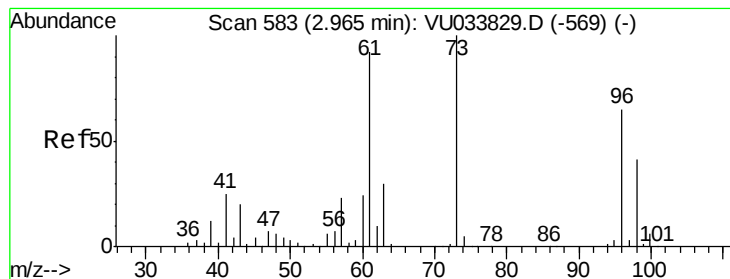
Tgt Ion: 43 Resp: 153545
Ion Ratio Lower Upper
43 100
74 24.7 19.7 29.5



#16
Methylene chloride
Concen: 52.606 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion: 84 Resp: 160416
Ion Ratio Lower Upper
84 100
86 63.0 46.1 85.5
49 114.5 85.6 159.0





#17

trans-1,2-Dichloroethene

Concen: 51.941 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

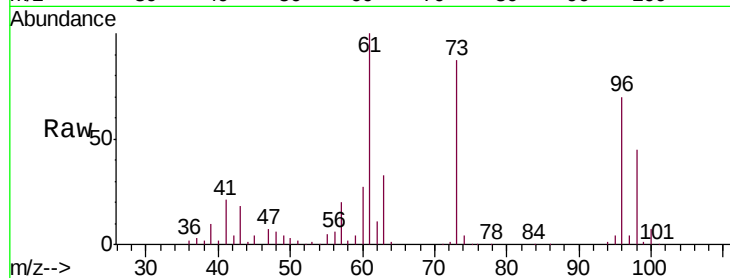
Tgt Ion: 96 Resp: 142484

Ion Ratio Lower Upper

96 100

61 143.0 98.6 183.2

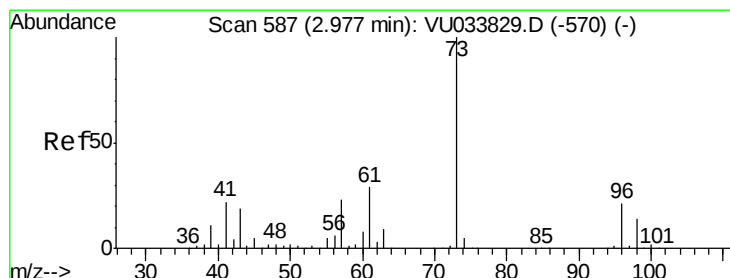
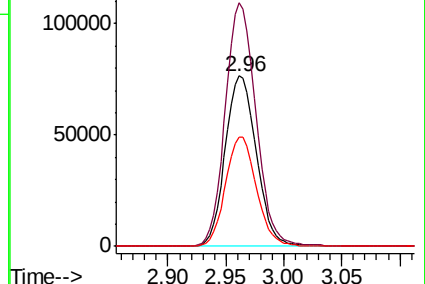
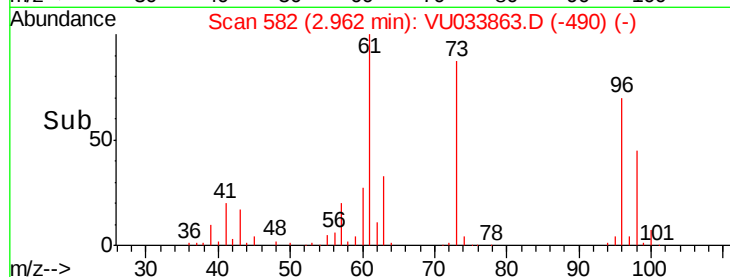
98 64.4 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033863.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033863.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033863.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 51.845 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

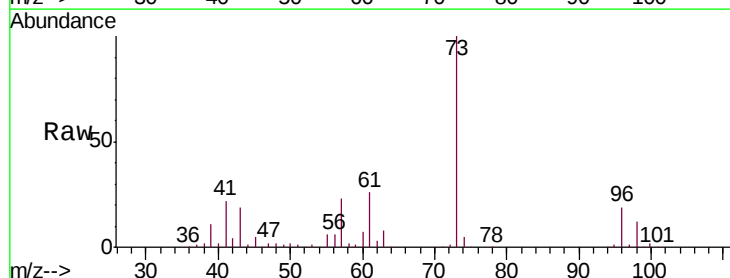
Tgt Ion: 73 Resp: 415051

Ion Ratio Lower Upper

73 100

43 19.6 15.2 22.8

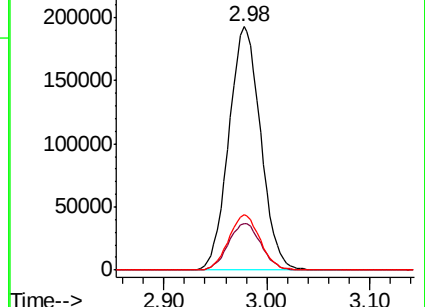
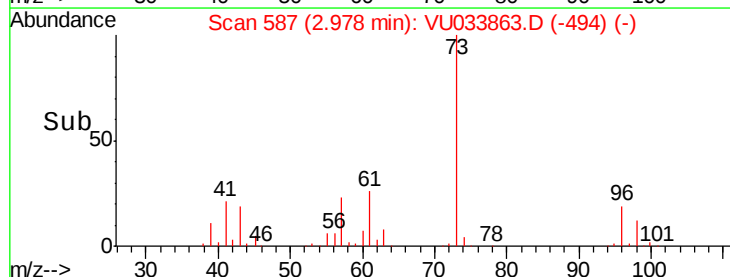
57 22.5 17.8 26.8

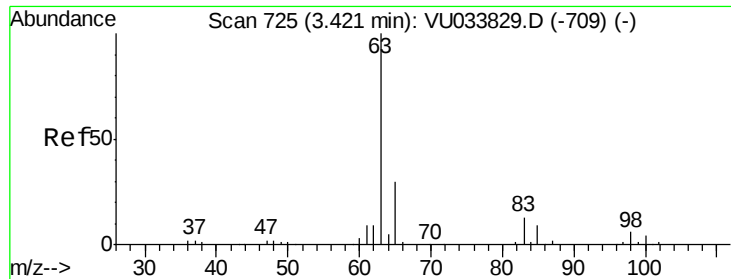


Abundance Ion 73.00 (72.70 to 73.70): VU033863.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033863.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033863.D (-494) (-)

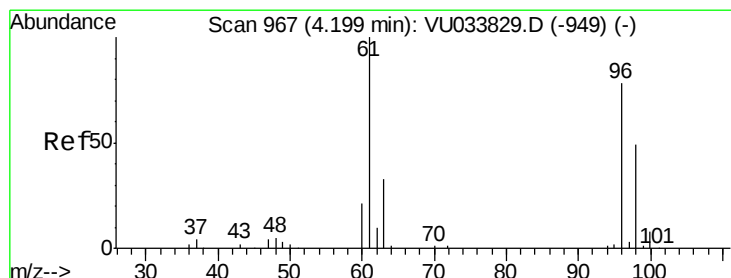
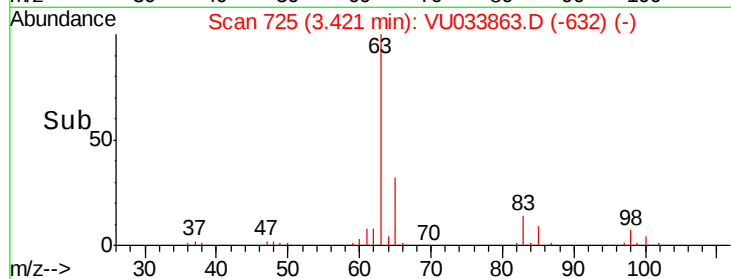
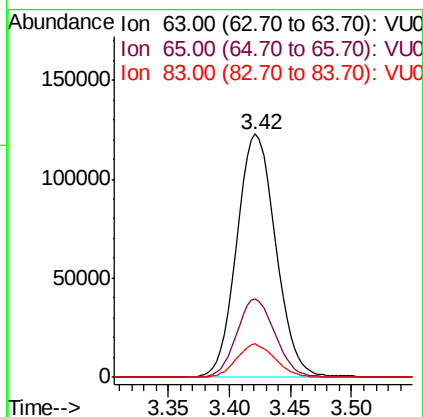
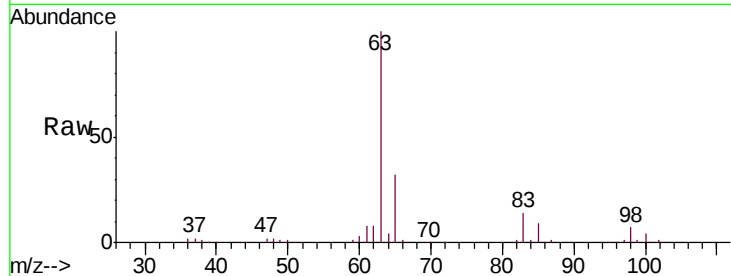




#19
 1,1-Dichloroethane
 Concen: 51.493 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

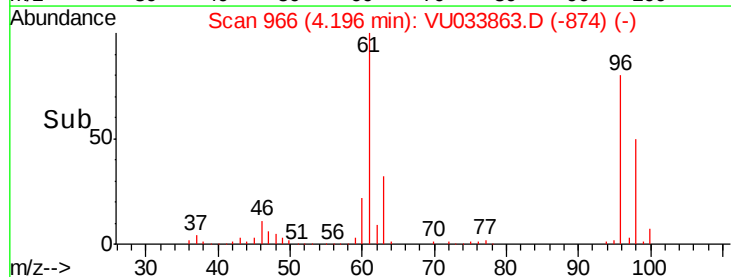
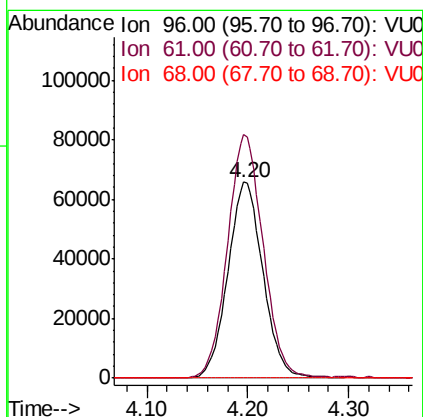
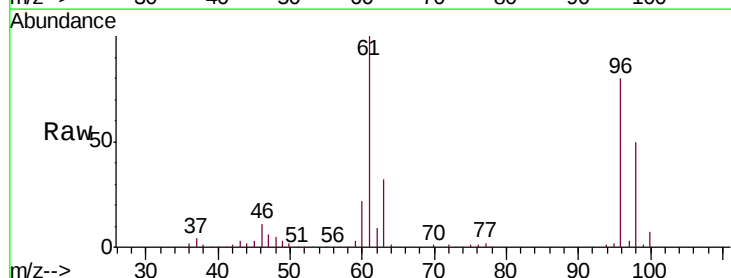
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

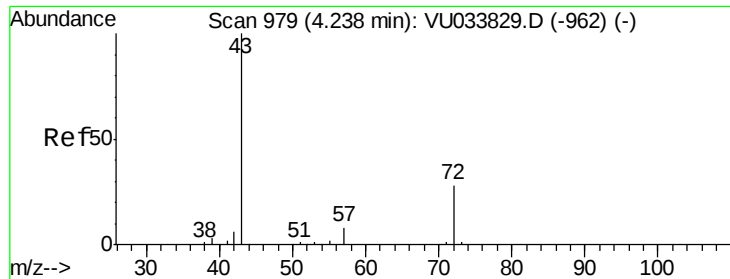
Tgt Ion: 63 Resp: 271824
 Ion Ratio Lower Upper
 63 100
 65 32.4 21.8 40.6
 83 13.6 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 53.566 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion: 96 Resp: 158956
 Ion Ratio Lower Upper
 96 100
 61 124.4 88.2 163.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 116.088 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

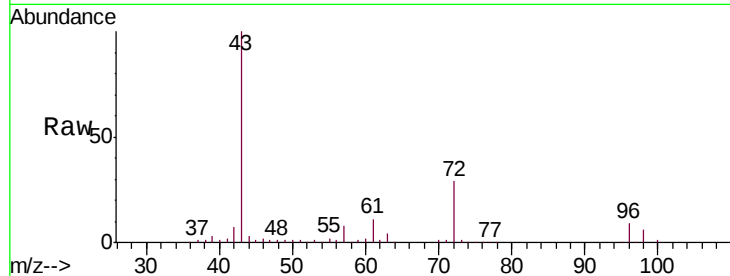
VSTD05047

Tgt Ion: 43 Resp: 235883

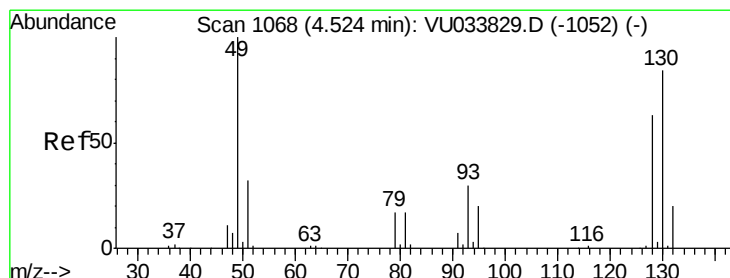
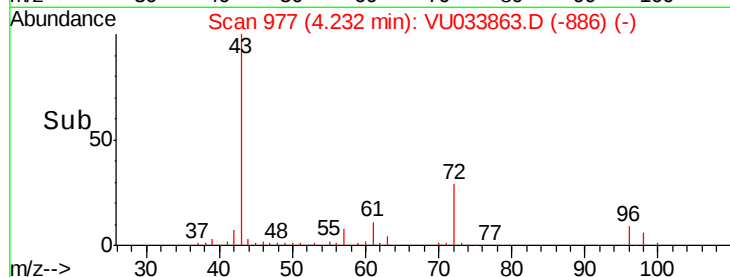
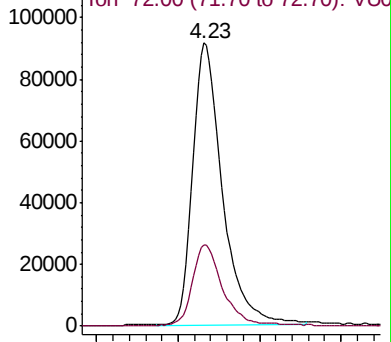
Ion Ratio Lower Upper

43 100

72 28.6 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033863.D (-886) (-)



#23

Bromochloromethane

Concen: 53.042 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Tgt Ion: 128 Resp: 85819

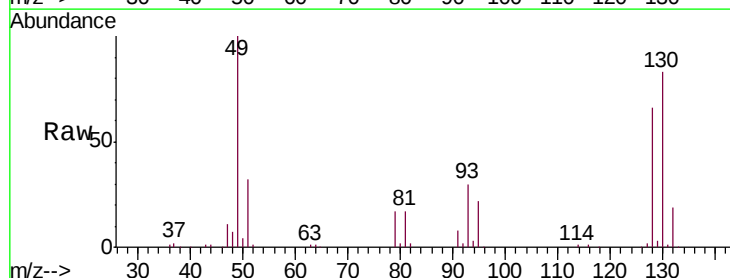
Ion Ratio Lower Upper

128 100

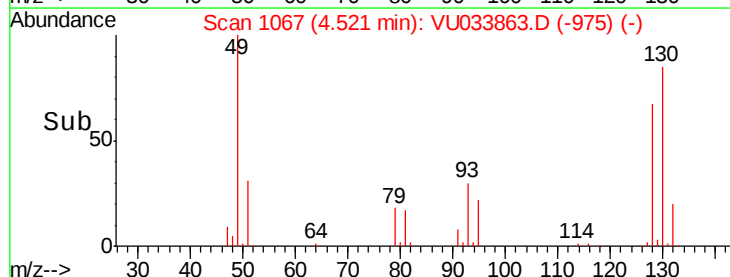
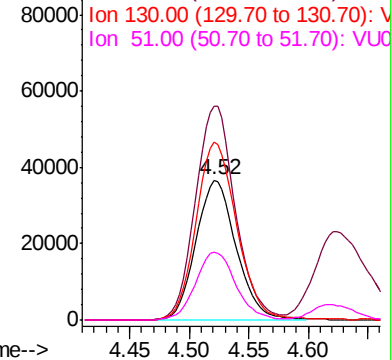
49 152.6 106.7 198.3

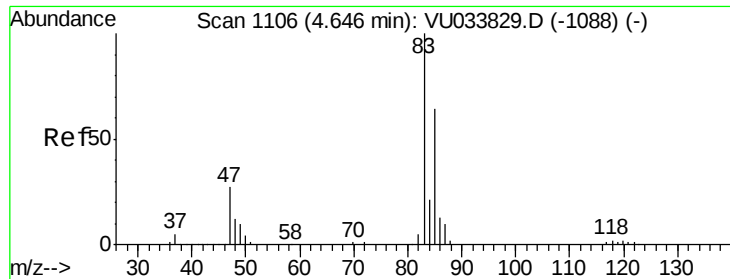
130 127.2 90.4 168.0

51 48.6 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU033863.D (-975) (-)

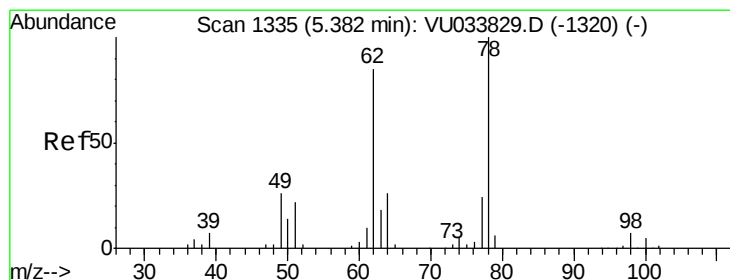
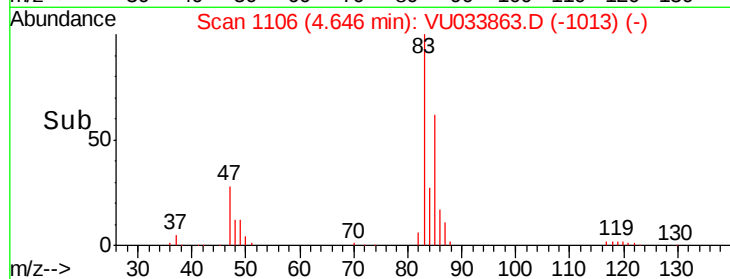
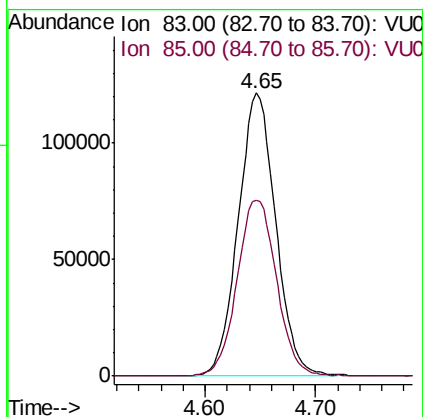
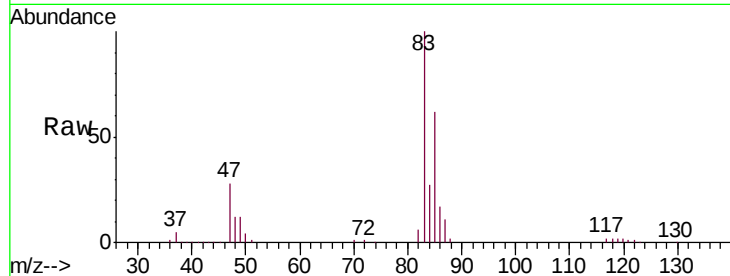




#25
Chloroform
Concen: 52.263 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

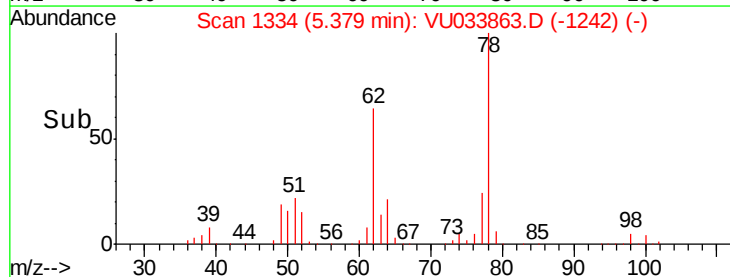
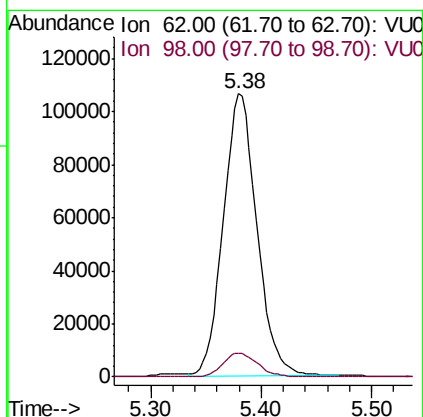
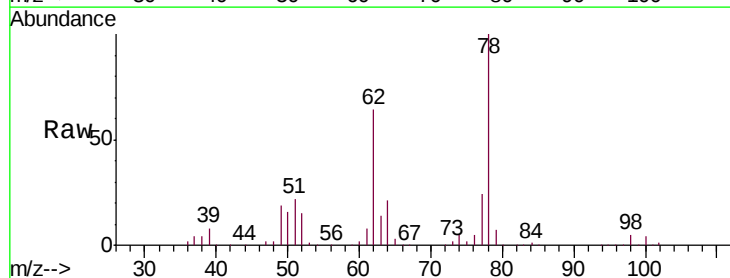
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

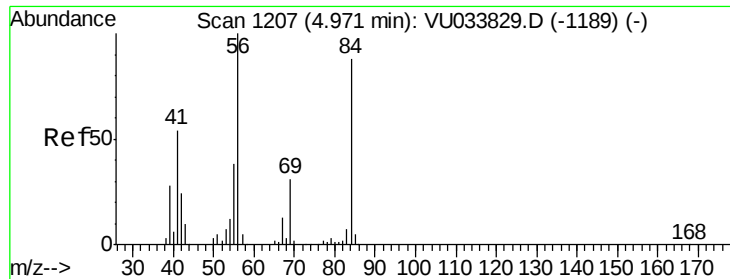
Tgt Ion: 83 Resp: 286714
Ion Ratio Lower Upper
83 100
85 62.4 46.3 86.1



#27
1,2-Dichloroethane
Concen: 53.995 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion: 62 Resp: 224574
Ion Ratio Lower Upper
62 100
98 8.3 7.0 10.6

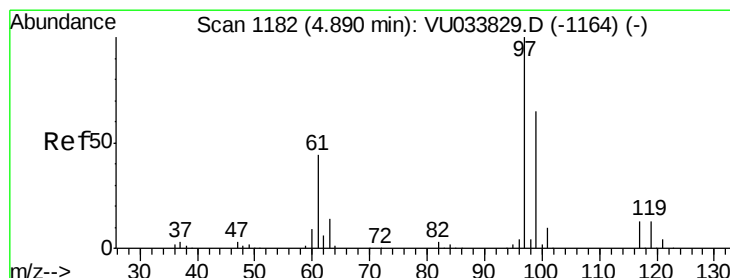
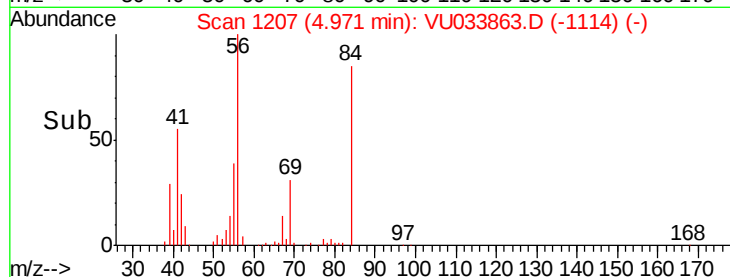
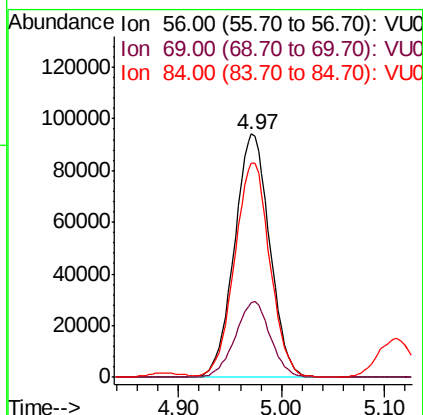
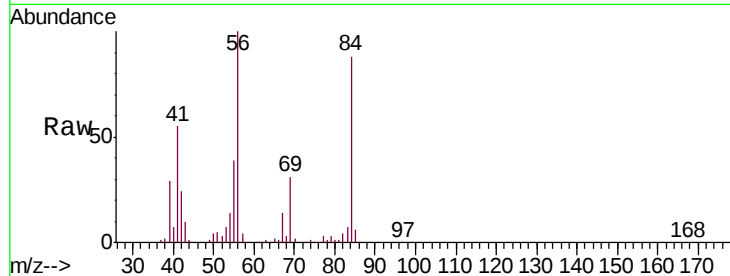




#29
Cyclohexane
Concen: 53.396 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

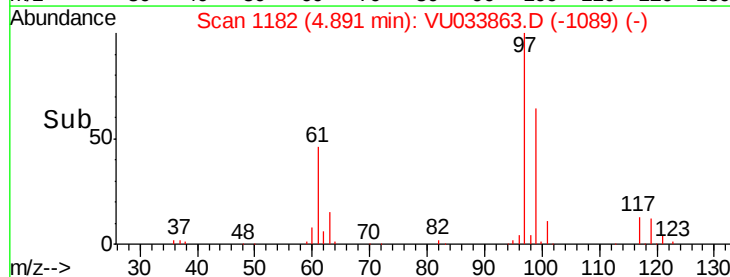
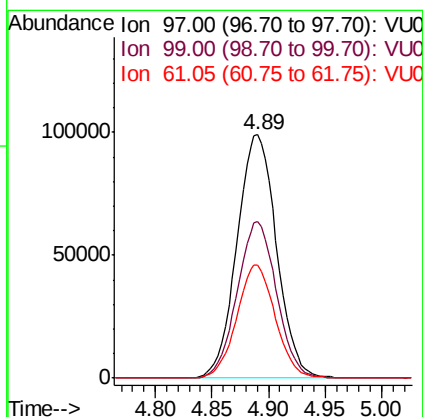
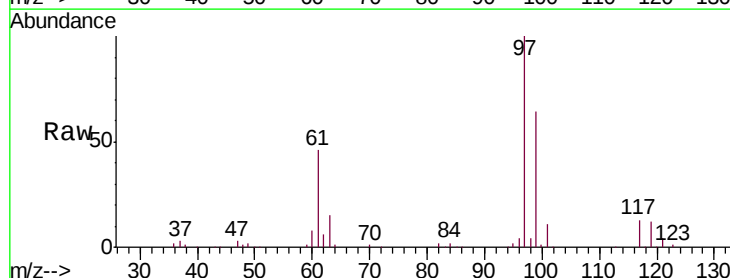
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

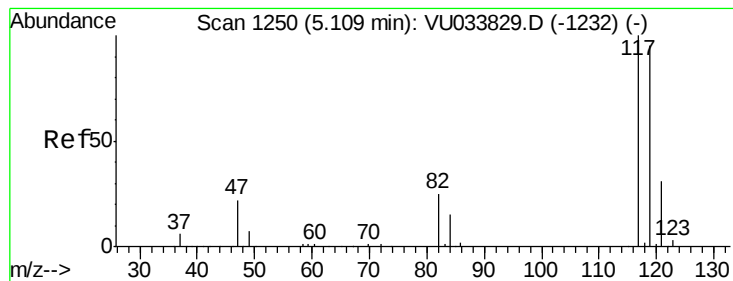
Tgt Ion: 56 Resp: 224011
Ion Ratio Lower Upper
56 100
69 30.9 24.4 36.6
84 88.5 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 51.206 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion: 97 Resp: 241383
Ion Ratio Lower Upper
97 100
99 63.8 51.8 77.8
61 45.0 35.8 53.6





#31

Carbon tetrachloride

Concen: 51.027 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

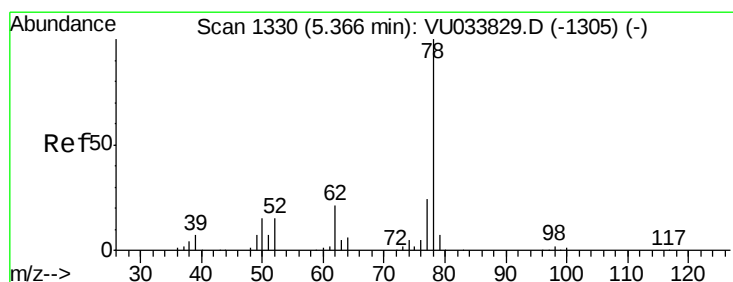
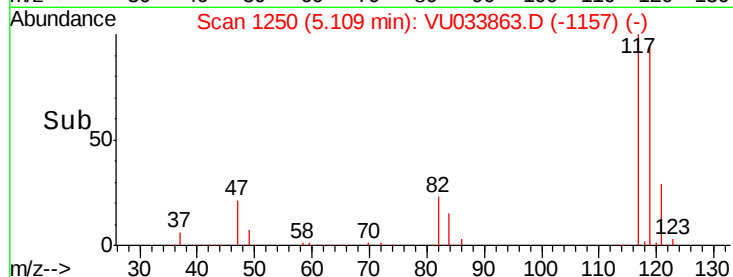
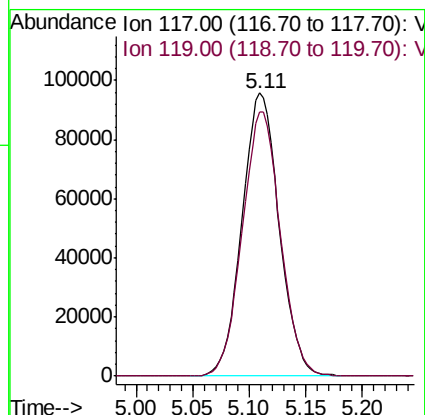
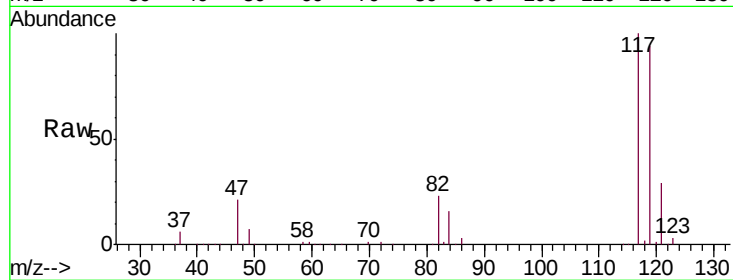
VSTD05047

Tgt Ion:117 Resp: 218888

Ion Ratio Lower Upper

117 100

119 95.5 77.0 115.6



#33

Benzene

Concen: 52.054 ug/L

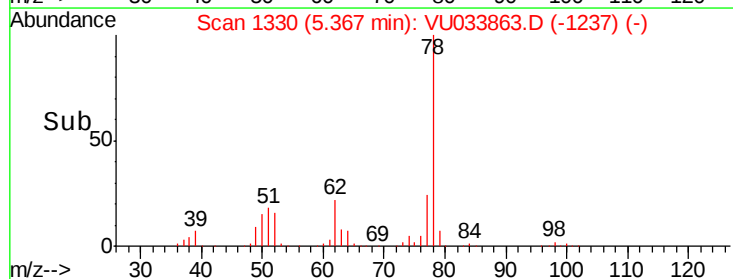
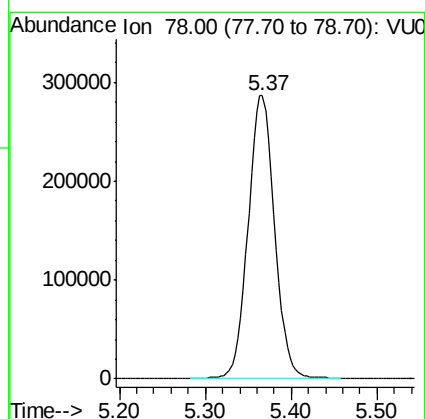
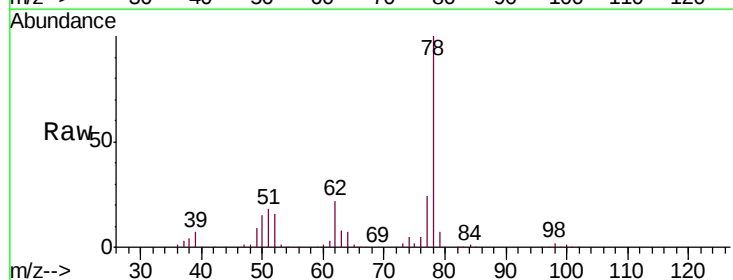
RT: 5.37 min Scan# 1330

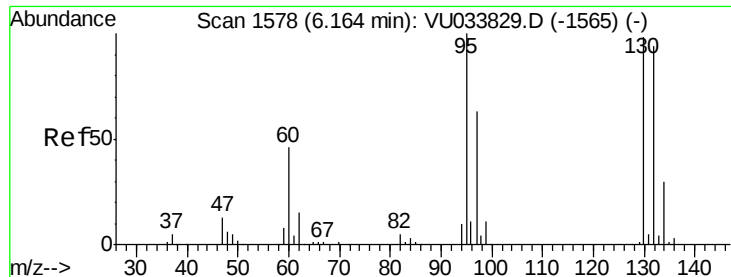
Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Tgt Ion: 78 Resp: 615711

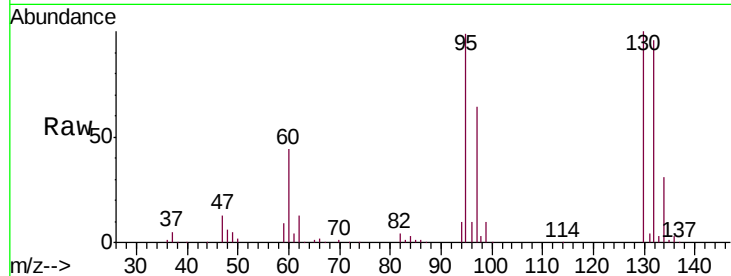




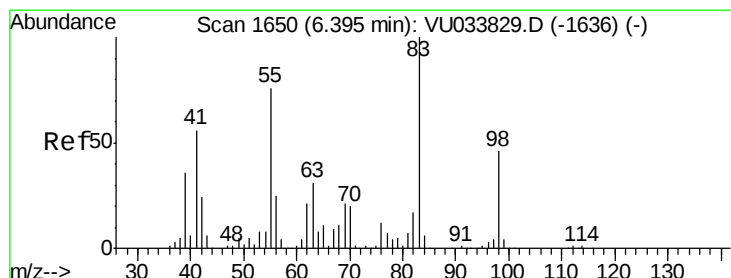
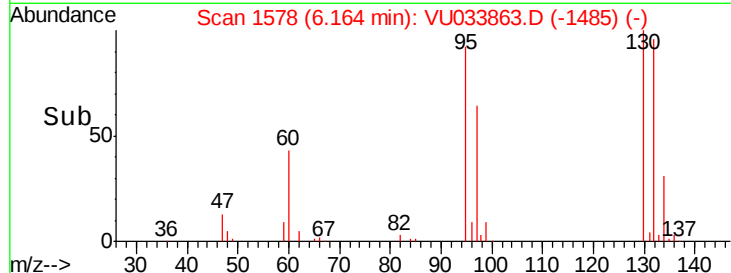
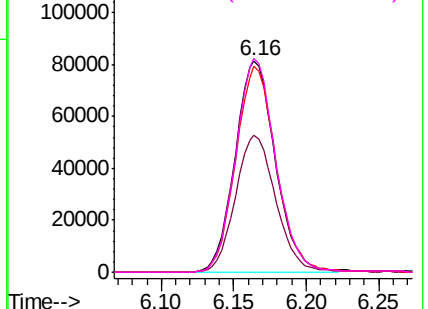
#34
 Trichloroethene
 Concen: 49.854 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion: 95 Resp: 157379
 Ion Ratio Lower Upper
 95 100
 97 64.5 46.3 86.1
 132 97.2 67.9 126.1
 130 101.0 72.0 133.6

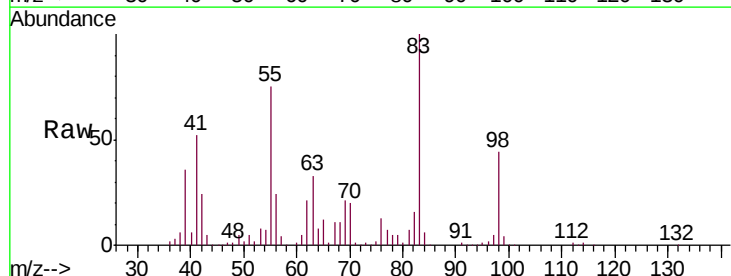


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

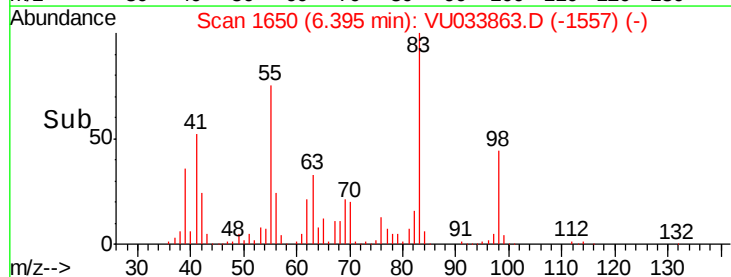
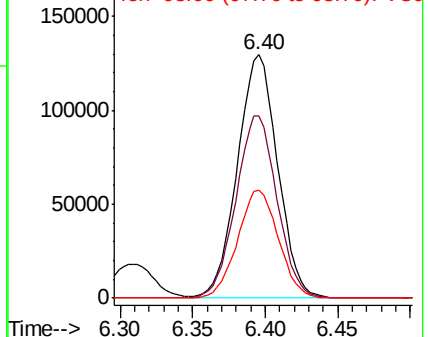


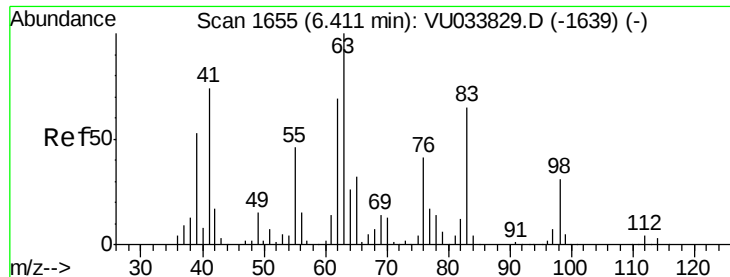
#35
 Methylcyclohexane
 Concen: 54.104 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion: 83 Resp: 250104
 Ion Ratio Lower Upper
 83 100
 55 76.7 61.6 92.4
 98 45.1 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

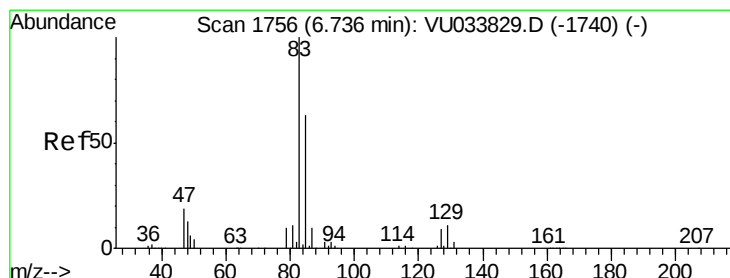
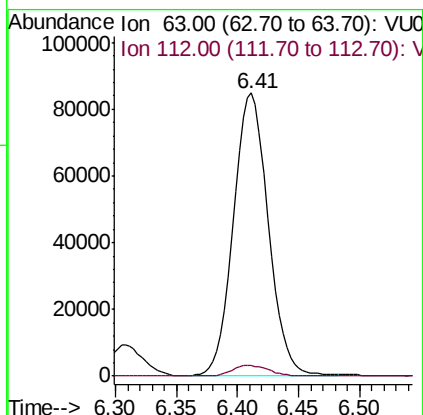
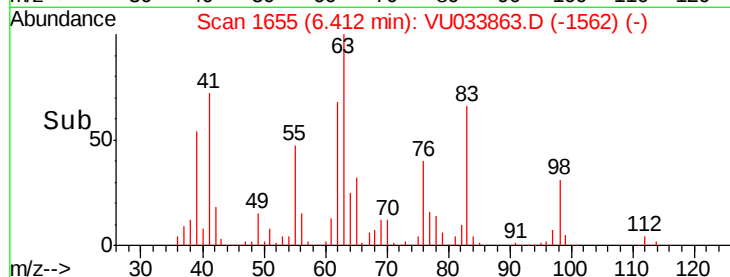
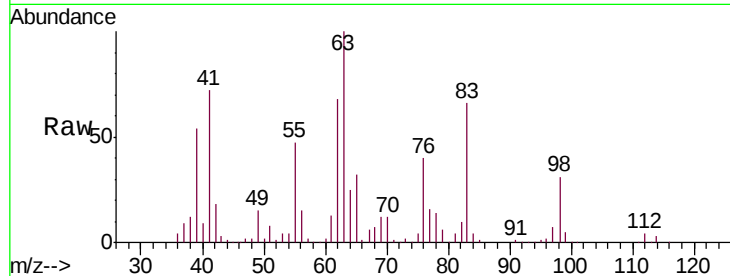




#37
 1,2-Dichloropropane
 Concen: 51.722 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

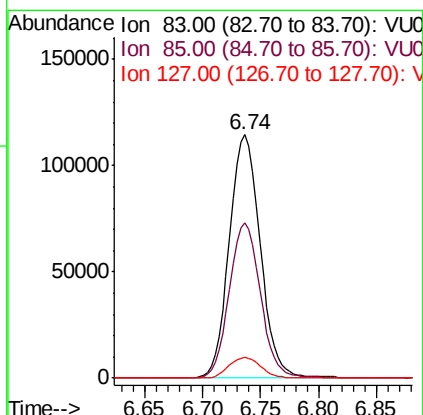
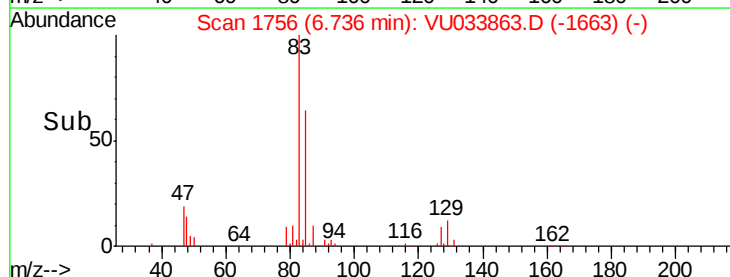
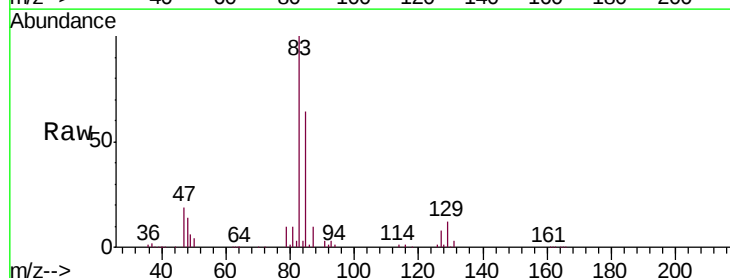
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

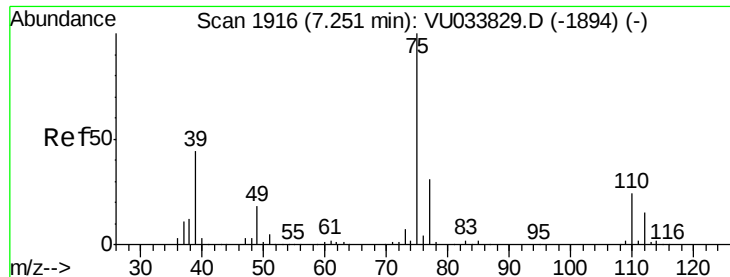
Tgt Ion: 63 Resp: 167529
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 50.751 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion: 83 Resp: 212834
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.9 85.3
 127 8.4 7.3 10.9

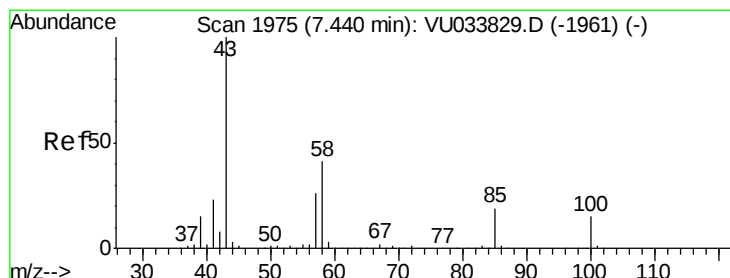
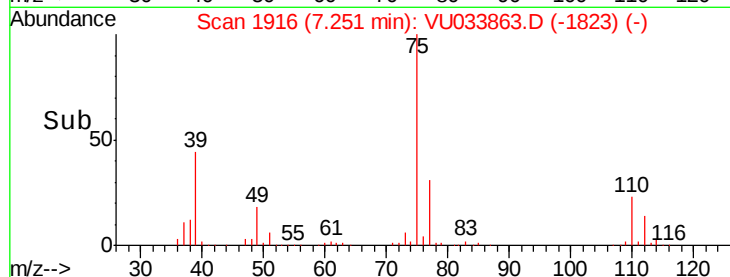
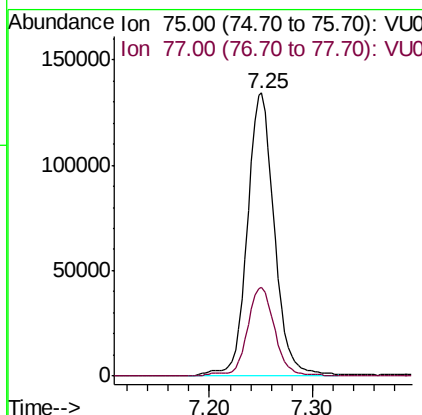
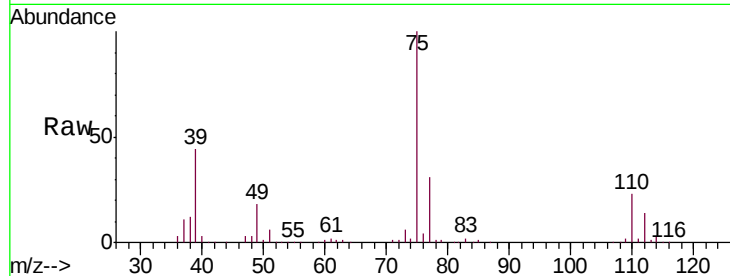




#39
 cis-1,3-Dichloropropene
 Concen: 51.947 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

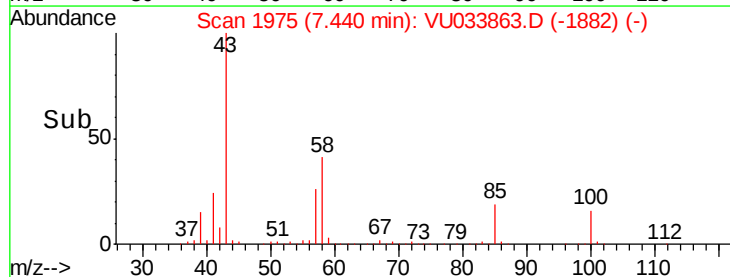
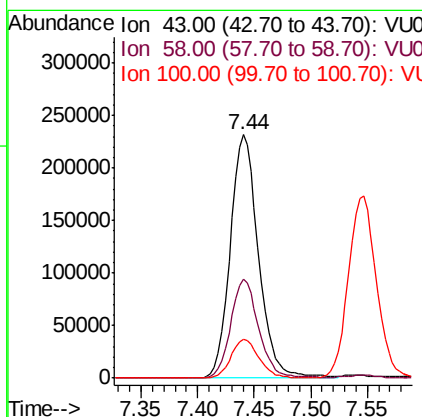
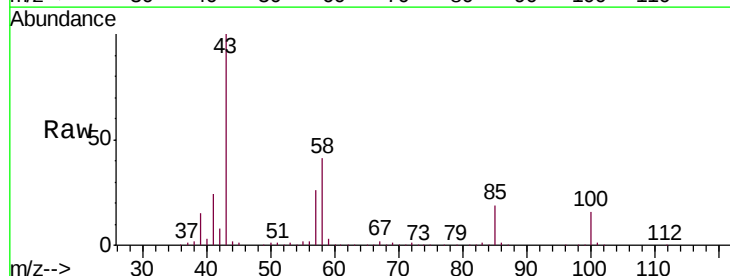
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05047

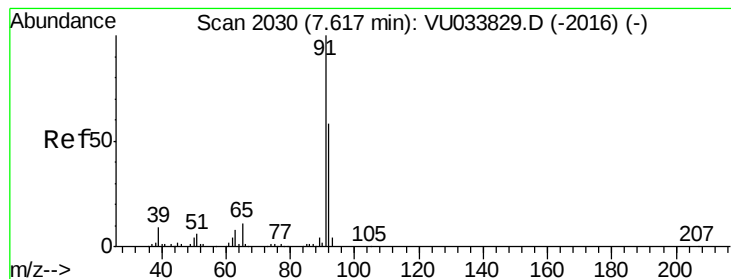
Tgt Ion: 75 Resp: 245227
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 106.123 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion: 43 Resp: 403506
 Ion Ratio Lower Upper
 43 100
 58 40.3 32.6 49.0
 100 15.7 12.4 18.6





#42

Toluene

Concen: 54.048 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

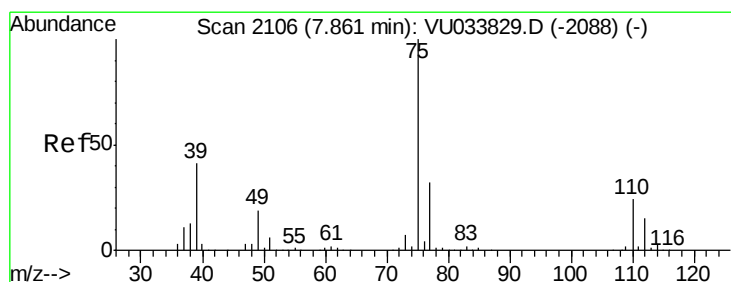
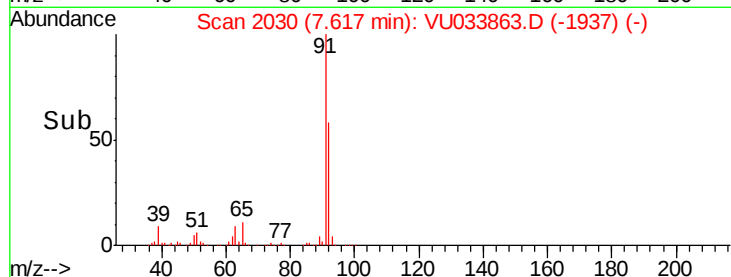
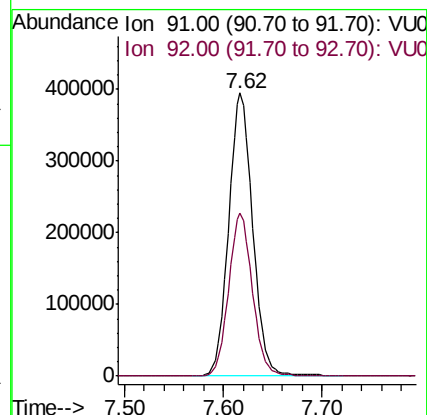
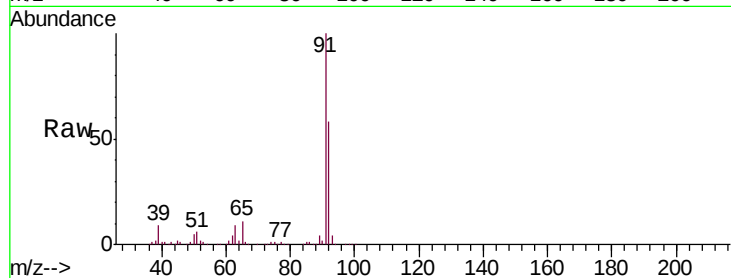
VSTD05047

Tgt Ion: 91 Resp: 675828

Ion Ratio Lower Upper

91 100

92 57.5 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 52.424 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033863.D

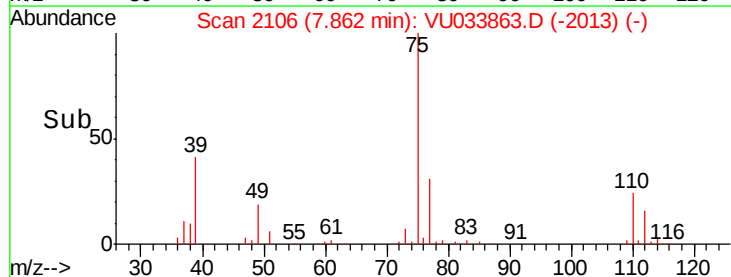
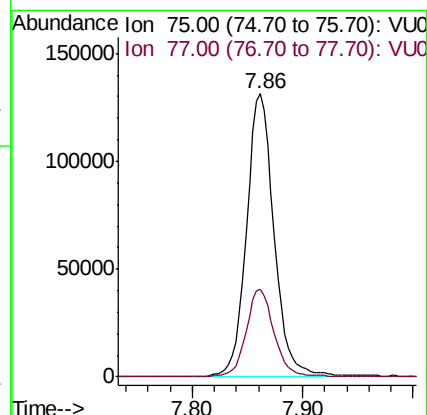
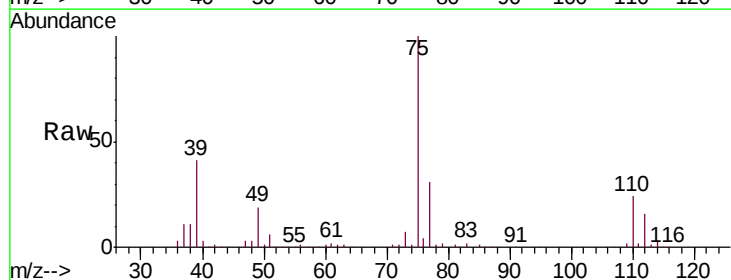
Acq: 21 Aug 2019 11:11

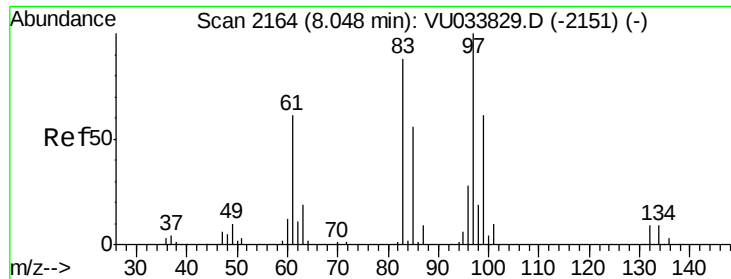
Tgt Ion: 75 Resp: 227437

Ion Ratio Lower Upper

75 100

77 30.9 22.5 41.9

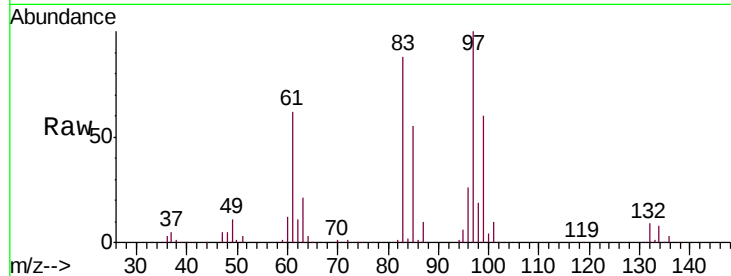




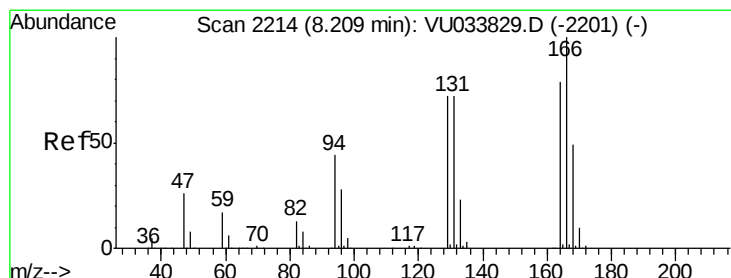
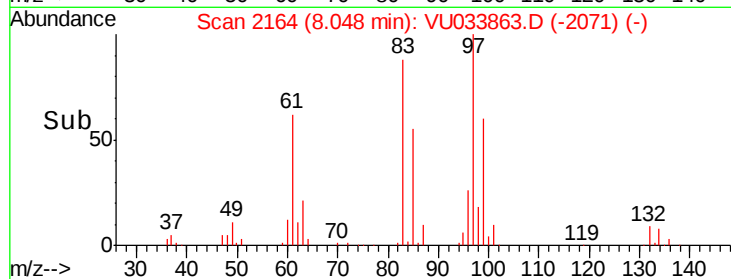
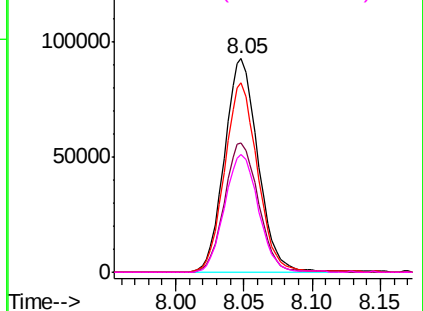
#45
 1,1,2-Trichloroethane
 Concen: 52.156 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	97	Resp:	158561
Ion	Ratio	Lower	Upper
97	100		
99	60.3	43.9	81.5
83	88.5	61.7	114.5
85	55.4	39.2	72.8

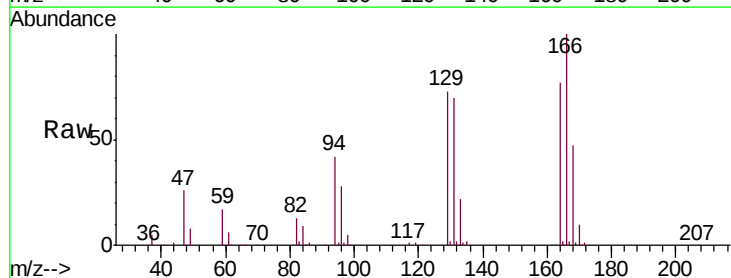


Abundance Ion 97.00 (96.70 to 97.70): VU033829.D (-2151) (-)
 Ion 99.00 (98.70 to 99.70): VU033829.D (-2151) (-)
 Ion 83.00 (82.70 to 83.70): VU033829.D (-2151) (-)
 Ion 85.00 (84.70 to 85.70): VU033829.D (-2151) (-)

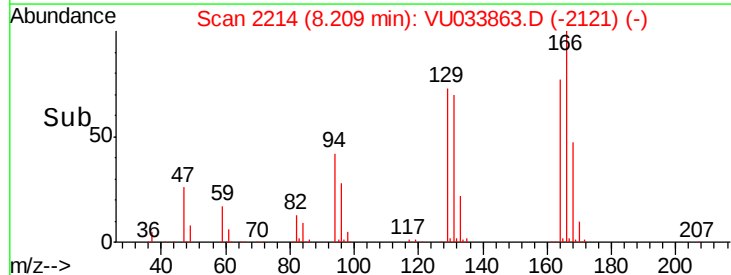
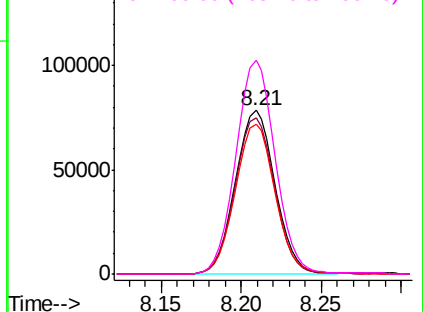


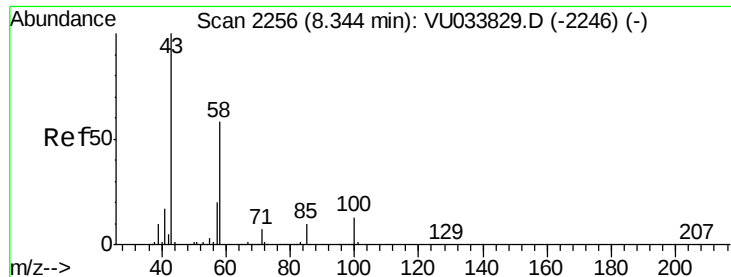
#46
 Tetrachloroethene
 Concen: 52.421 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion:	164	Resp:	132670
Ion	Ratio	Lower	Upper
164	100		
129	95.0	64.4	119.6
131	91.8	63.8	118.4
166	130.4	90.9	168.7



Abundance Ion 164.00 (163.70 to 164.70): VU033829.D (-2201) (-)
 Ion 129.00 (128.70 to 129.70): VU033829.D (-2201) (-)
 Ion 131.00 (130.70 to 131.70): VU033829.D (-2201) (-)
 Ion 166.00 (165.70 to 166.70): VU033829.D (-2201) (-)

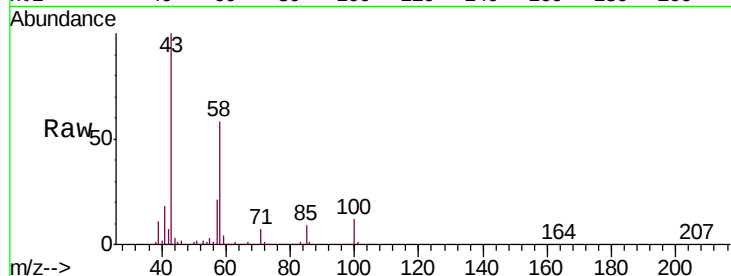




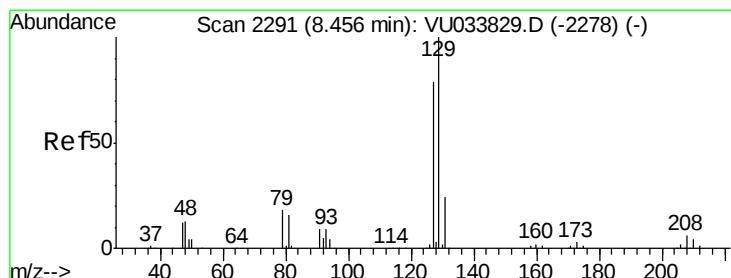
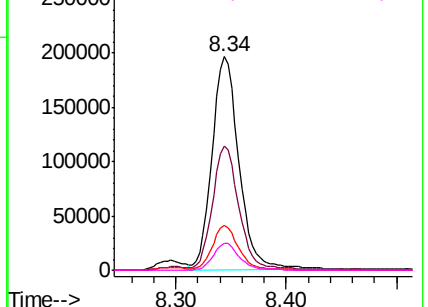
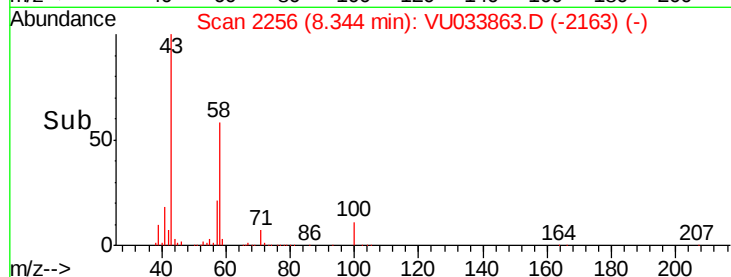
#48
2-Hexanone
Concen: 111.215 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tgt Ion:	43	Resp:	331581
Ion	Ratio	Lower	Upper
43	100		
58	56.6	45.0	67.4
57	20.0	15.4	23.0
100	12.1	9.6	14.4

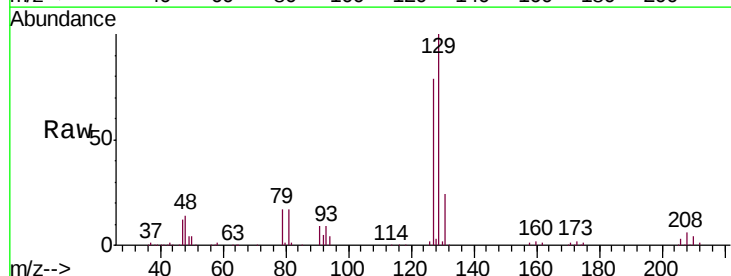


Abundance Ion 43.00 (42.70 to 43.70): VU033829.D (-2246) (-)
Ion 58.00 (57.70 to 58.70): VU033829.D (-2246) (-)
Ion 57.00 (56.70 to 57.70): VU033829.D (-2246) (-)
Ion 100.00 (99.70 to 100.70): VU033829.D (-2246) (-)

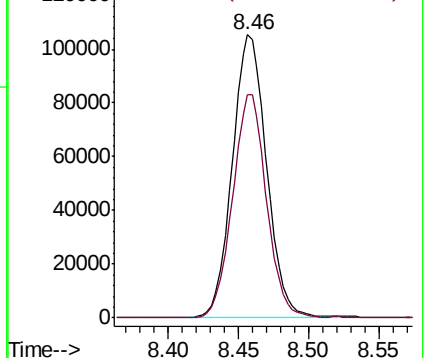
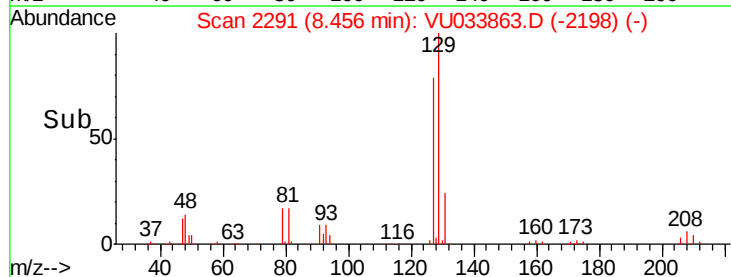


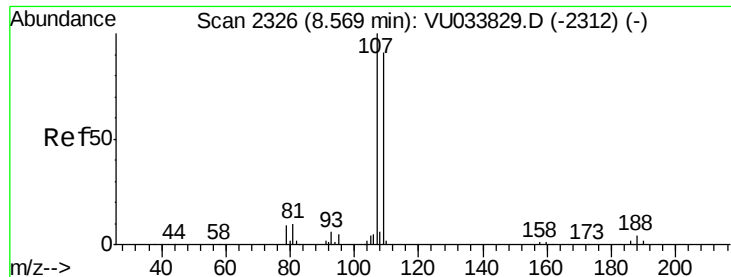
#49
Dibromochloromethane
Concen: 52.357 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion:	129	Resp:	179731
Ion	Ratio	Lower	Upper
129	100		
127	78.7	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033829.D (-2278) (-)
Ion 127.00 (126.70 to 127.70): VU033829.D (-2278) (-)

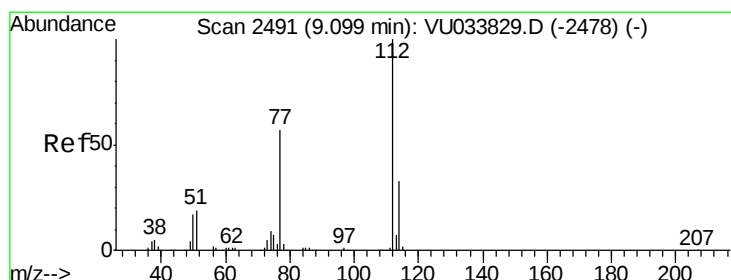
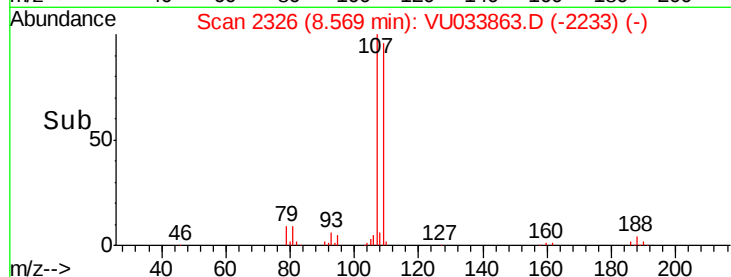
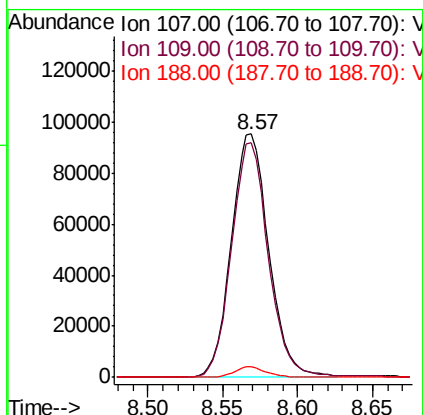
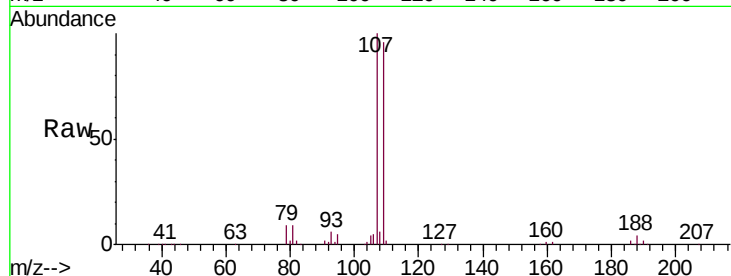




#50
1,2-Dibromoethane
Concen: 51.403 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

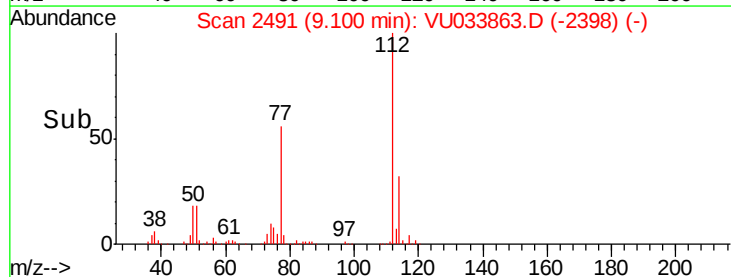
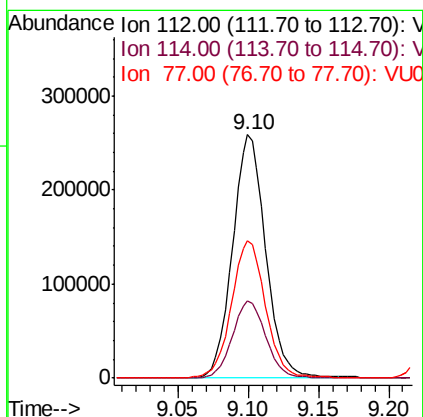
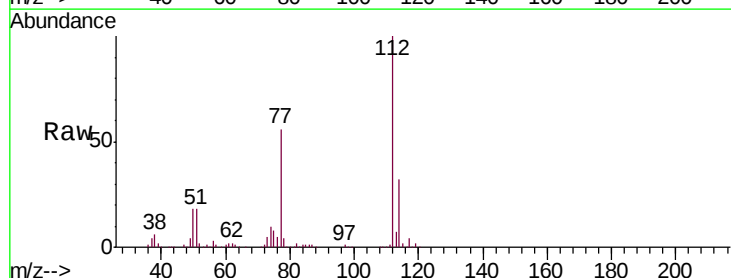
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

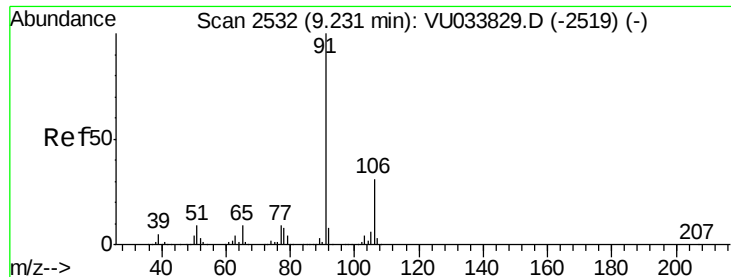
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	64.8	120.3
188	4.2	3.1	4.7



#51
Chlorobenzene
Concen: 51.517 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033863.D
Acq: 21 Aug 2019 11:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.5	41.9
77	56.4	45.4	68.0





#52

Ethylbenzene

Concen: 53.308 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

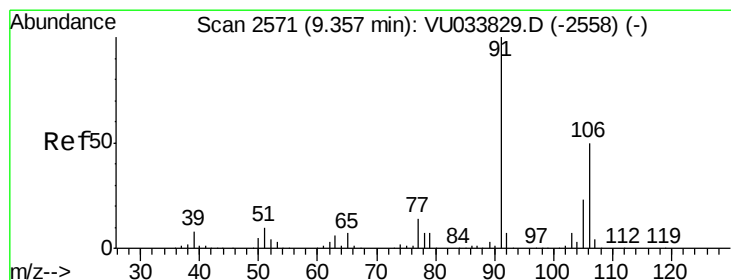
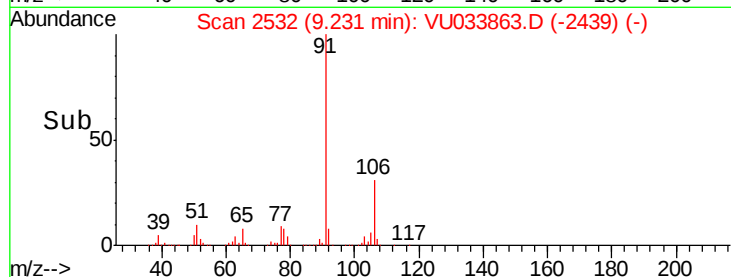
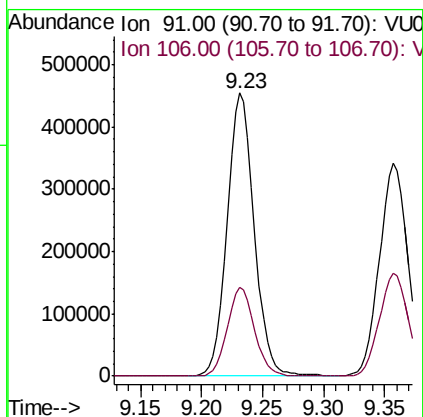
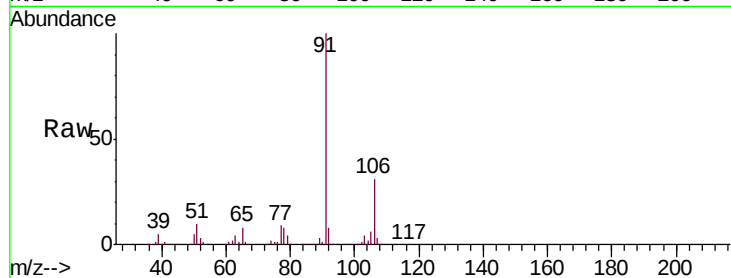
VSTD05047

Tgt Ion: 91 Resp: 706245

Ion Ratio Lower Upper

91 100

106 31.4 21.8 40.6



#53

m,p-Xylene

Concen: 54.610 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033863.D

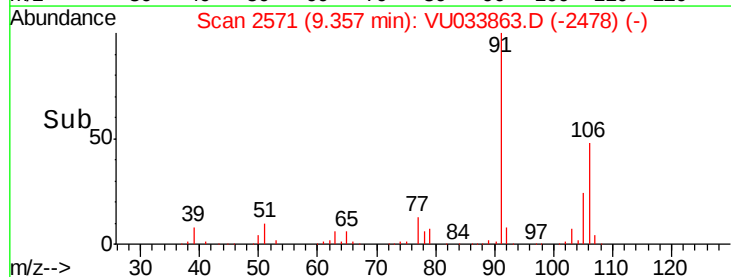
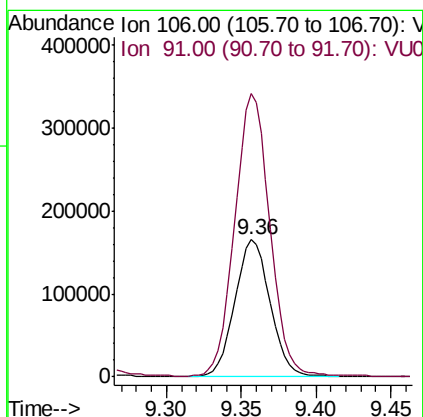
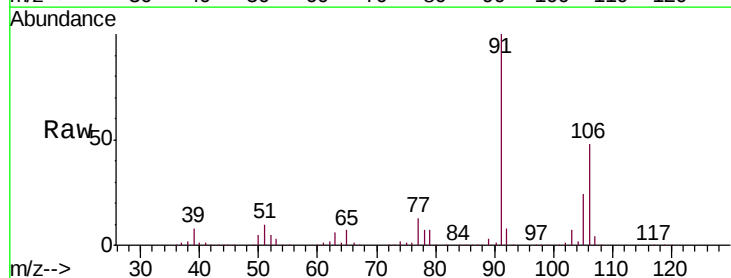
Acq: 21 Aug 2019 11:11

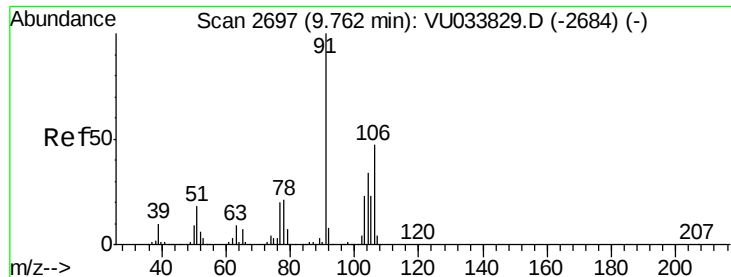
Tgt Ion: 106 Resp: 270817

Ion Ratio Lower Upper

106 100

91 206.6 140.9 261.7





#54

o-xylene

Concen: 54.877 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

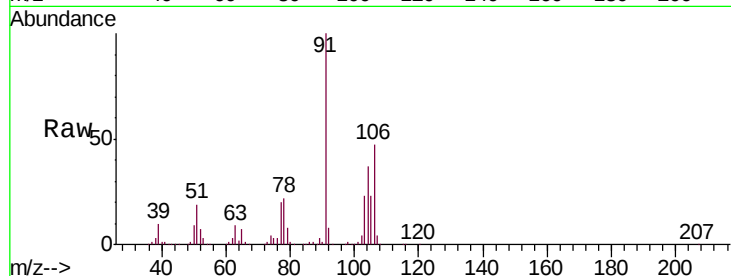
VSTD05047

Tgt Ion:106 Resp: 263696

Ion Ratio Lower Upper

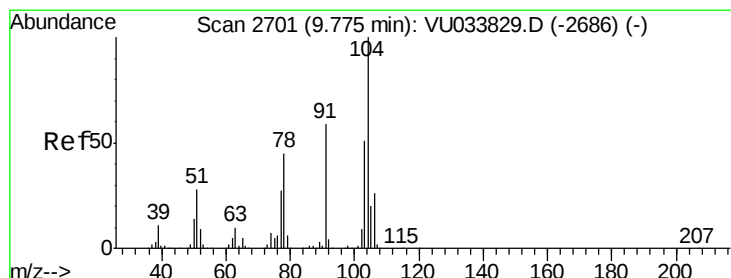
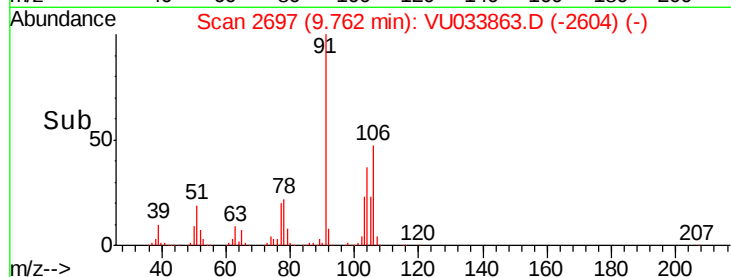
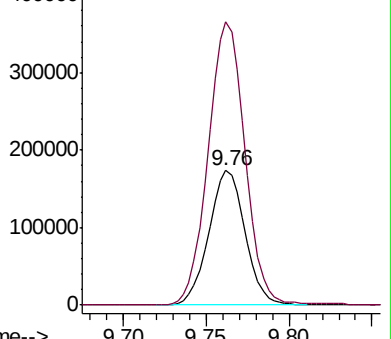
106 100

91 210.8 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 57.117 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033863.D

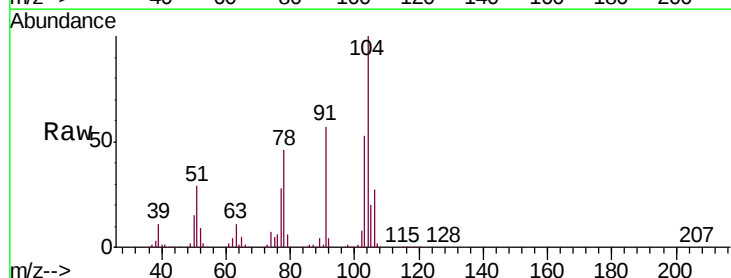
Acq: 21 Aug 2019 11:11

Tgt Ion:104 Resp: 470267

Ion Ratio Lower Upper

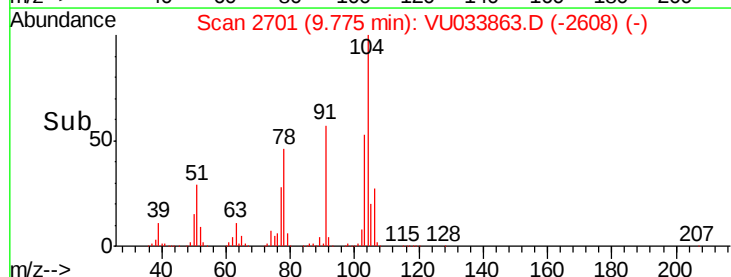
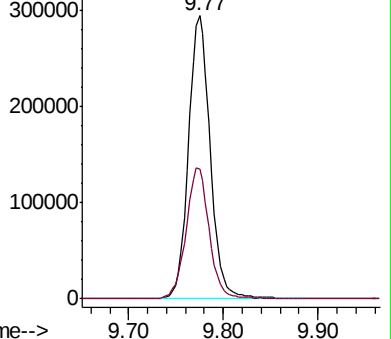
104 100

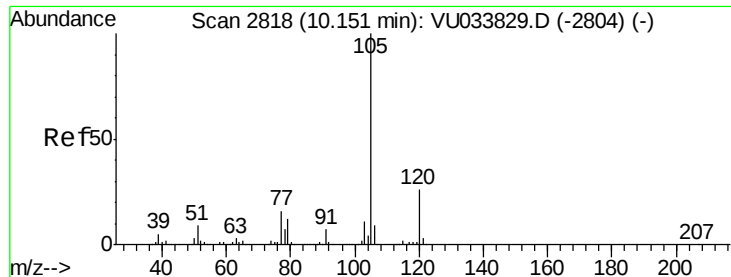
78 46.0 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.680 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

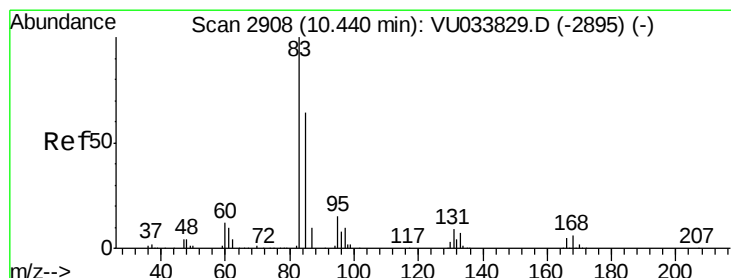
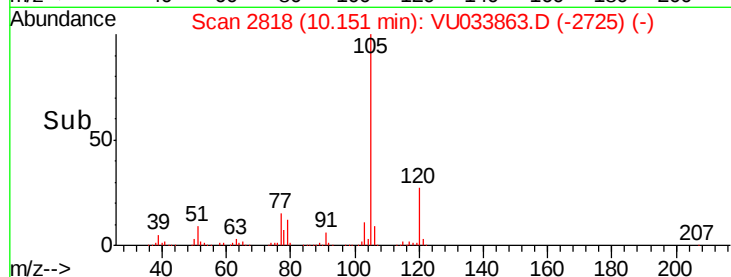
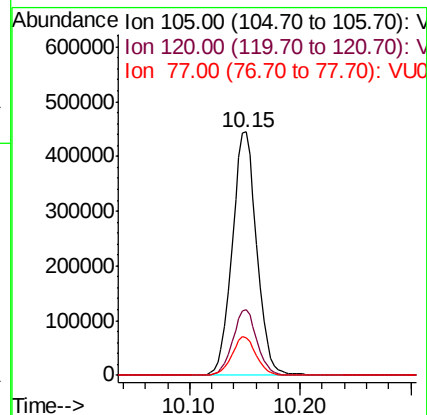
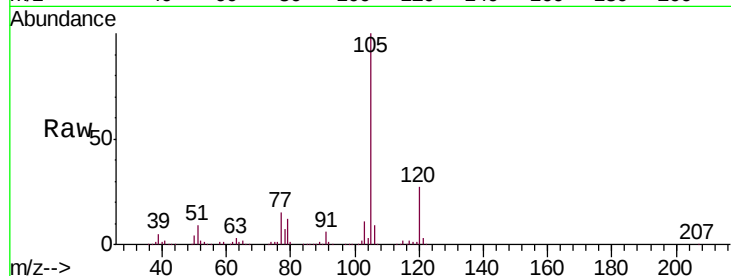
Tgt Ion: 105 Resp: 686997

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

77 15.8 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 53.173 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

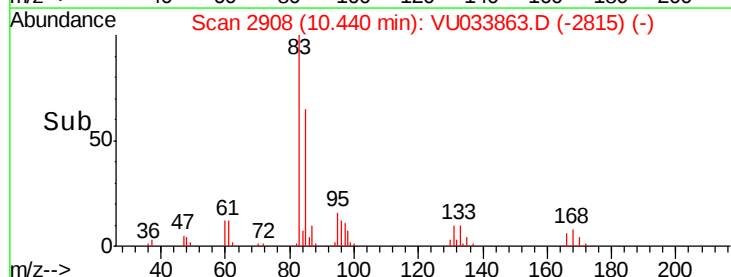
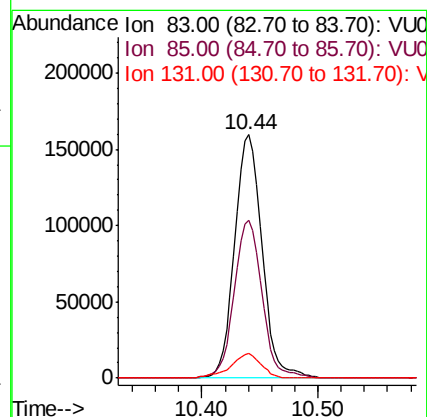
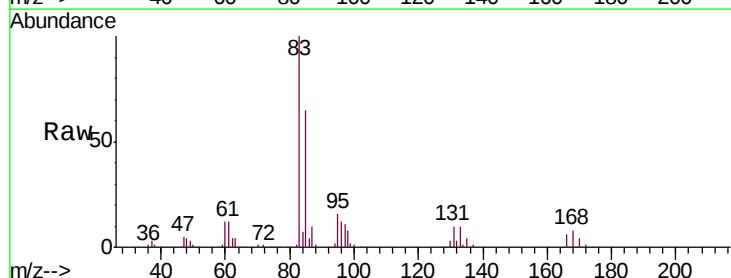
Tgt Ion: 83 Resp: 261644

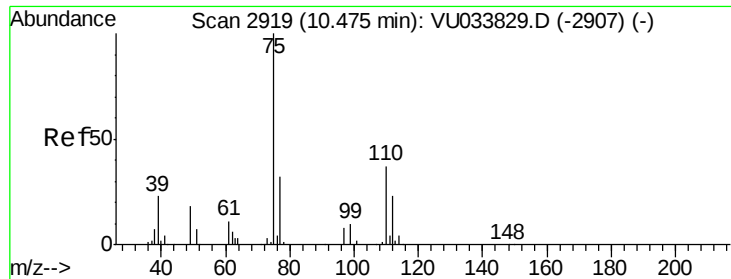
Ion Ratio Lower Upper

83 100

85 64.9 44.6 82.8

131 10.0 7.8 11.6





#59

1,2,3-Trichloropropane

Concen: 52.851 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

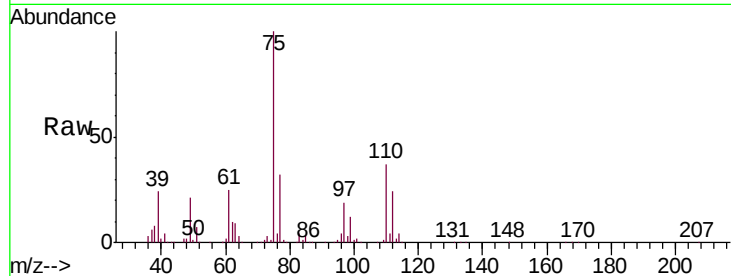
VSTD05047

Tgt Ion: 75 Resp: 207350

Ion Ratio Lower Upper

75 100

77 32.0 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU033829.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033829.D (-2907) (-)

10.48

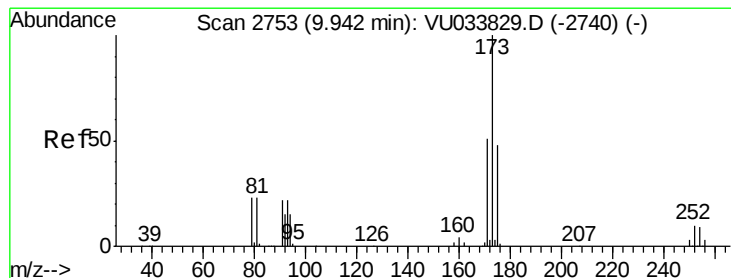
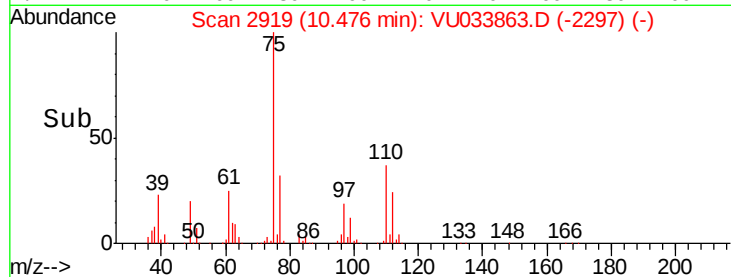
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 51.968 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

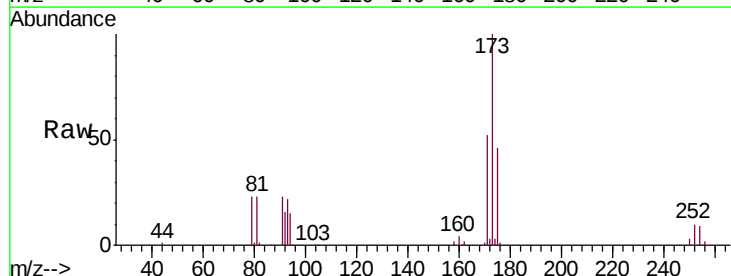
Tgt Ion: 173 Resp: 134988

Ion Ratio Lower Upper

173 100

175 47.8 38.8 58.2

254 9.6 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU033829.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033829.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033829.D (-2740) (-)

9.94

100000

80000

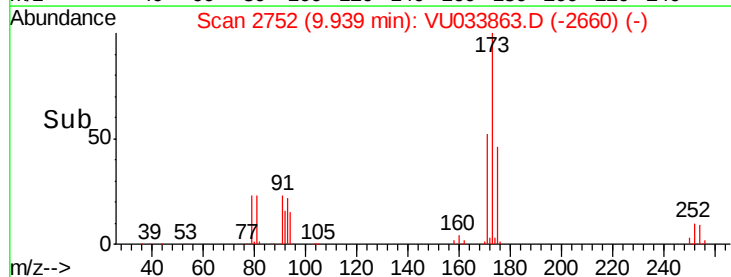
60000

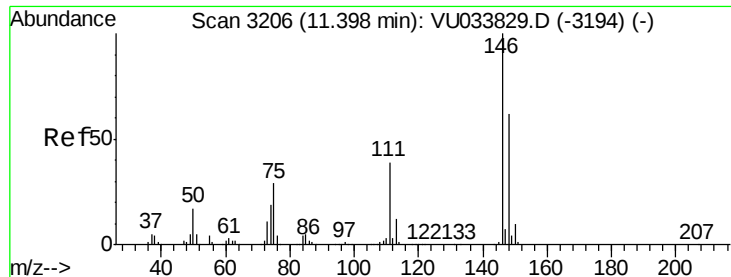
40000

20000

0

Time-->

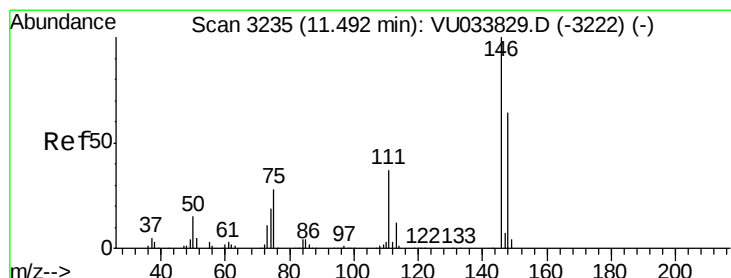
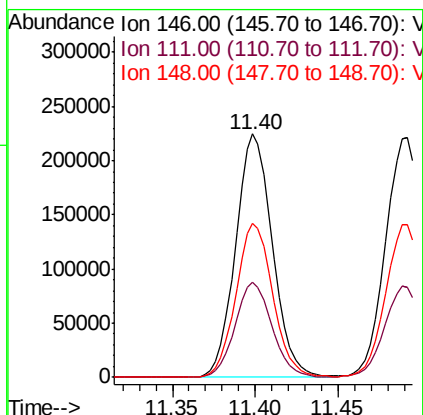
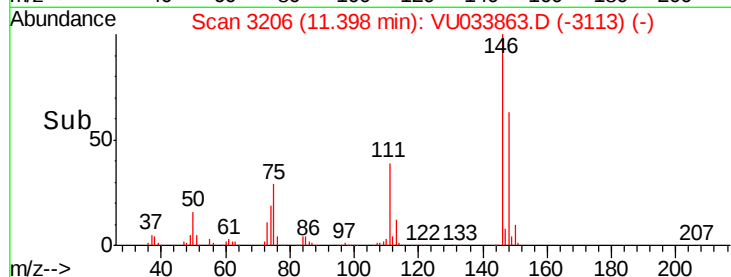
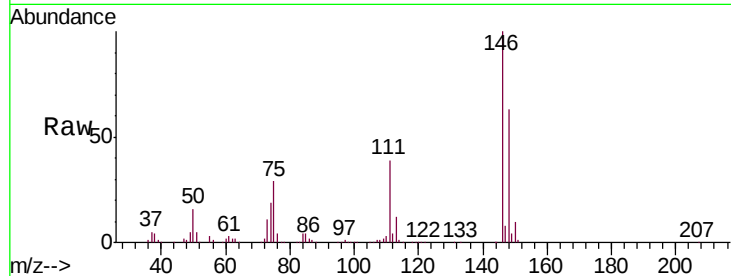




#62
 1,3-Dichlorobenzene
 Concen: 53.039 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

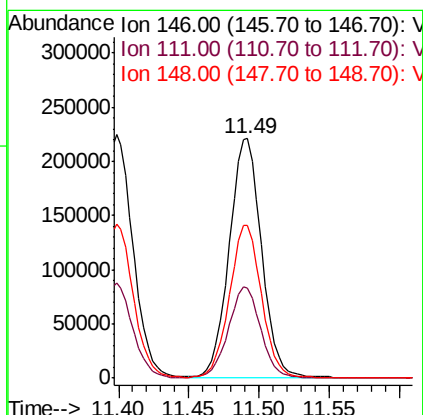
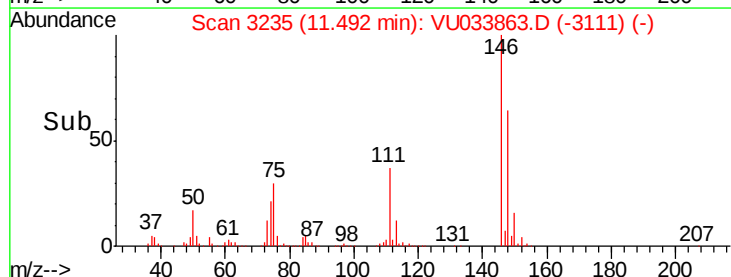
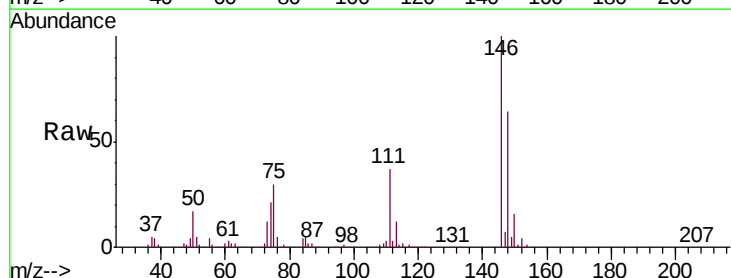
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

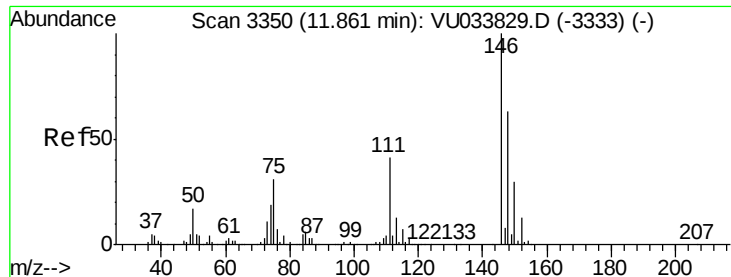
Tgt Ion:146 Resp: 347128
 Ion Ratio Lower Upper
 146 100
 111 38.9 28.1 52.1
 148 63.3 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 51.981 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion:146 Resp: 352190
 Ion Ratio Lower Upper
 146 100
 111 37.4 27.0 50.2
 148 63.6 44.5 82.7

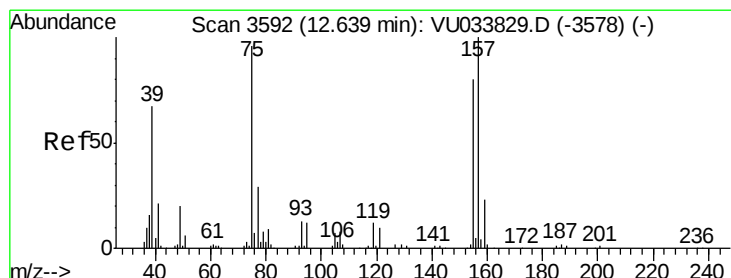
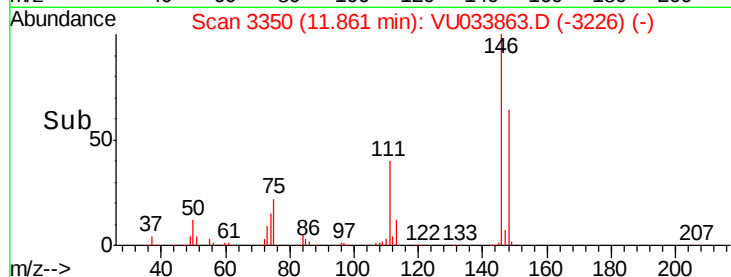
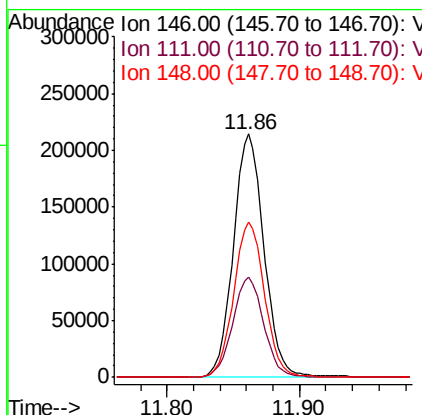
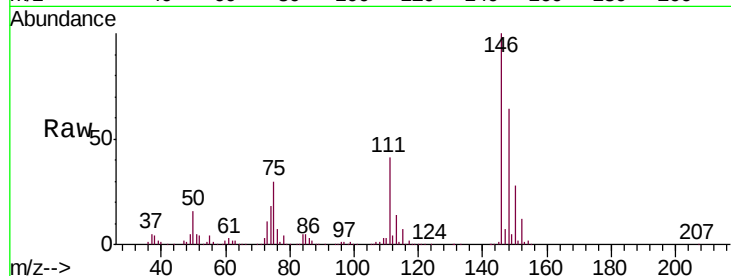




#65
 1,2-Dichlorobenzene
 Concen: 52.387 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

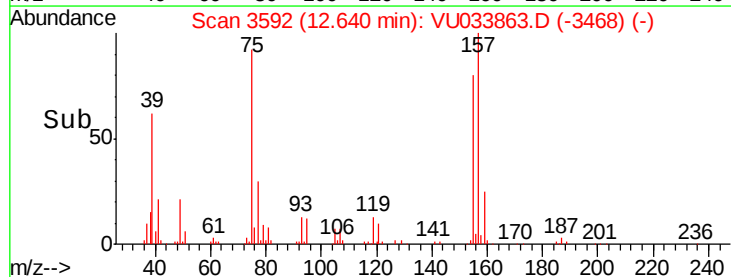
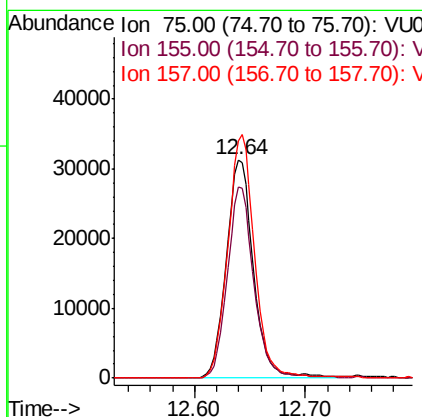
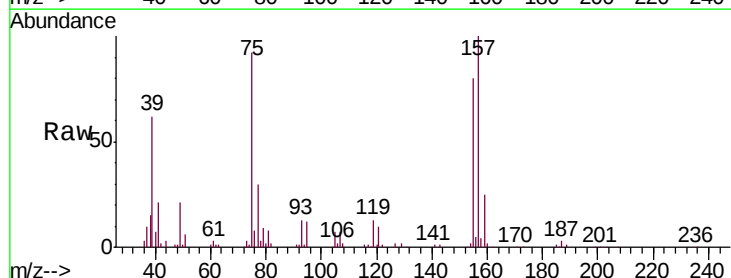
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

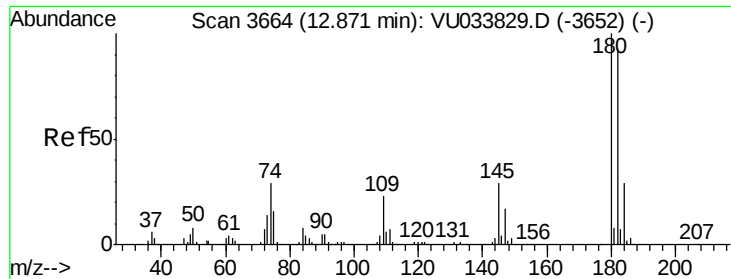
Tgt Ion: 146 Resp: 343695
 Ion Ratio Lower Upper
 146 100
 111 40.9 33.8 50.6
 148 63.8 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.146 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion: 75 Resp: 53610
 Ion Ratio Lower Upper
 75 100
 155 87.6 67.5 101.3
 157 109.0 87.7 131.5

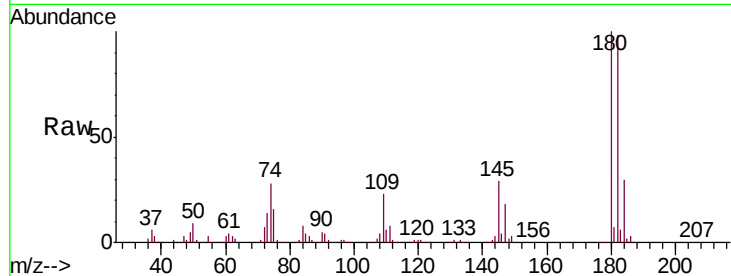




#67
 1,3,5-Trichlorobenzene
 Concen: 50.755 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.8	113.8
184	30.2	23.8	35.8
145	29.3	22.9	34.3



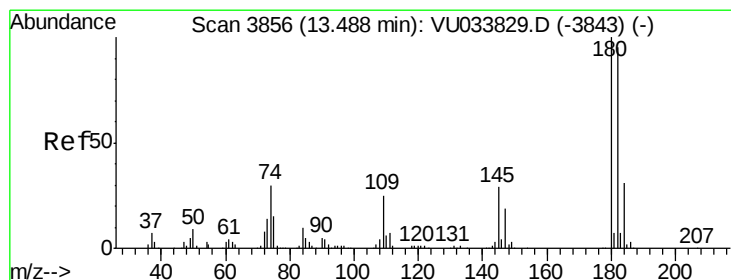
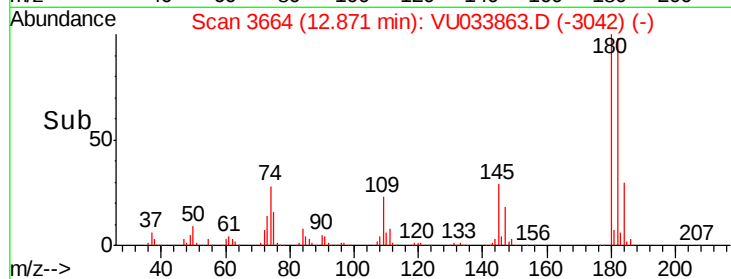
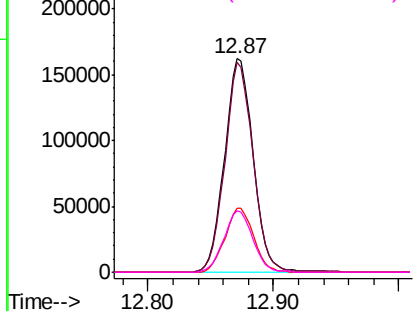
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

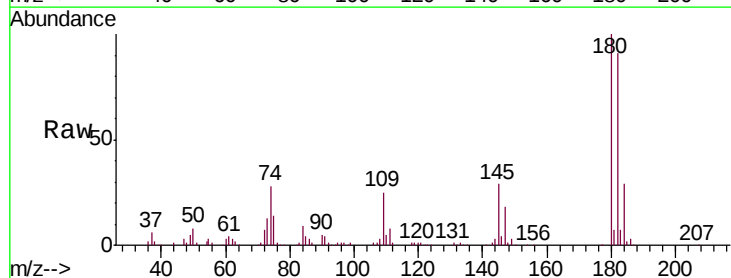
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.638 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033863.D
 Acq: 21 Aug 2019 11:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.2
145	29.0	23.8	35.8

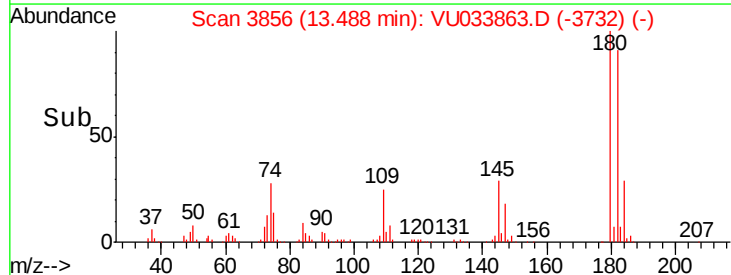
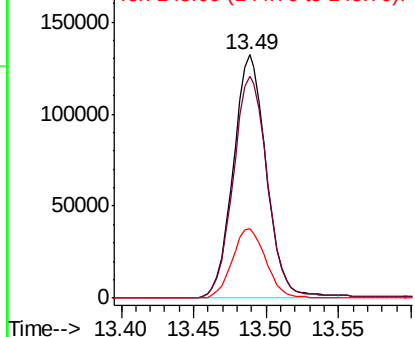


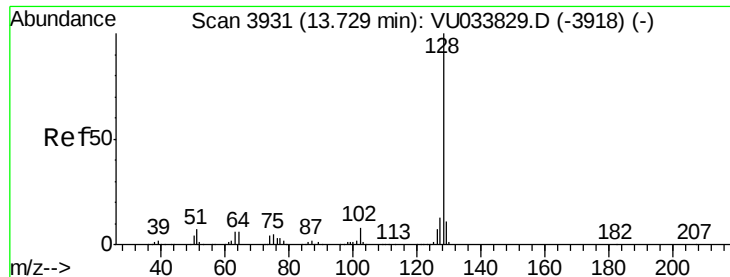
Abundance

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: 54.398 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

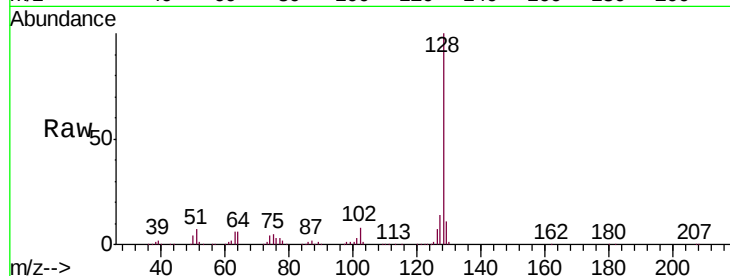
Tgt Ion:128 Resp: 620642

Ion Ratio Lower Upper

128 100

127 13.6 10.7 16.1

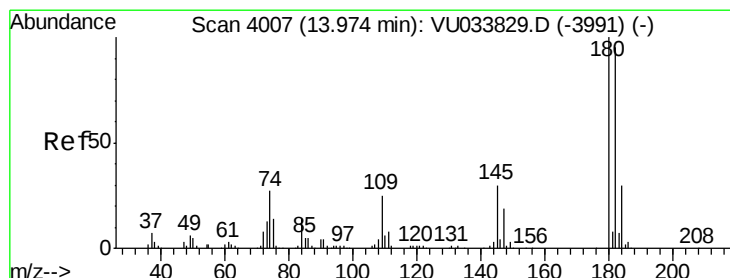
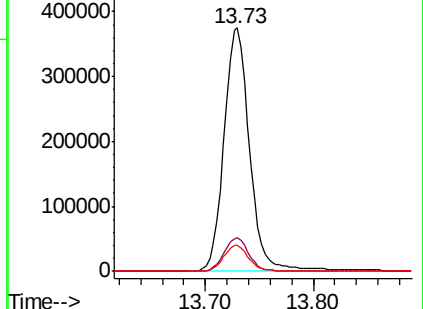
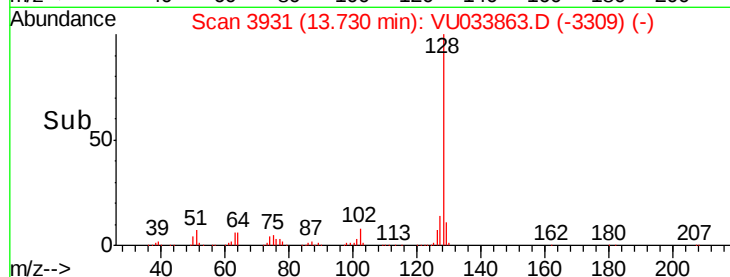
129 10.5 8.6 12.8



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: 52.374 ug/L

RT: 13.97 min Scan# 4006

Delta R.T. -0.00 min

Lab File: VU033863.D

Acq: 21 Aug 2019 11:11

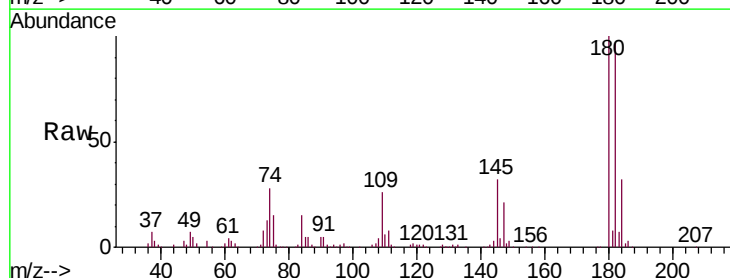
Tgt Ion:180 Resp: 224702

Ion Ratio Lower Upper

180 100

182 96.9 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

