

Data File : VU033244.D
Acq On : 15 Jul 2019 09:21
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Quant Time: Jul 16 01:44:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jul 13 00:05:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	309037	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	311711	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	159571	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	104406	44.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.26%
7) Chloroethane-d5	1.67	69	93317	46.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.38%
11) 1,1-Dichloroethene-d2	2.26	63	199212	46.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.90%
21) 2-Butanone-d5	4.15	46	148968	100.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.50%
24) Chloroform-d	4.62	84	192417	49.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.16%
26) 1,2-Dichloroethane-d4	5.29	65	122210	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
32) Benzene-d6	5.32	84	375134	49.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.12%
36) 1,2-Dichloropropane-d6	6.31	67	120332	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.55	98	353802	49.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.12%
43) trans-1,3-Dichloropropene-	7.83	79	60843	50.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.30%
47) 2-Hexanone-d5	8.29	63	113922	103.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.16%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	188506	50.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.70%
64) 1,2-Dichlorobenzene-d4	11.85	152	141165	49.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.22%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	153154	50.009	ug/L	100
3) Chloromethane	1.32	50	152736	50.623	ug/L	98
5) Vinyl chloride	1.40	62	166874	47.852	ug/L	99
6) Bromomethane	1.61	94	106949	49.194	ug/L	98
8) Chloroethane	1.68	64	101454	48.098	ug/L	99
9) Trichlorofluoromethane	1.87	101	227025	49.507	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	109198	51.795	ug/L	98
12) 1,1-Dichloroethene	2.27	96	101063	48.995	ug/L	99
13) Acetone	2.31	43	193642	104.557	ug/L	99
14) Carbon disulfide	2.46	76	308133	48.843	ug/L	100
15) Methyl Acetate	2.60	43	123099	50.899	ug/L	99
16) Methylene chloride	2.68	84	117063	49.706	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	106053	49.746	ug/L	98
18) Methyl tert-butyl Ether	2.98	73	327567	49.779	ug/L	100
19) 1,1-Dichloroethane	3.42	63	206382	50.363	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	120717	50.201	ug/L	96
22) 2-Butanone	4.23	43	208813	101.494	ug/L	99

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	61638	50.058	ug/L	96
25) Chloroform	4.65	83	218143	50.052	ug/L	100
27) 1,2-Dichloroethane	5.38	62	170628	50.558	ug/L	99
29) Cyclohexane	4.97	56	174245	51.300	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	181821	49.998	ug/L	100
31) Carbon tetrachloride	5.11	117	161453	50.732	ug/L	99
33) Benzene	5.37	78	461745	50.795	ug/L	100
34) Trichloroethene	6.16	95	117123	49.266	ug/L	99
35) Methylcyclohexane	6.40	83	193589	53.158	ug/L	99
37) 1,2-Dichloropropane	6.41	63	122904	49.854	ug/L	99
38) Bromodichloromethane	6.74	83	161273	50.714	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	190494	50.397	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	333558	100.860	ug/L	99
42) Toluene	7.62	91	506055	51.636	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	176465	51.767	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	117659	50.463	ug/L	98
46) Tetrachloroethene	8.21	164	94244	51.209	ug/L	99
48) 2-Hexanone	8.34	43	285286	105.887	ug/L	100
49) Dibromochloromethane	8.46	129	132820	51.068	ug/L	100
50) 1,2-Dibromoethane	8.57	107	128568	50.574	ug/L	99
51) Chlorobenzene	9.10	112	320796	50.149	ug/L	98
52) Ethylbenzene	9.23	91	545932	52.058	ug/L	98
53) m,p-Xylene	9.36	106	209729	52.799	ug/L	99
54) o-xylene	9.76	106	201759	51.154	ug/L	100
55) Styrene	9.77	104	356577	53.324	ug/L	96
56) Isopropylbenzene	10.15	105	529481	52.169	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	205956	50.289	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	164519	51.262	ug/L	99
61) Bromoform	9.94	173	97603	50.083	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	242098	49.287	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	252142	49.094	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	250839	49.793	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	46778	48.652	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	183924	51.811	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	157617	50.833	ug/L	100
69) Naphthalene	13.73	128	516447	51.946	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	168642	50.097	ug/L	99

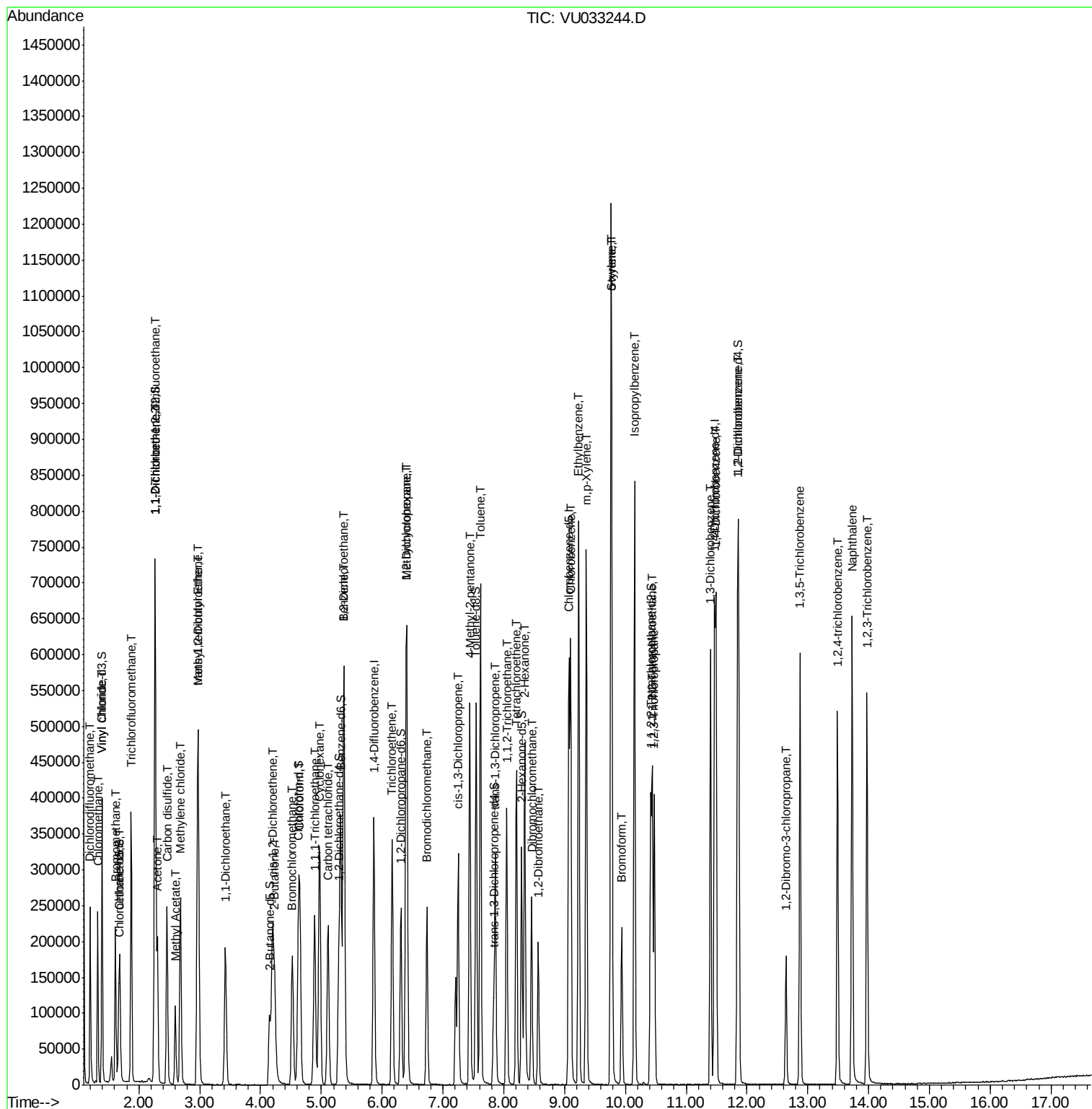
(#) = qualifier out of range (m) = manual integration (+) = signals summed

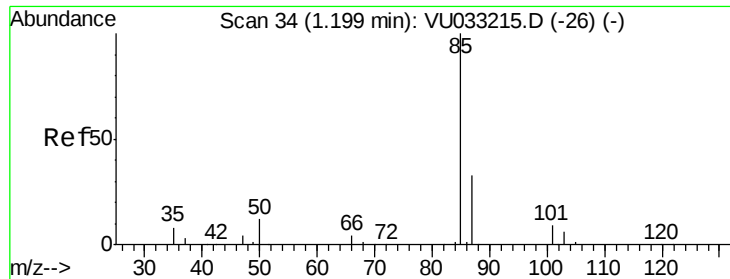
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```
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#2

Dichlorodifluoromethane

Concen: 50.009 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

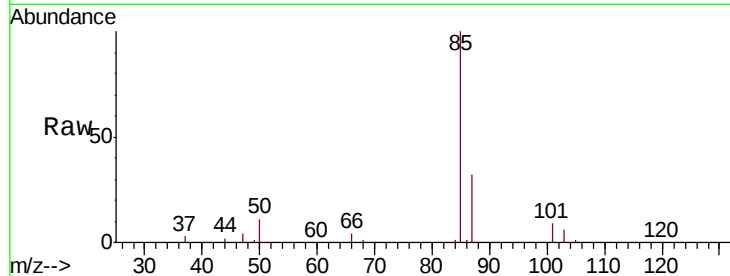
VSTD05049

Tgt Ion: 85 Resp: 153154

Ion Ratio Lower Upper

85 100

87 32.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033215.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033215.D (-26) (-)

1.20

150000

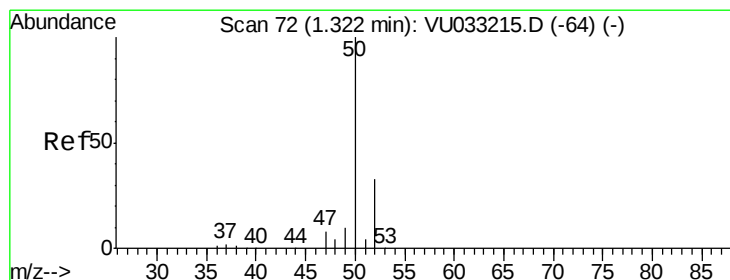
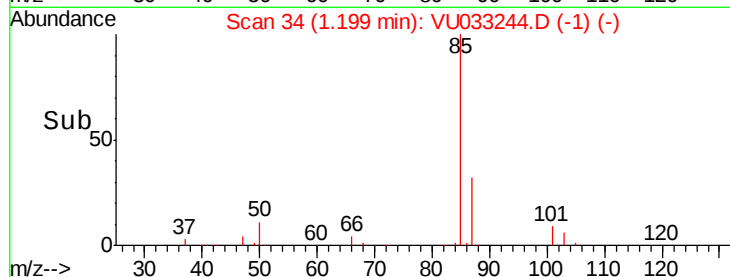
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 50.623 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033244.D

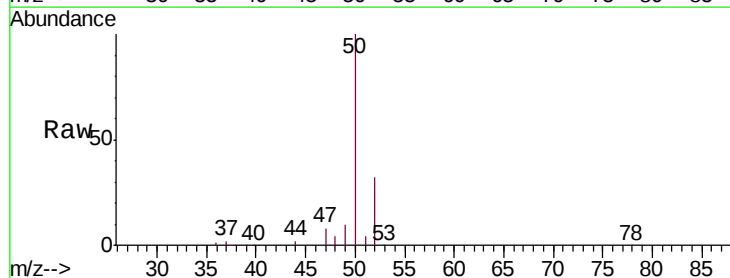
Acq: 15 Jul 2019 09:21

Tgt Ion: 50 Resp: 152736

Ion Ratio Lower Upper

50 100

52 31.9 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033215.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033215.D (-64) (-)

1.32

150000

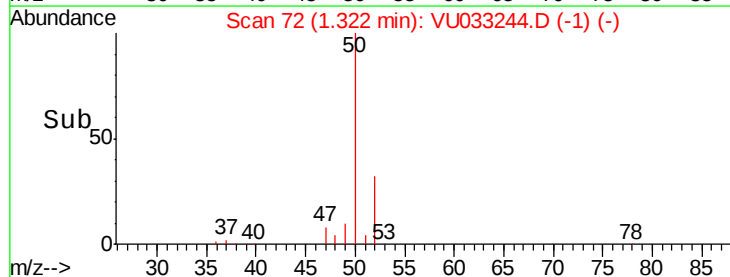
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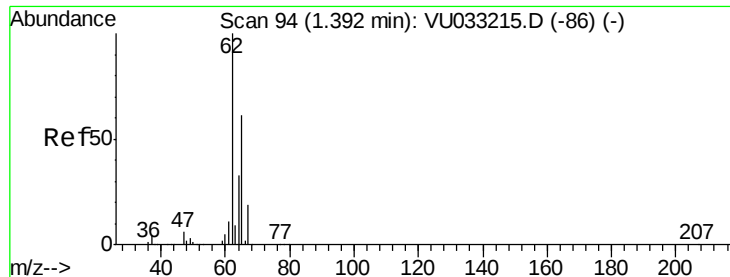
50000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 47.852 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

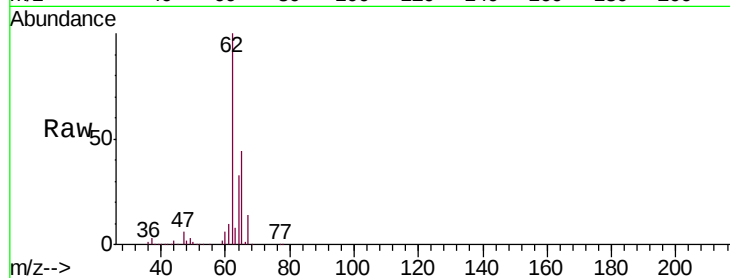
VSTD05049

Tgt Ion: 62 Resp: 166874

Ion Ratio Lower Upper

62 100

64 32.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU033215.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033215.D (-86) (-)

1.40

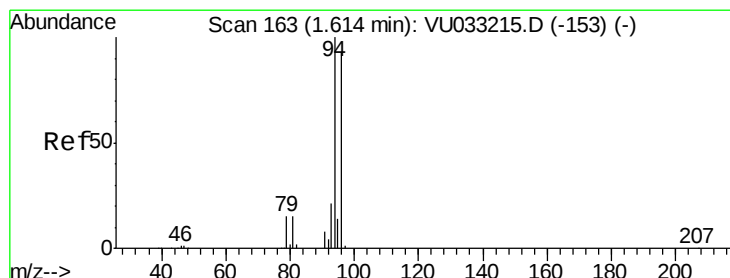
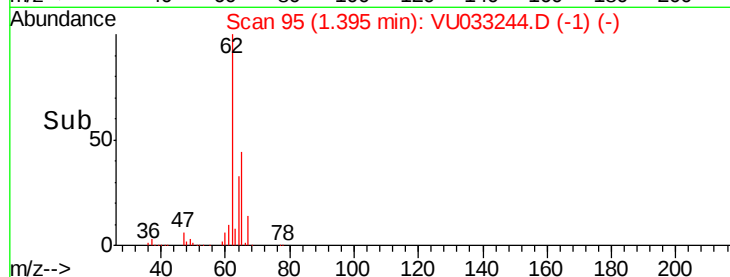
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 49.194 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU033244.D

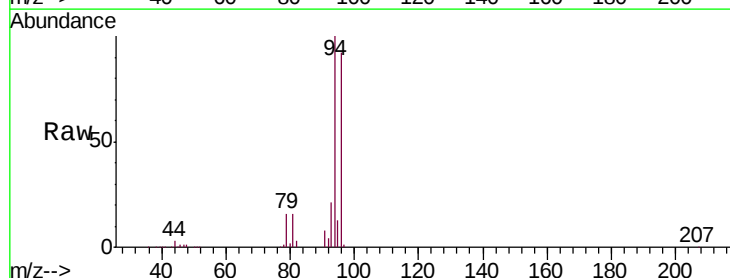
Acq: 15 Jul 2019 09:21

Tgt Ion: 94 Resp: 106949

Ion Ratio Lower Upper

94 100

96 92.5 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU033215.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU033215.D (-153) (-)

1.61

80000

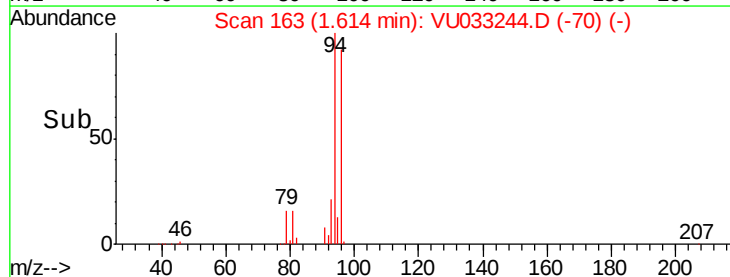
60000

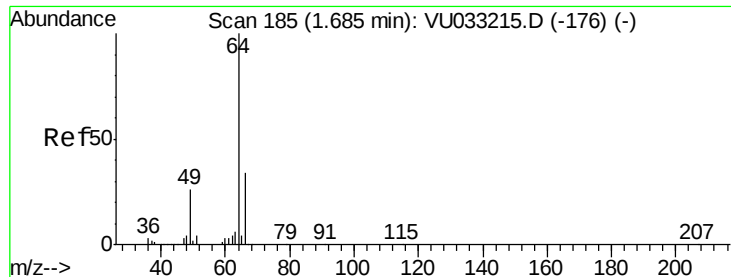
40000

20000

0

Time-->





#8

Chloroethane

Concen: 48.098 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

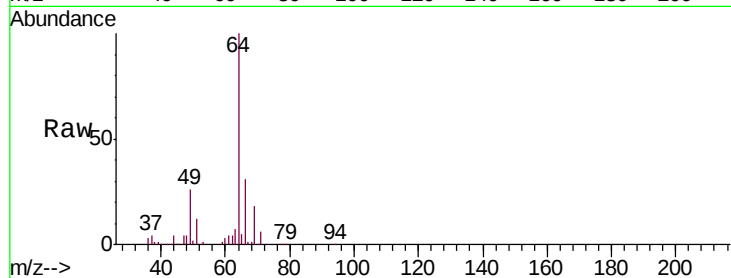
VSTD05049

Tgt Ion: 64 Resp: 101454

Ion Ratio Lower Upper

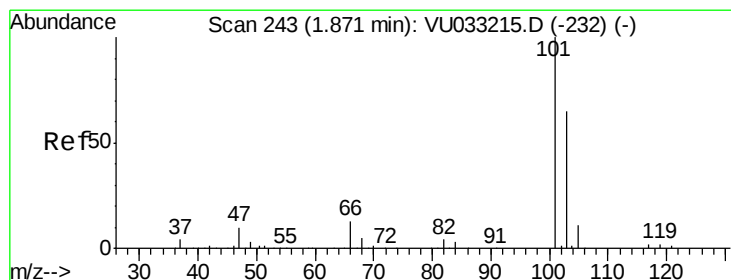
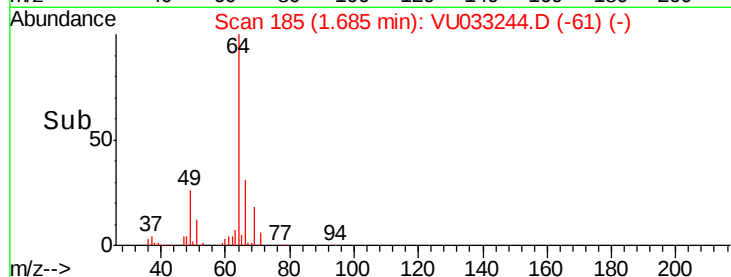
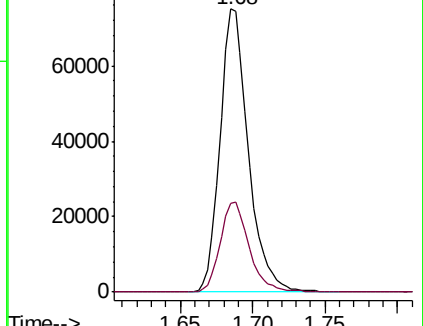
64 100

66 31.4 21.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VU033215.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033215.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 49.507 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033244.D

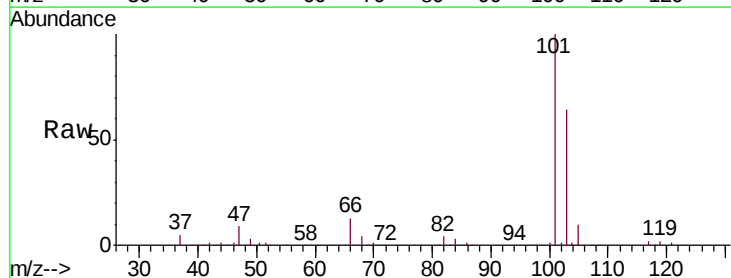
Acq: 15 Jul 2019 09:21

Tgt Ion: 101 Resp: 227025

Ion Ratio Lower Upper

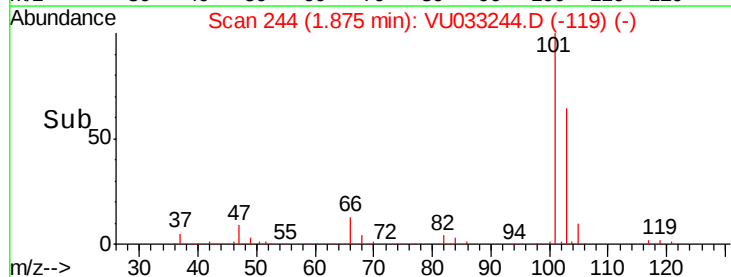
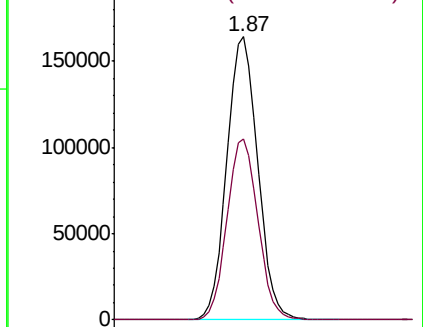
101 100

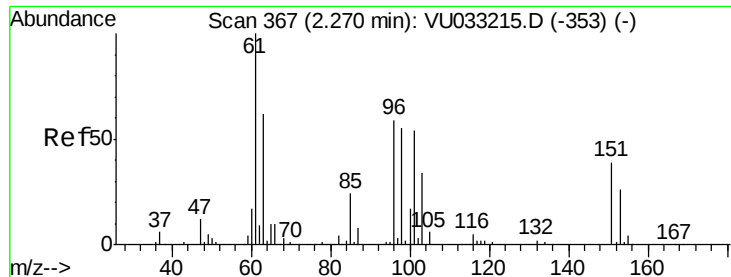
103 63.8 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033215.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU033215.D (-232) (-)





#10

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

Concen: 51.795 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

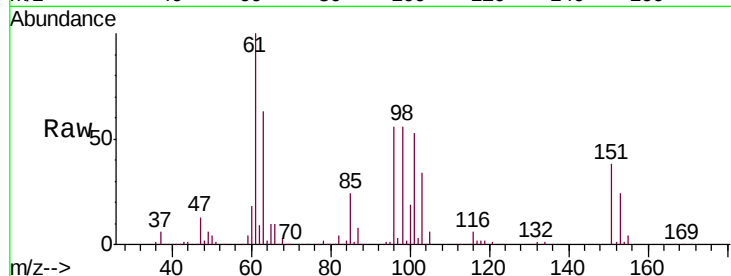
Tgt Ion: 101 Resp: 109198

Ion Ratio Lower Upper

101 100

85 44.7 35.8 53.8

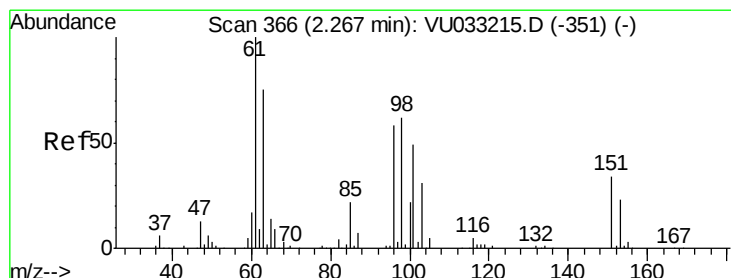
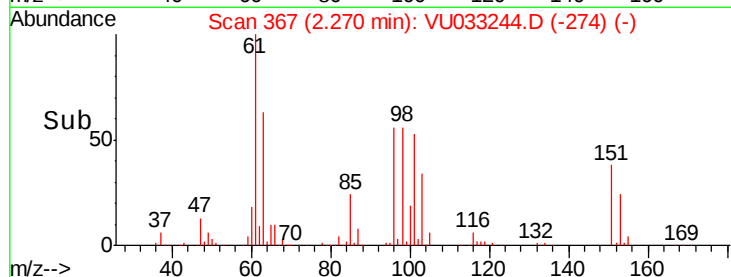
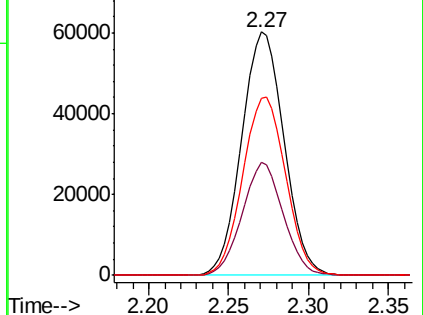
151 74.1 56.7 85.1



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: 48.995 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

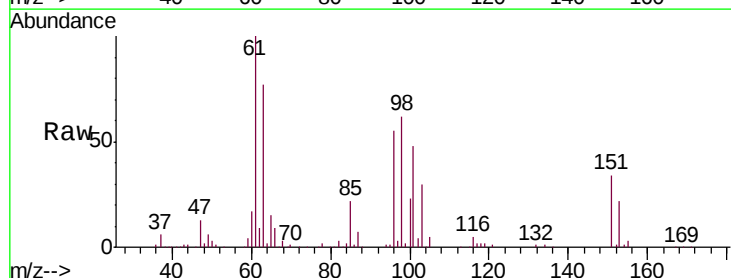
Tgt Ion: 96 Resp: 101063

Ion Ratio Lower Upper

96 100

61 180.8 126.1 234.1

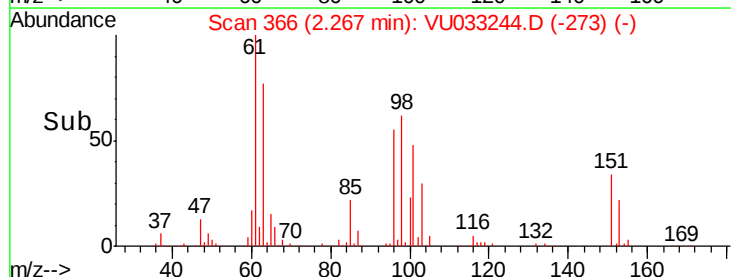
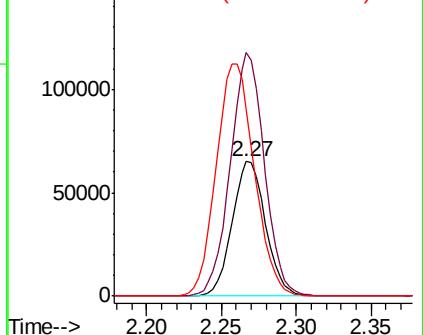
63 138.9 96.8 179.8

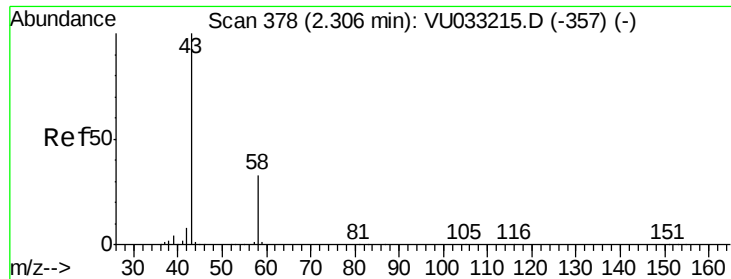


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 104.557 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

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MSVOA_U

ClientSampleId :

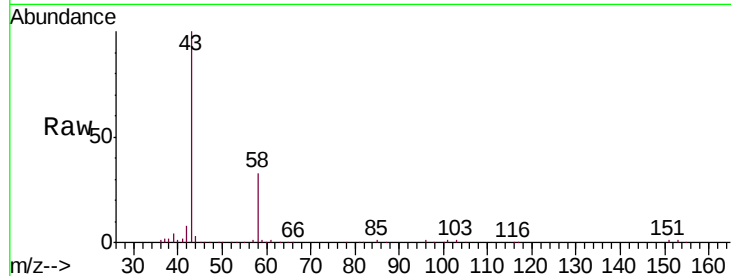
VSTD05049

Tgt Ion: 43 Resp: 193642

Ion Ratio Lower Upper

43 100

58 33.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033215.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033215.D (-357) (-)

2.31

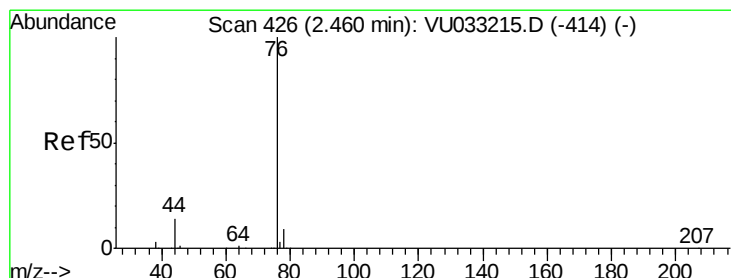
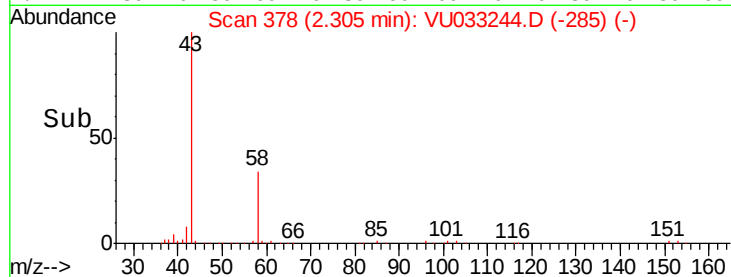
100000

50000

0

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 48.843 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033244.D

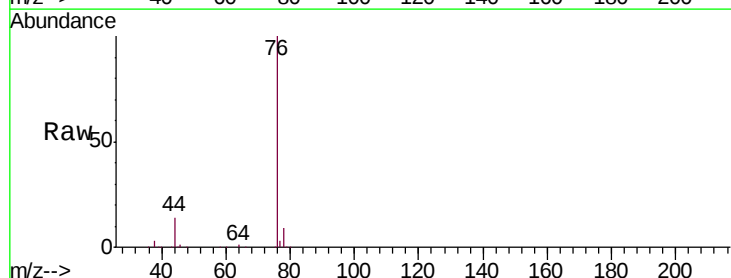
Acq: 15 Jul 2019 09:21

Tgt Ion: 76 Resp: 308133

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033215.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033215.D (-414) (-)

2.46

200000

150000

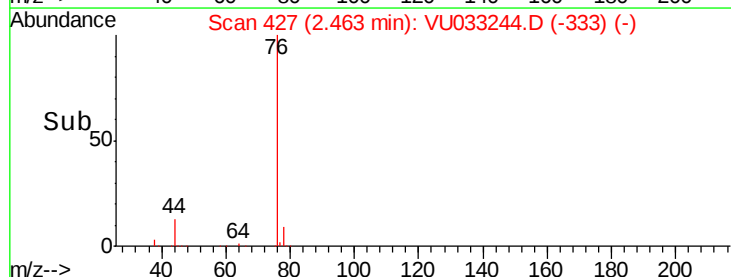
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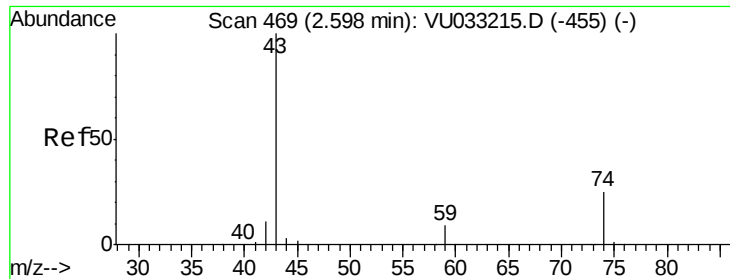
50000

0

2.40 2.45 2.50 2.55

Time-->

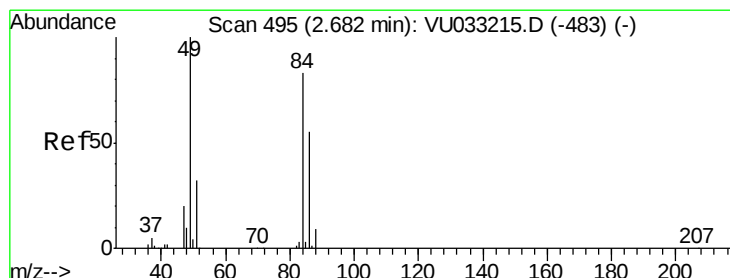
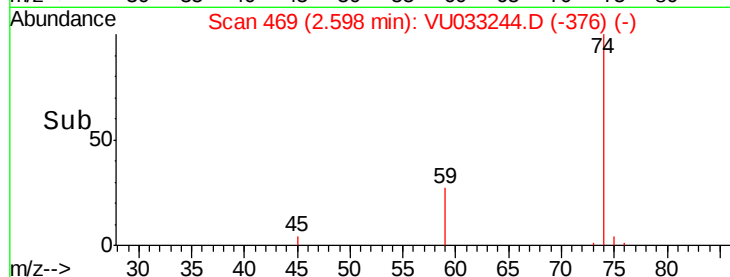
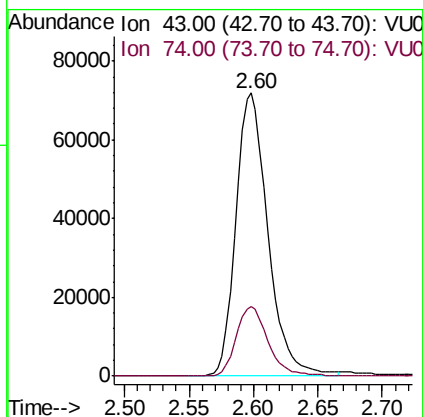
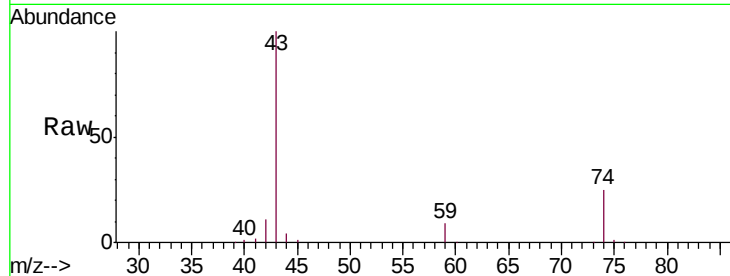




#15
Methyl Acetate
Concen: 50.899 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

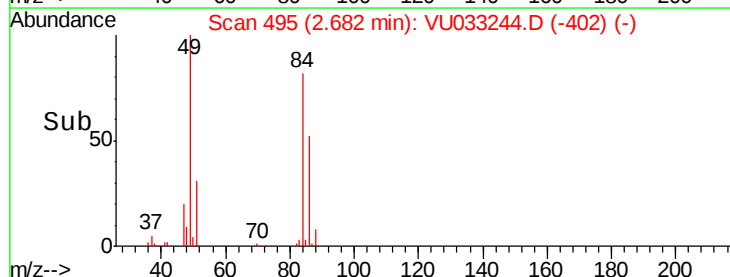
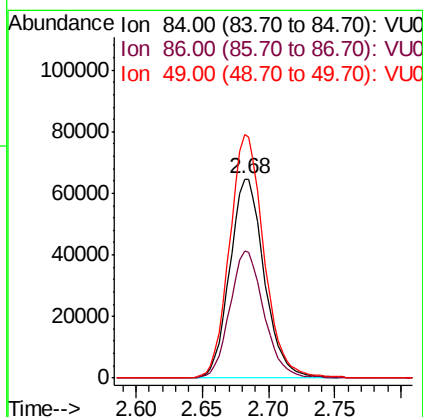
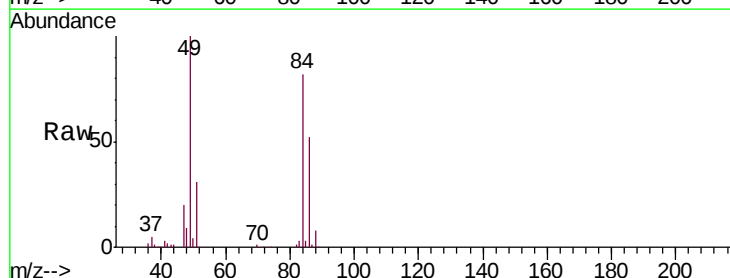
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

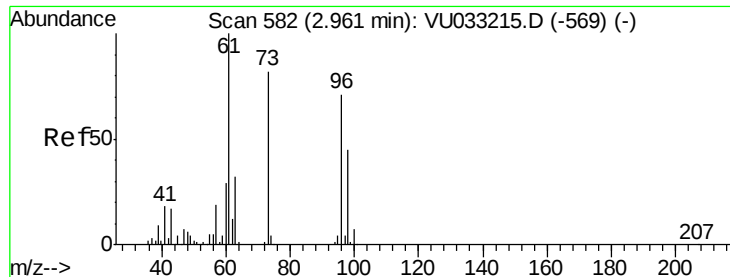
Tgt Ion: 43 Resp: 123099
Ion Ratio Lower Upper
43 100
74 24.6 19.9 29.9



#16
Methylene chloride
Concen: 49.706 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion: 84 Resp: 117063
Ion Ratio Lower Upper
84 100
86 63.7 45.7 84.9
49 122.1 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 49.746 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

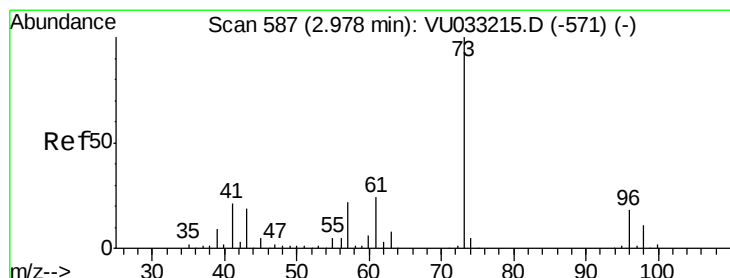
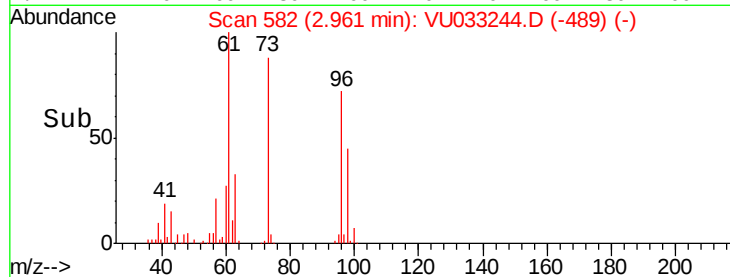
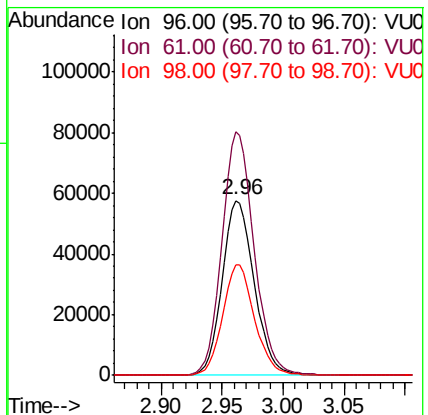
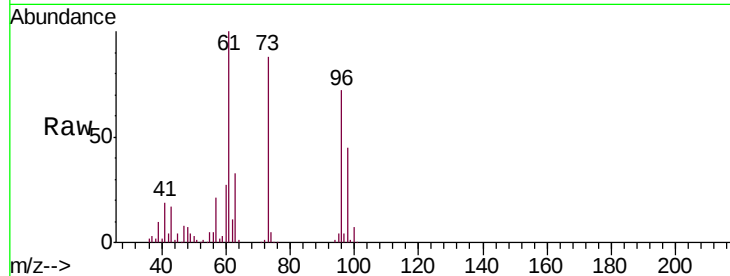
Tgt Ion: 96 Resp: 106053

Ion Ratio Lower Upper

96 100

61 139.3 100.2 186.2

98 63.1 44.2 82.0



#18

Methyl tert-butyl Ether

Concen: 49.779 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

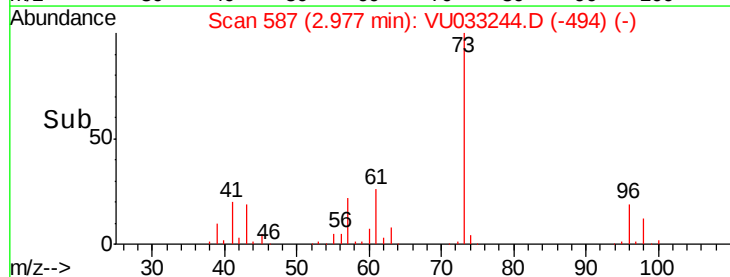
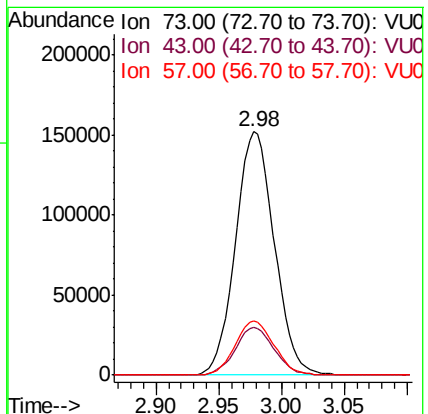
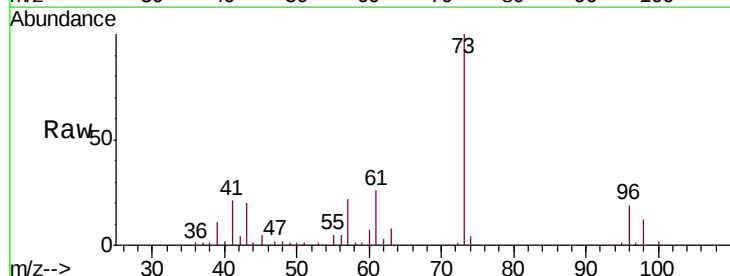
Tgt Ion: 73 Resp: 327567

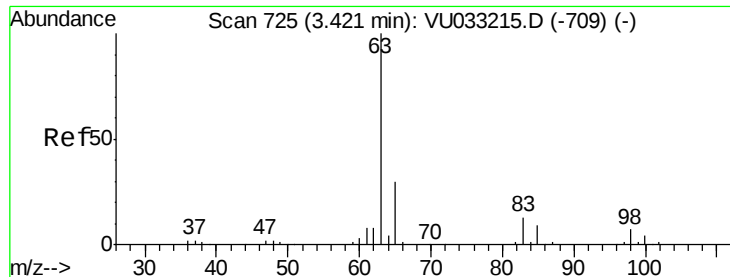
Ion Ratio Lower Upper

73 100

43 19.5 15.7 23.5

57 22.2 17.8 26.6

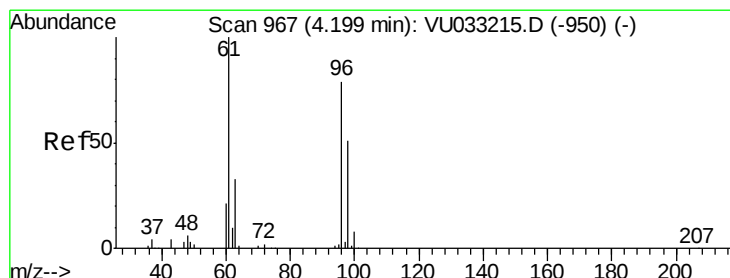
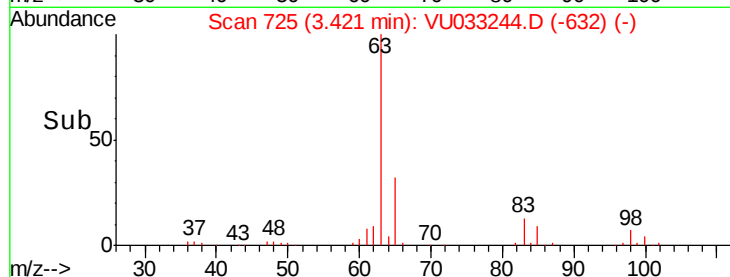
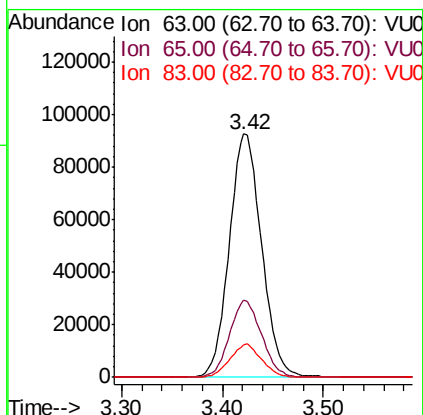
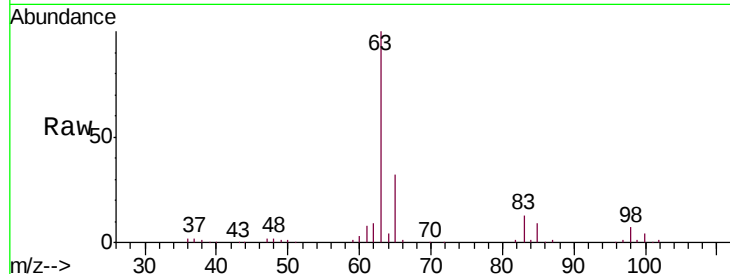




#19
 1,1-Dichloroethane
 Concen: 50.363 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

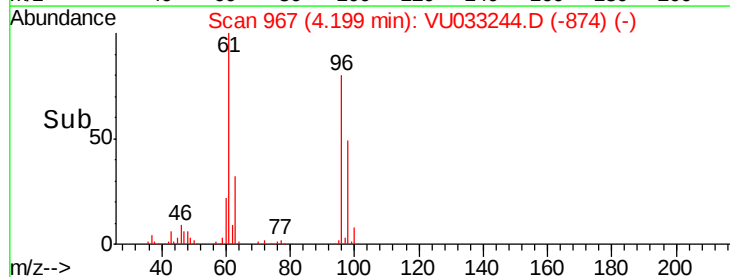
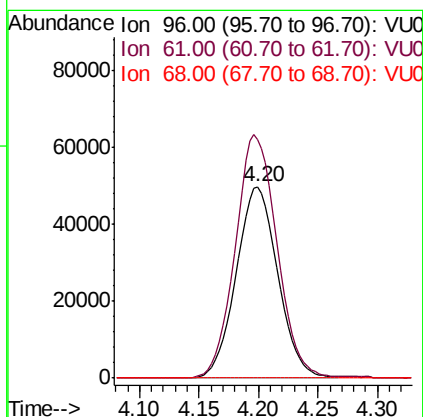
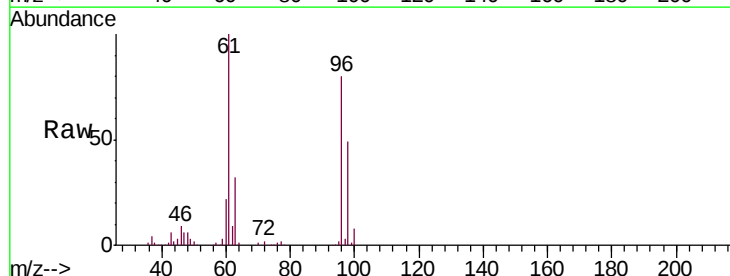
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

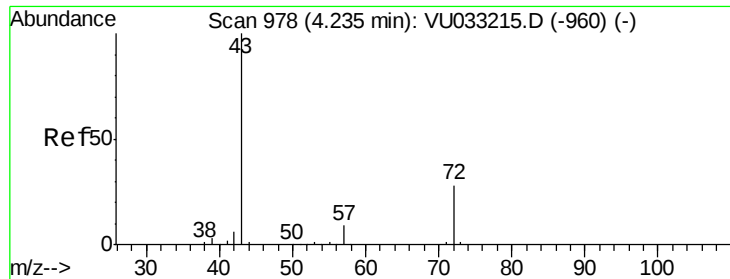
Tgt Ion: 63 Resp: 206382
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.3 41.5
 83 13.3 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 50.201 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion: 96 Resp: 120717
 Ion Ratio Lower Upper
 96 100
 61 125.1 91.1 169.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 101.494 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

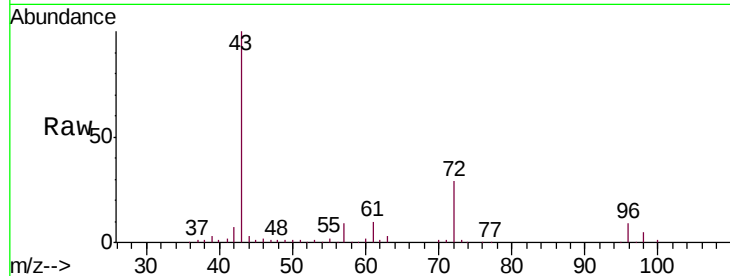
VSTD05049

Tgt Ion: 43 Resp: 208813

Ion Ratio Lower Upper

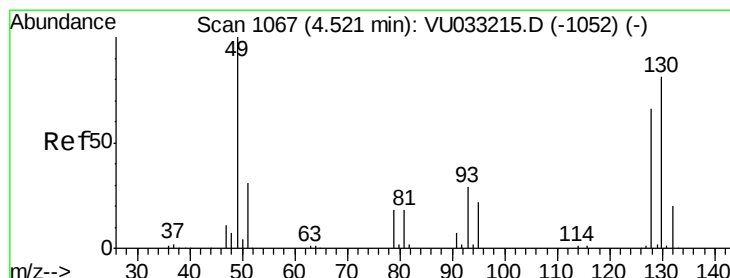
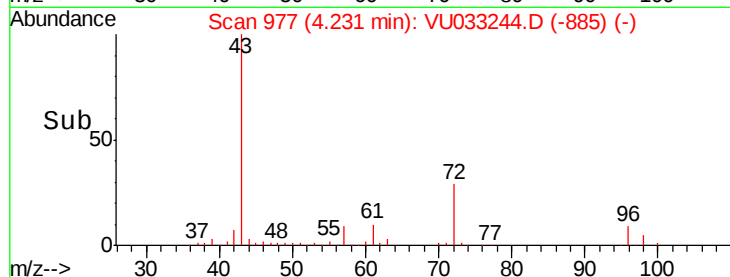
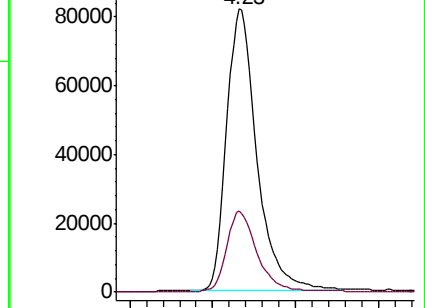
43 100

72 28.2 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033215.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033215.D (-960) (-)



#23

Bromochloromethane

Concen: 50.058 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Tgt Ion: 128 Resp: 61638

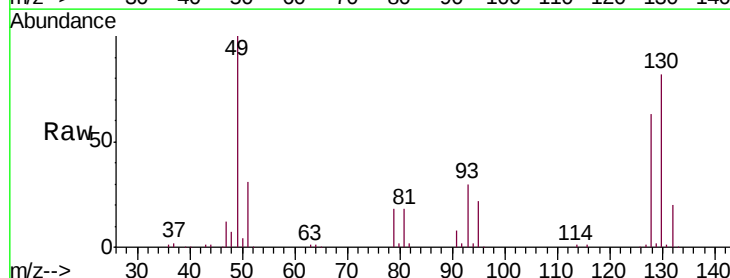
Ion Ratio Lower Upper

128 100

49 158.2 107.2 199.2

130 129.1 87.0 161.6

51 48.6 39.6 59.4

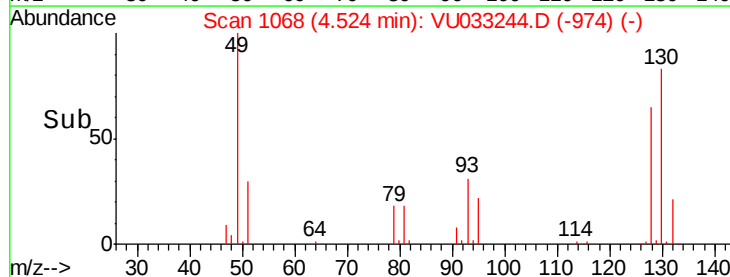
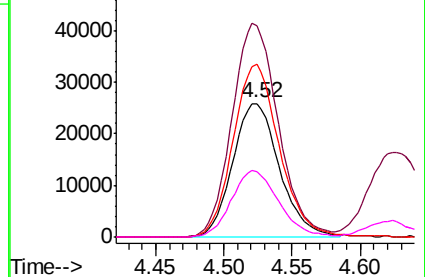


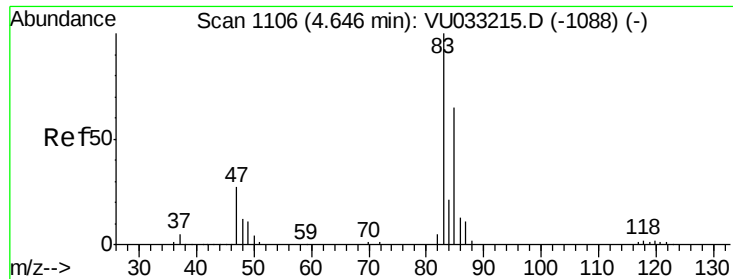
Abundance Ion 128.00 (127.70 to 128.70): VU033215.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033215.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033215.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033215.D (-1052) (-)

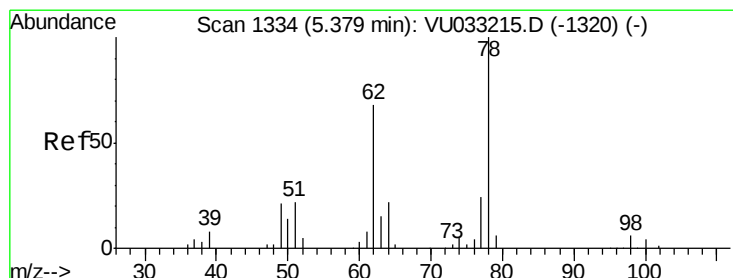
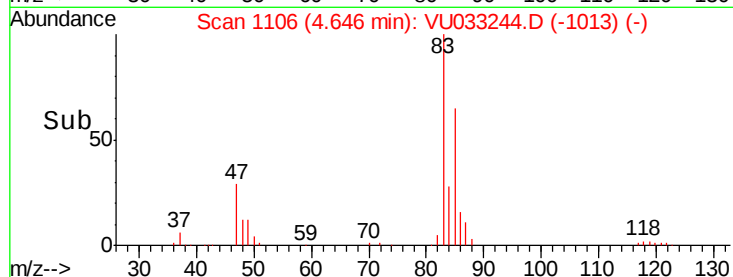
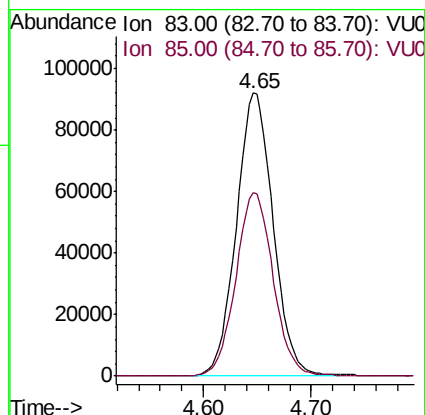
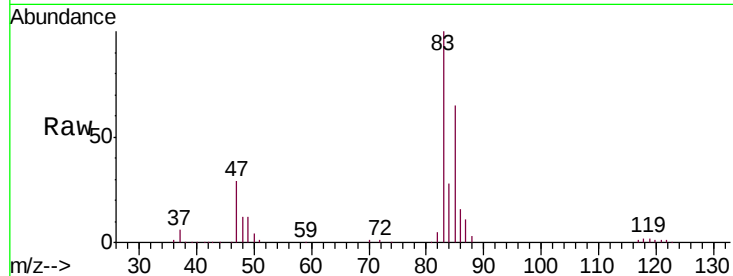




#25
Chloroform
Concen: 50.052 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

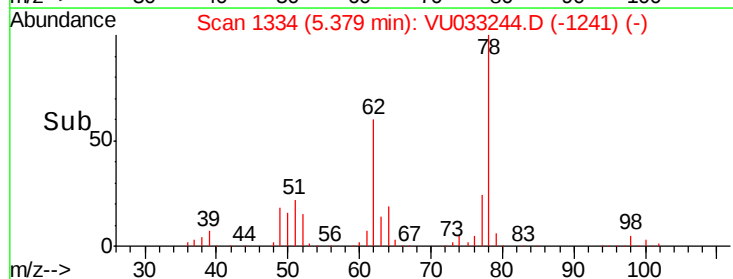
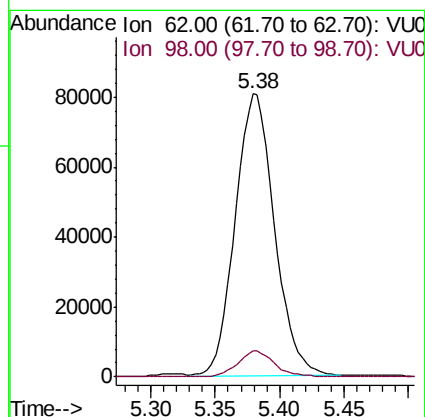
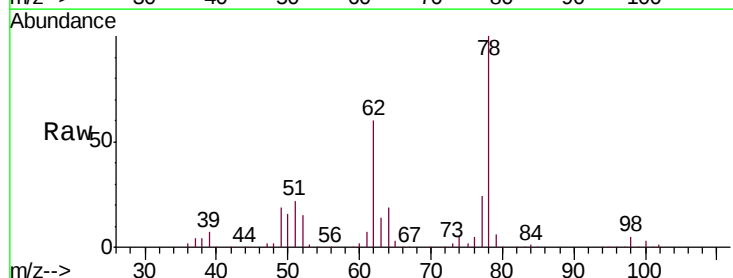
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

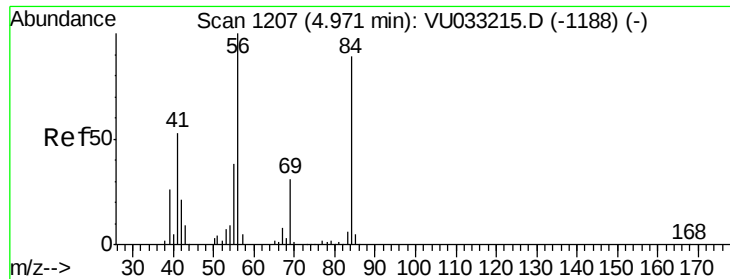
Tgt Ion: 83 Resp: 218143
Ion Ratio Lower Upper
83 100
85 64.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 50.558 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion: 62 Resp: 170628
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.6

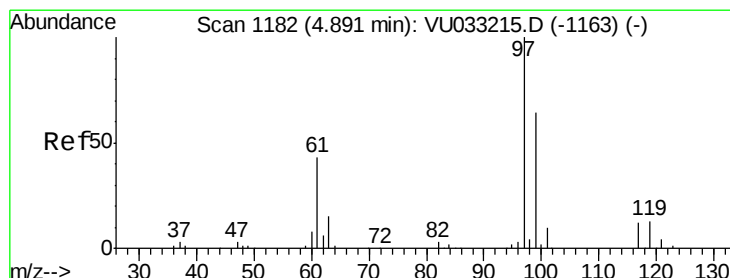
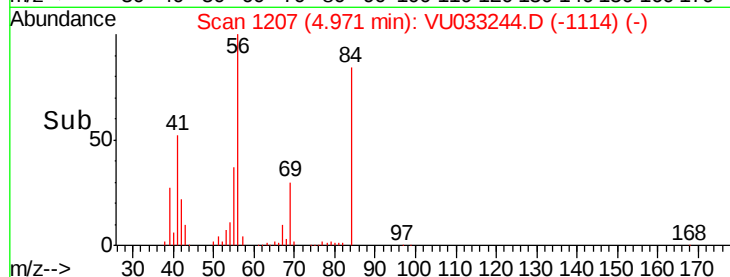
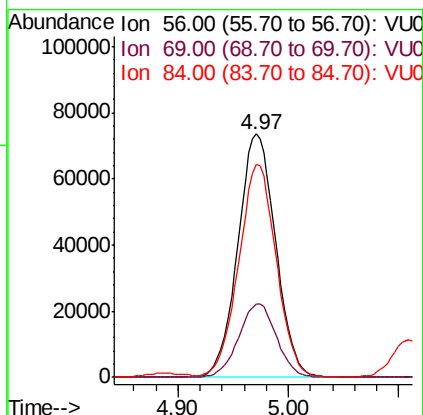
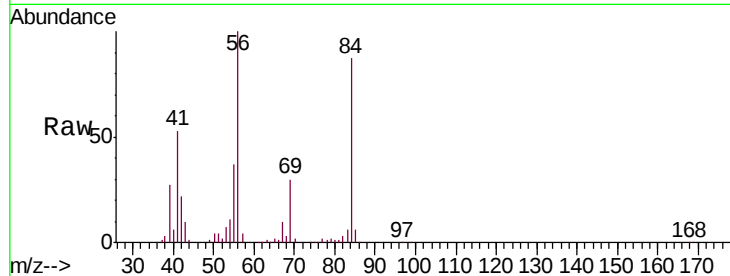




#29
Cyclohexane
Concen: 51.300 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

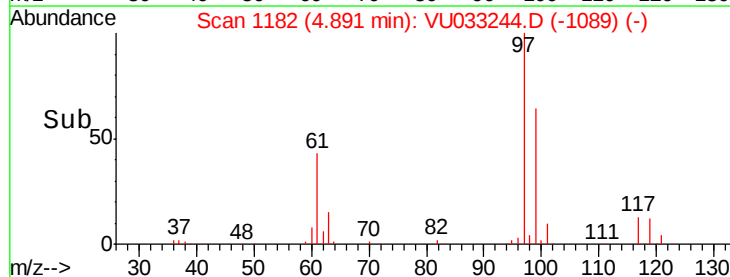
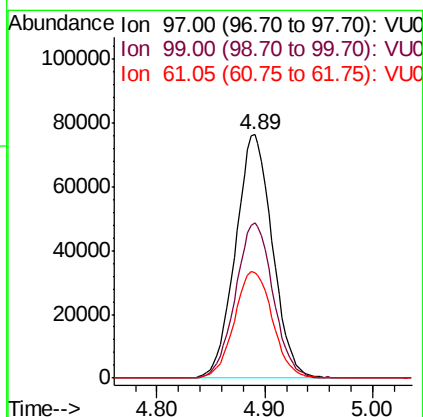
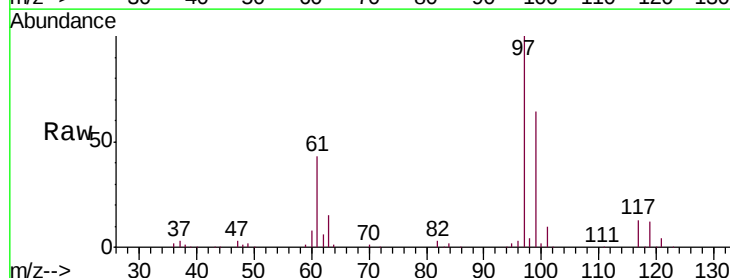
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

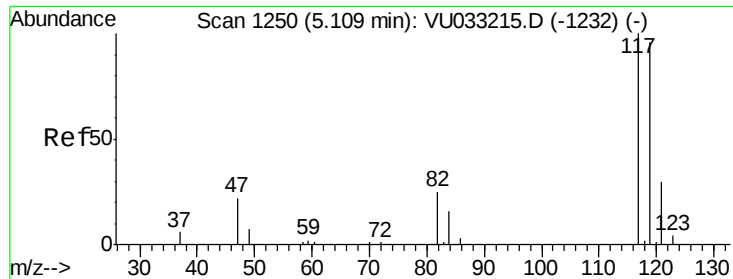
Tgt Ion: 56 Resp: 174245
Ion Ratio Lower Upper
56 100
69 30.3 24.7 37.1
84 87.2 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 49.998 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion: 97 Resp: 181821
Ion Ratio Lower Upper
97 100
99 64.8 51.5 77.3
61 45.2 36.4 54.6

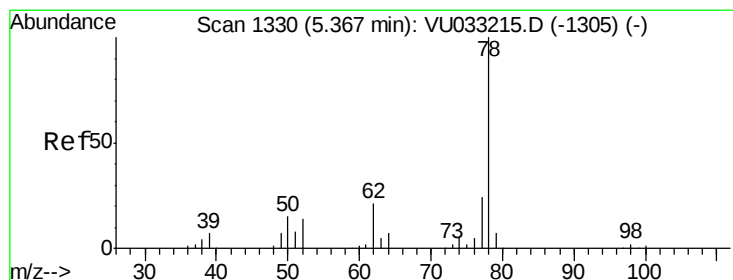
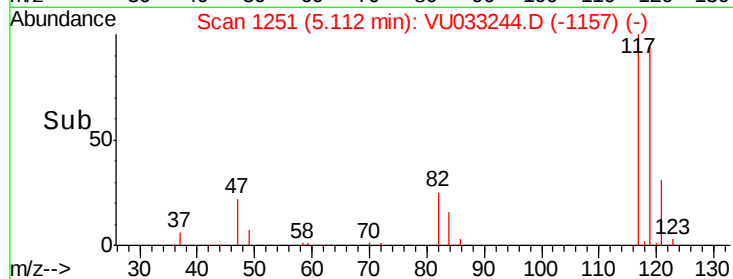
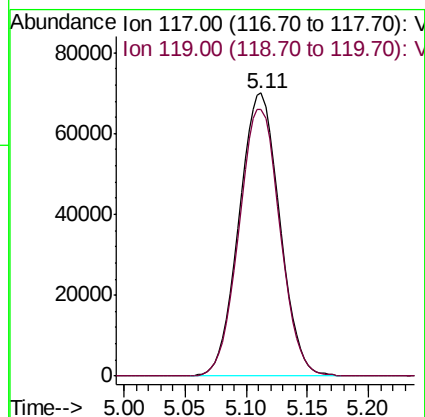
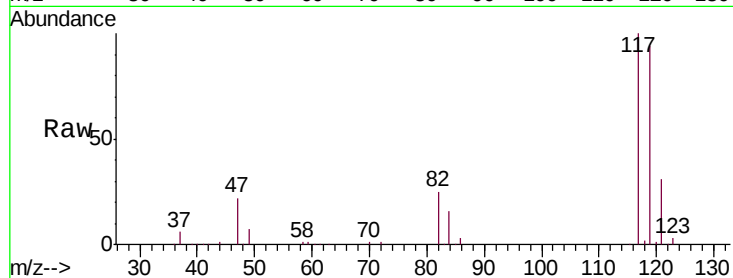




#31
Carbon tetrachloride
Concen: 50.732 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

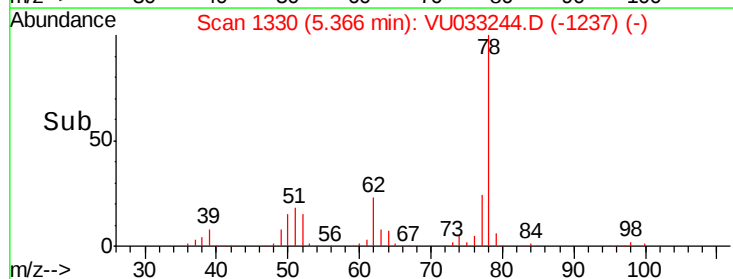
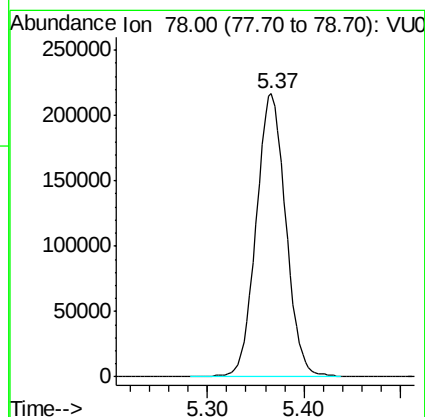
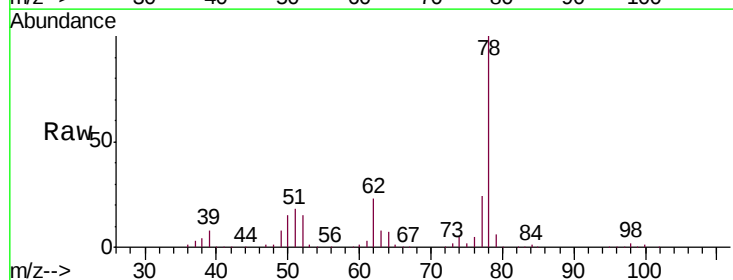
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

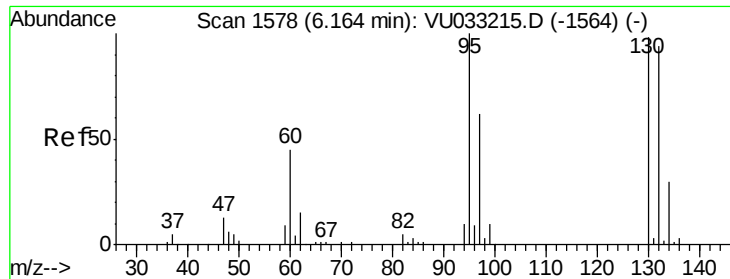
Tgt Ion:117 Resp: 161453
Ion Ratio Lower Upper
117 100
119 95.3 76.9 115.3



#33
Benzene
Concen: 50.795 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion: 78 Resp: 461745





#34

Trichloroethene

Concen: 49.266 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 117123

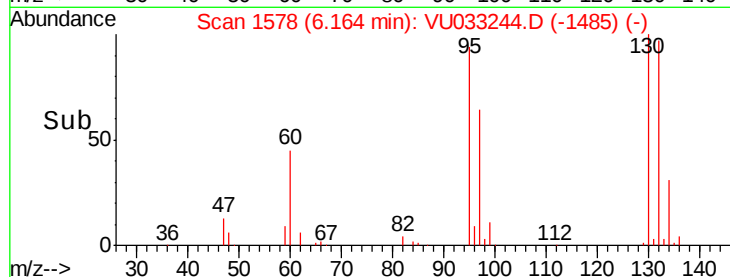
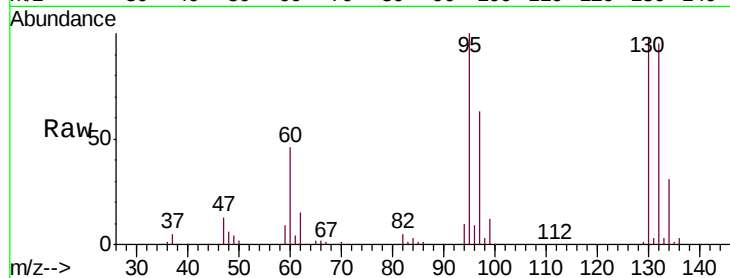
Ion Ratio Lower Upper

95 100

97 63.1 43.8 81.4

132 95.4 65.5 121.6

130 98.4 69.7 129.5

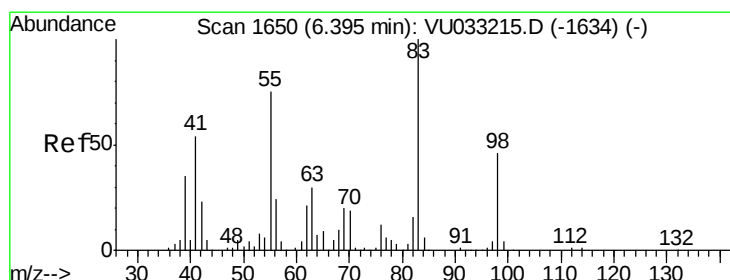
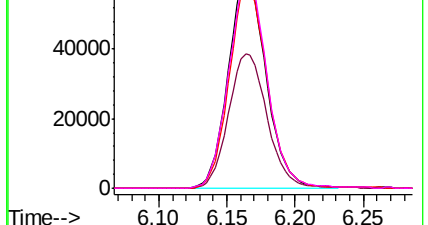


Abundance Ion 95.00 (94.70 to 95.70): VU033244.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU033244.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU033244.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU033244.D (-1485) (-)



#35

Methylcyclohexane

Concen: 53.158 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

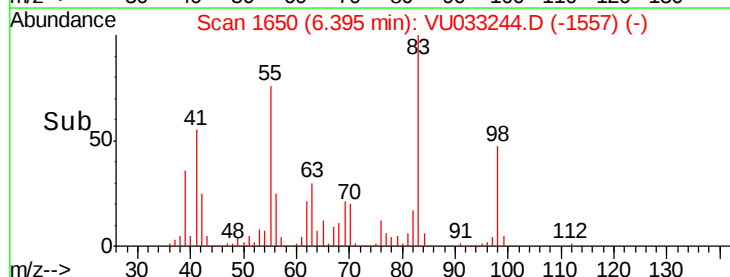
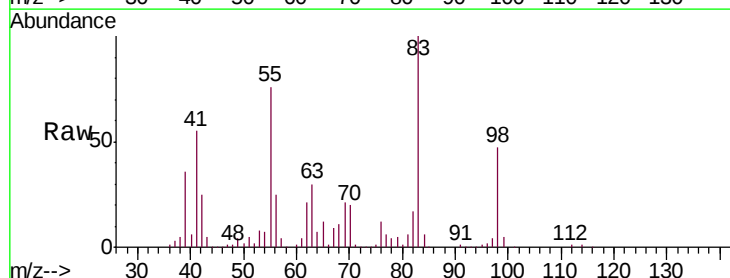
Tgt Ion: 83 Resp: 193589

Ion Ratio Lower Upper

83 100

55 75.1 60.5 90.7

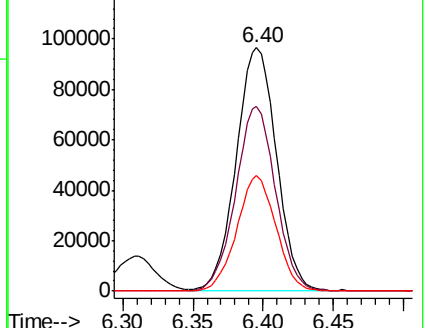
98 46.0 37.4 56.0

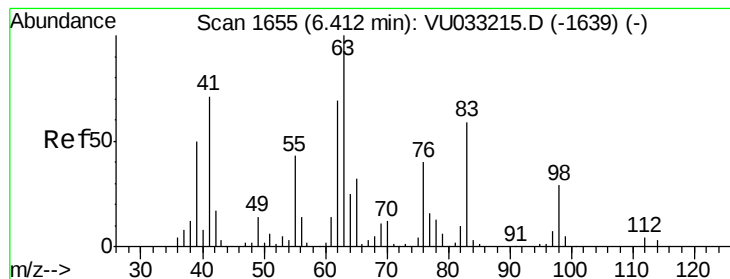


Abundance Ion 83.00 (82.70 to 83.70): VU033244.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033244.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033244.D (-1557) (-)





#37

1,2-Dichloropropane

Concen: 49.854 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

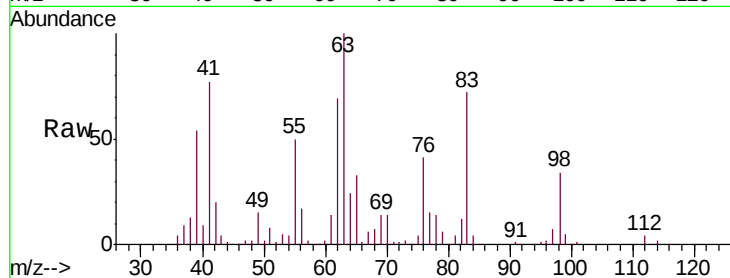
VSTD05049

Tgt Ion: 63 Resp: 122904

Ion Ratio Lower Upper

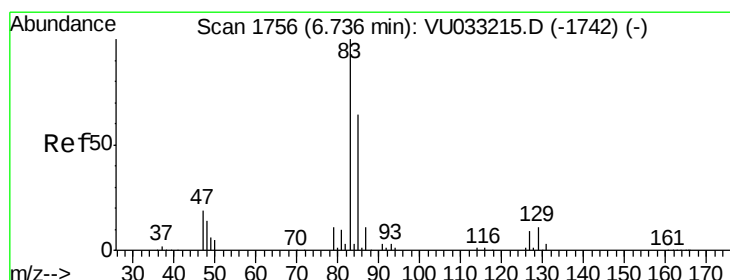
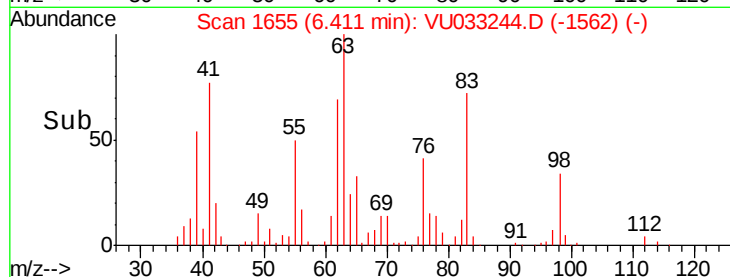
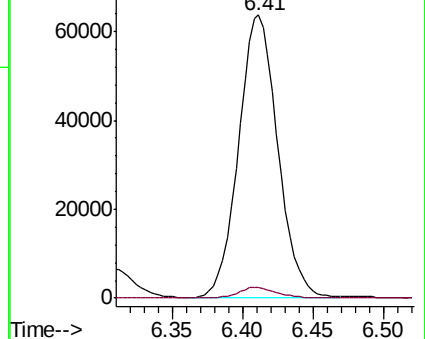
63 100

112 3.8 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU033215.D (-1639) (-)

Ion 112.00 (111.70 to 112.70): VU033215.D (-1639) (-)



#38

Bromodichloromethane

Concen: 50.714 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

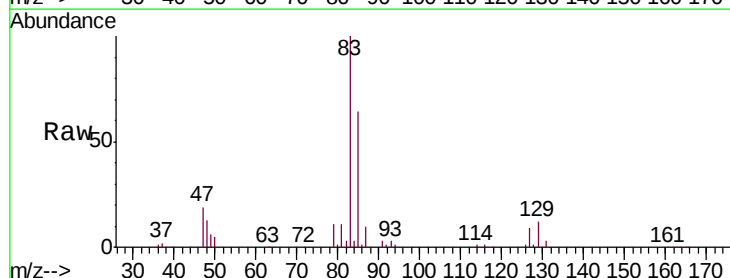
Tgt Ion: 83 Resp: 161273

Ion Ratio Lower Upper

83 100

85 64.5 45.8 85.0

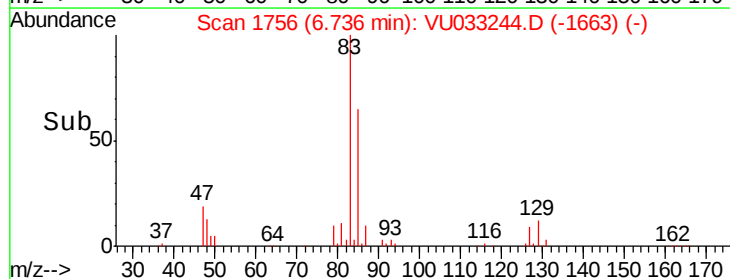
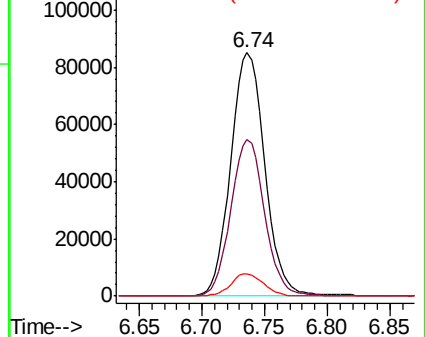
127 9.2 6.8 10.2

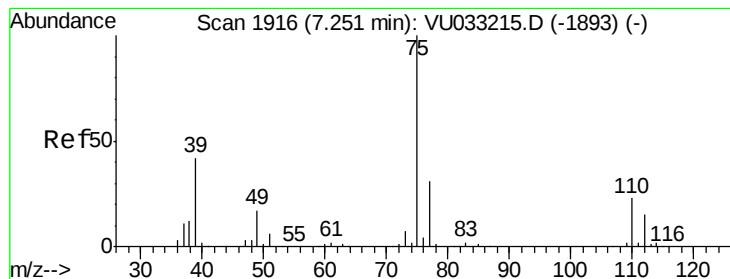


Abundance Ion 83.00 (82.70 to 83.70): VU033215.D (-1742) (-)

Ion 85.00 (84.70 to 85.70): VU033215.D (-1742) (-)

Ion 127.00 (126.70 to 127.70): VU033215.D (-1742) (-)



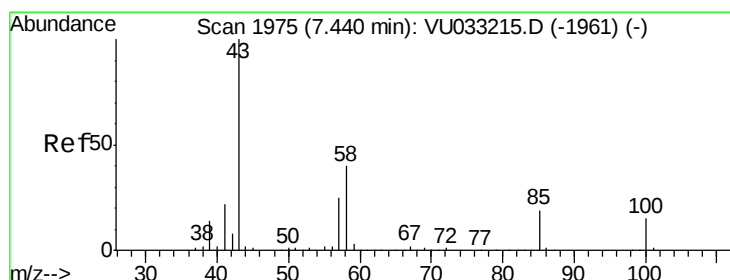
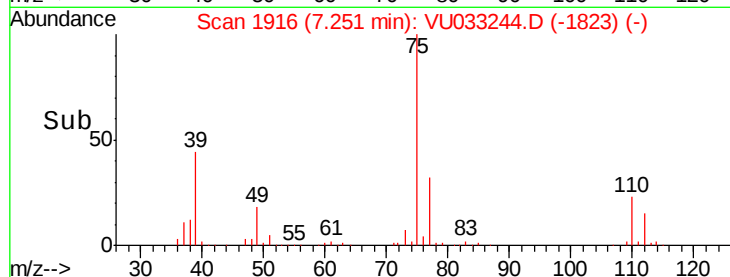
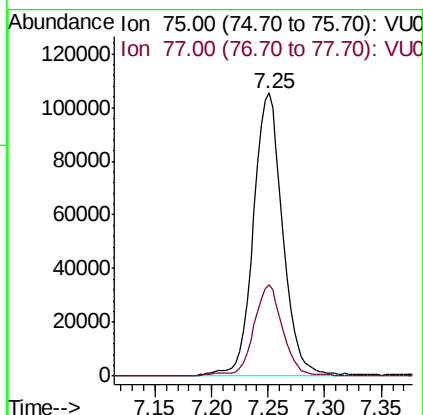
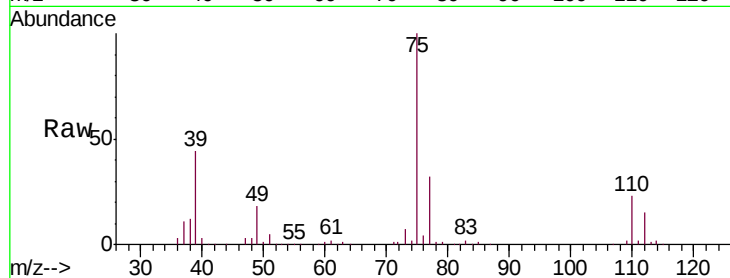


#39

cis-1,3-Dichloropropene
 Concen: 50.397 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

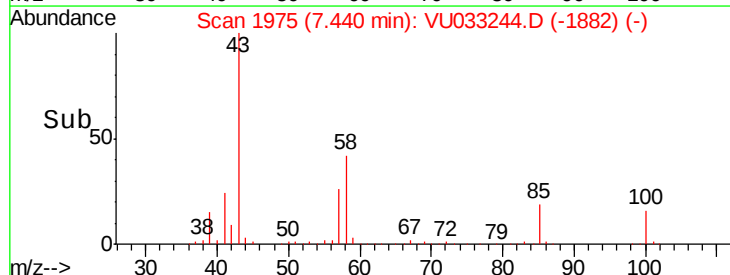
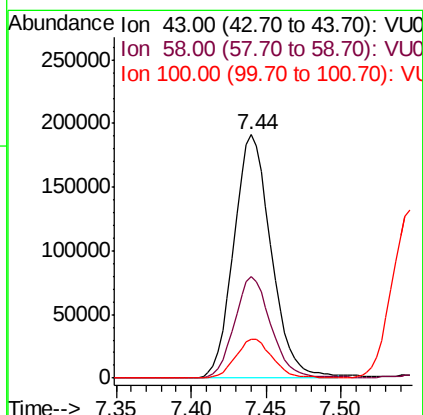
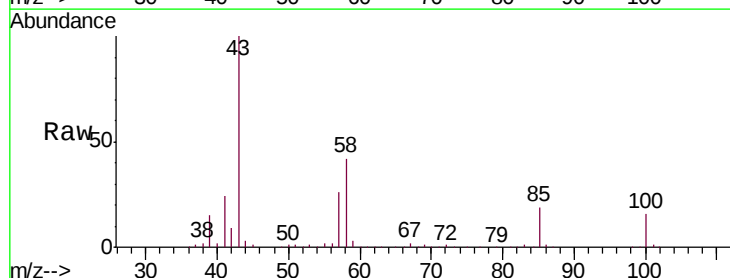
Tgt Ion: 75 Resp: 190494
 Ion Ratio Lower Upper
 75 100
 77 32.4 23.1 42.9

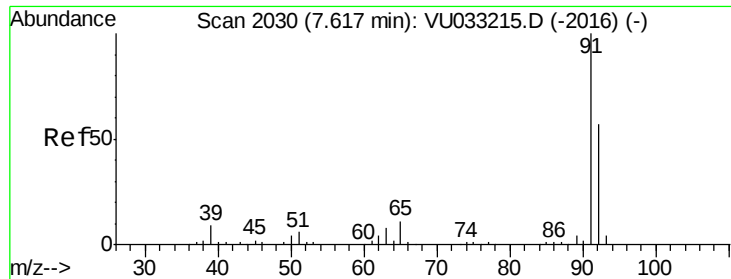


#40

4-Methyl-2-pentanone
 Concen: 100.860 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion: 43 Resp: 333558
 Ion Ratio Lower Upper
 43 100
 58 40.8 33.3 49.9
 100 15.8 12.1 18.1





#42

Toluene

Concen: 51.636 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

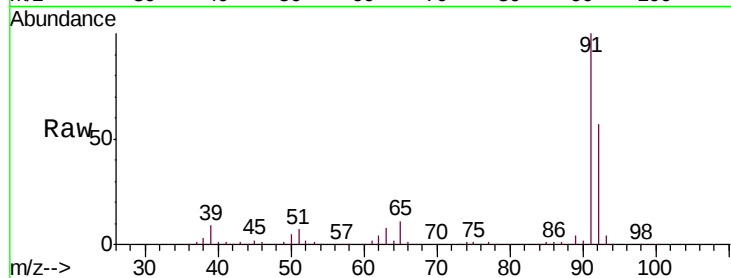
VSTD05049

Tgt Ion: 91 Resp: 506055

Ion Ratio Lower Upper

91 100

92 57.2 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033215.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033215.D (-2016) (-)

7.62

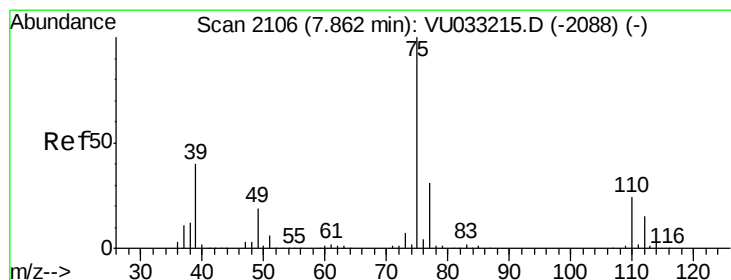
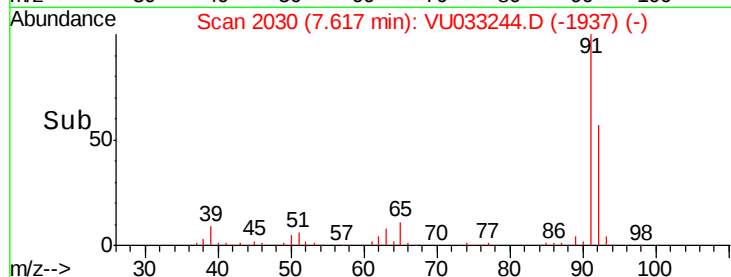
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.767 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033244.D

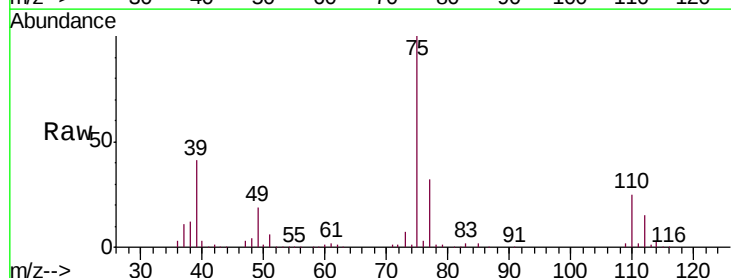
Acq: 15 Jul 2019 09:21

Tgt Ion: 75 Resp: 176465

Ion Ratio Lower Upper

75 100

77 31.5 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033215.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033215.D (-2088) (-)

7.86

120000

100000

80000

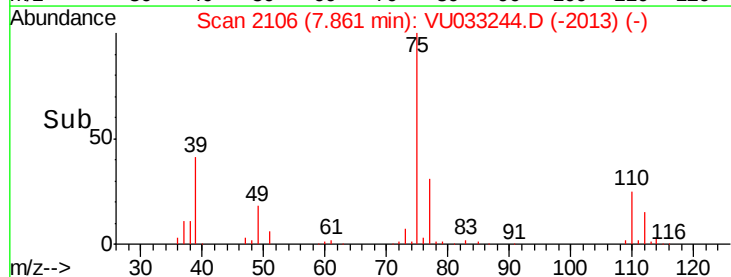
60000

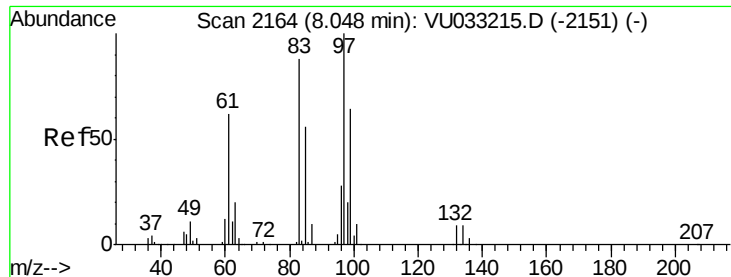
40000

20000

0

Time-->

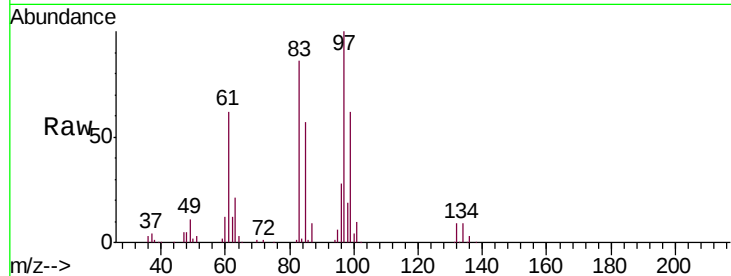




#45
 1,1,2-Trichloroethane
 Concen: 50.463 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion:	97	Resp:	117659
Ion	Ratio	Lower	Upper
97	100		
99	61.7	43.0	79.8
83	85.7	61.5	114.3
85	57.0	38.8	72.0



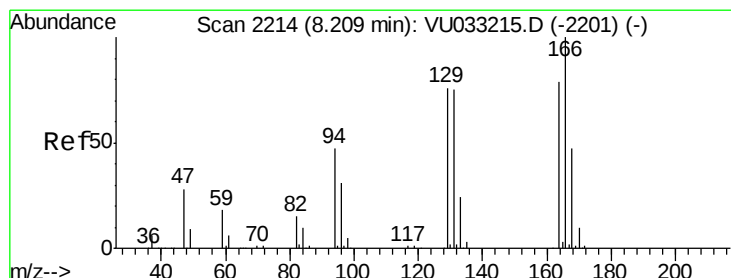
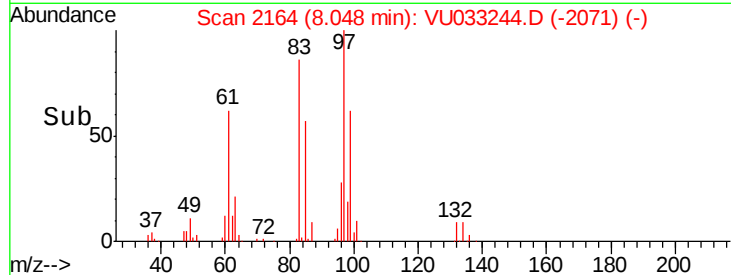
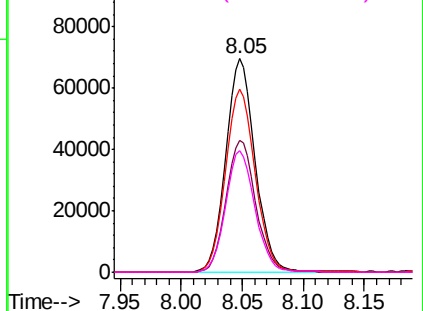
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

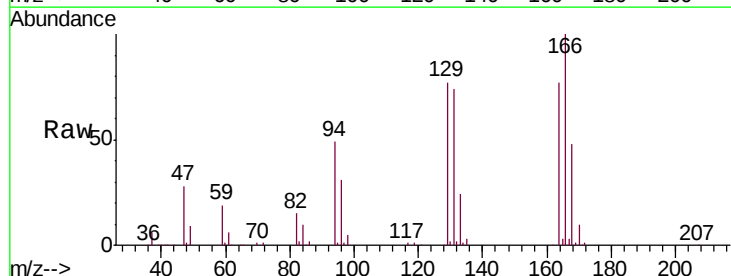
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 51.209 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion:	164	Resp:	94244
Ion	Ratio	Lower	Upper
164	100		
129	98.9	69.6	129.2
131	95.2	65.7	122.1
166	129.1	88.5	164.4



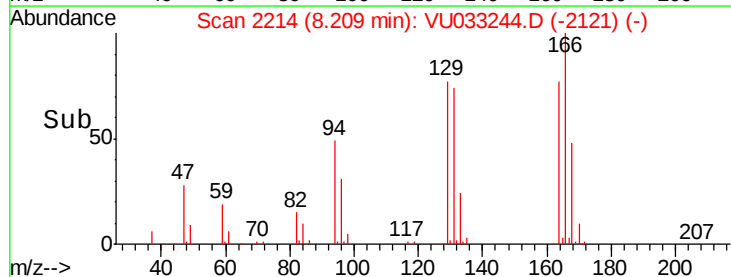
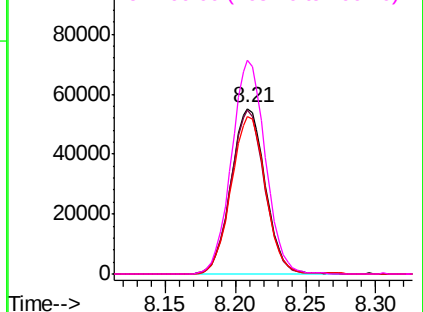
Abundance

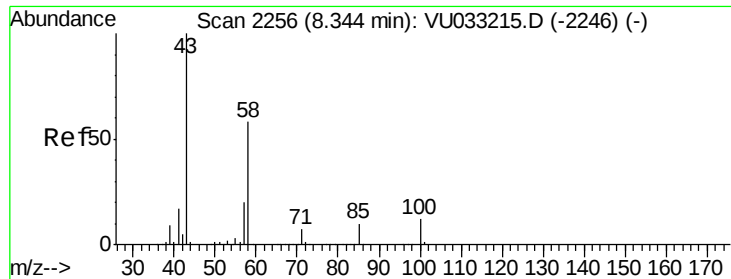
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

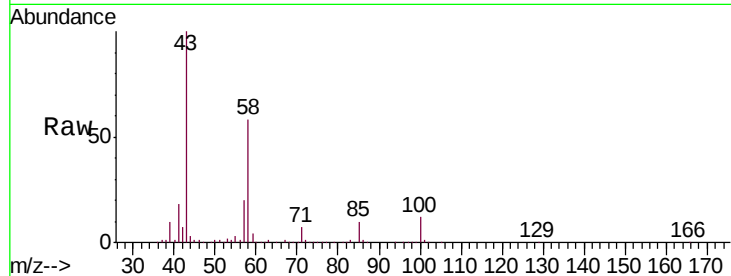




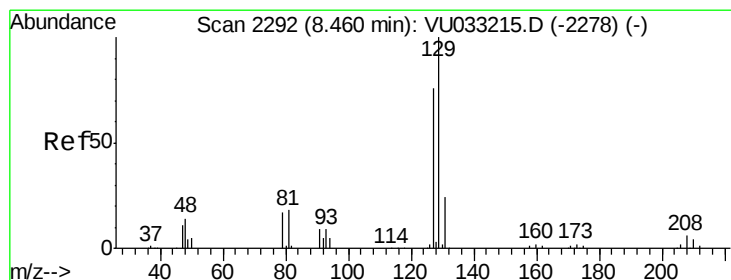
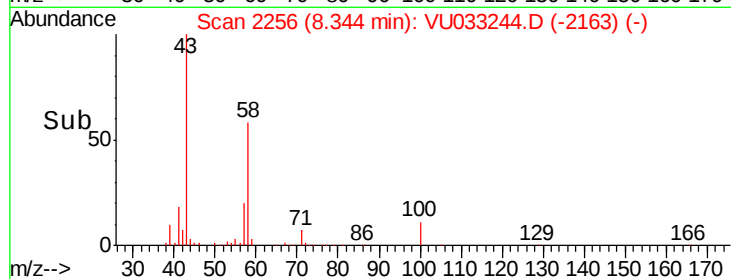
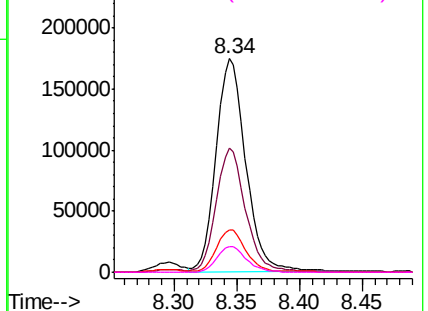
#48
2-Hexanone
Concen: 105.887 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Instrument :
MSVOA_U
ClientSampled :
VSTD05049

Tgt Ion: 43 Resp: 285286
Ion Ratio Lower Upper
43 100
58 57.7 46.1 69.1
57 19.4 15.8 23.8
100 12.3 9.4 14.2

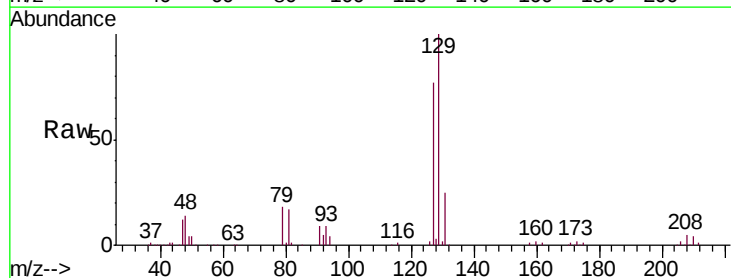


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

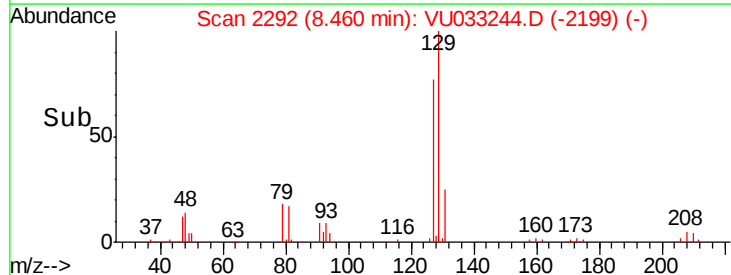
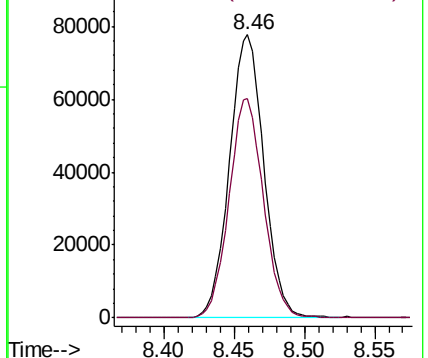


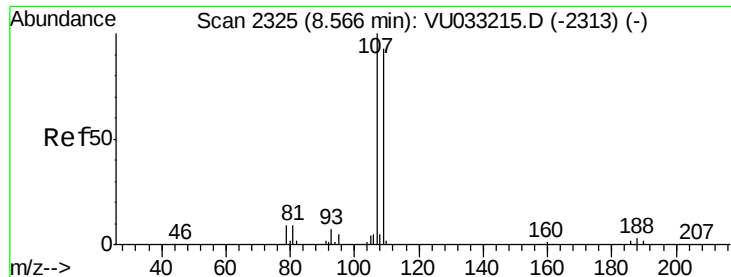
#49
Dibromochloromethane
Concen: 51.068 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion: 129 Resp: 132820
Ion Ratio Lower Upper
129 100
127 77.5 54.3 100.9



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

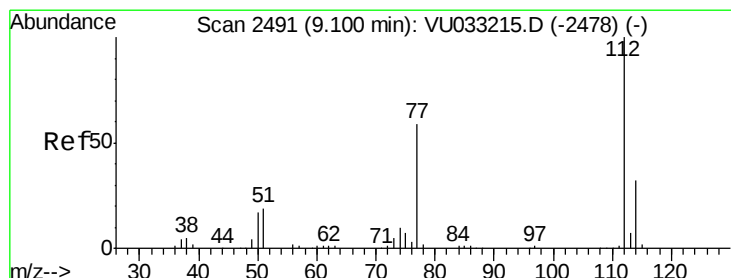
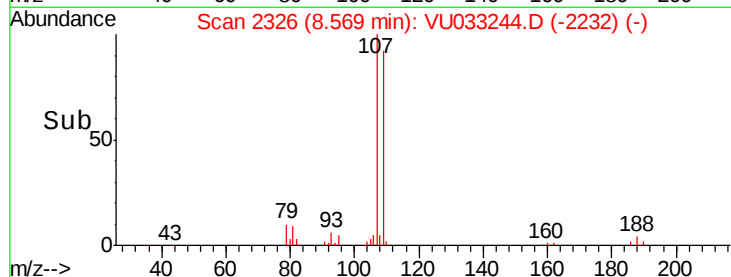
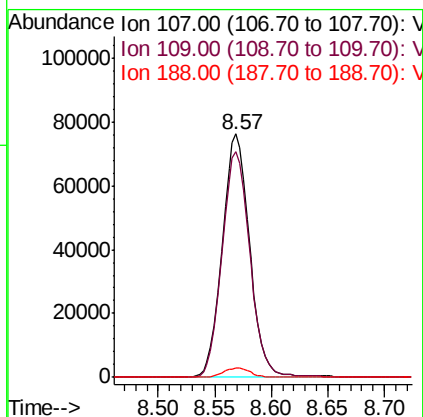
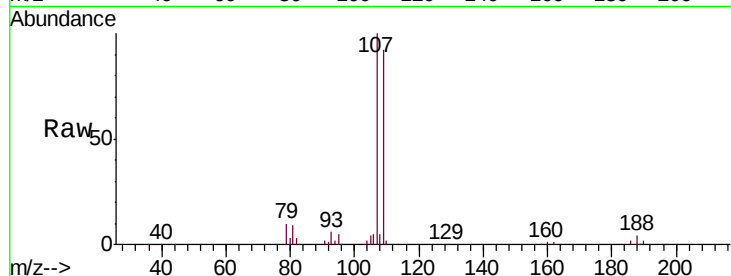




#50
1,2-Dibromoethane
Concen: 50.574 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

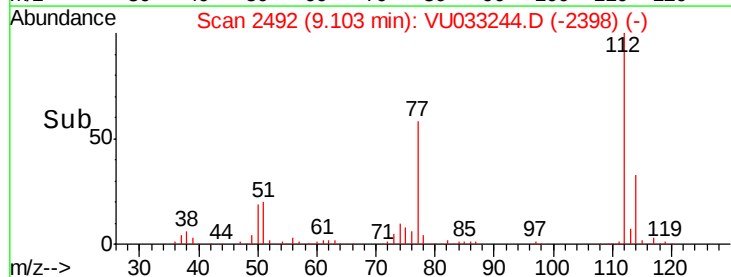
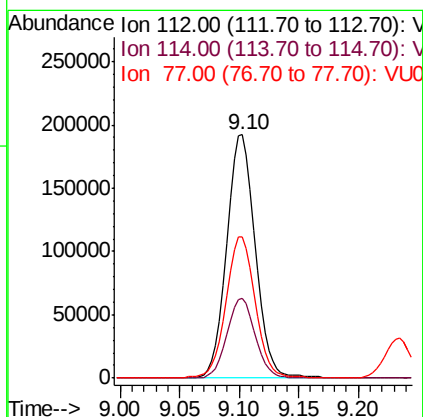
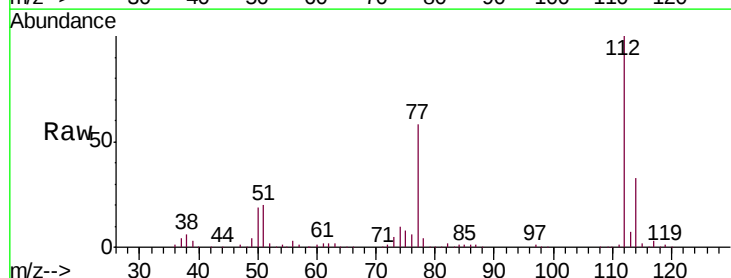
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

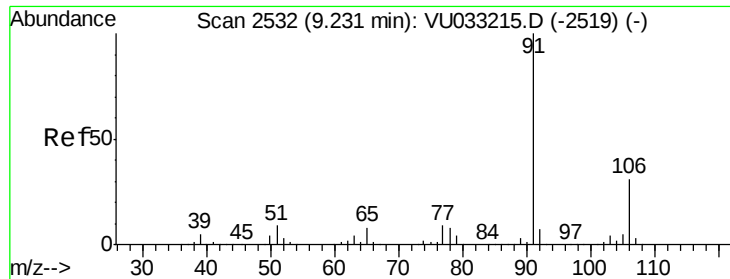
Tgt Ion:107 Resp: 128568
Ion Ratio Lower Upper
107 100
109 92.5 64.2 119.2
188 3.7 2.6 4.0



#51
Chlorobenzene
Concen: 50.149 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033244.D
Acq: 15 Jul 2019 09:21

Tgt Ion:112 Resp: 320796
Ion Ratio Lower Upper
112 100
114 33.0 22.3 41.3
77 57.9 47.2 70.8





#52

Ethylbenzene

Concen: 52.058 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

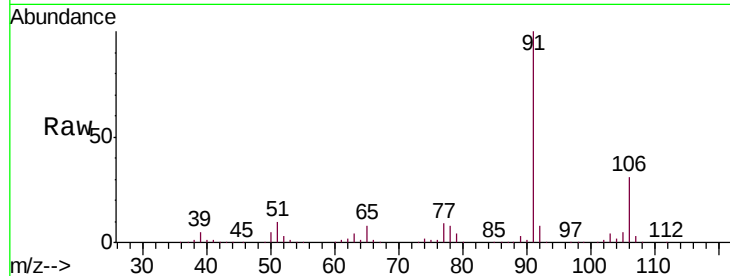
VSTD05049

Tgt Ion: 91 Resp: 545932

Ion Ratio Lower Upper

91 100

106 30.7 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033215.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033215.D (-2519) (-)

9.23

300000

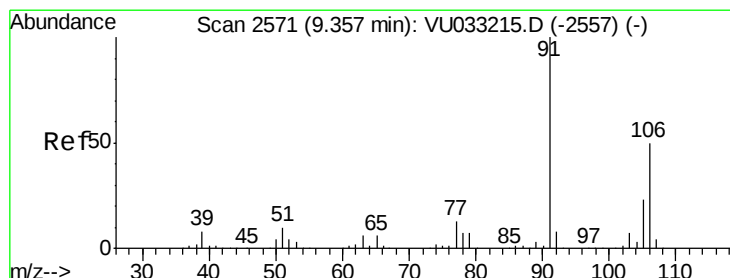
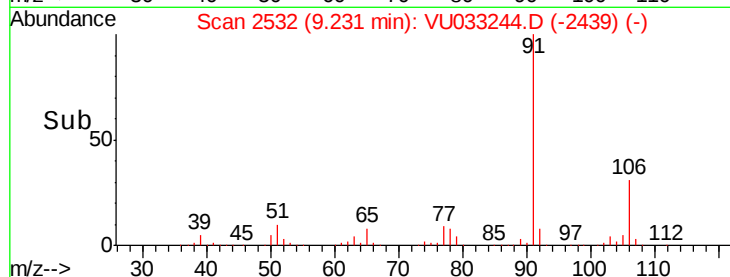
200000

100000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 52.799 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033244.D

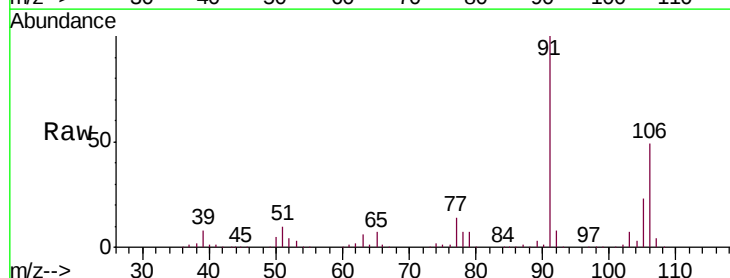
Acq: 15 Jul 2019 09:21

Tgt Ion: 106 Resp: 209729

Ion Ratio Lower Upper

106 100

91 202.6 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VU033215.D (-2557) (-)

Ion 91.00 (90.70 to 91.70): VU033215.D (-2557) (-)

9.36

300000

250000

200000

150000

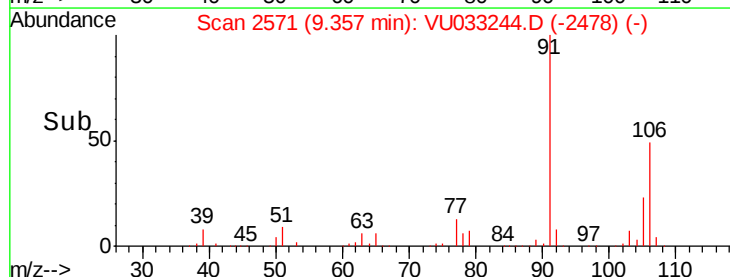
100000

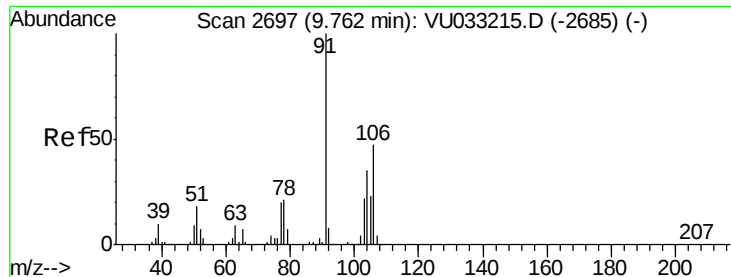
50000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 51.154 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

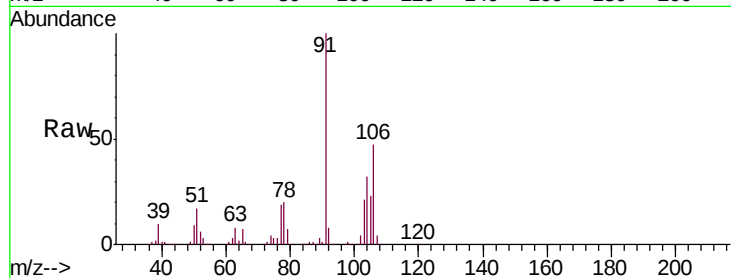
VSTD05049

Tgt Ion:106 Resp: 201759

Ion Ratio Lower Upper

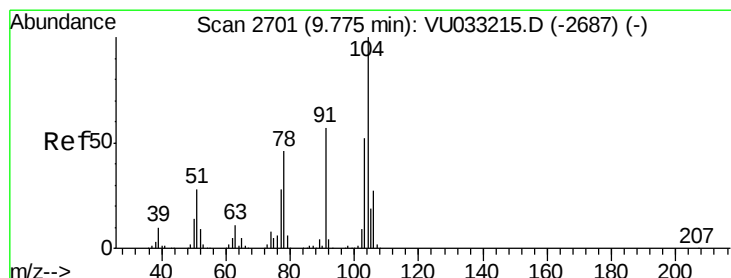
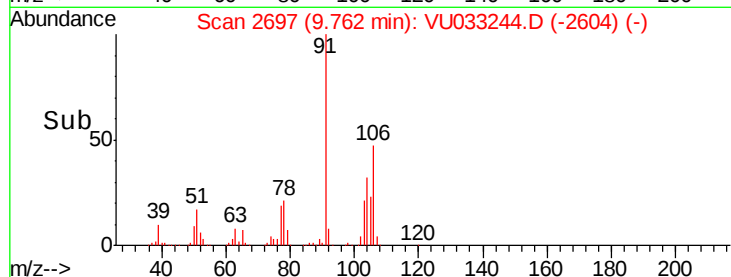
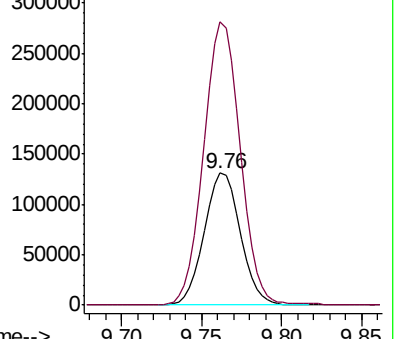
106 100

91 214.6 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.324 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033244.D

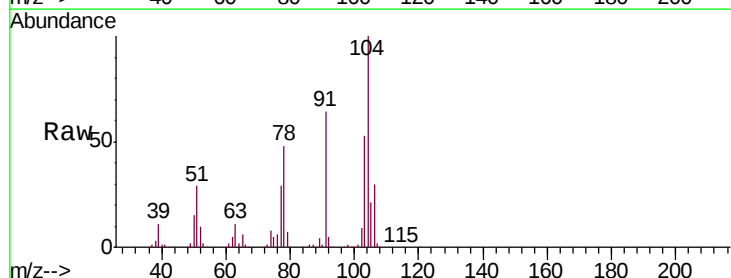
Acq: 15 Jul 2019 09:21

Tgt Ion:104 Resp: 356577

Ion Ratio Lower Upper

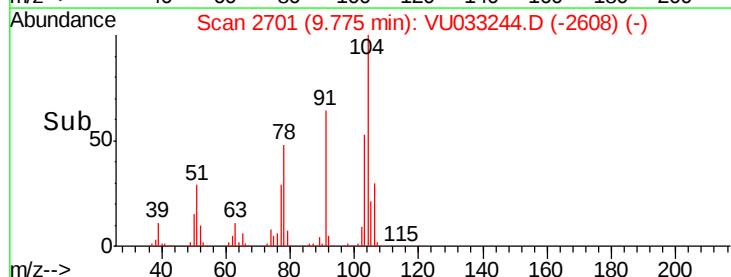
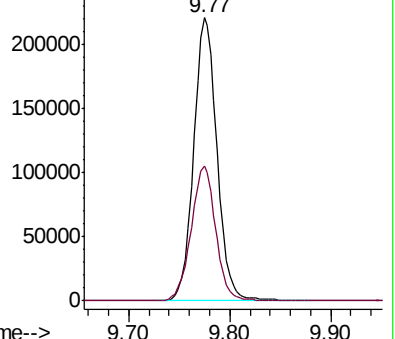
104 100

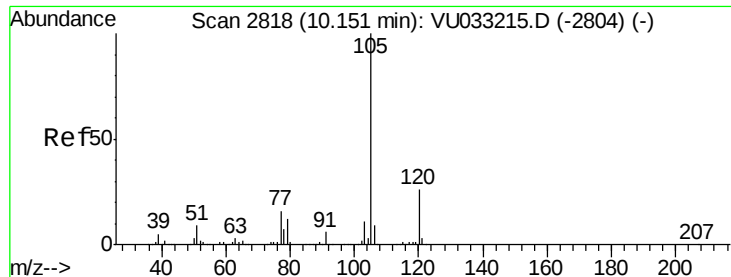
78 47.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.169 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

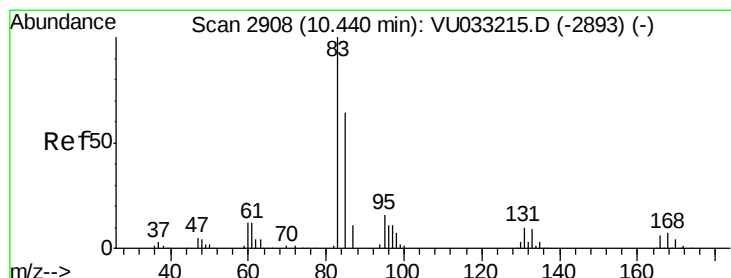
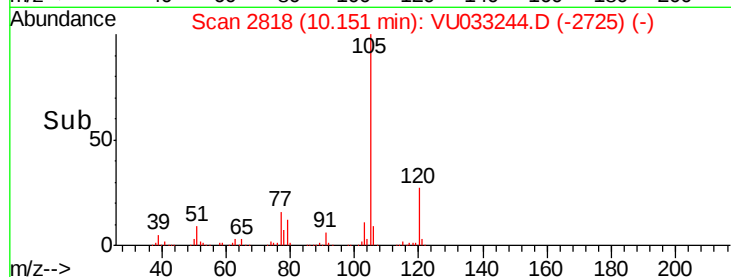
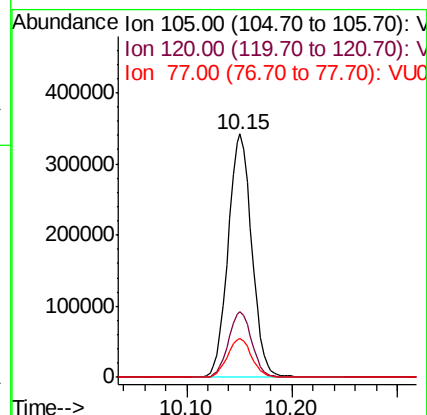
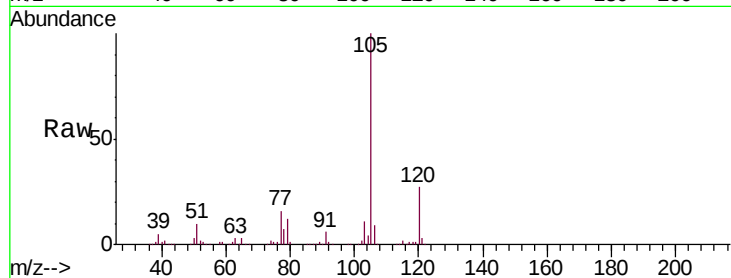
Tgt Ion: 105 Resp: 529481

Ion Ratio Lower Upper

105 100

120 26.9 21.2 31.8

77 16.3 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 50.289 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

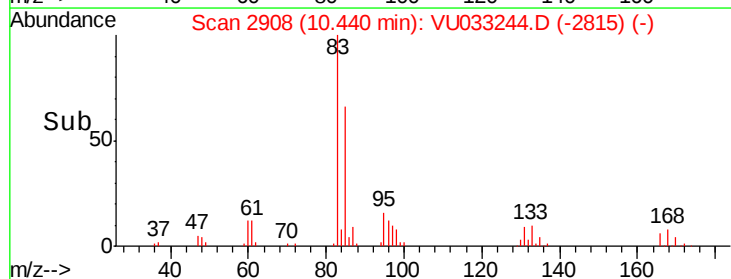
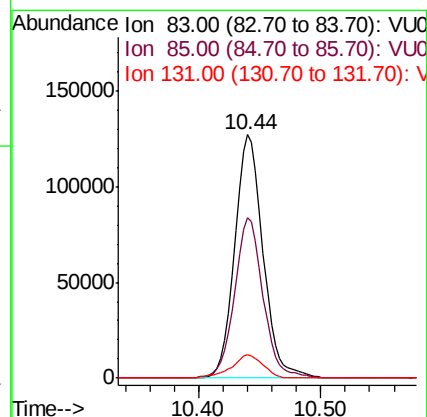
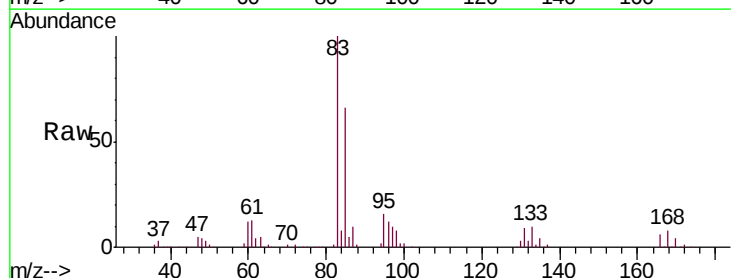
Tgt Ion: 83 Resp: 205956

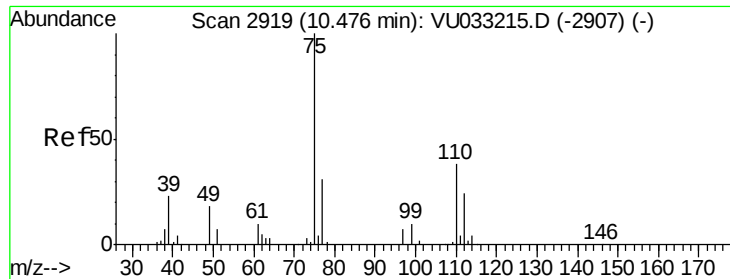
Ion Ratio Lower Upper

83 100

85 65.8 44.9 83.3

131 9.4 7.6 11.4

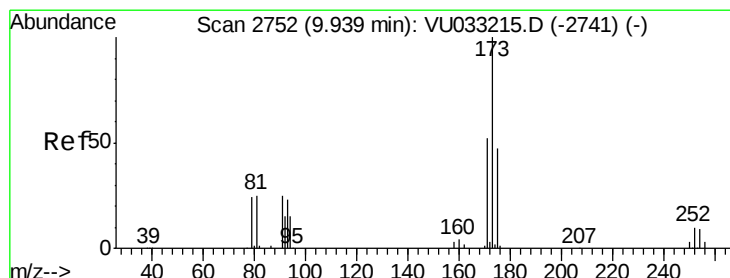
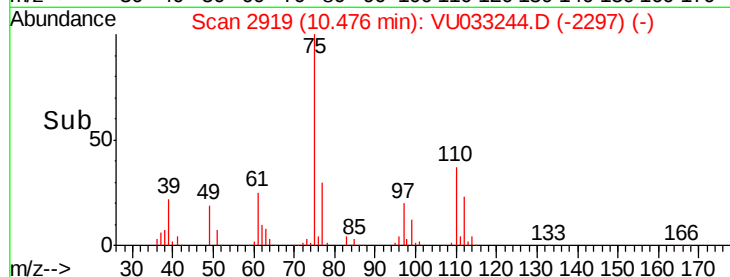
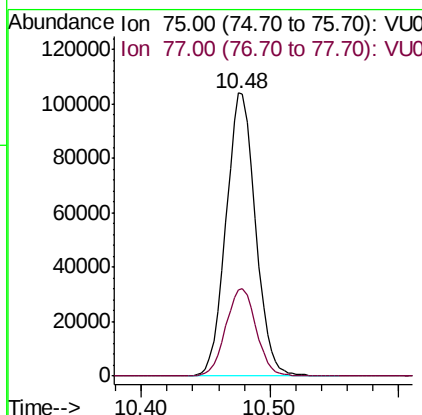
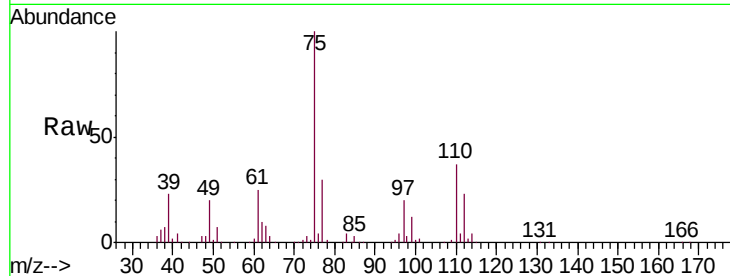




#59
 1,2,3-Trichloropropane
 Concen: 51.262 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

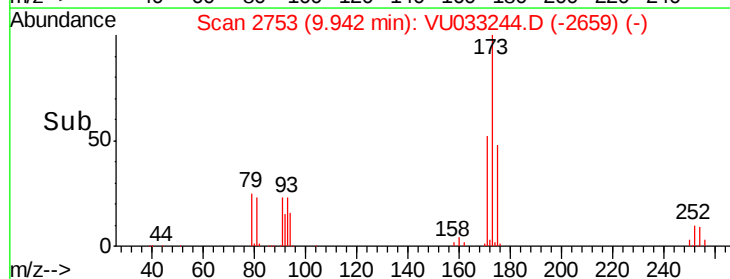
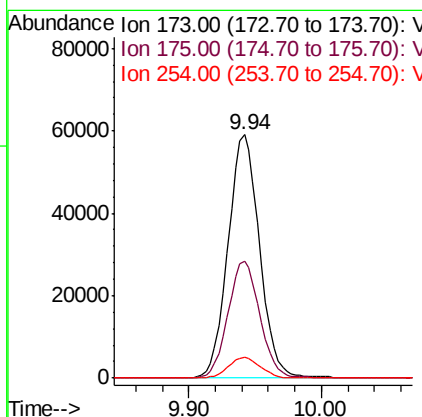
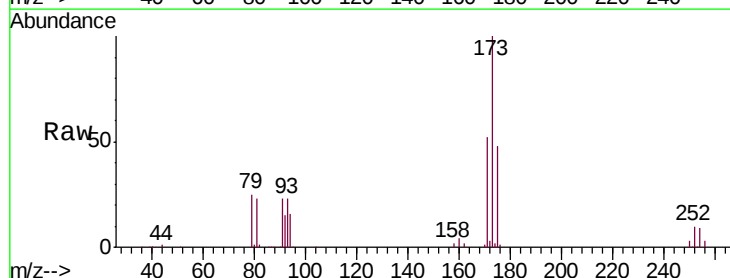
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

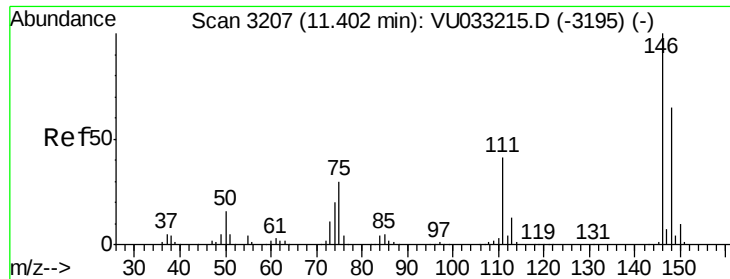
Tgt Ion: 75 Resp: 164519
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.0 39.0



#61
 Bromoform
 Concen: 50.083 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion: 173 Resp: 97603
 Ion Ratio Lower Upper
 173 100
 175 48.6 40.0 60.0
 254 8.5 7.3 10.9

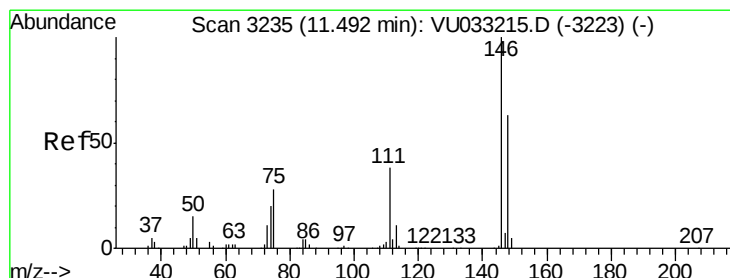
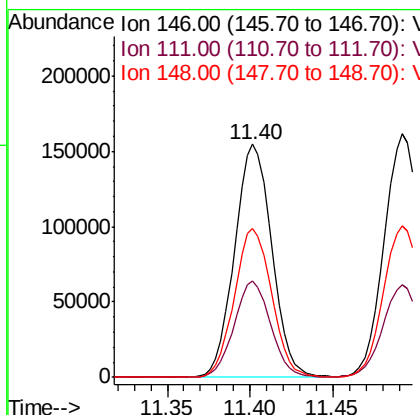
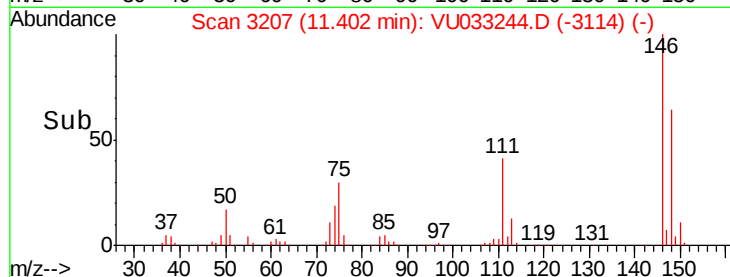
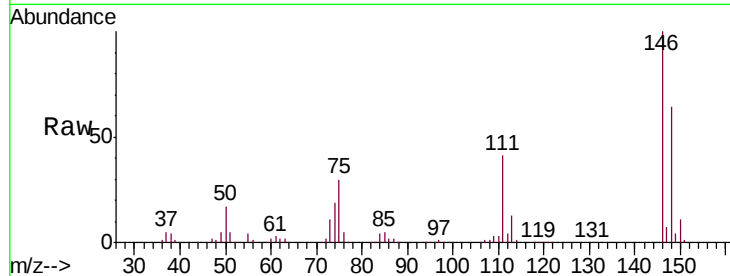




#62
 1,3-Dichlorobenzene
 Concen: 49.287 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

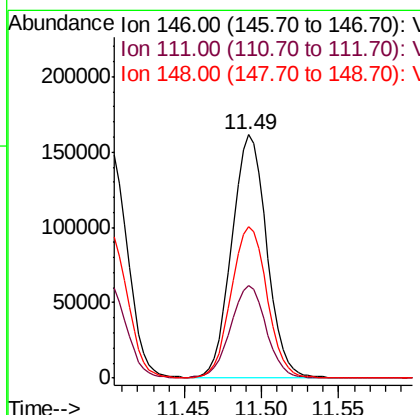
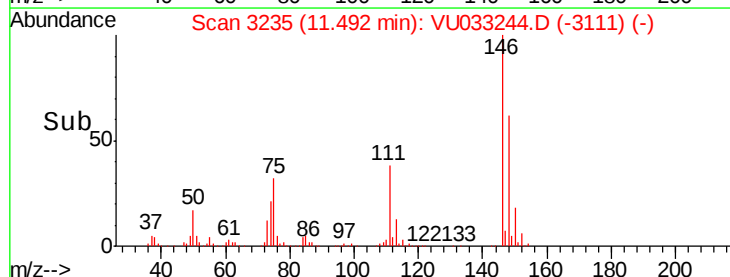
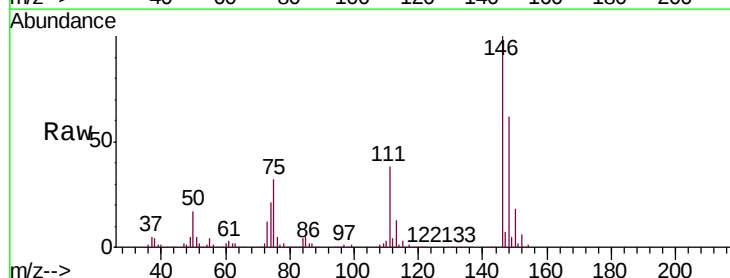
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

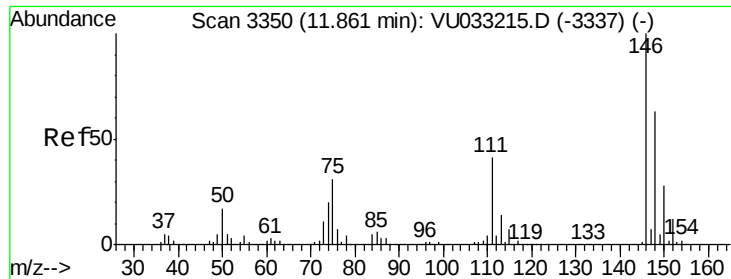
Tgt Ion:146 Resp: 242098
 Ion Ratio Lower Upper
 146 100
 111 41.1 28.0 52.0
 148 64.1 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 49.094 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion:146 Resp: 252142
 Ion Ratio Lower Upper
 146 100
 111 38.1 27.8 51.6
 148 62.1 44.6 82.8





#65

1,2-Dichlorobenzene

Concen: 49.793 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

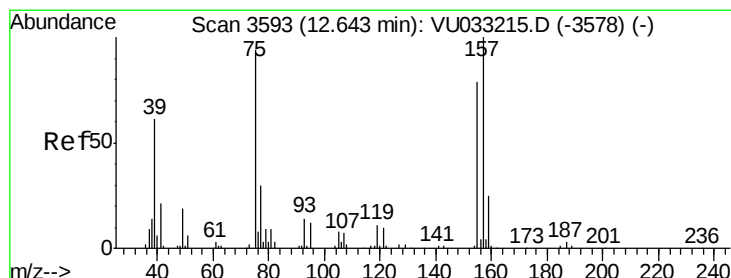
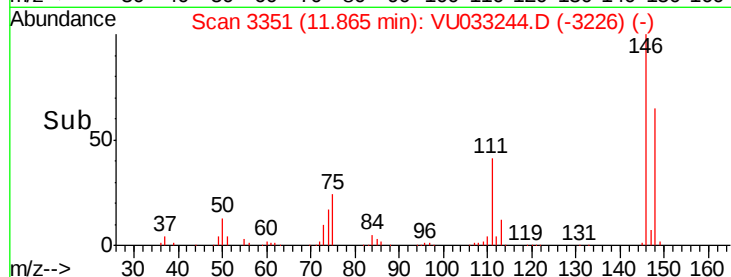
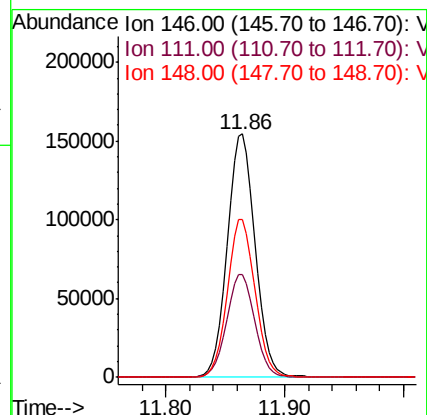
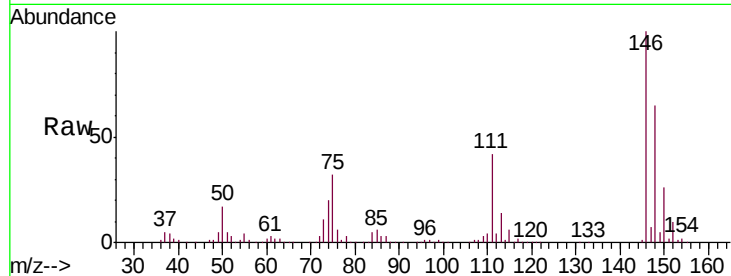
Tgt Ion: 146 Resp: 250839

Ion Ratio Lower Upper

146 100

111 42.2 34.3 51.5

148 64.9 51.5 77.3



#66

1,2-Dibromo-3-chloropropane

Concen: 48.652 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

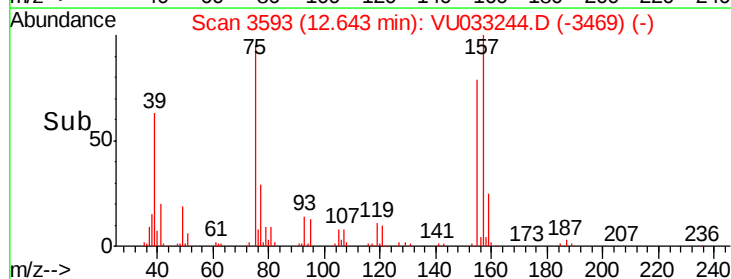
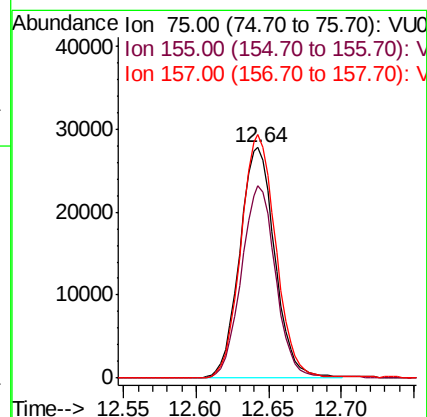
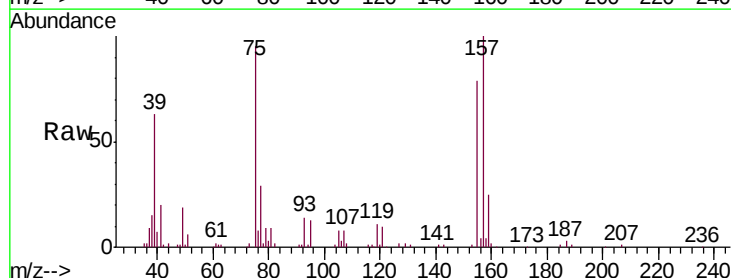
Tgt Ion: 75 Resp: 46778

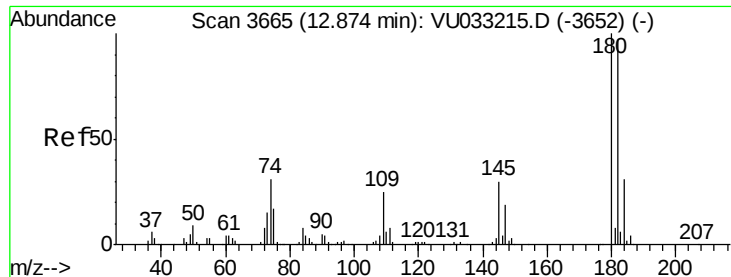
Ion Ratio Lower Upper

75 100

155 83.5 63.5 95.3

157 105.7 84.6 127.0

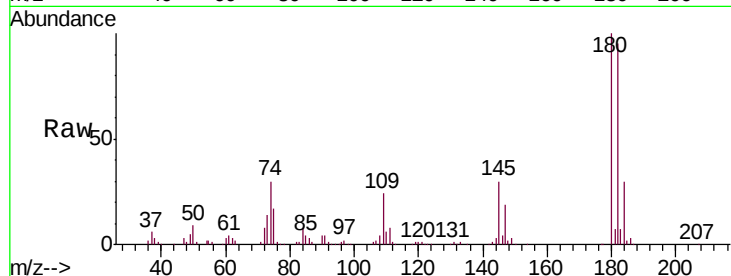




#67
 1,3,5-Trichlorobenzene
 Concen: 51.811 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.5	113.3
184	29.9	24.2	36.2
145	29.7	24.1	36.1



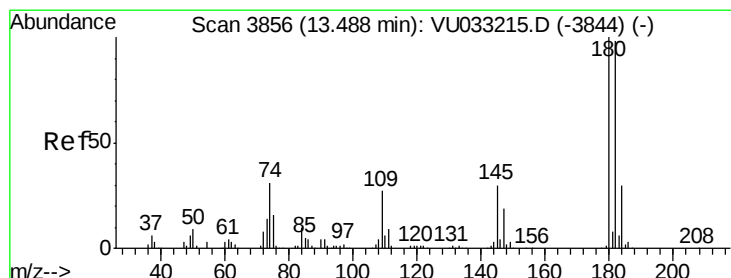
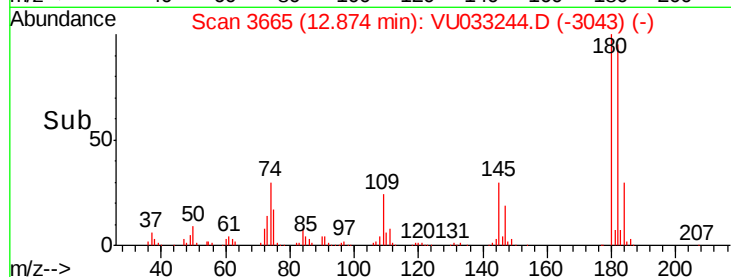
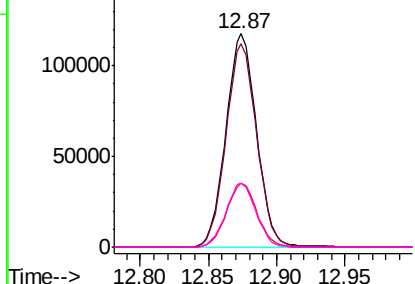
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

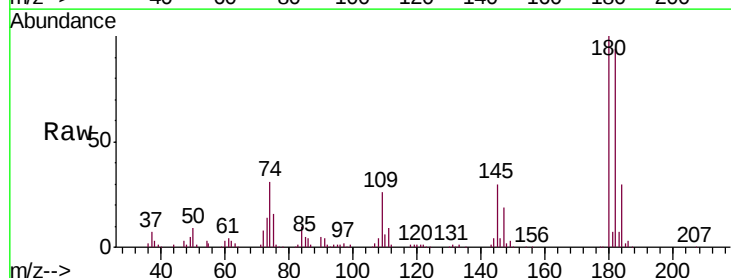
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.833 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033244.D
 Acq: 15 Jul 2019 09:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
145	30.3	24.6	36.8

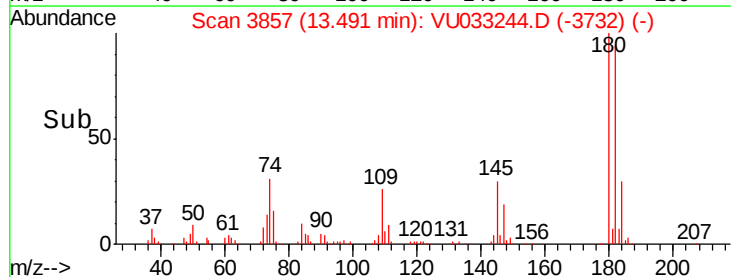
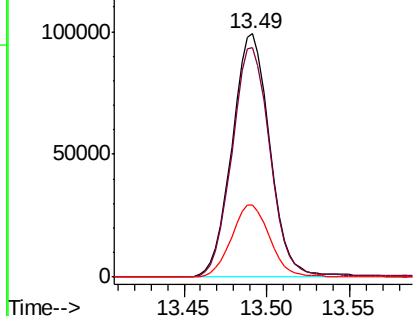


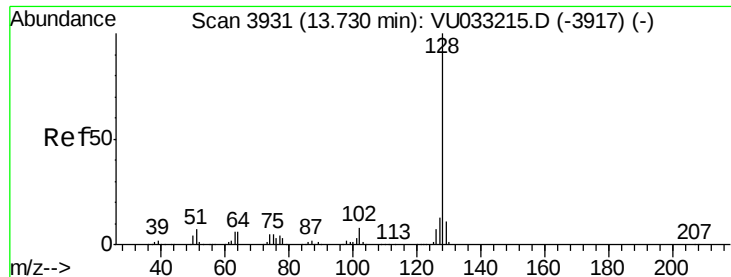
Abundance

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: 51.946 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

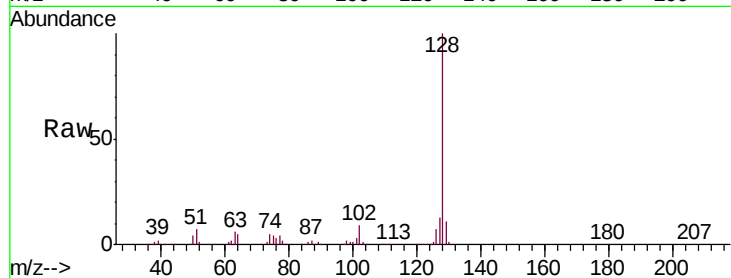
Tgt Ion:128 Resp: 516447

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

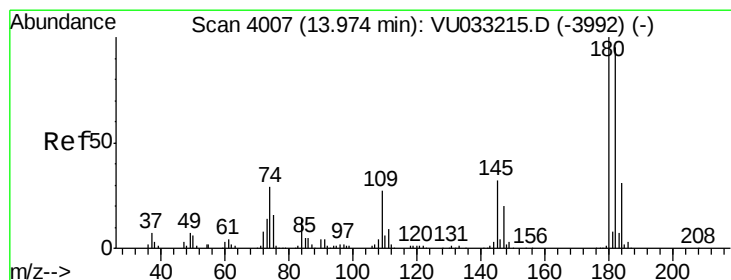
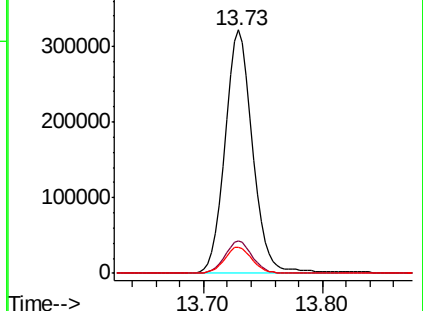
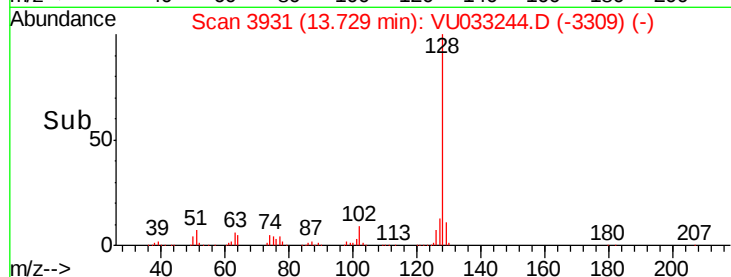
129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.097 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033244.D

Acq: 15 Jul 2019 09:21

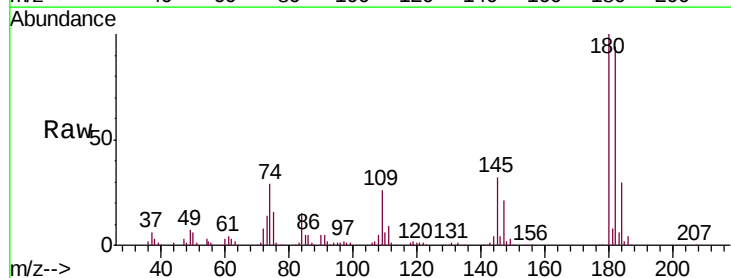
Tgt Ion:180 Resp: 168642

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.2

145 31.9 26.2 39.2



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

