

Data File : VU032185.D
Acq On : 21 May 2019 09:21
Operator : JC/SP
Sample : VSTD00551
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Quant Time: May 22 01:37:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	849100	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	864100	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	387157	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	30808	4.34	ug/L	0.00
7) Chloroethane-d5	1.67	69	26941	4.66	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	59808	4.66	ug/L	0.00
21) 2-Butanone-d5	4.33	46	254	0.05	ug/L	0.16
24) Chloroform-d	4.64	84	60288	4.96	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	35213	4.63	ug/L	0.00
32) Benzene-d6	5.34	84	118329	4.83	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	34406	4.34	ug/L	0.00
41) Toluene-d8	7.56	98	108609	4.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	16087	4.53	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	23183	7.07	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	52192	4.40	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	44773	5.54	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	40098	5.238 ug/L	98
3) Chloromethane	1.33	50	35871	4.354 ug/L	100
5) Vinyl chloride	1.40	62	39649	4.545 ug/L	92
6) Bromomethane	1.61	94	29008	6.071 ug/L	93
8) Chloroethane	1.69	64	23881	4.613 ug/L	99
9) Trichlorofluoromethane	1.88	101	55737	5.452 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	34076	5.465 ug/L	99
12) 1,1-Dichloroethene	2.28	96	32020	5.182 ug/L	91
13) Acetone	2.32	43	43251	8.618 ug/L	98
14) Carbon disulfide	2.47	76	99008	5.045 ug/L	98
15) Methyl Acetate	2.61	43	27595	3.652 ug/L	94
16) Methylene chloride	2.69	84	38046	5.107 ug/L	93
17) trans-1,2-Dichloroethene	2.98	96	32930	5.123 ug/L	90
18) Methyl tert-butyl Ether	3.00	73	90316	4.636 ug/L	99
19) 1,1-Dichloroethane	3.44	63	56682	4.610 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	35863	5.064 ug/L	93
22) 2-Butanone	4.27	43	38453	6.729 ug/L	91
23) Bromochloromethane	4.54	128	20192	5.693 ug/L	96
25) Chloroform	4.67	83	62224	5.021 ug/L	98
27) 1,2-Dichloroethane	5.40	62	44545	4.700 ug/L	96
29) Cyclohexane	4.98	56	40111	3.977 ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	51834	5.227 ug/L	99
31) Carbon tetrachloride	5.13	117	46050	5.501 ug/L	100
33) Benzene	5.39	78	132550	4.813 ug/L	100
34) Trichloroethene	6.19	95	37178	5.366 ug/L	96
35) Methylcyclohexane	6.41	83	49797	4.720 ug/L	95
37) 1,2-Dichloropropane	6.43	63	33468	4.596 ug/L	98
38) Bromodichloromethane	6.75	83	44882	4.914 ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	45269	4.319 ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	64608	6.724 ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	137764	4.819	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	42004	4.550	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	35922	5.202	ug/L	96
46) Tetrachloroethene	8.22	164	29147	5.769	ug/L	98
48) 2-Hexanone	8.36	43	59117	7.565	ug/L #	87
49) Dibromochloromethane	8.47	129	35509	5.056	ug/L	99
50) 1,2-Dibromoethane	8.58	107	35654	4.874	ug/L	94
51) Chlorobenzene	9.12	112	101197	5.502	ug/L	97
52) Ethylbenzene	9.25	91	144643	4.719	ug/L	99
53) m,p-Xylene	9.37	106	57600	5.098	ug/L	96
54) o-xylene	9.78	106	53907	4.809	ug/L	92
55) Styrene	9.79	104	88177	4.592	ug/L	99
56) Isopropylbenzene	10.16	105	142060	4.955	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	57000	4.641	ug/L	95
59) 1,2,3-Trichloropropane	10.49	75	41967	4.360	ug/L	97
61) Bromoform	9.95	173	26618	5.155	ug/L	92
62) 1,3-Dichlorobenzene	11.41	146	71899	5.681	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	78671	5.903	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	76626	5.719	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	11171	4.477	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	52841	5.755	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	38305	5.423	ug/L	98
69) Naphthalene	13.74	128	102957	4.472	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	47596	6.180	ug/L	92

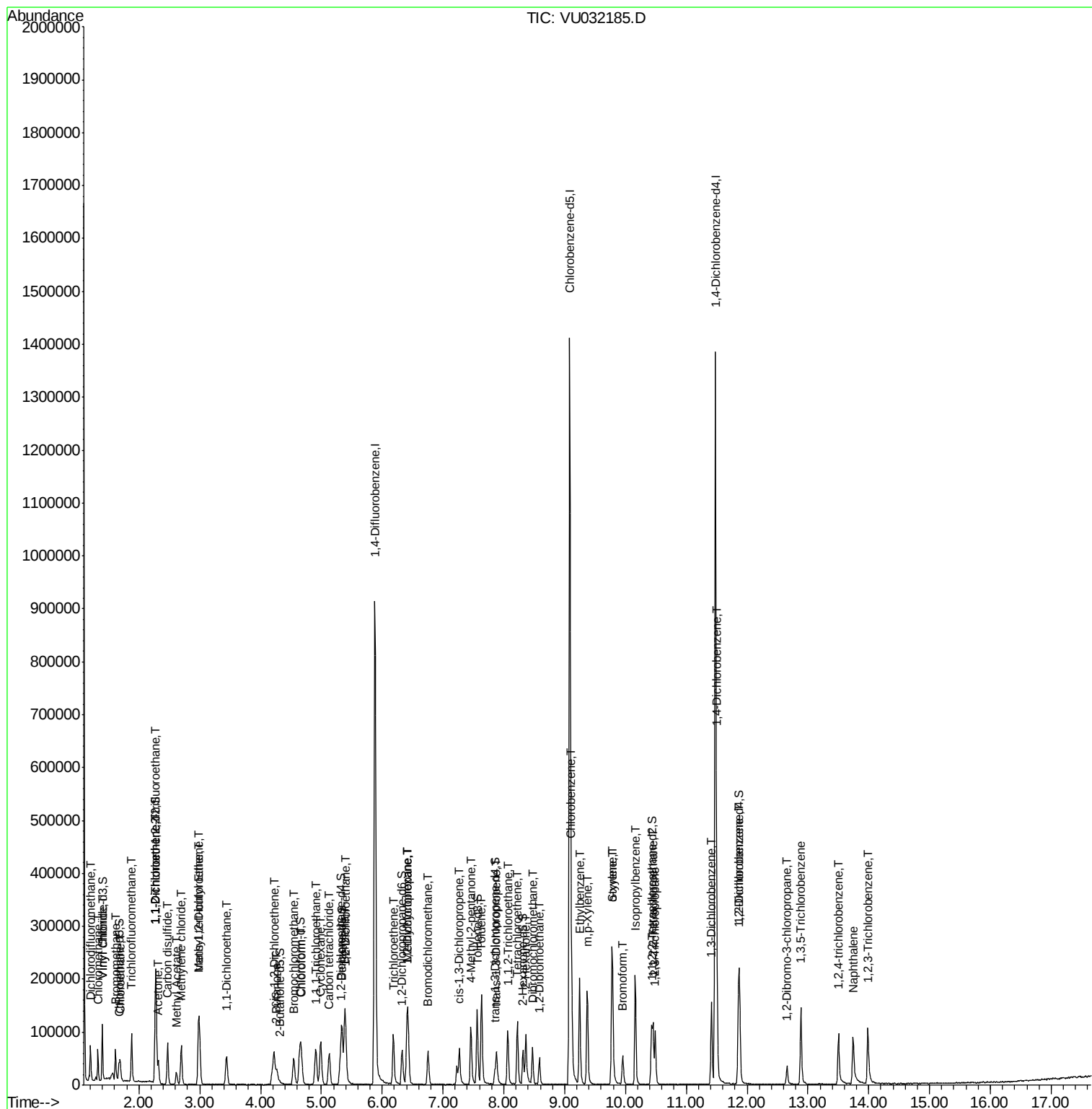
(#) = qualifier out of range (m) = manual integration (+) = signals summed

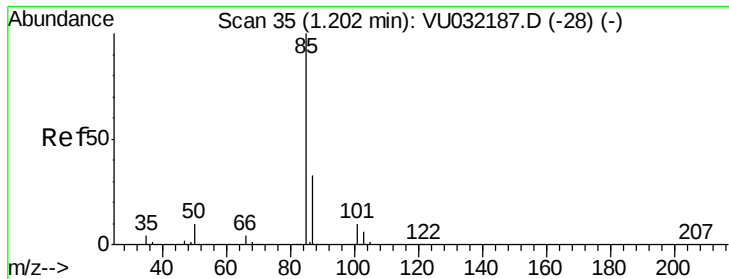
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#2

Dichlorodifluoromethane

Concen: 5.238 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

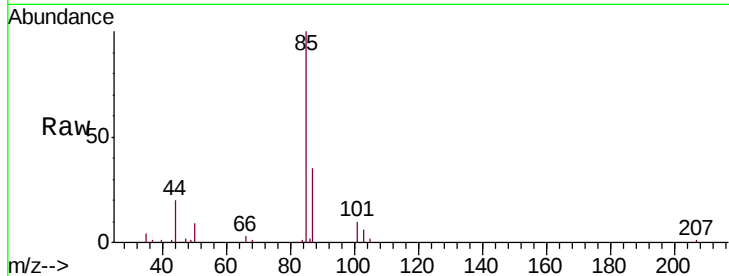
VSTD00551

Tgt Ion: 85 Resp: 40098

Ion Ratio Lower Upper

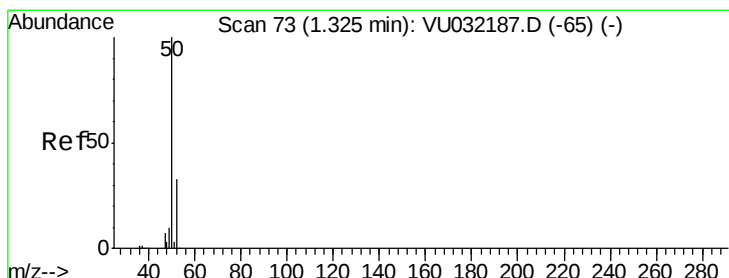
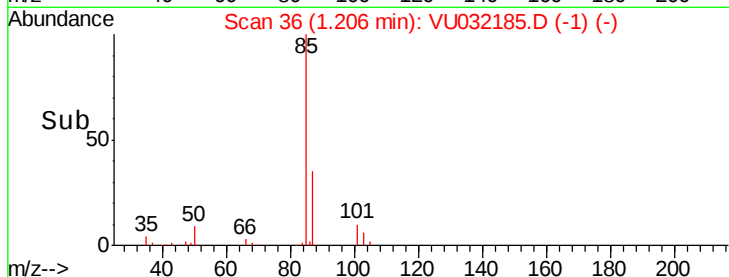
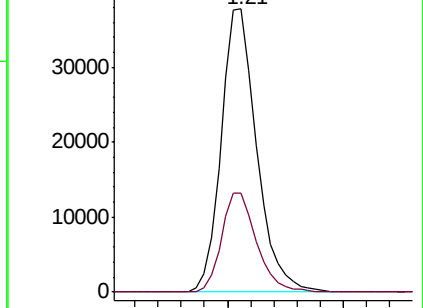
85 100

87 34.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU032187.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032187.D (-28) (-)



#3

Chloromethane

Concen: 4.354 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032185.D

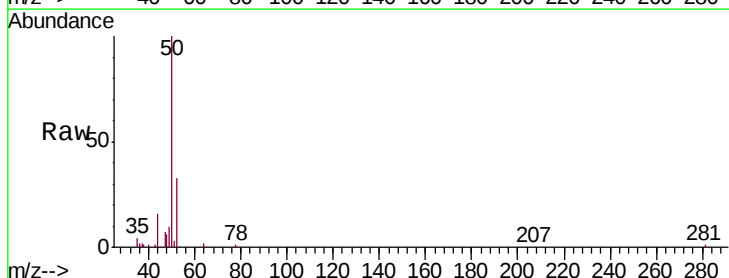
Acq: 21 May 2019 09:21

Tgt Ion: 50 Resp: 35871

Ion Ratio Lower Upper

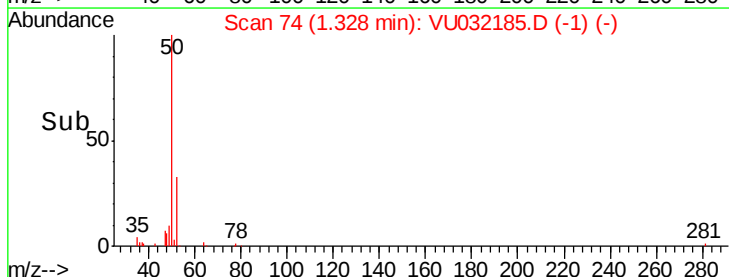
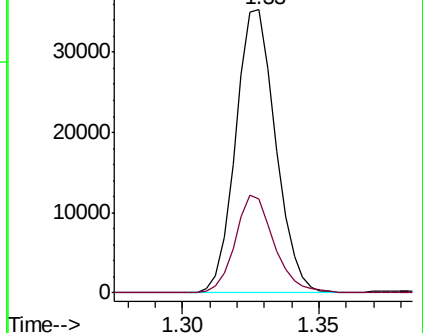
50 100

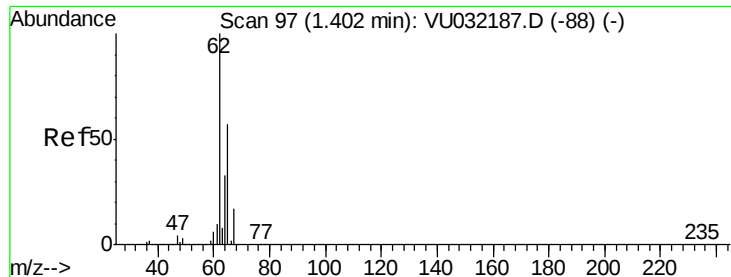
52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU032187.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032187.D (-65) (-)





#5

Vinyl chloride

Concen: 4.545 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

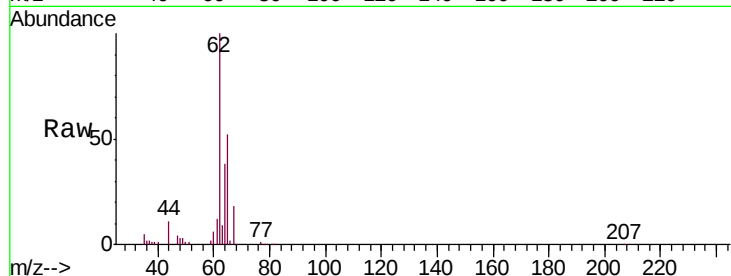
VSTD00551

Tgt Ion: 62 Resp: 39649

Ion Ratio Lower Upper

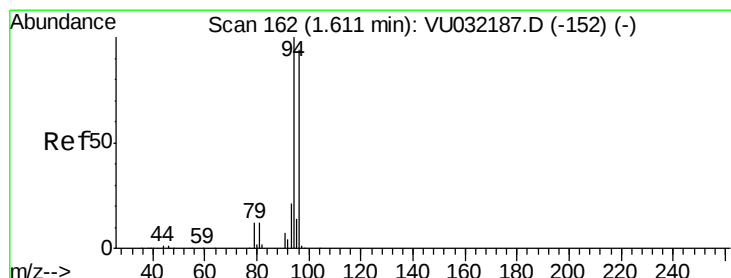
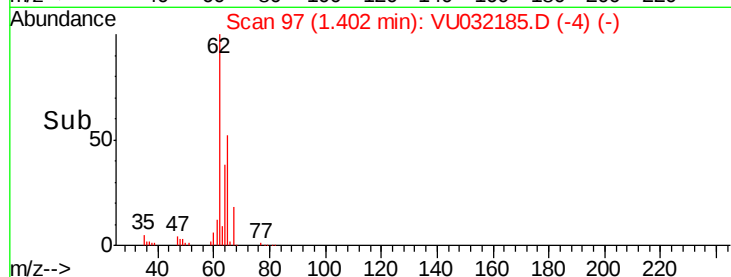
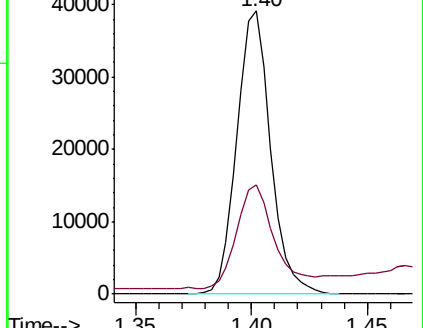
62 100

64 38.4 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU032187.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032187.D (-88) (-)



#6

Bromomethane

Concen: 6.071 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU032185.D

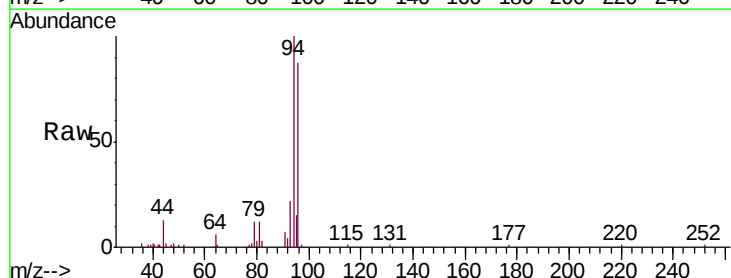
Acq: 21 May 2019 09:21

Tgt Ion: 94 Resp: 29008

Ion Ratio Lower Upper

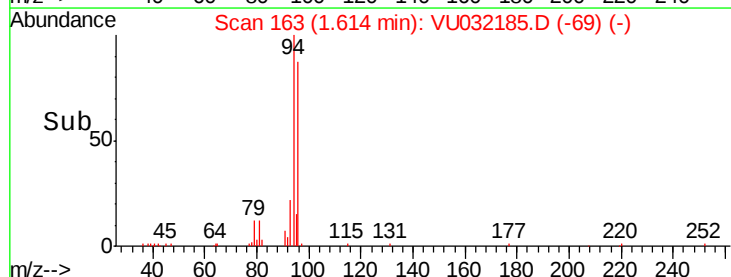
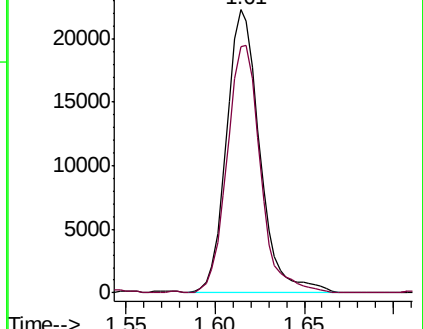
94 100

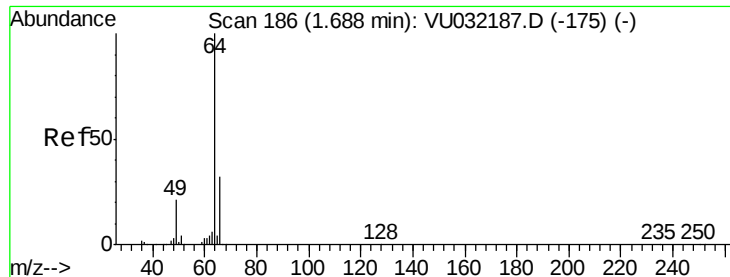
96 87.0 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU032187.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032187.D (-152) (-)





#8

Chloroethane

Concen: 4.613 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

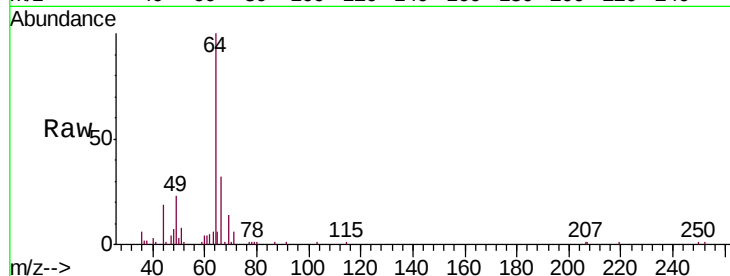
VSTD00551

Tgt Ion: 64 Resp: 23881

Ion Ratio Lower Upper

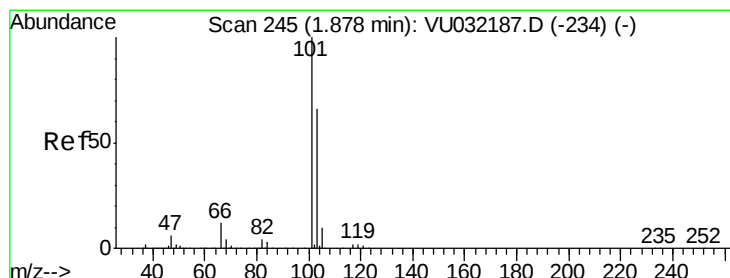
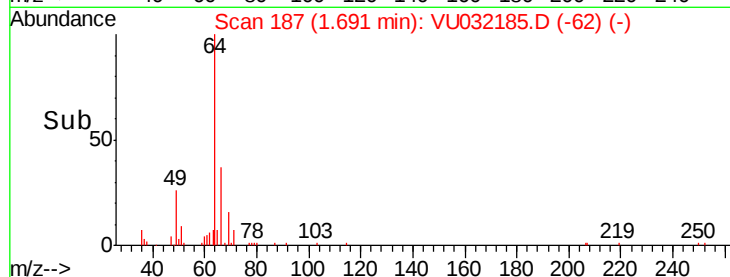
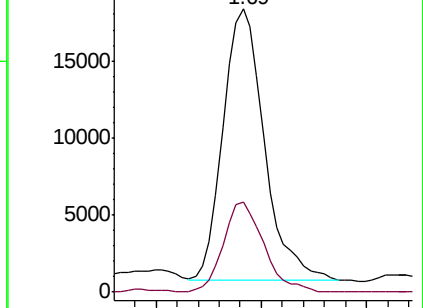
64 100

66 31.9 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU032187.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU032187.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 5.452 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032185.D

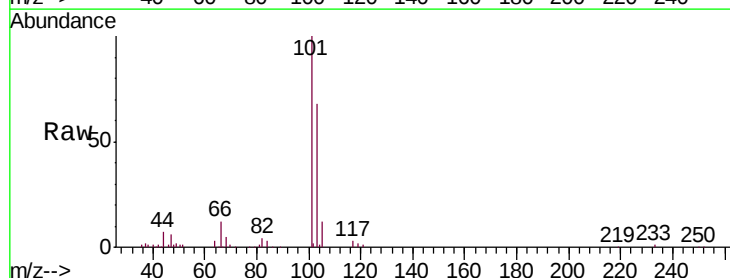
Acq: 21 May 2019 09:21

Tgt Ion: 101 Resp: 55737

Ion Ratio Lower Upper

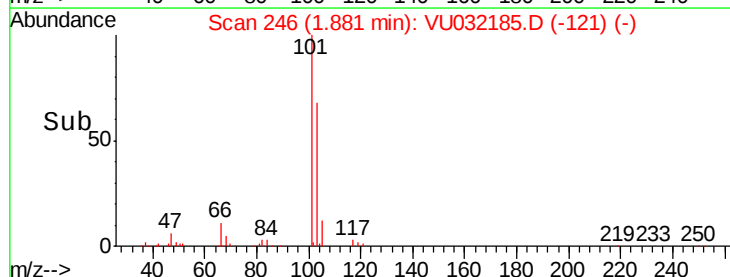
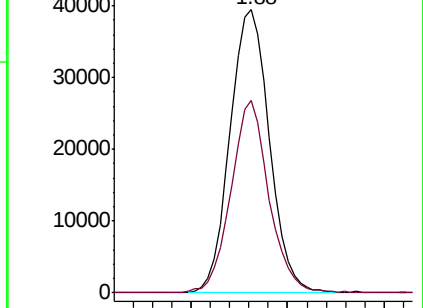
101 100

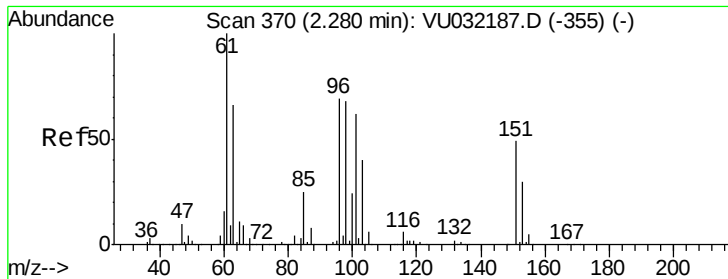
103 65.3 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032187.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032187.D (-234) (-)





#10

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

Concen: 5.465 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleID :

VSTD00551

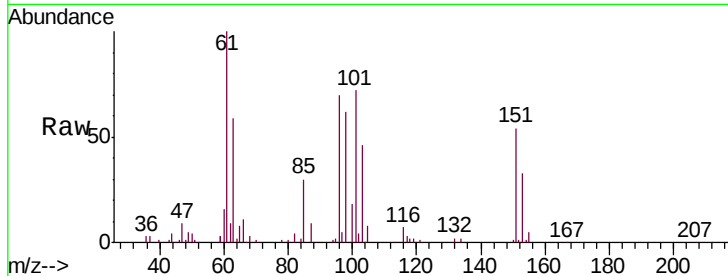
Tgt Ion:101 Resp: 34076

Ion Ratio Lower Upper

101 100

85 41.4 32.5 48.7

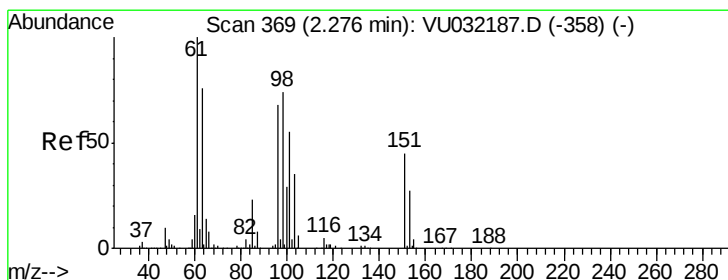
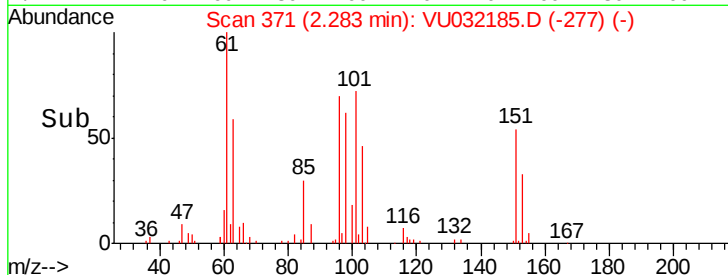
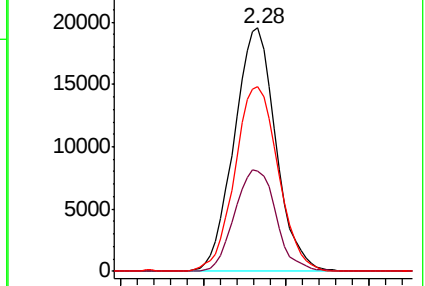
151 79.2 63.1 94.7



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: 5.182 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

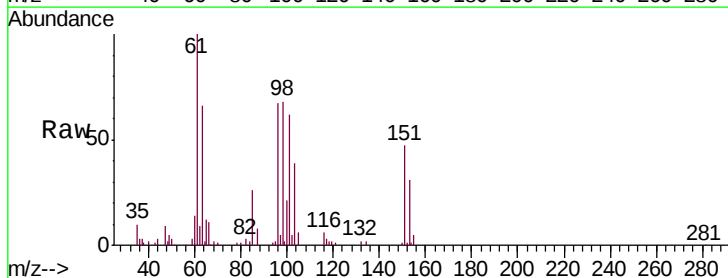
Tgt Ion: 96 Resp: 32020

Ion Ratio Lower Upper

96 100

61 148.7 103.7 192.7

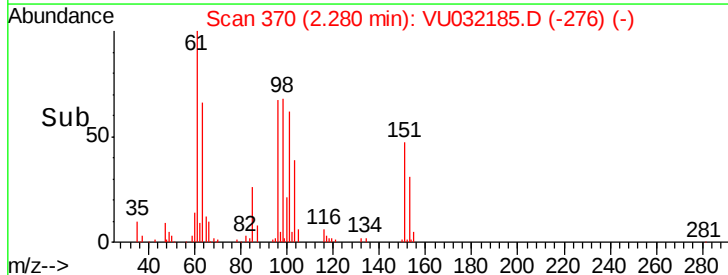
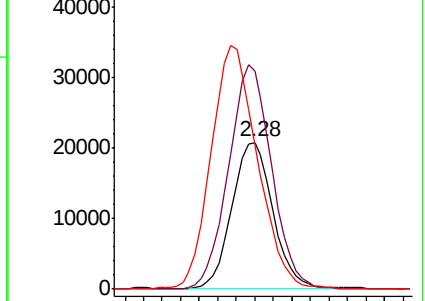
63 98.2 83.3 154.7

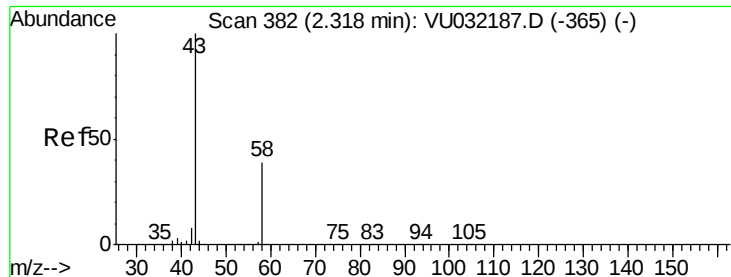


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 8.618 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampled :

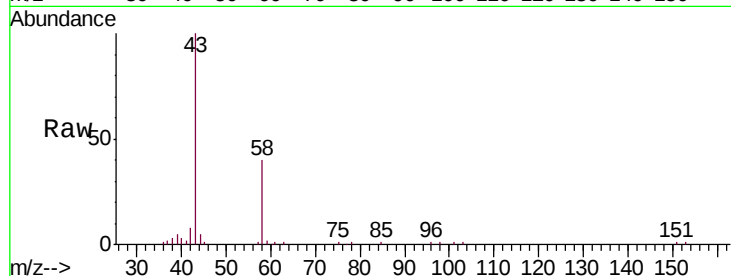
VSTD00551

Tgt Ion: 43 Resp: 43251

Ion Ratio Lower Upper

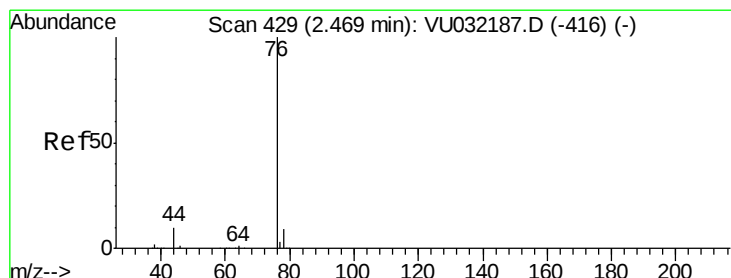
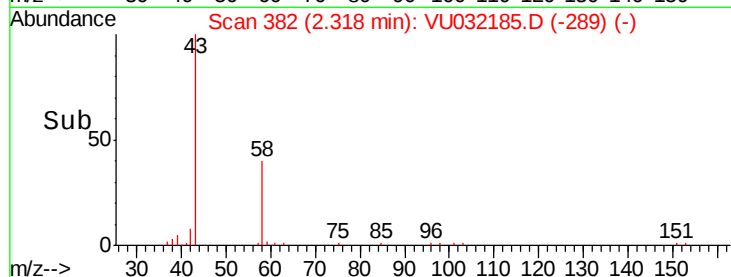
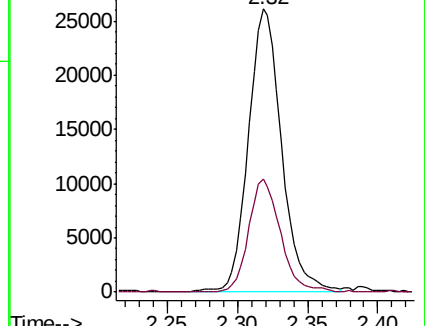
43 100

58 37.3 0.0 76.8



Abundance Ion 43.00 (42.70 to 43.70): VU032187.D (-365) (-)

Ion 58.00 (57.70 to 58.70): VU032187.D (-365) (-)



#14

Carbon disulfide

Concen: 5.045 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032185.D

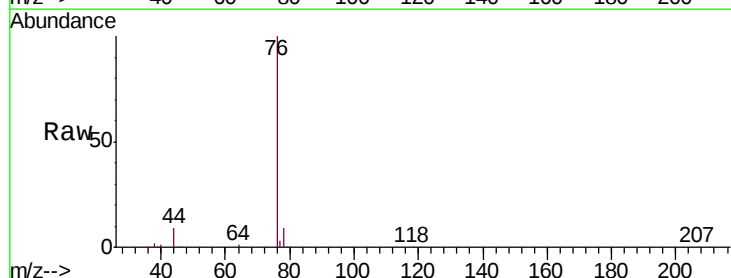
Acq: 21 May 2019 09:21

Tgt Ion: 76 Resp: 99008

Ion Ratio Lower Upper

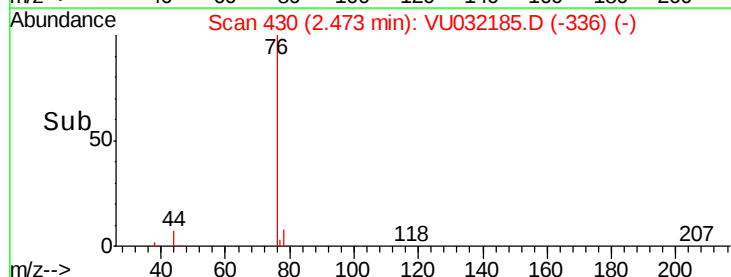
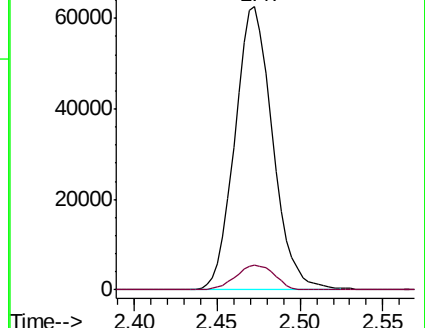
76 100

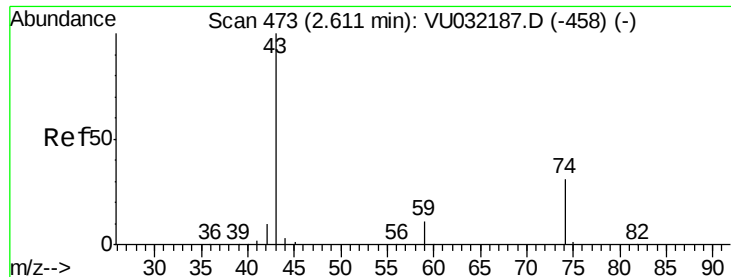
78 8.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU032187.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032187.D (-416) (-)

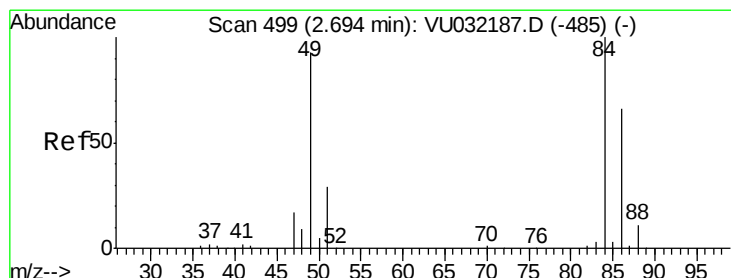
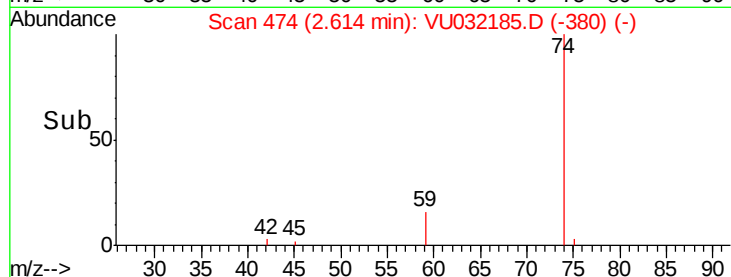
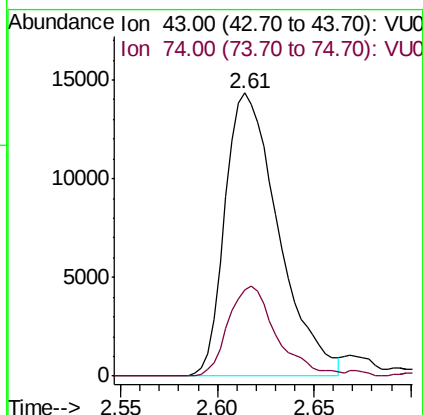
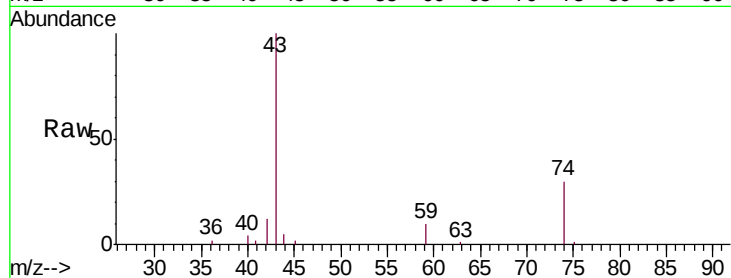




#15
Methyl Acetate
Concen: 3.652 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

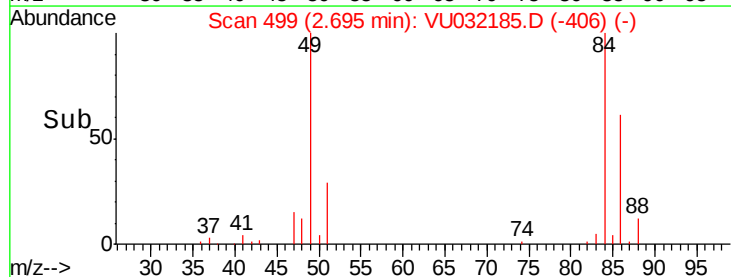
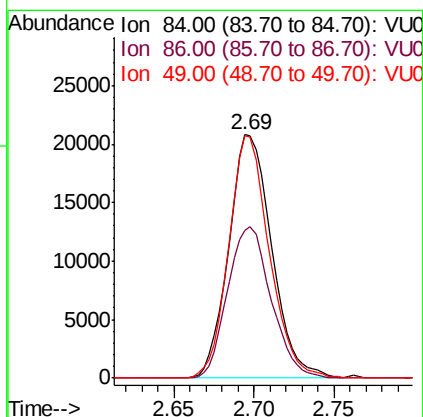
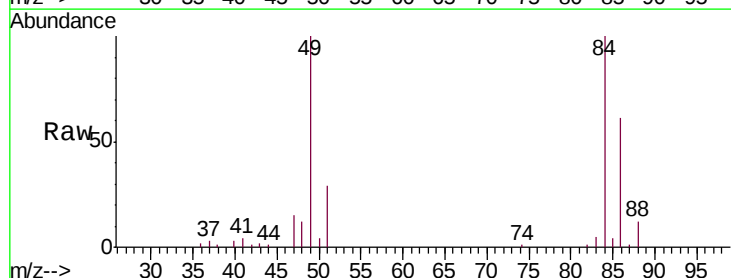
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

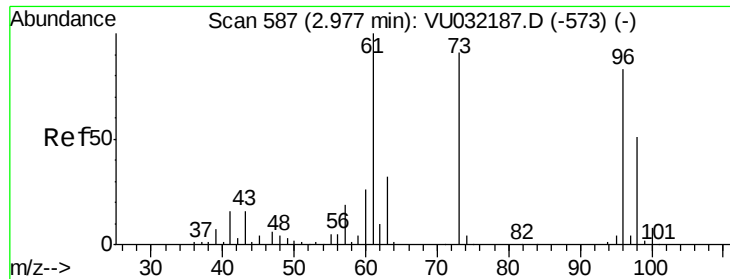
Tgt Ion: 43 Resp: 27595
Ion Ratio Lower Upper
43 100
74 28.2 25.4 38.0



#16
Methylene chloride
Concen: 5.107 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

Tgt Ion: 84 Resp: 38046
Ion Ratio Lower Upper
84 100
86 60.8 46.0 85.4
49 99.7 64.8 120.4





#17

trans-1,2-Dichloroethene

Concen: 5.123 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

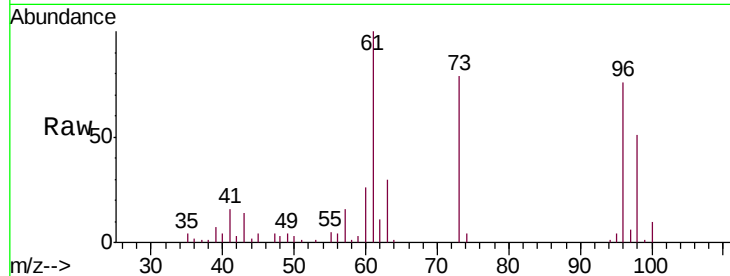
Tgt Ion: 96 Resp: 32930

Ion Ratio Lower Upper

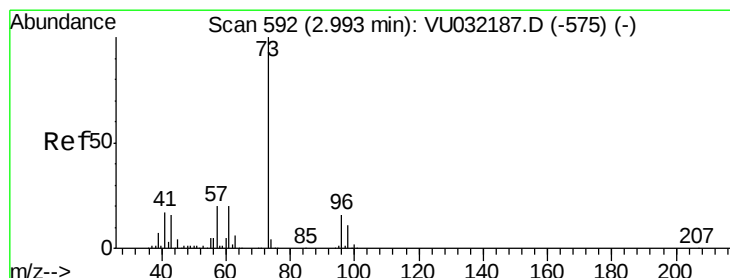
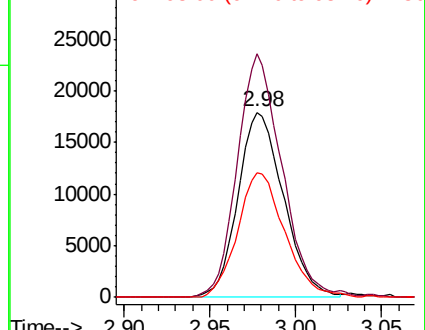
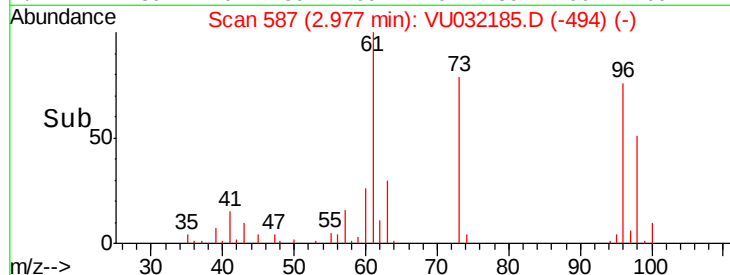
96 100

61 131.8 83.9 155.9

98 67.2 42.4 78.8



Abundance Ion 96.00 (95.70 to 96.70): VU032185.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 4.636 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

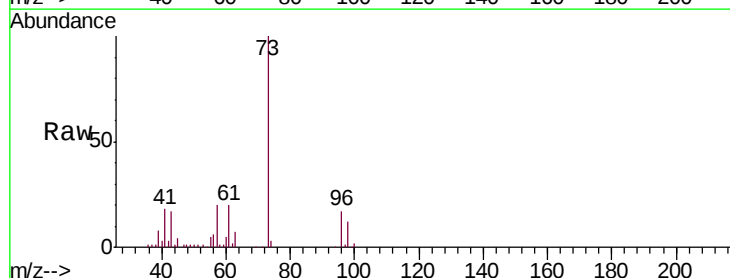
Tgt Ion: 73 Resp: 90316

Ion Ratio Lower Upper

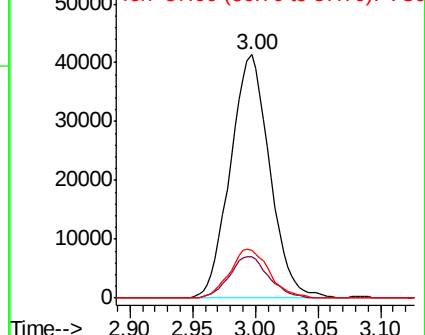
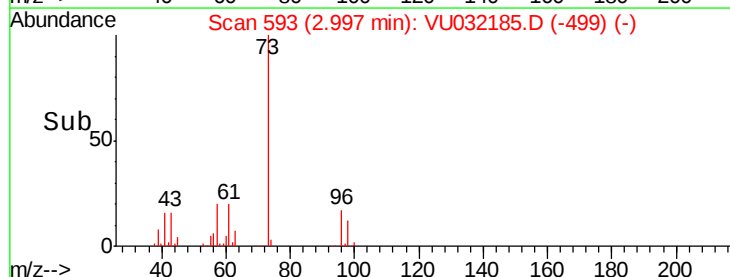
73 100

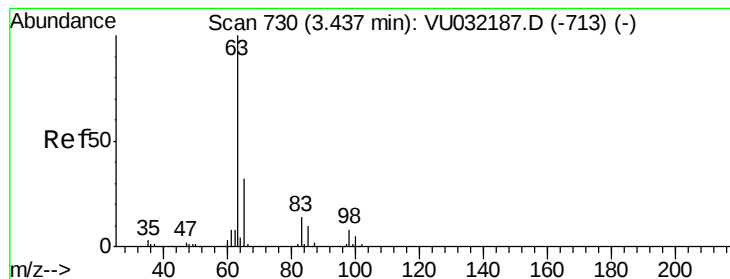
43 17.2 13.0 19.6

57 20.2 16.1 24.1



Abundance Ion 73.00 (72.70 to 73.70): VU032185.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 4.610 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

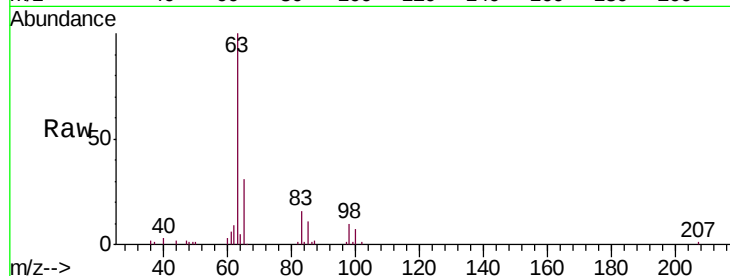
Tgt Ion: 63 Resp: 56682

Ion Ratio Lower Upper

63 100

65 30.9 22.4 41.6

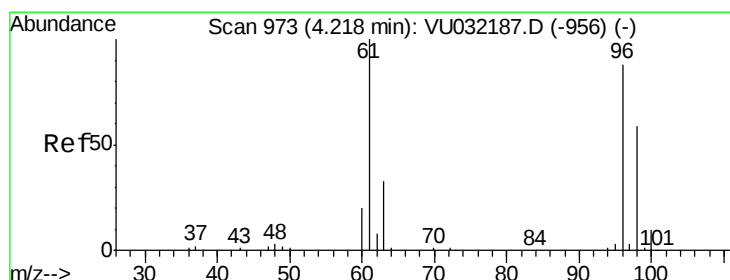
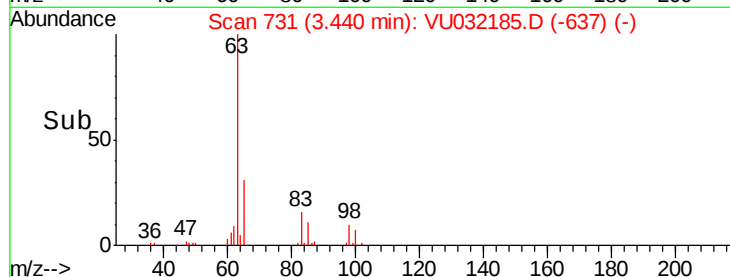
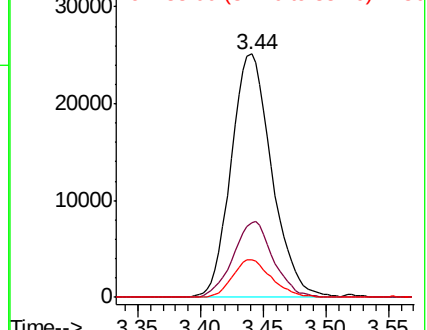
83 15.5 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU032187.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU032187.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU032187.D (-713) (-)



#20

cis-1,2-Dichloroethene

Concen: 5.064 ug/L

RT: 4.22 min Scan# 975

Delta R.T. 0.01 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

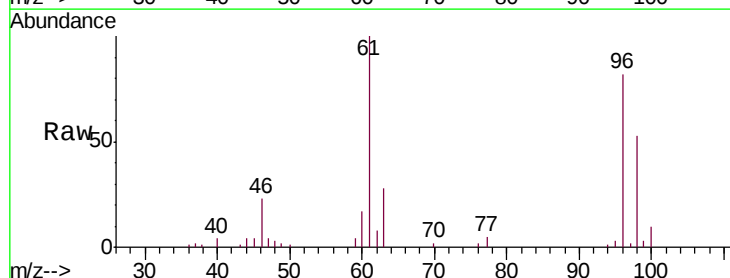
Tgt Ion: 96 Resp: 35863

Ion Ratio Lower Upper

96 100

61 121.7 79.9 148.3

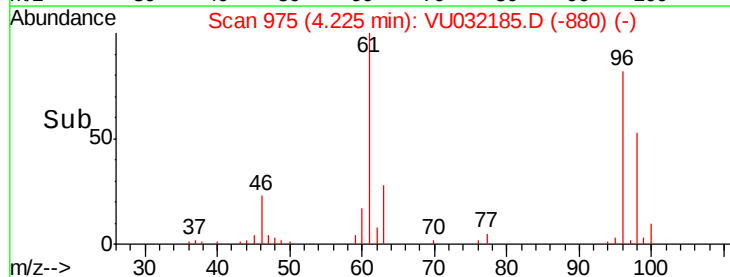
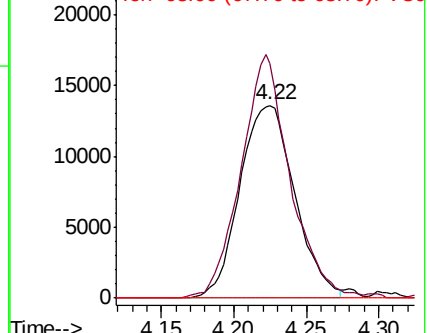
68 0.0 0.0 0.0

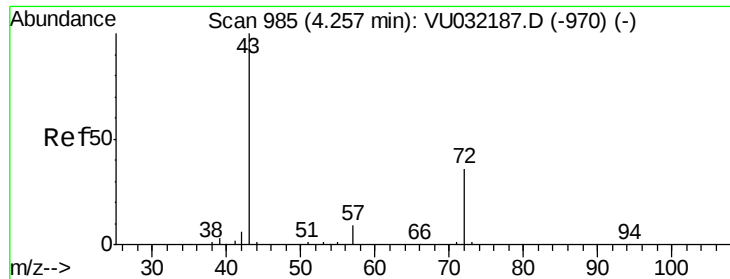


Abundance Ion 96.00 (95.70 to 96.70): VU032187.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU032187.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU032187.D (-956) (-)





#22

2-Butanone

Concen: 6.729 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.01 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

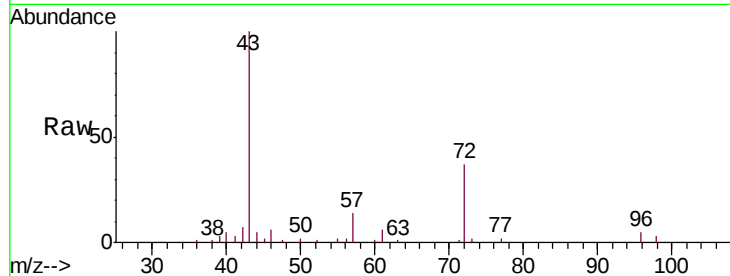
VSTD00551

Tgt Ion: 43 Resp: 38453

Ion Ratio Lower Upper

43 100

72 30.3 17.8 53.3



Abundance Ion 43.00 (42.70 to 43.70): VU032187.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU032187.D (-970) (-)

15000

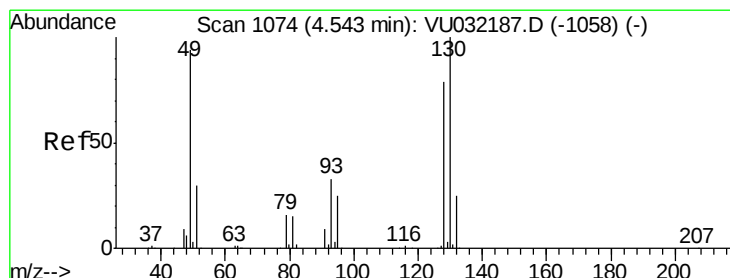
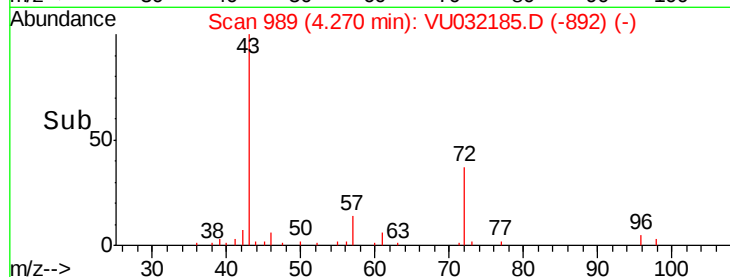
10000

5000

0

4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 5.693 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Tgt Ion: 128 Resp: 20192

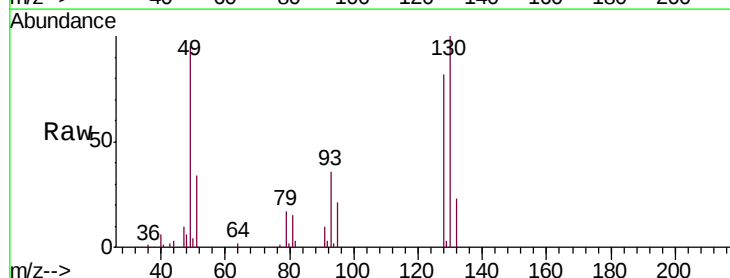
Ion Ratio Lower Upper

128 100

49 115.9 83.5 155.1

130 121.8 89.2 165.6

51 41.5 30.9 46.3



Abundance Ion 128.00 (127.70 to 128.70): VU032187.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032187.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032187.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032187.D (-1058) (-)

15000

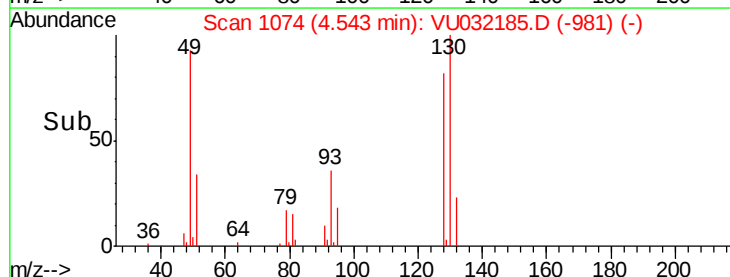
10000

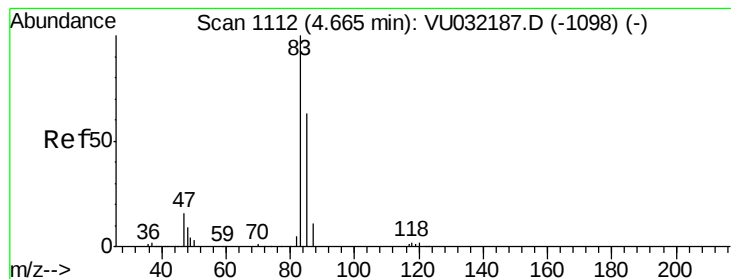
5000

0

4.50 4.55 4.60

Time-->





#25

Chloroform

Concen: 5.021 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

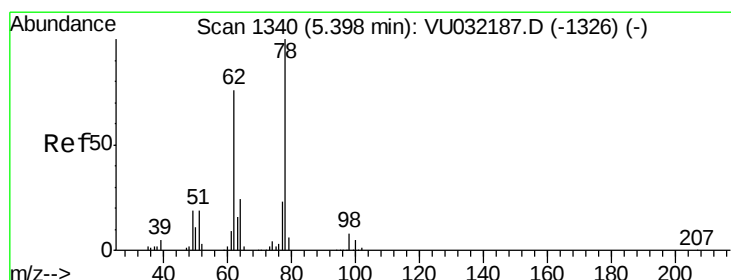
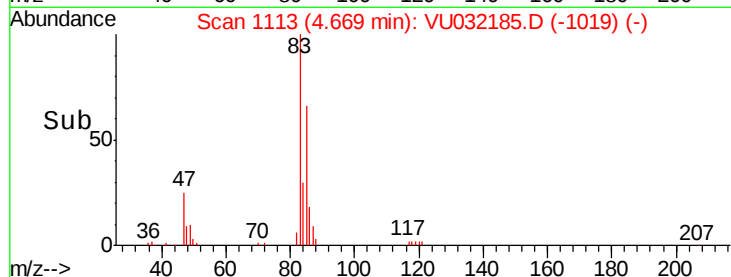
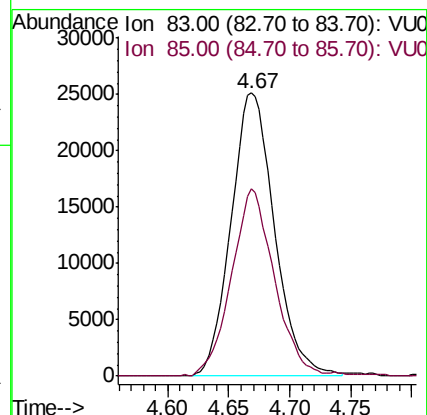
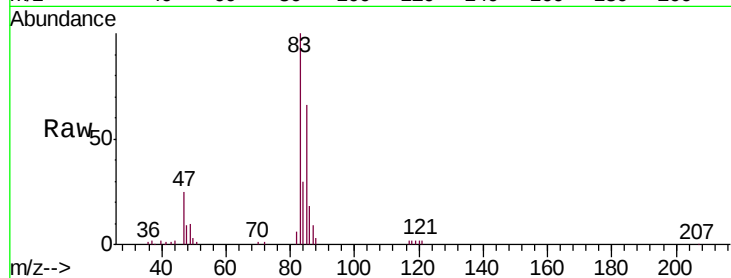
VSTD00551

Tgt Ion: 83 Resp: 62224

Ion Ratio Lower Upper

83 100

85 66.1 45.3 84.1



#27

1,2-Dichloroethane

Concen: 4.700 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU032185.D

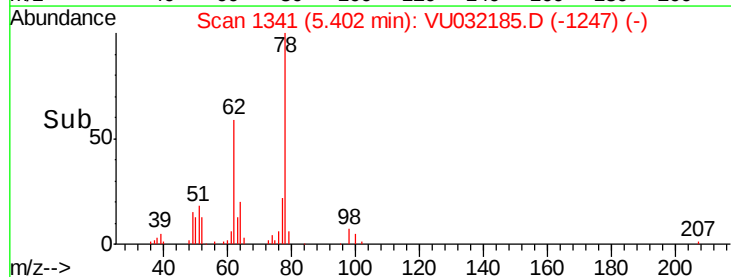
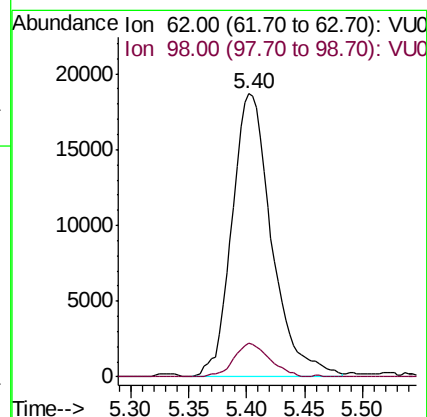
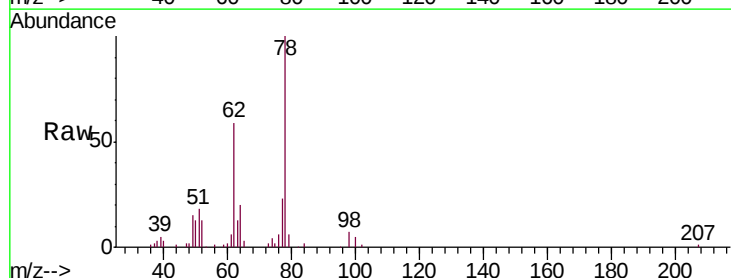
Acq: 21 May 2019 09:21

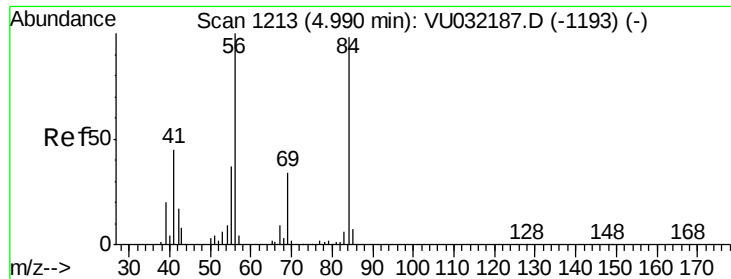
Tgt Ion: 62 Resp: 44545

Ion Ratio Lower Upper

62 100

98 11.8 8.2 12.2

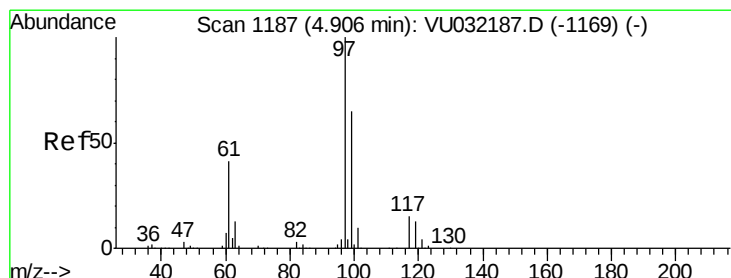
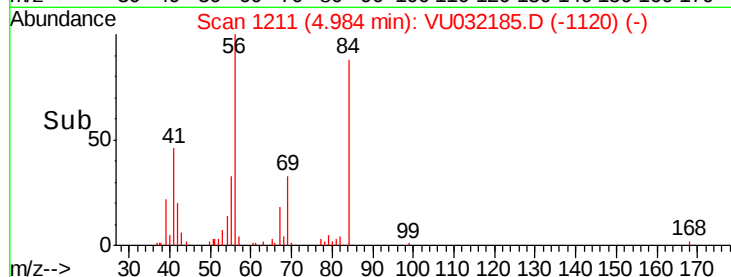
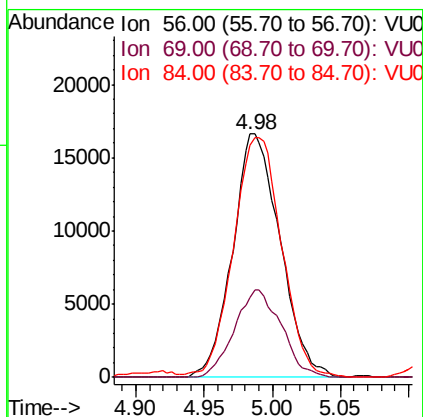
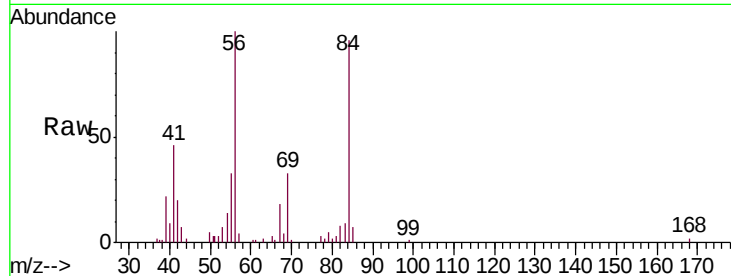




#29
Cyclohexane
Concen: 3.977 ug/L
RT: 4.98 min Scan# 1211
Delta R.T. -0.01 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

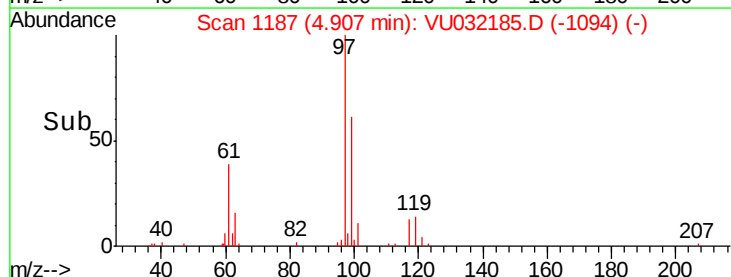
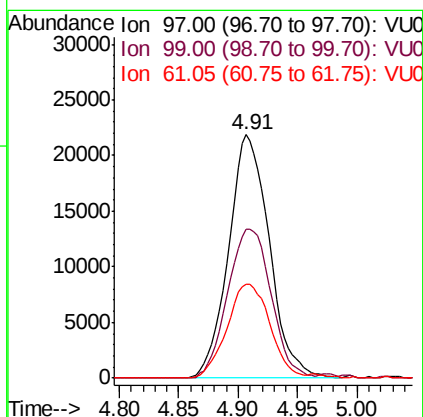
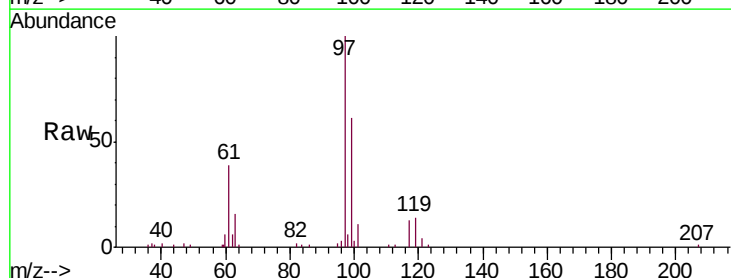
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

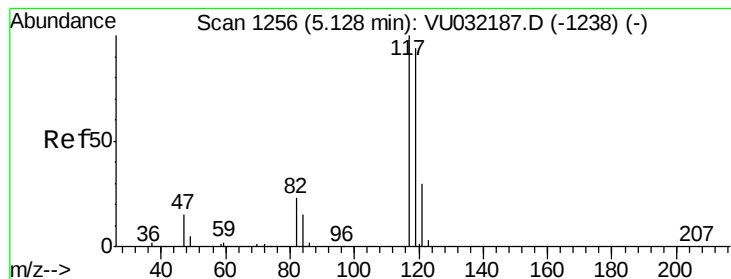
Tgt Ion: 56 Resp: 40111
Ion Ratio Lower Upper
56 100
69 35.6 27.6 41.4
84 100.7 79.3 118.9



#30
1,1,1-Trichloroethane
Concen: 5.227 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

Tgt Ion: 97 Resp: 51834
Ion Ratio Lower Upper
97 100
99 65.4 51.4 77.2
61 40.8 33.4 50.0





#31

Carbon tetrachloride

Concen: 5.501 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

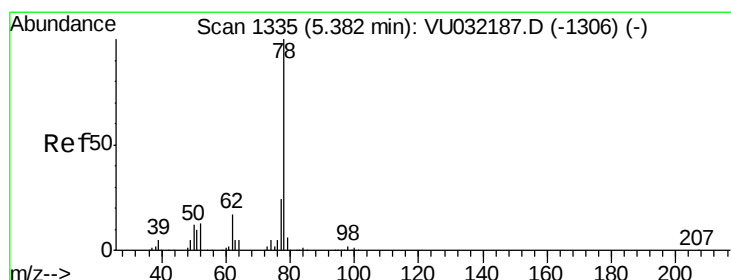
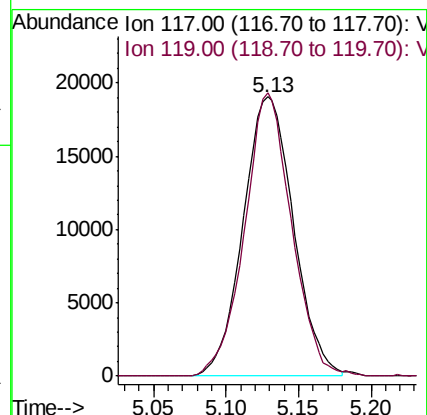
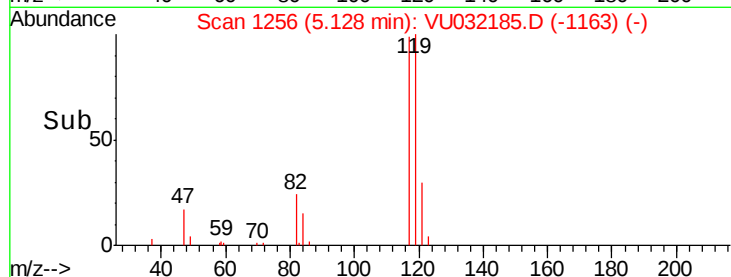
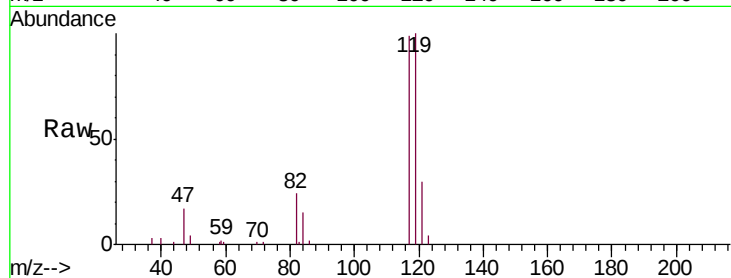
VSTD00551

Tgt Ion:117 Resp: 46050

Ion Ratio Lower Upper

117 100

119 94.3 75.4 113.2



#33

Benzene

Concen: 4.813 ug/L

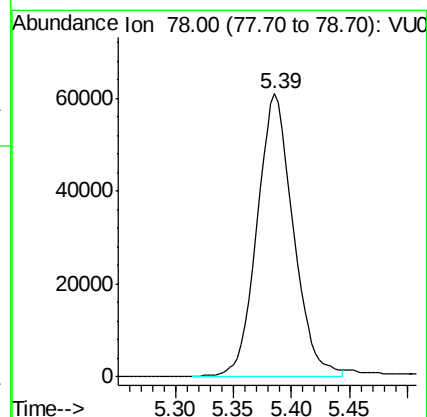
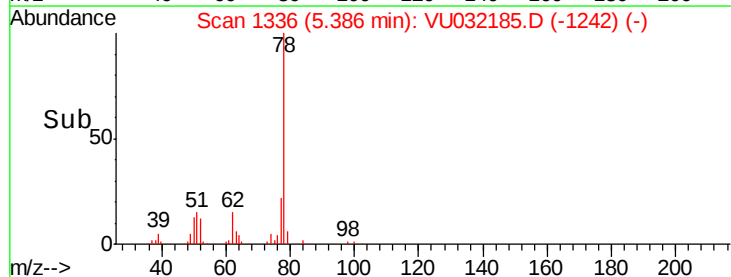
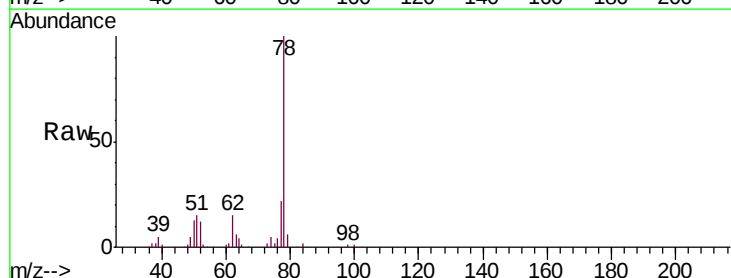
RT: 5.39 min Scan# 1336

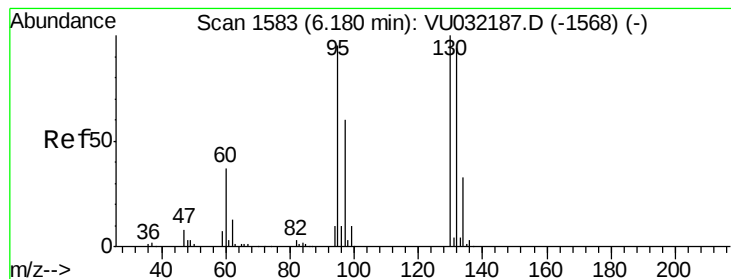
Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Tgt Ion: 78 Resp: 132550





#34

Trichloroethene

Concen: 5.366 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tgt Ion: 95 Resp: 37178

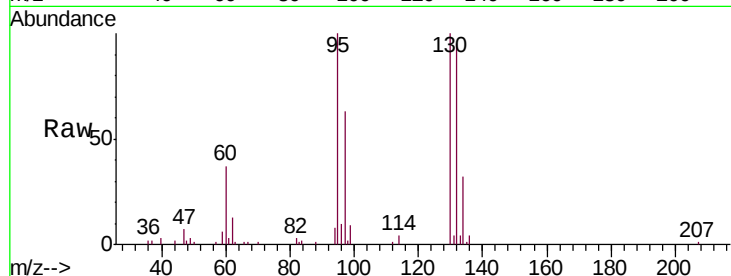
Ion Ratio Lower Upper

95 100

97 62.8 44.5 82.7

132 95.2 69.4 129.0

130 100.0 73.8 137.0

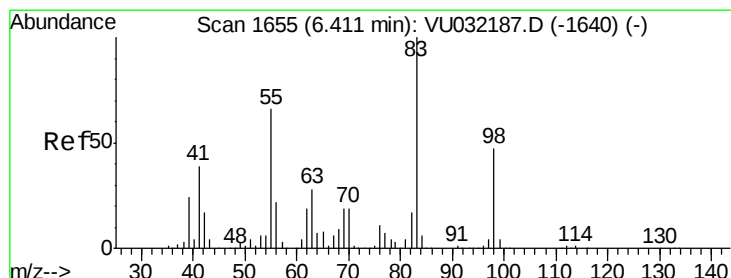
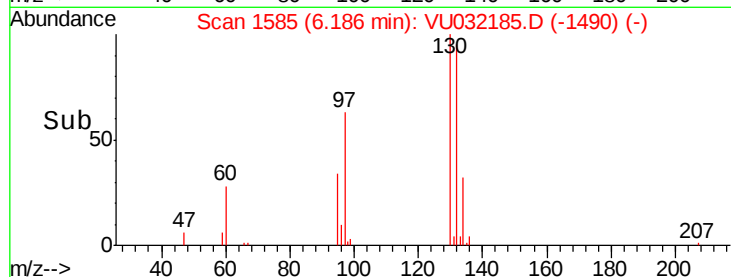
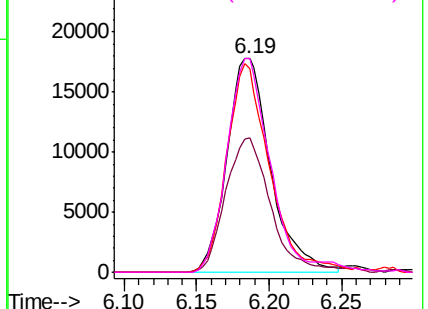


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.720 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

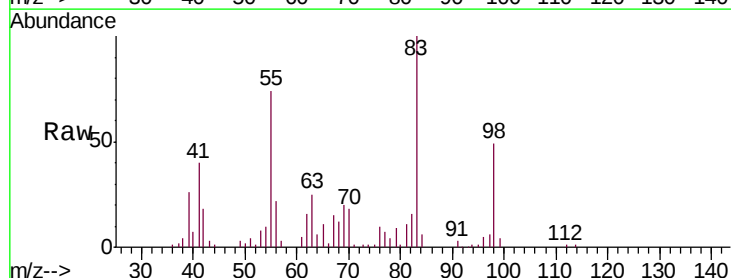
Tgt Ion: 83 Resp: 49797

Ion Ratio Lower Upper

83 100

55 73.0 53.8 80.8

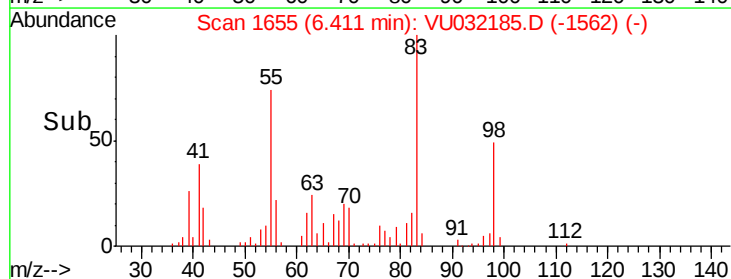
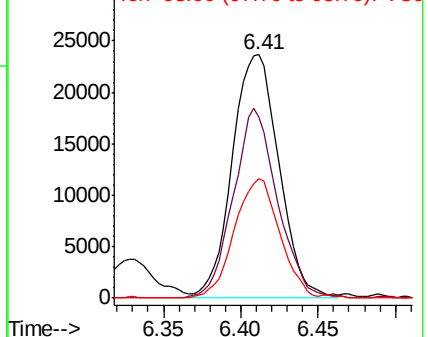
98 47.4 38.4 57.6

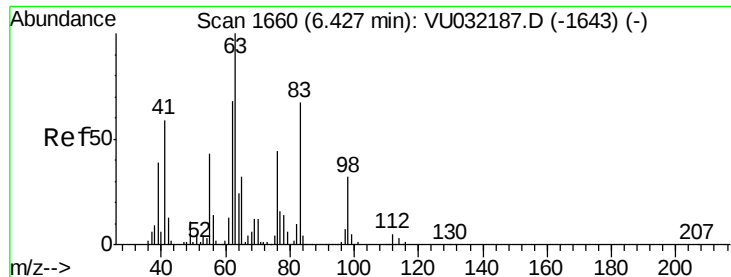


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 4.596 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

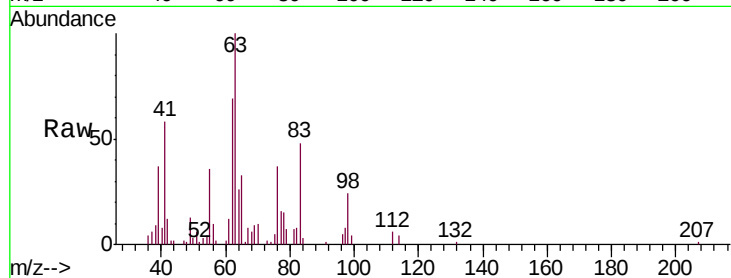
VSTD00551

Tgt Ion: 63 Resp: 33468

Ion Ratio Lower Upper

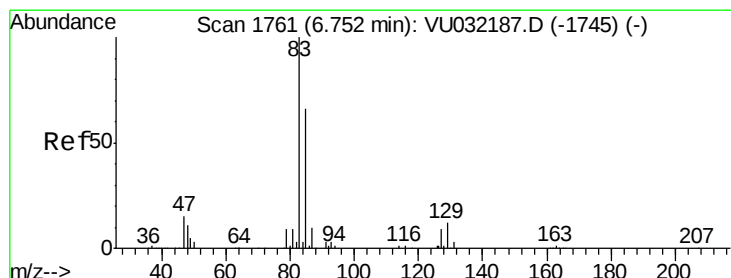
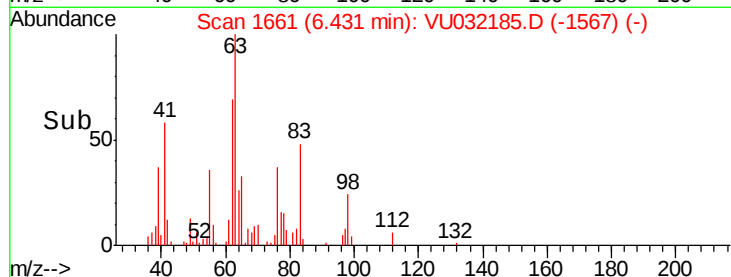
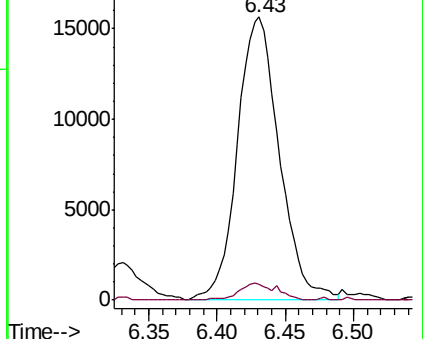
63 100

112 4.0 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 4.914 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

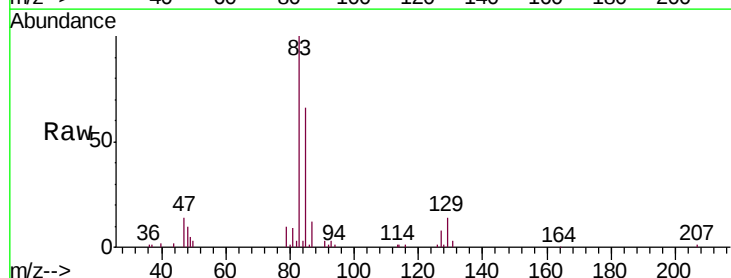
Tgt Ion: 83 Resp: 44882

Ion Ratio Lower Upper

83 100

85 66.0 46.0 85.4

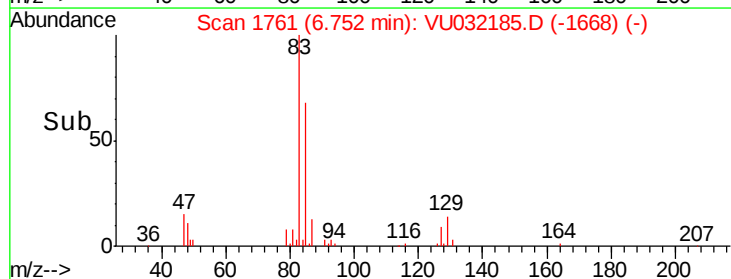
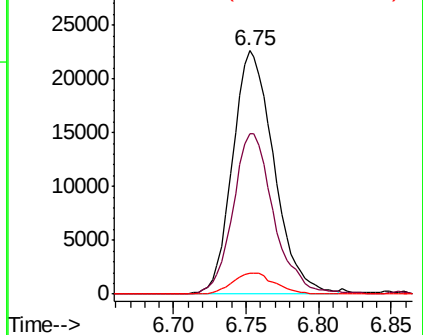
127 8.4 7.5 11.3

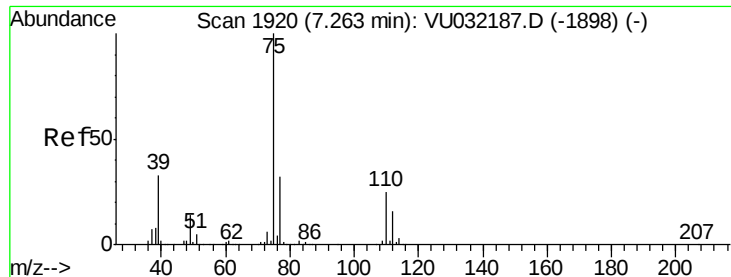


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

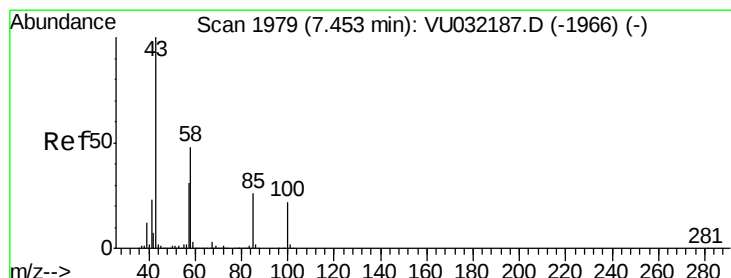
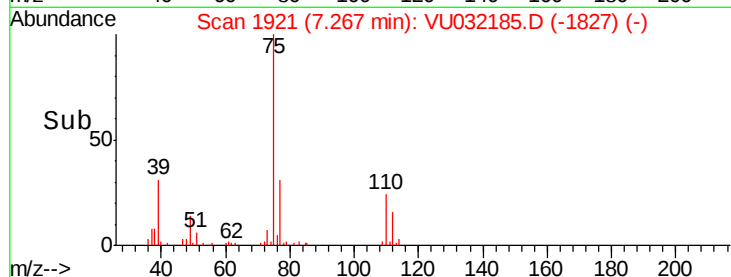
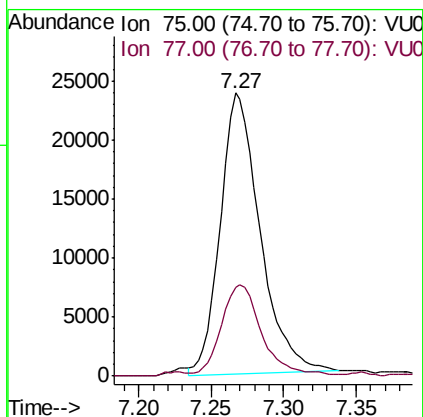
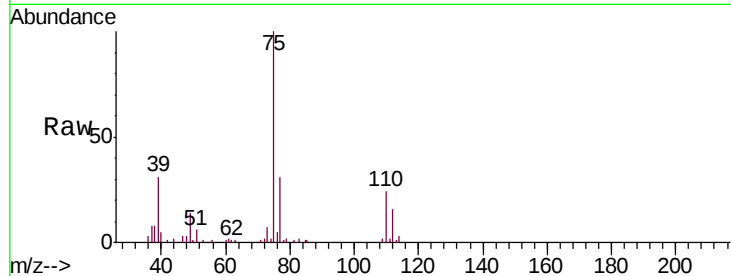




#39
 cis-1,3-Dichloropropene
 Concen: 4.319 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

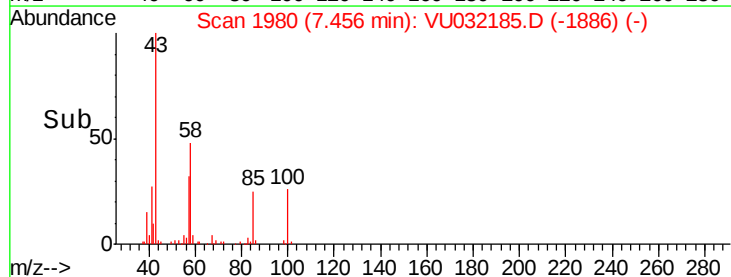
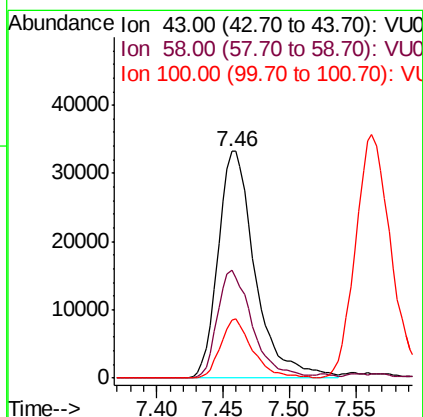
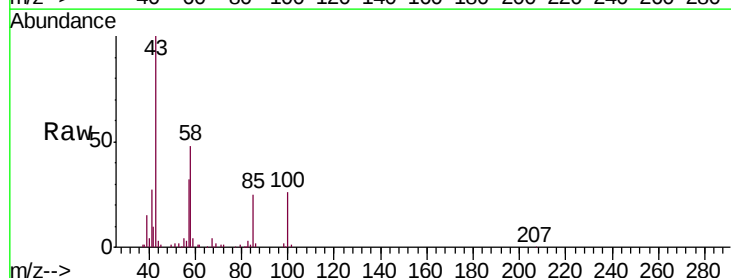
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00551

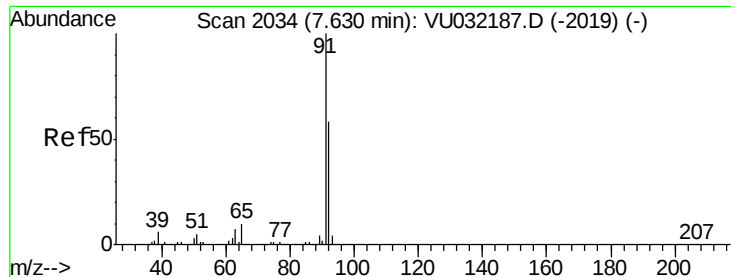
Tgt Ion: 75 Resp: 45269
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 6.724 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Tgt Ion: 43 Resp: 64608
 Ion Ratio Lower Upper
 43 100
 58 44.7 38.6 58.0
 100 22.0 17.9 26.9





#42

Toluene

Concen: 4.819 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

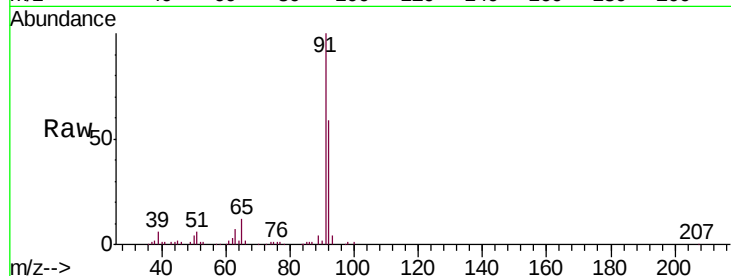
VSTD00551

Tgt Ion: 91 Resp: 137764

Ion Ratio Lower Upper

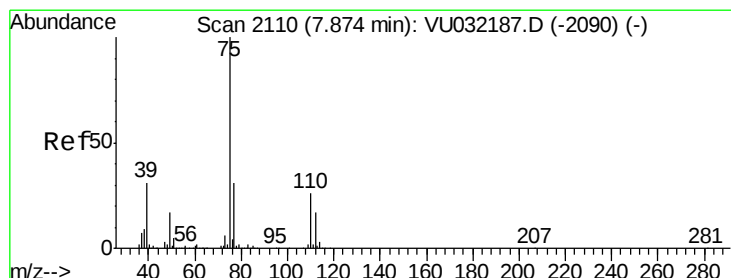
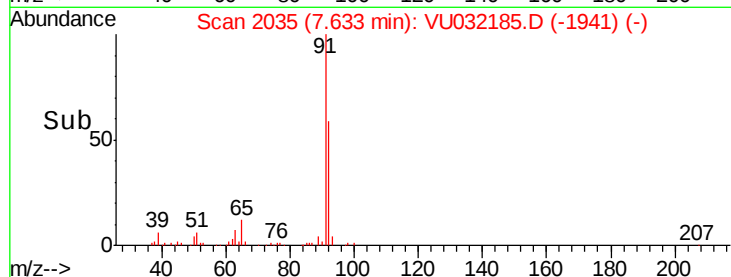
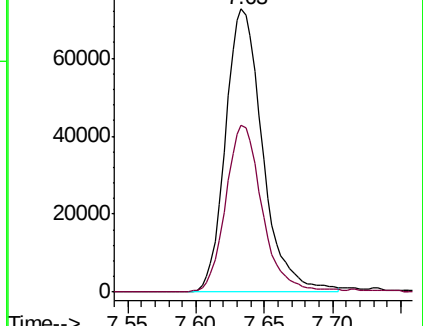
91 100

92 58.9 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU032187.D (-2019) (-)

Ion 92.00 (91.70 to 92.70): VU032185.D (-2017) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.550 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU032185.D

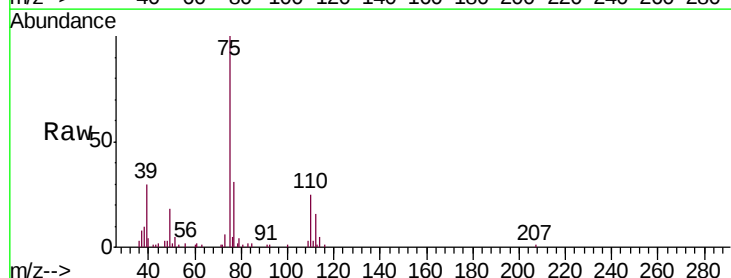
Acq: 21 May 2019 09:21

Tgt Ion: 75 Resp: 42004

Ion Ratio Lower Upper

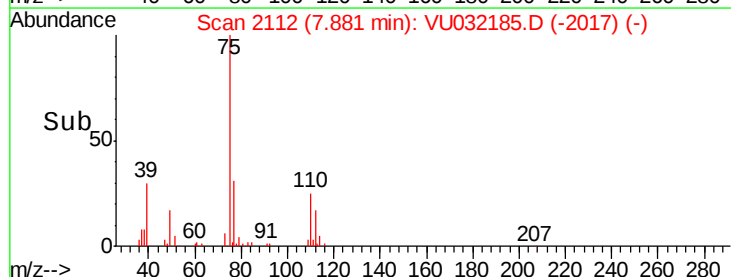
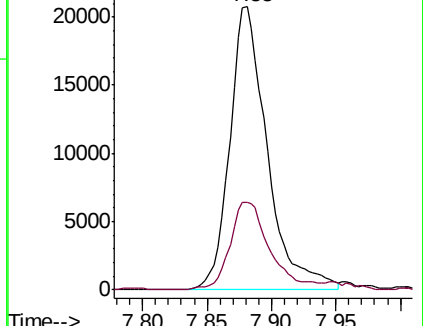
75 100

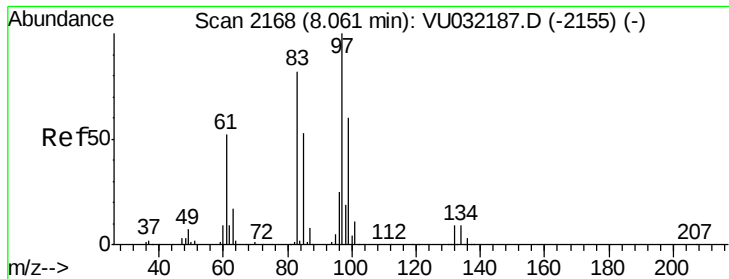
77 30.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032187.D (-2090) (-)

Ion 77.00 (76.70 to 77.70): VU032185.D (-2017) (-)

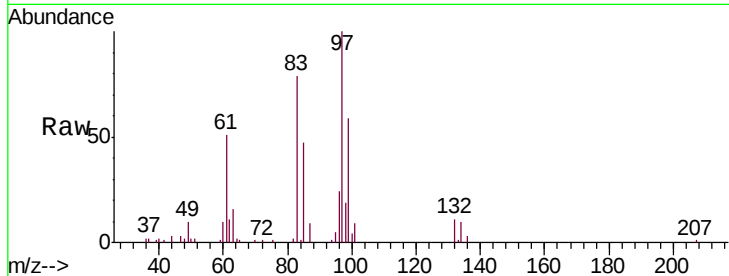




#45
 1,1,2-Trichloroethane
 Concen: 5.202 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion:	97	Resp:	35922
Ion	Ratio	Lower	Upper
97	100		
99	59.2	41.8	77.6
83	79.4	57.3	106.3
85	46.8	37.2	69.2



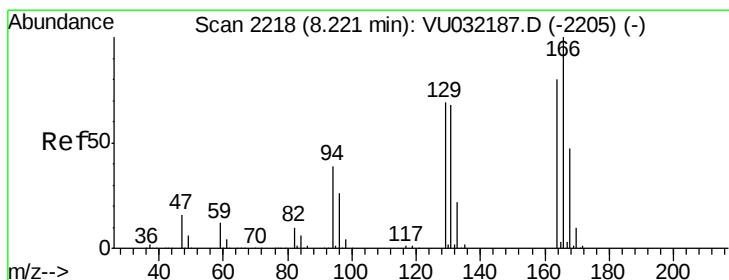
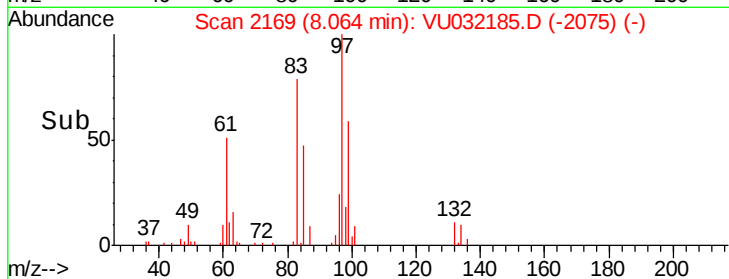
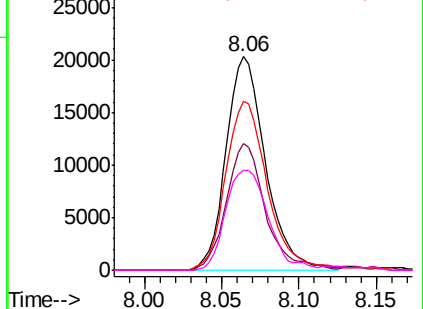
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

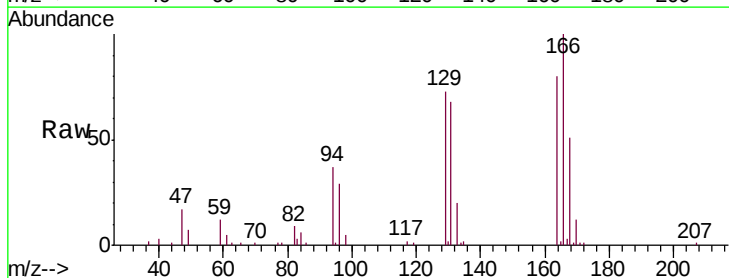
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 5.769 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Tgt Ion:	164	Resp:	29147
Ion	Ratio	Lower	Upper
164	100		
129	92.1	60.8	113.0
131	85.5	59.7	110.9
166	125.3	87.6	162.6



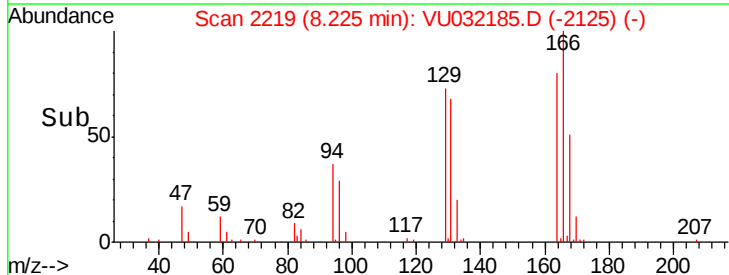
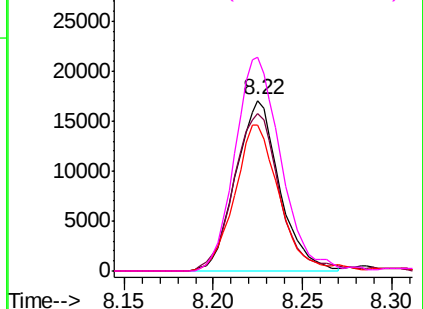
Abundance

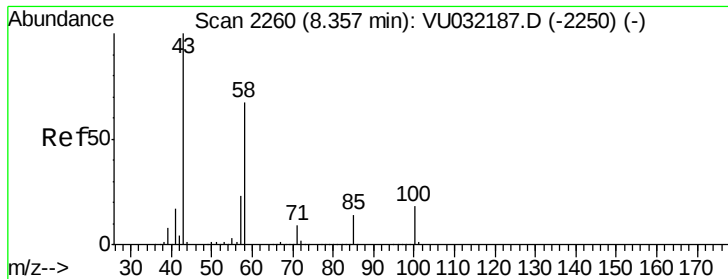
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

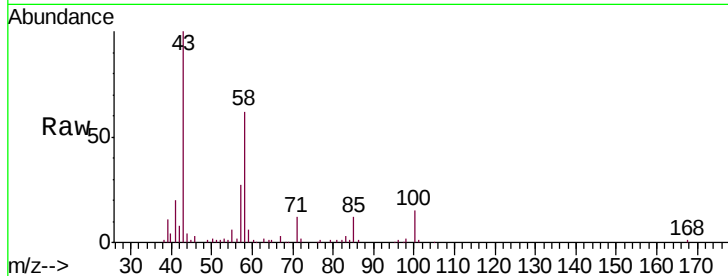




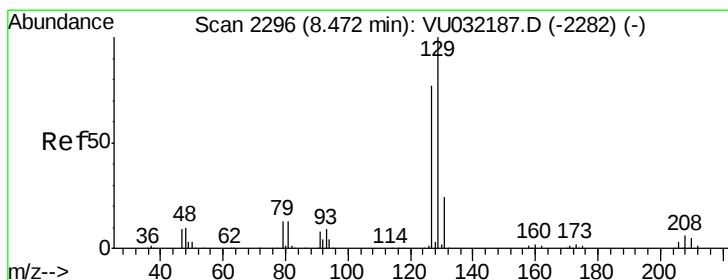
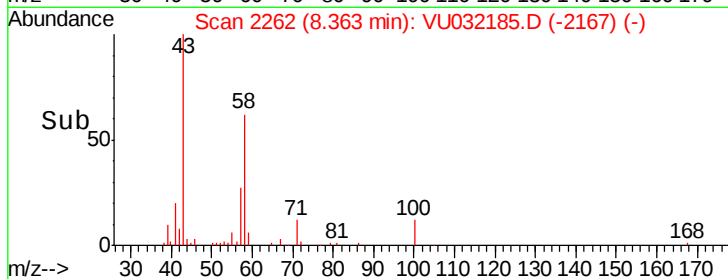
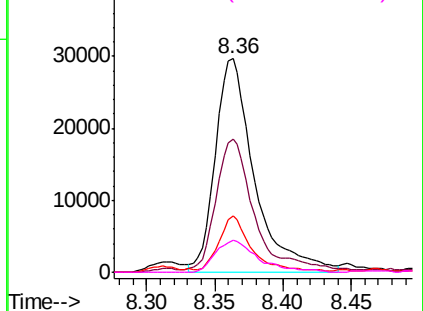
#48
2-Hexanone
Concen: 7.565 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Tgt Ion: 43 Resp: 59117
Ion Ratio Lower Upper
43 100
58 53.6 54.1 81.1#
57 20.2 19.4 29.0
100 15.8 13.6 20.4

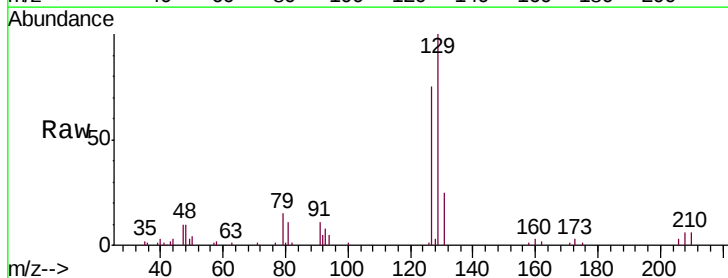


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

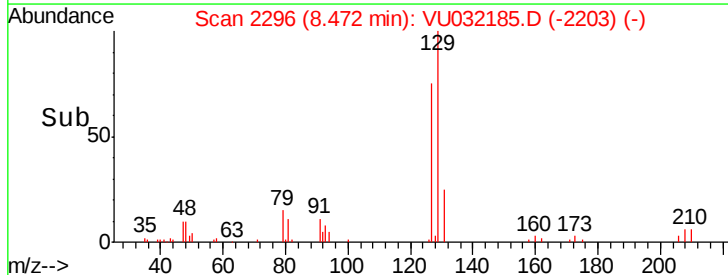
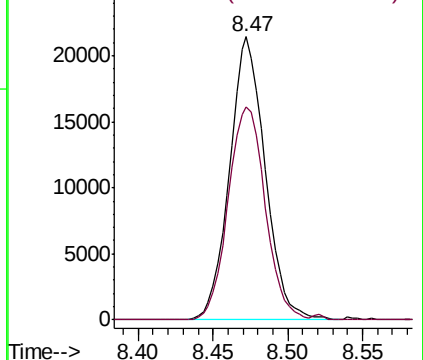


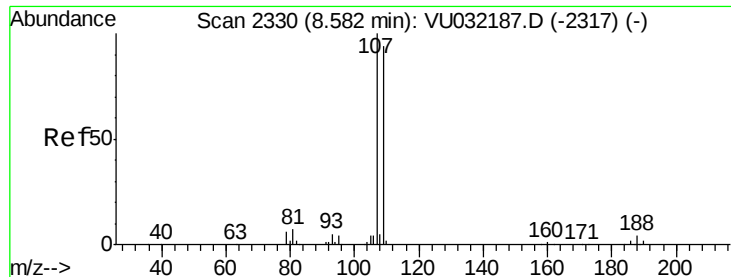
#49
Dibromochloromethane
Concen: 5.056 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

Tgt Ion: 129 Resp: 35509
Ion Ratio Lower Upper
129 100
127 75.3 53.6 99.6



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

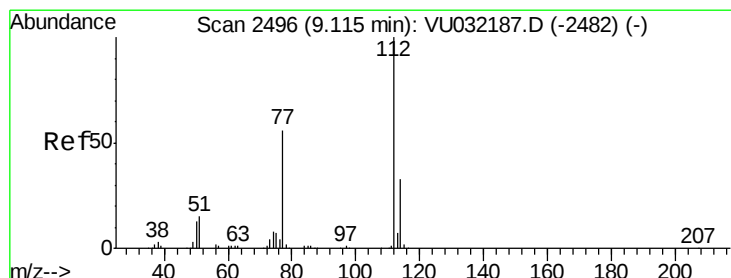
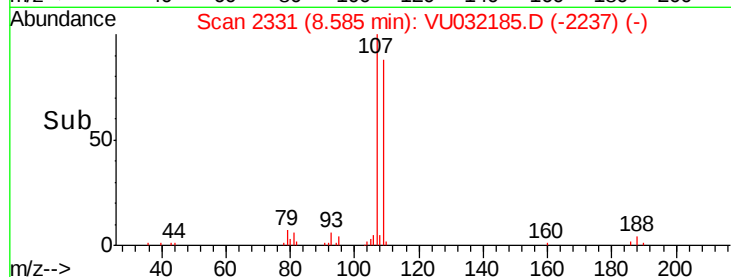
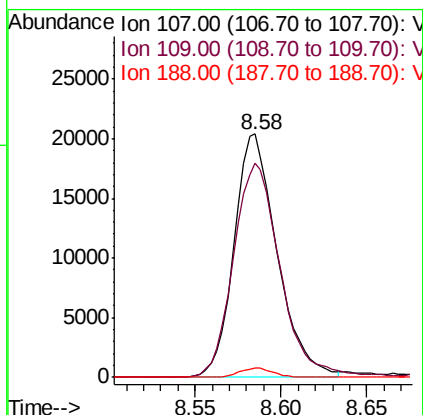
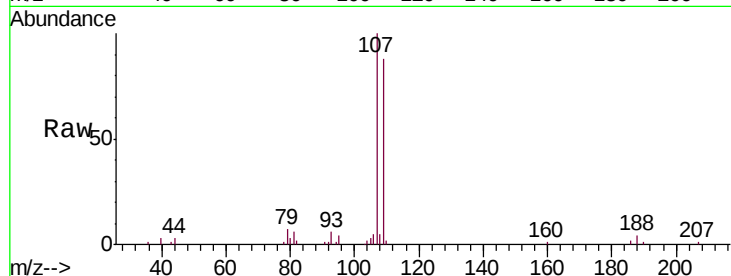




#50
1,2-Dibromoethane
Concen: 4.874 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

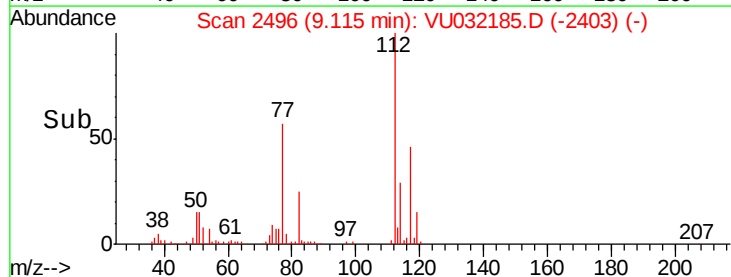
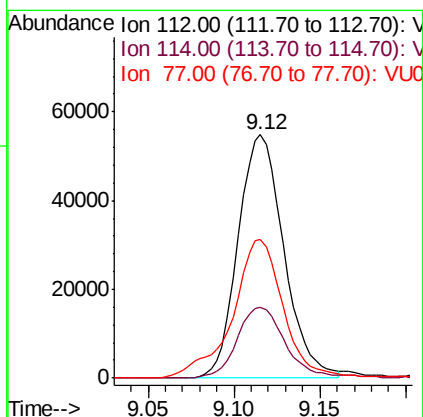
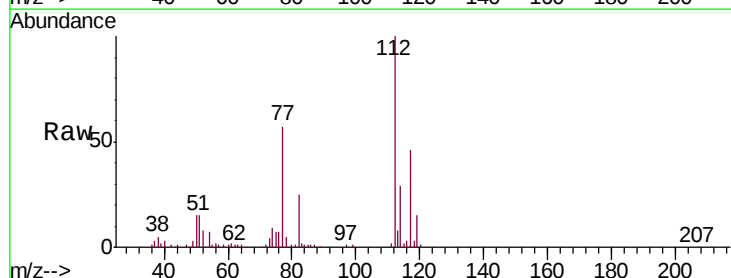
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

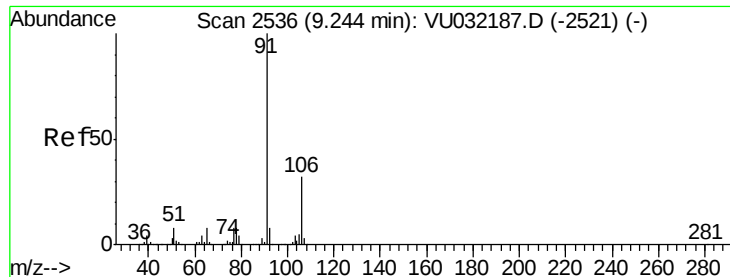
Tgt Ion:107 Resp: 35654
Ion Ratio Lower Upper
107 100
109 87.7 65.7 122.1
188 3.6 3.1 4.7



#51
Chlorobenzene
Concen: 5.502 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032185.D
Acq: 21 May 2019 09:21

Tgt Ion:112 Resp: 101197
Ion Ratio Lower Upper
112 100
114 29.3 23.1 42.9
77 56.9 44.9 67.3





#52

Ethylbenzene

Concen: 4.719 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

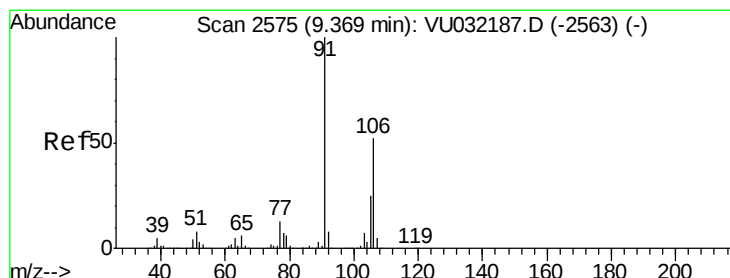
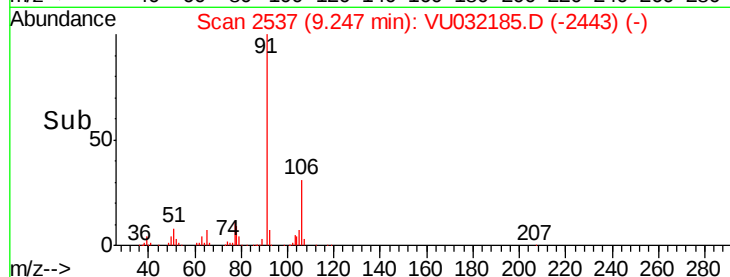
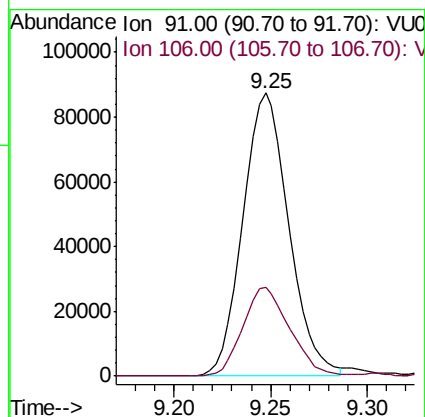
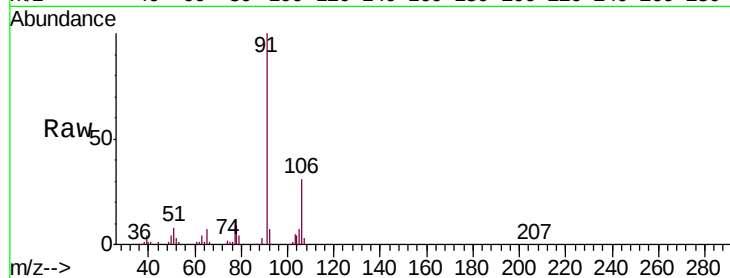
VSTD00551

Tgt Ion: 91 Resp: 144643

Ion Ratio Lower Upper

91 100

106 31.5 22.5 41.9



#53

m,p-Xylene

Concen: 5.098 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032185.D

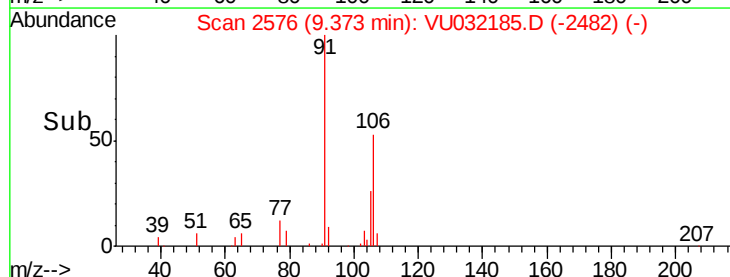
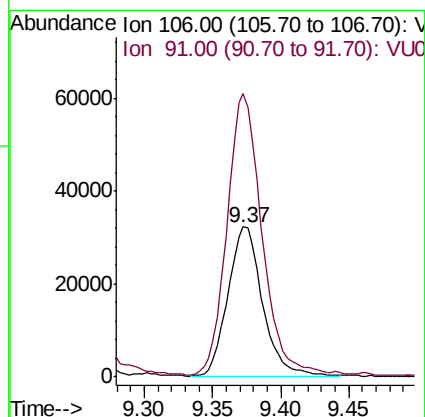
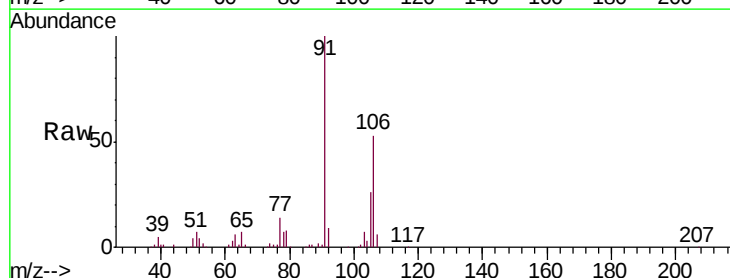
Acq: 21 May 2019 09:21

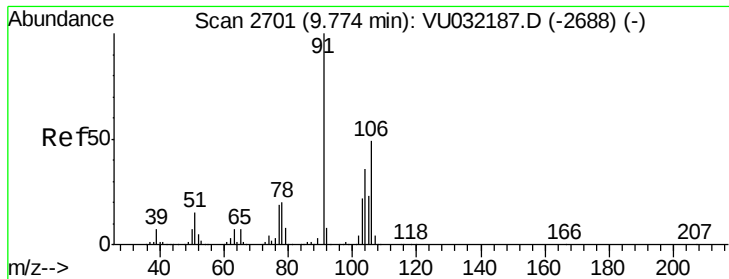
Tgt Ion: 106 Resp: 57600

Ion Ratio Lower Upper

106 100

91 189.1 136.2 252.9





#54

o-xylene

Concen: 4.809 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

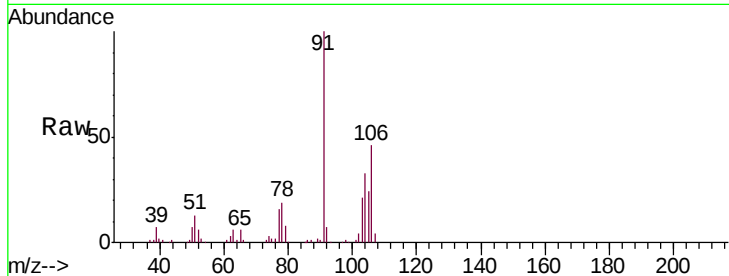
VSTD00551

Tgt Ion:106 Resp: 53907

Ion Ratio Lower Upper

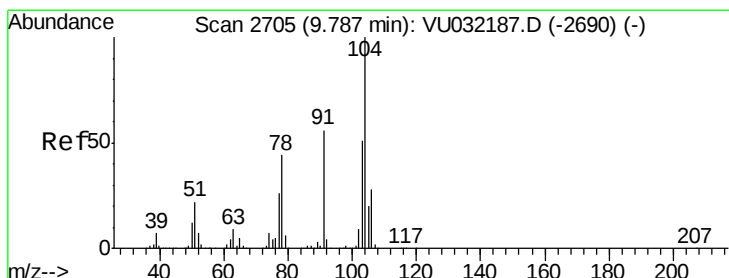
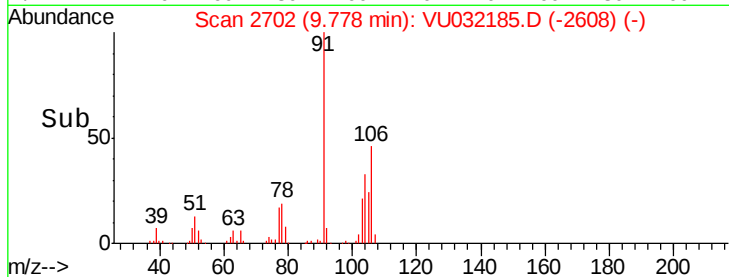
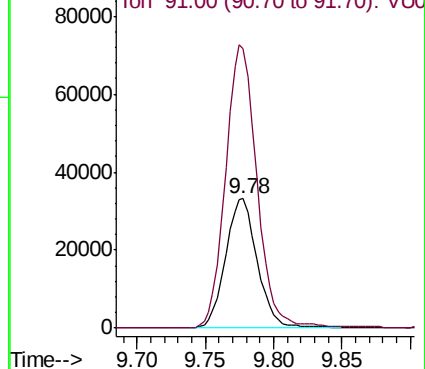
106 100

91 216.4 143.1 265.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.592 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU032185.D

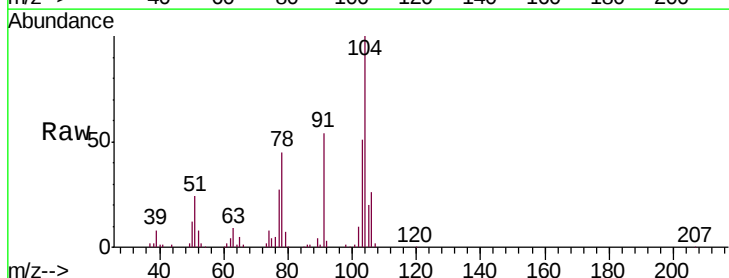
Acq: 21 May 2019 09:21

Tgt Ion:104 Resp: 88177

Ion Ratio Lower Upper

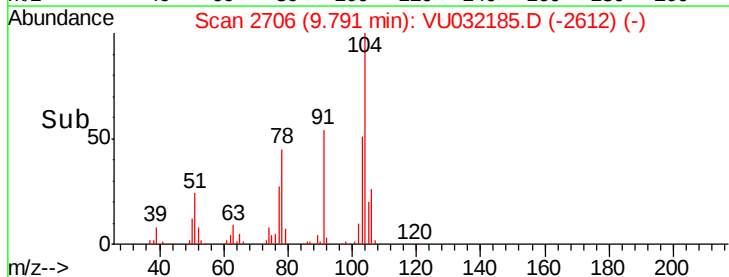
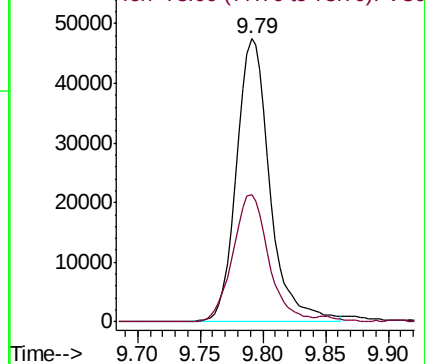
104 100

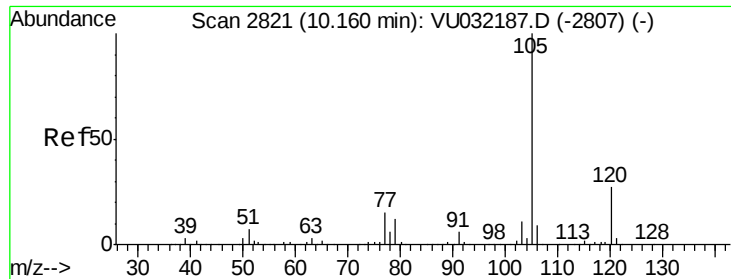
78 45.1 31.0 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.955 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

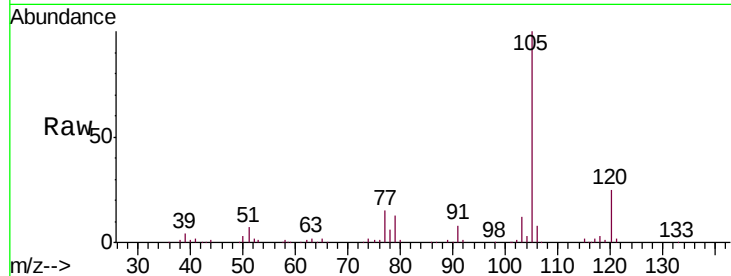
Tgt Ion: 105 Resp: 142060

Ion Ratio Lower Upper

105 100

120 26.1 21.3 31.9

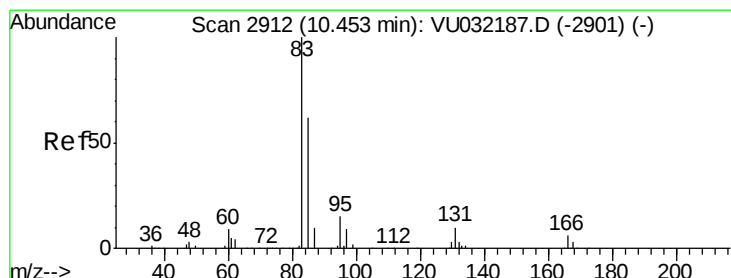
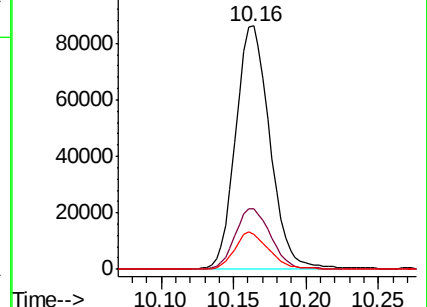
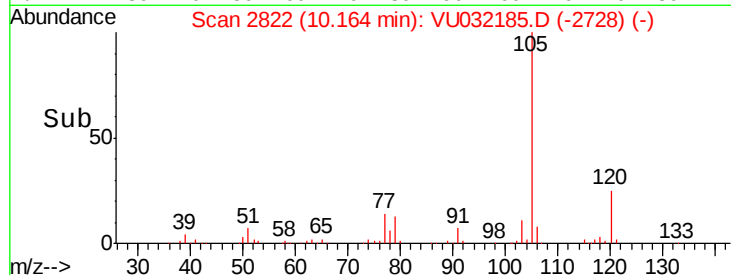
77 15.4 11.7 17.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.641 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

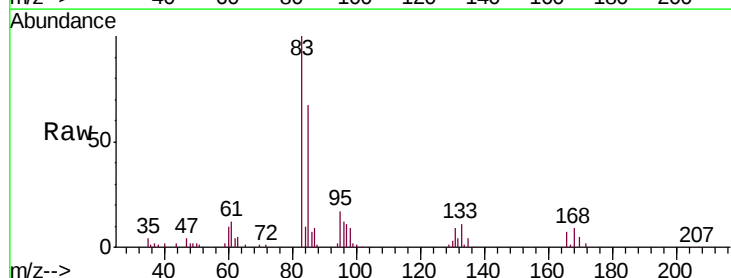
Tgt Ion: 83 Resp: 57000

Ion Ratio Lower Upper

83 100

85 66.9 44.1 81.9

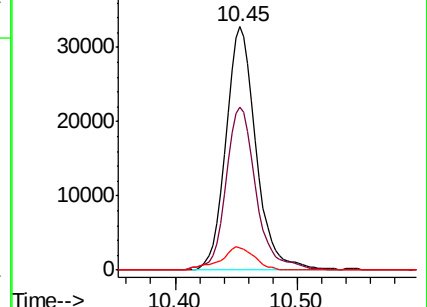
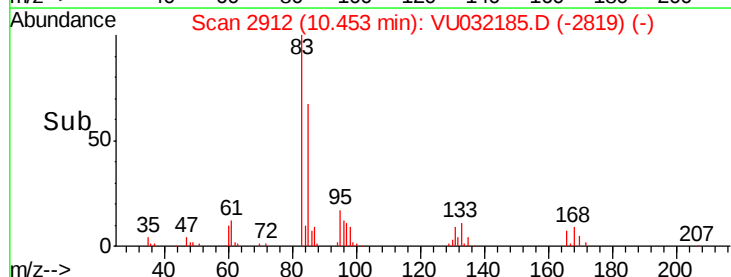
131 9.3 8.6 12.8

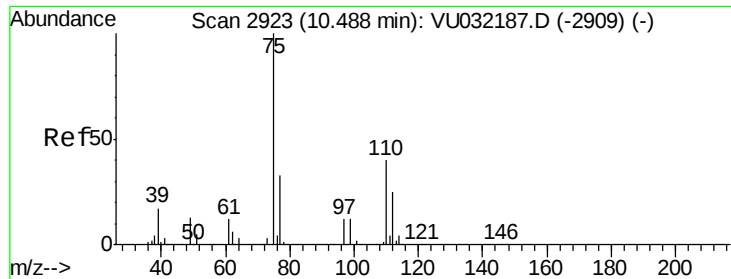


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

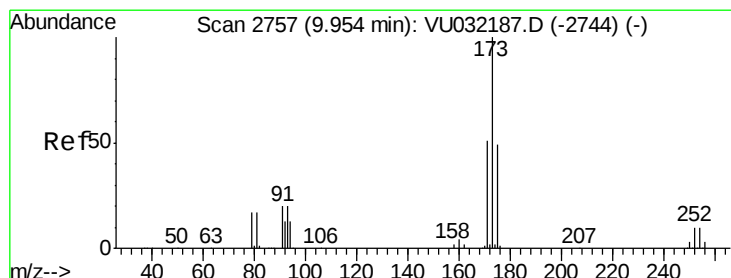
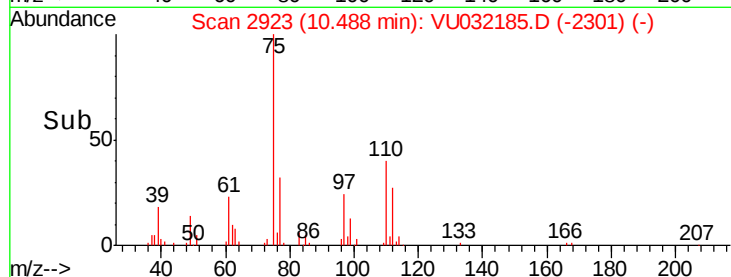
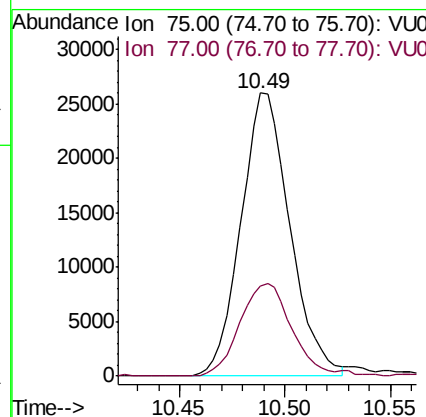
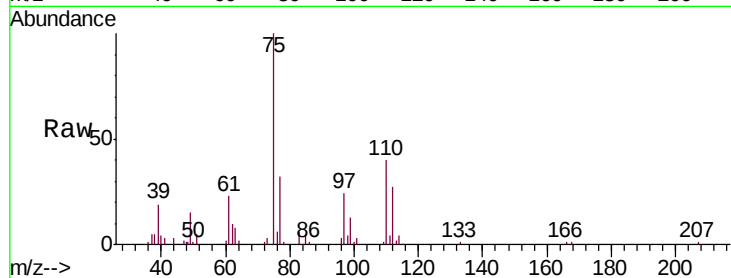




#59
 1,2,3-Trichloropropane
 Concen: 4.360 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

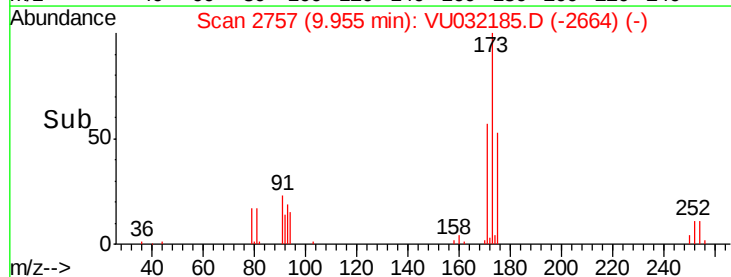
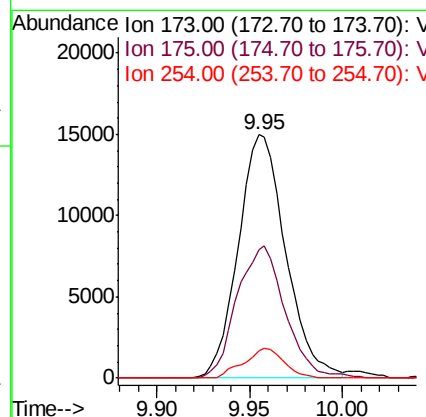
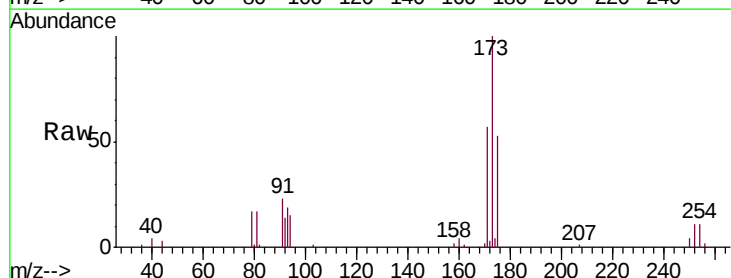
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

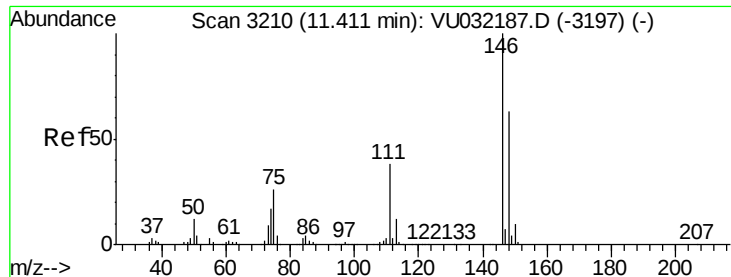
Tgt Ion: 75 Resp: 41967
 Ion Ratio Lower Upper
 75 100
 77 34.3 26.0 39.0



#61
 Bromoform
 Concen: 5.155 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Tgt Ion: 173 Resp: 26618
 Ion Ratio Lower Upper
 173 100
 175 54.3 38.6 57.8
 254 10.2 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.681 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

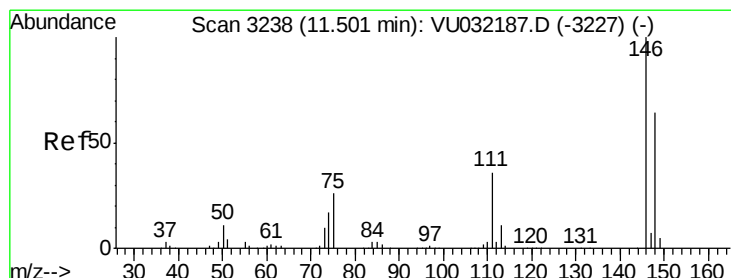
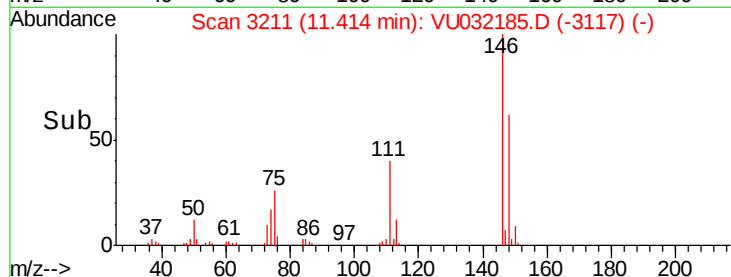
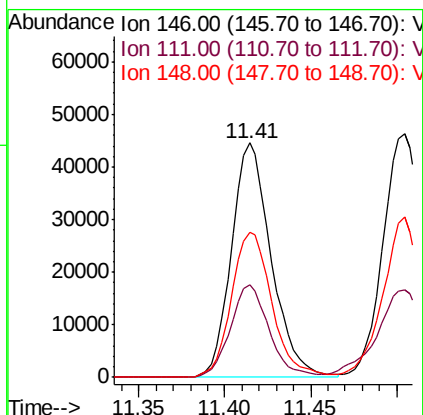
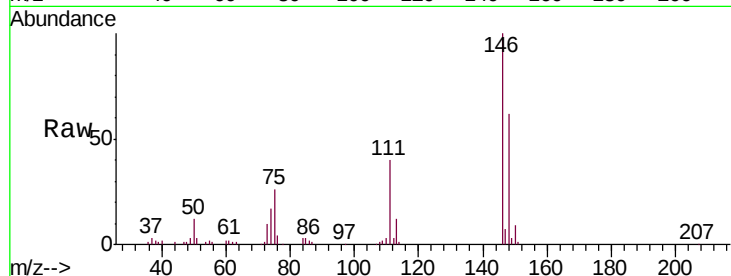
Tgt Ion:146 Resp: 71899

Ion Ratio Lower Upper

146 100

111 39.6 26.5 49.3

148 61.8 44.2 82.2



#63

1,4-Dichlorobenzene

Concen: 5.903 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

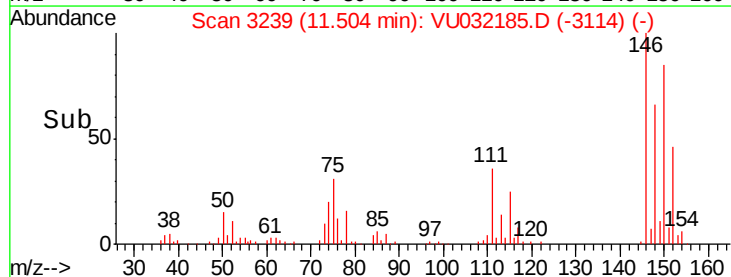
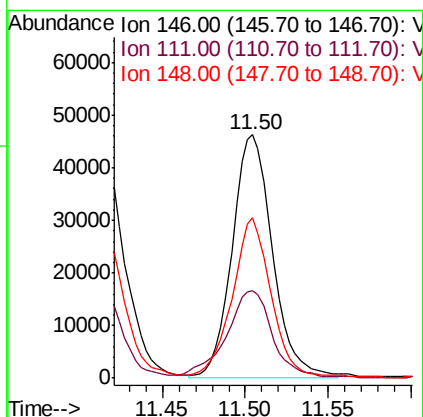
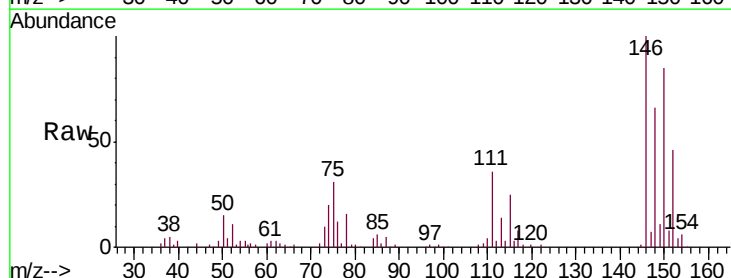
Tgt Ion:146 Resp: 78671

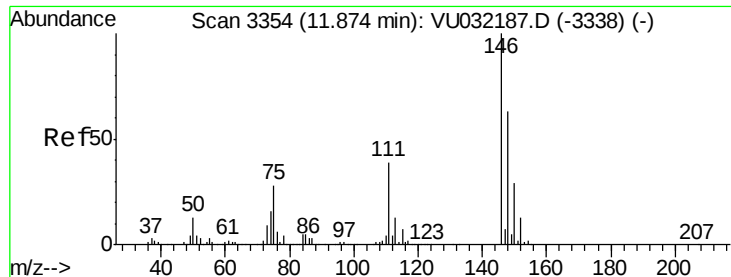
Ion Ratio Lower Upper

146 100

111 35.7 25.8 47.8

148 65.7 44.9 83.5





#65

1,2-Dichlorobenzene

Concen: 5.719 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

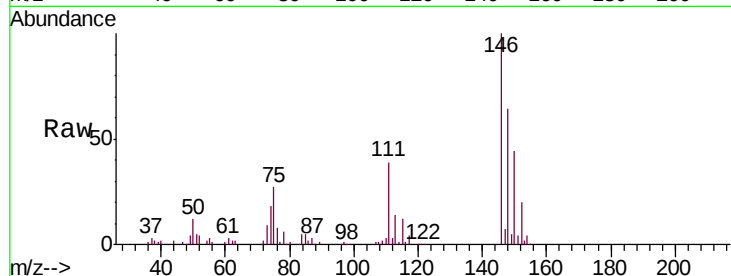
Tgt Ion:146 Resp: 76626

Ion Ratio Lower Upper

146 100

111 39.3 31.5 47.3

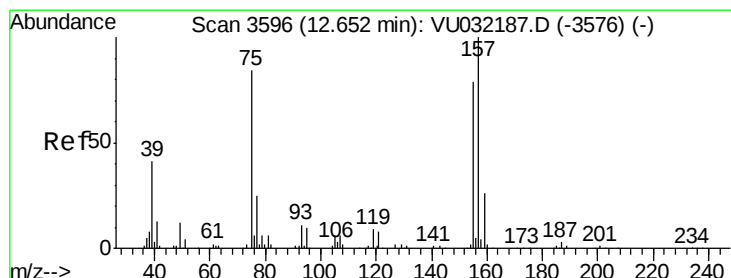
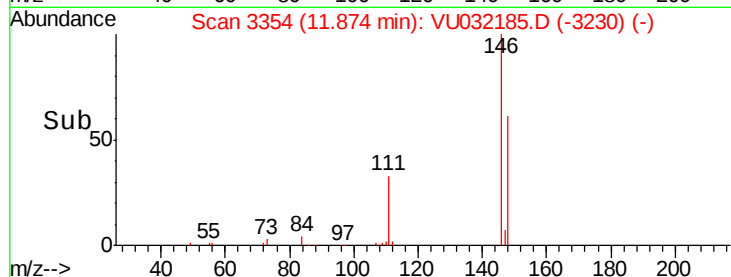
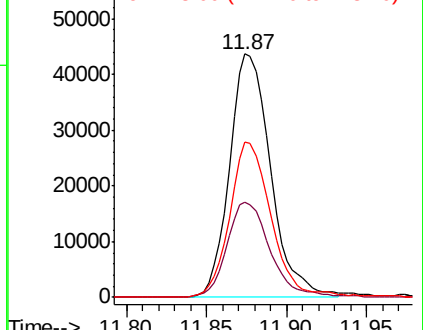
148 63.5 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.477 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

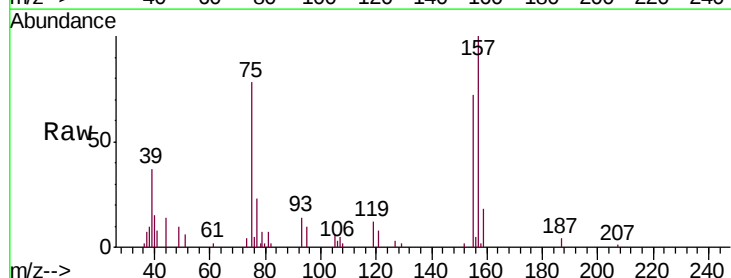
Tgt Ion: 75 Resp: 11171

Ion Ratio Lower Upper

75 100

155 92.2 74.6 112.0

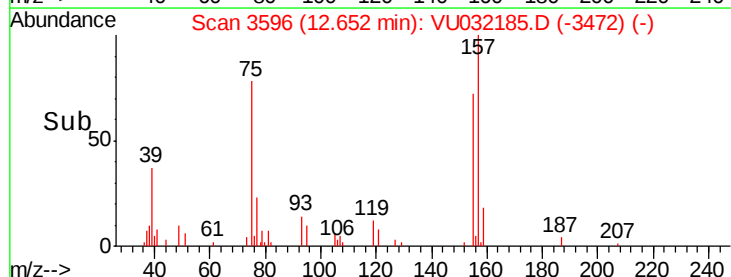
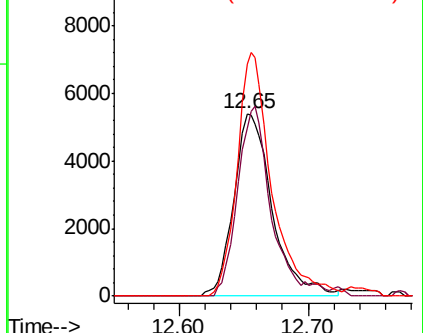
157 127.6 94.8 142.2

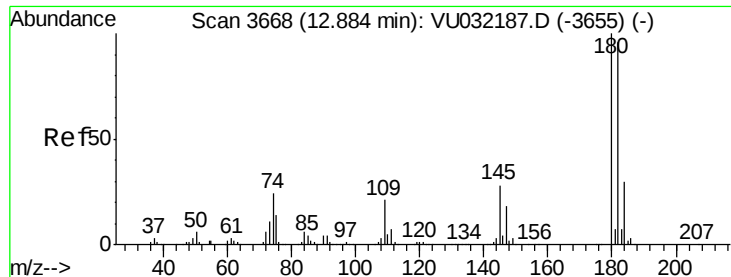


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

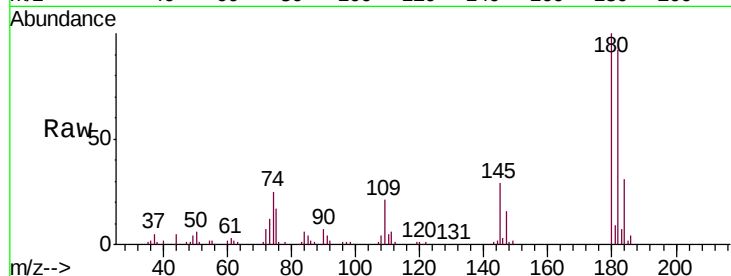




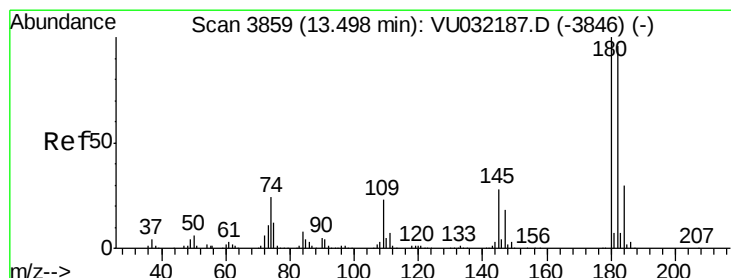
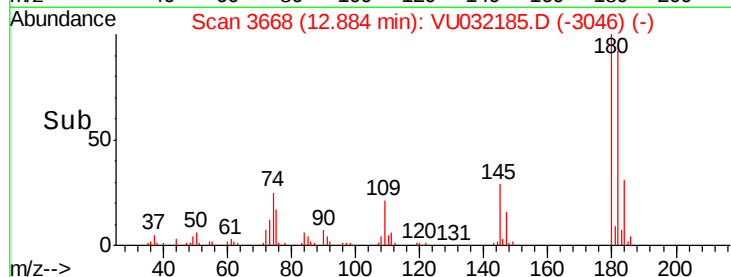
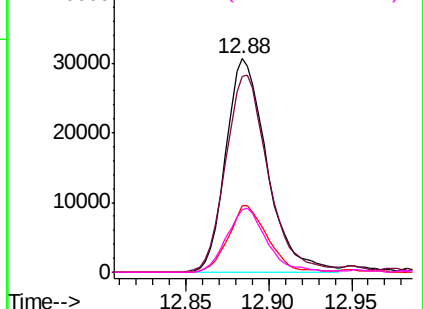
#67
 1,3,5-Trichlorobenzene
 Concen: 5.755 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion:180 Resp: 52841
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.5 114.7
 184 30.0 24.9 37.3
 145 29.1 22.5 33.7

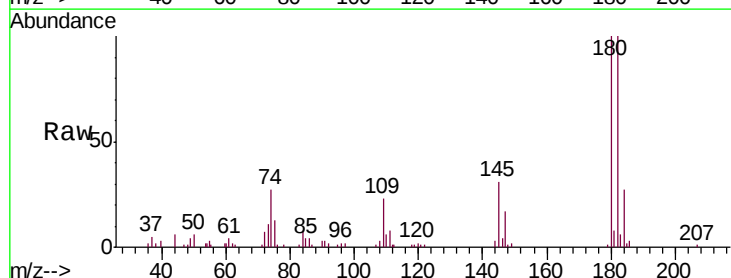


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

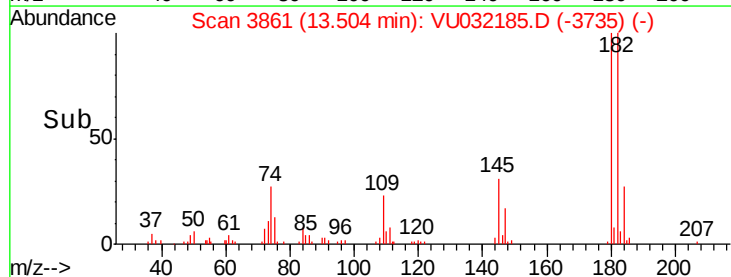
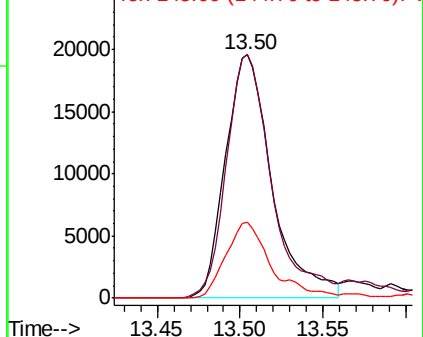


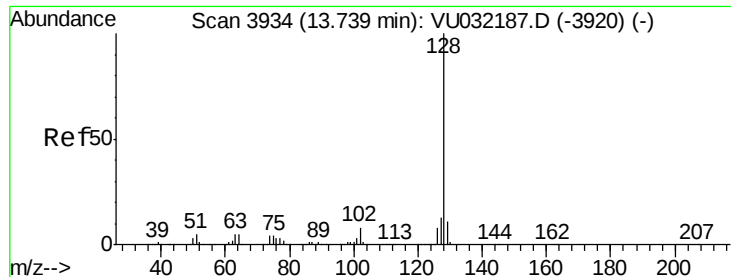
#68
 1,2,4-trichlorobenzene
 Concen: 5.423 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU032185.D
 Acq: 21 May 2019 09:21

Tgt Ion:180 Resp: 38305
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.8 115.2
 145 26.7 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 4.472 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

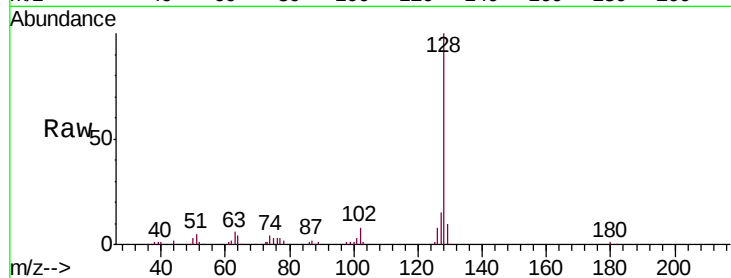
Tgt Ion:128 Resp: 102957

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

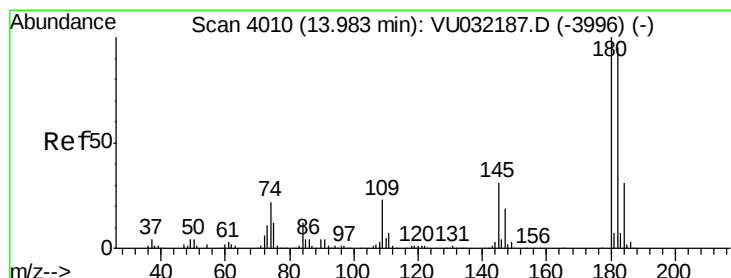
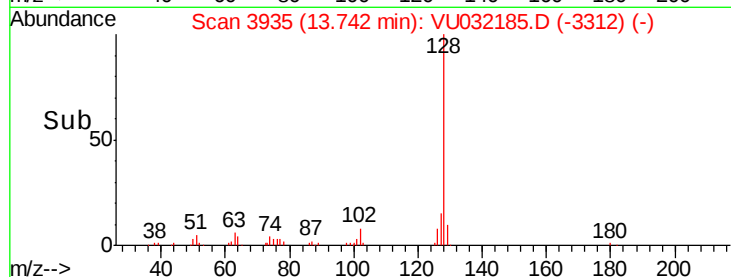
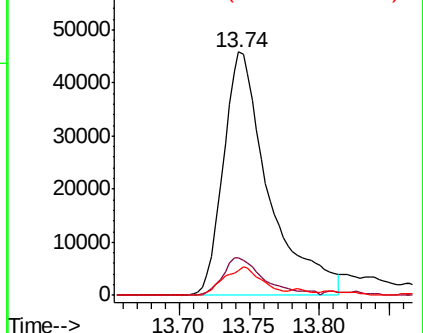
129 9.6 8.6 12.8



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: 6.180 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU032185.D

Acq: 21 May 2019 09:21

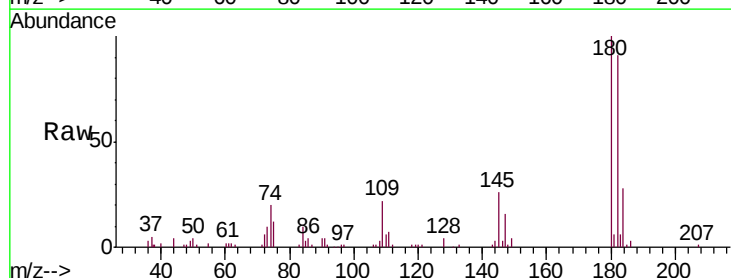
Tgt Ion:180 Resp: 47596

Ion Ratio Lower Upper

180 100

182 86.5 74.6 112.0

145 24.3 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

