

Data File : VU033469.D
Acq On : 29 Jul 2019 12:34
Operator : JC/SP
Sample : VSTD05035
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Quant Time: Jul 30 03:45:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 30 03:41:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	308304	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	314423	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	166787	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	142254	50.00	ug/L	0.00
7) Chloroethane-d5	1.67	69	117420	50.00	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	275337	50.00	ug/L	0.00
21) 2-Butanone-d5	4.15	46	167497	100.00	ug/L	0.00
24) Chloroform-d	4.62	84	214724	50.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	137240	50.00	ug/L	0.00
32) Benzene-d6	5.32	84	436363	50.00	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	135853	50.00	ug/L	0.00
41) Toluene-d8	7.55	98	414207	50.00	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	66842	50.00	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	116656	100.00	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.41	84	200896	50.00	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.85	152	155915	50.00	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	150190	50.000	ug/L	100
3) Chloromethane	1.32	50	151786	50.000	ug/L	100
5) Vinyl chloride	1.40	62	173356	50.000	ug/L	100
6) Bromomethane	1.61	94	108906	50.000	ug/L	100
8) Chloroethane	1.68	64	104621	50.000	ug/L	100
9) Trichlorofluoromethane	1.87	101	227279	50.000	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	118352	50.000	ug/L	100
12) 1,1-Dichloroethene	2.27	96	117037	50.000	ug/L	100
13) Acetone	2.31	43	155623	100.000	ug/L	100
14) Carbon disulfide	2.46	76	324689	50.000	ug/L	100
15) Methyl Acetate	2.60	43	124031	50.000	ug/L	100
16) Methylene chloride	2.68	84	122026	50.000	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	107609	50.000	ug/L	100
18) Methyl tert-butyl Ether	2.98	73	330789	50.000	ug/L	100
19) 1,1-Dichloroethane	3.42	63	209985	50.000	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	121755	50.000	ug/L	100
22) 2-Butanone	4.23	43	191186	100.000	ug/L	100
23) Bromochloromethane	4.52	128	63447	50.000	ug/L	100
25) Chloroform	4.65	83	221092	50.000	ug/L	100
27) 1,2-Dichloroethane	5.38	62	171682	50.000	ug/L	100
29) Cyclohexane	4.97	56	176256	50.000	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	183706	50.000	ug/L	100
31) Carbon tetrachloride	5.11	117	163753	50.000	ug/L	100
33) Benzene	5.37	78	471007	50.000	ug/L	100
34) Trichloroethene	6.16	95	120096	50.000	ug/L	100
35) Methylcyclohexane	6.40	83	182528	50.000	ug/L	100
37) 1,2-Dichloropropane	6.41	63	124574	50.000	ug/L	100
38) Bromodichloromethane	6.74	83	161296	50.000	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	193895	50.000	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	336696	100.000	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	517054	50.000	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	173218	50.000	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	118936	50.000	ug/L	100
46) Tetrachloroethene	8.21	164	95571	50.000	ug/L	100
48) 2-Hexanone	8.34	43	276480	100.000	ug/L	100
49) Dibromochloromethane	8.46	129	134636	50.000	ug/L	100
50) 1,2-Dibromoethane	8.57	107	129812	50.000	ug/L	100
51) Chlorobenzene	9.10	112	330534	50.000	ug/L	100
52) Ethylbenzene	9.23	91	552584	50.000	ug/L	100
53) m,p-Xylene	9.36	106	213013	50.000	ug/L	100
54) o-xylene	9.76	106	205896	50.000	ug/L	100
55) Styrene	9.77	104	356808	50.000	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.44	83	206312	50.000	ug/L	100
59) Bromoform	9.94	173	100050	50.000	ug/L	100
60) 1,2,3-Trichloropropane	10.48	75	162004	50.000	ug/L	100
61) Isopropylbenzene	10.15	105	532804	50.000	ug/L	100
62) 1,3,5-Trimethylbenzene	10.76	105	445792	50.000	ug/L	100
63) 1,2,4-Trimethylbenzene	11.13	105	449133	50.000	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	258144	50.000	ug/L	100
65) 1,4-Dichlorobenzene	11.49	146	260553	50.000	ug/L	100
67) 1,2-Dichlorobenzene	11.86	146	262842	50.000	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.64	75	45939	50.000	ug/L	100
69) 1,3,5-Trichlorobenzene	12.87	180	194909	50.000	ug/L	100
70) 1,2,4-trichlorobenzene	13.49	180	163959	50.000	ug/L	100
71) Naphthalene	13.73	128	500082	50.000	ug/L	100
72) 1,2,3-Trichlorobenzene	13.97	180	177699	50.000	ug/L	100

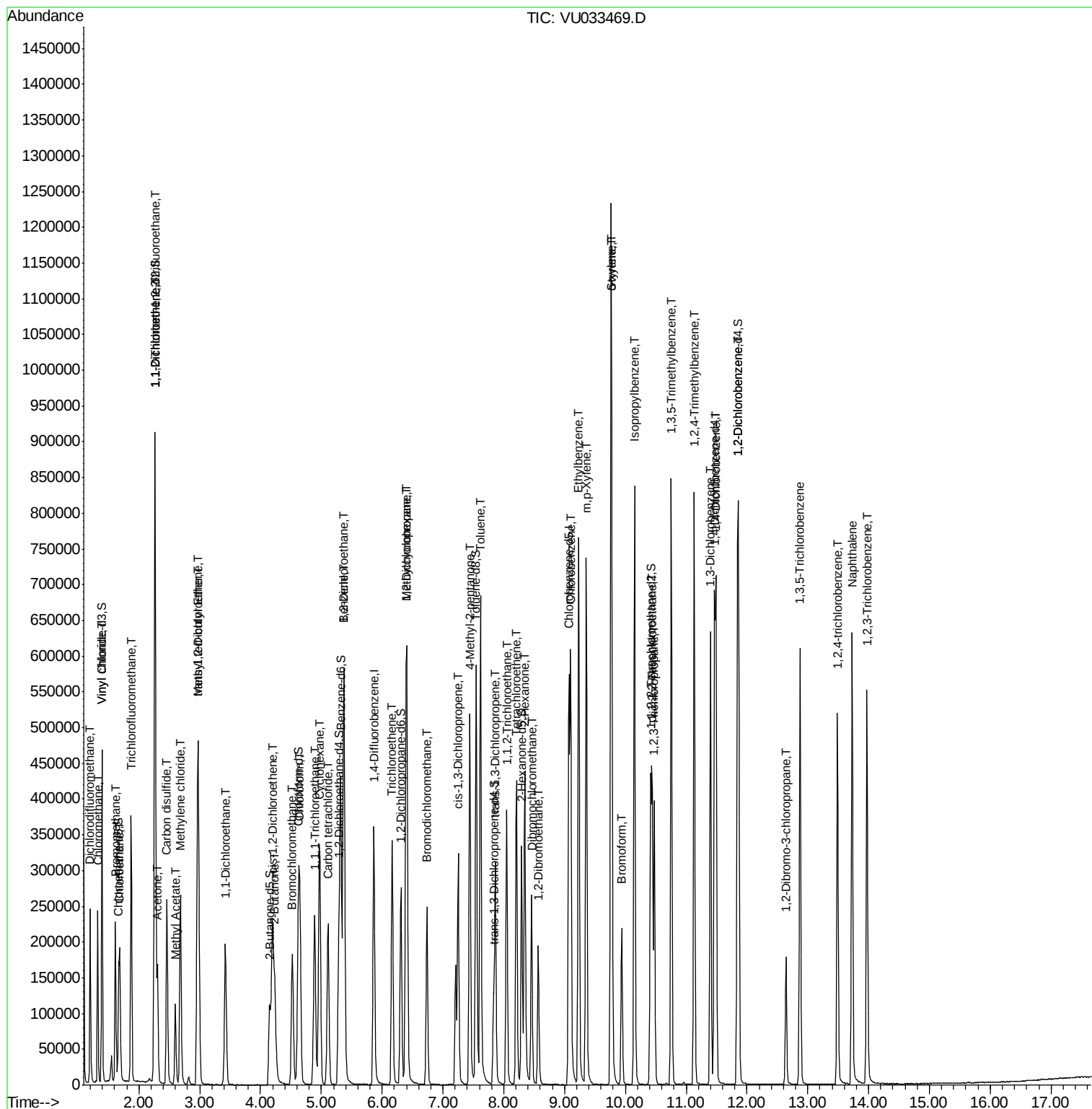
(#) = qualifier out of range (m) = manual integration (+) = signals summed

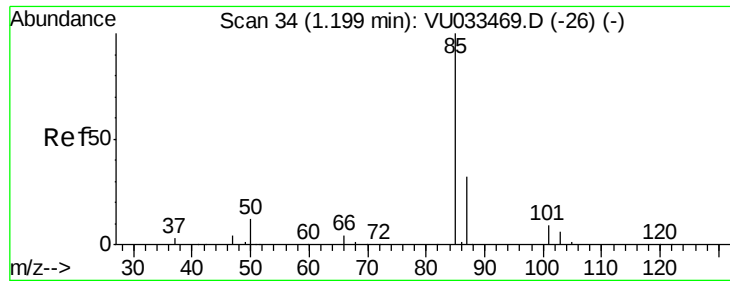
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#2

Dichlorodifluoromethane

Concen: 50.000 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

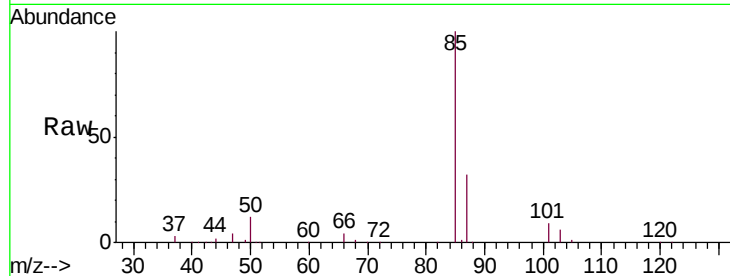
VSTD05035

Tgt Ion: 85 Resp: 150190

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033469.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033469.D (-26) (-)

1.20

150000

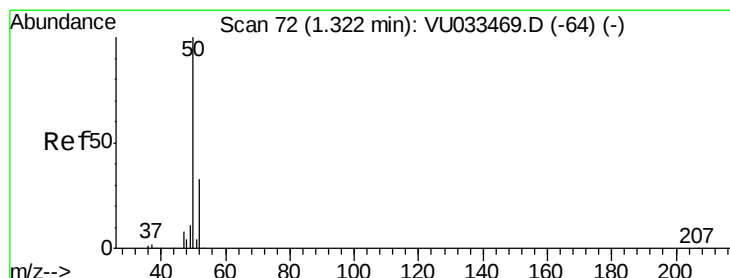
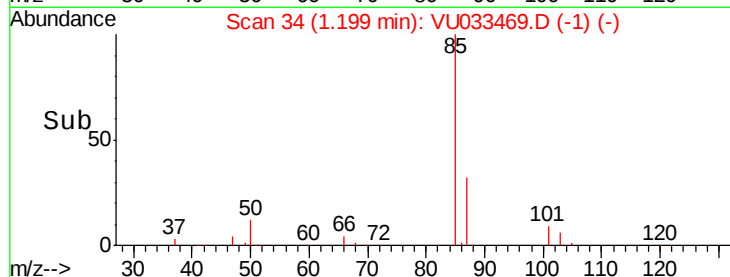
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 50.000 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033469.D

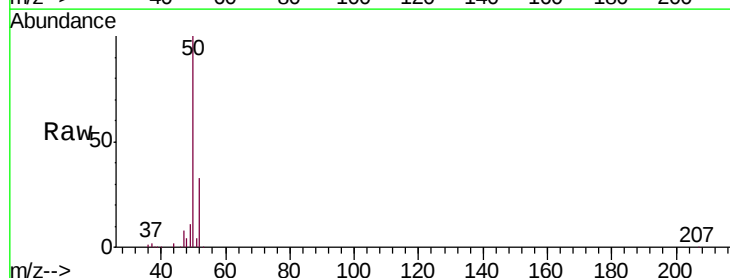
Acq: 29 Jul 2019 12:34

Tgt Ion: 50 Resp: 151786

Ion Ratio Lower Upper

50 100

52 33.3 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033469.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033469.D (-64) (-)

1.32

150000

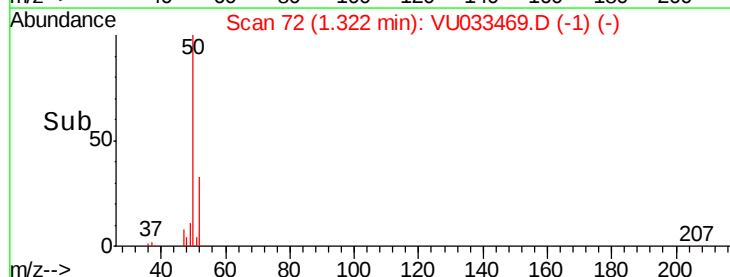
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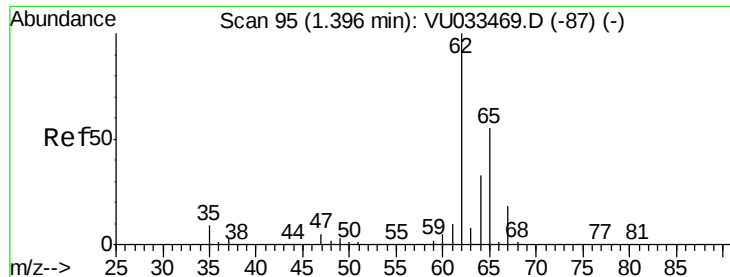
50000

0

1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 50.000 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

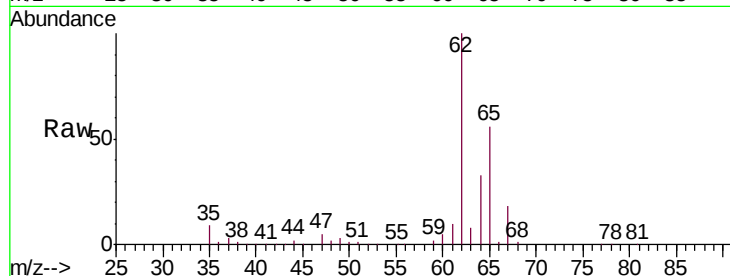
VSTD05035

Tgt Ion: 62 Resp: 173356

Ion Ratio Lower Upper

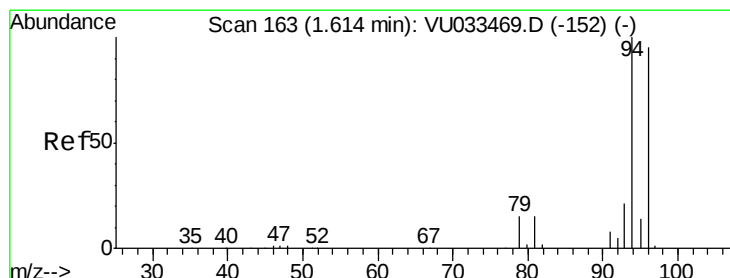
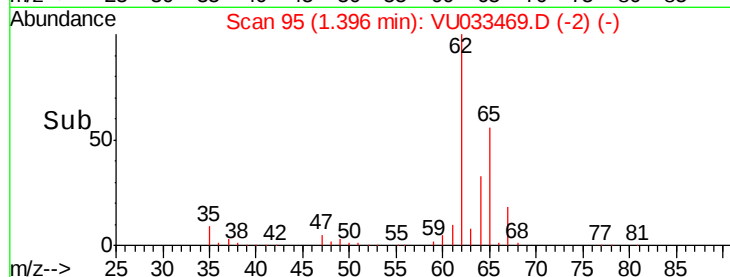
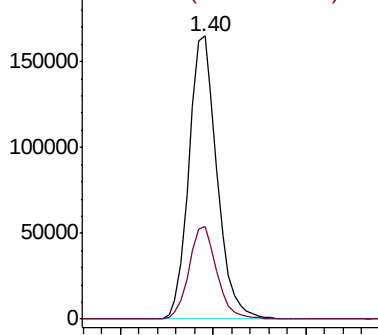
62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 50.000 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033469.D

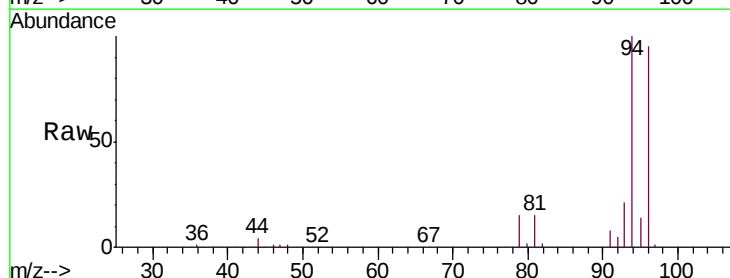
Acq: 29 Jul 2019 12:34

Tgt Ion: 94 Resp: 108906

Ion Ratio Lower Upper

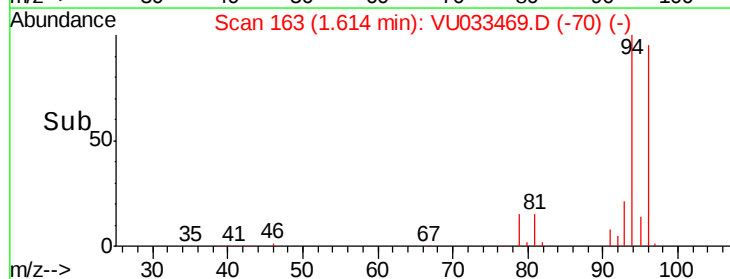
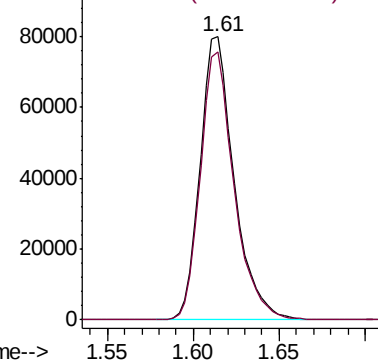
94 100

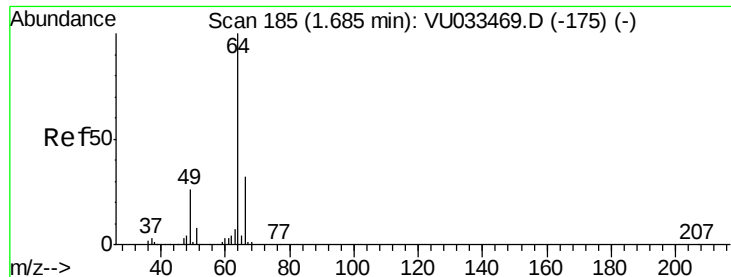
96 94.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 50.000 ug/L

RT: 1.68 min Scan# 185

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

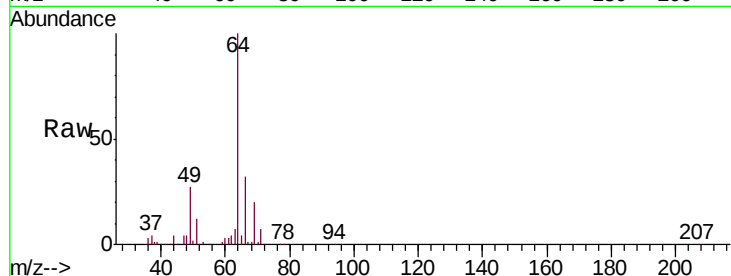
VSTD05035

Tgt Ion: 64 Resp: 104621

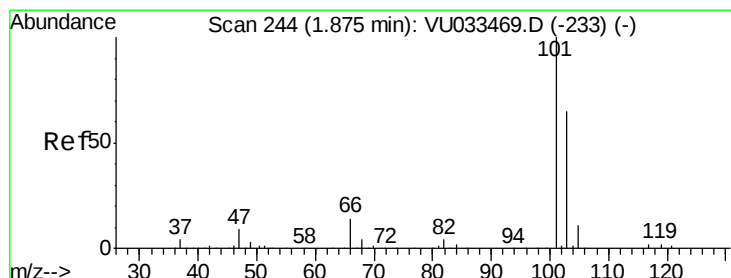
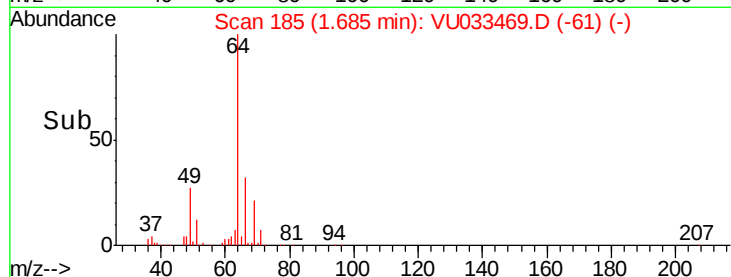
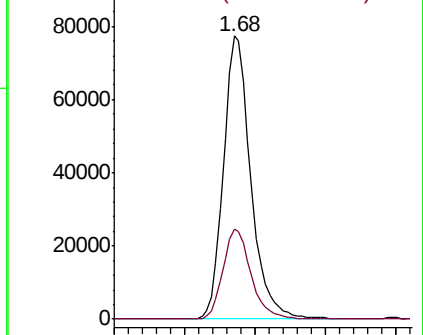
Ion Ratio Lower Upper

64 100

66 31.6 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU033469.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 50.000 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033469.D

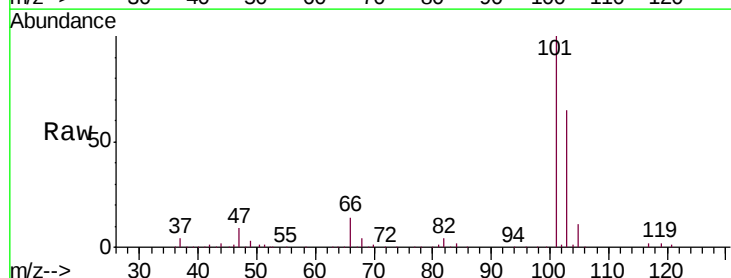
Acq: 29 Jul 2019 12:34

Tgt Ion: 101 Resp: 227279

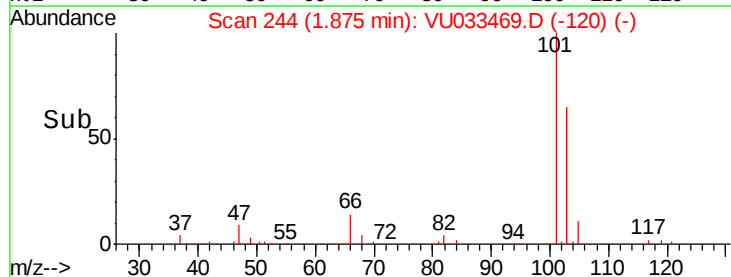
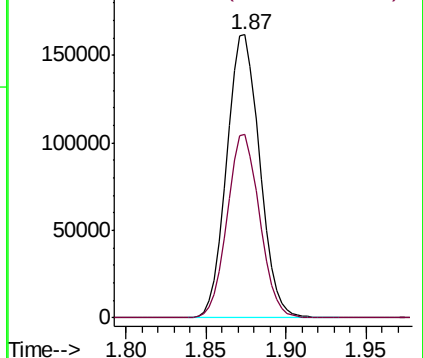
Ion Ratio Lower Upper

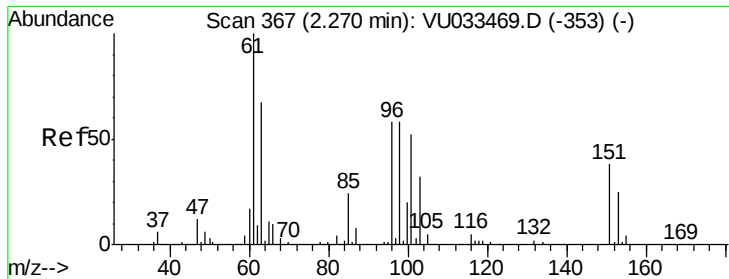
101 100

103 64.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU033469.D (-233) (-)





#10

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

Concen: 50.000 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

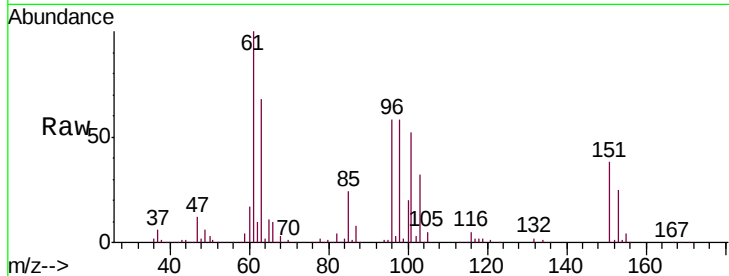
Tgt Ion: 101 Resp: 118352

Ion Ratio Lower Upper

101 100

85 44.8 35.8 53.8

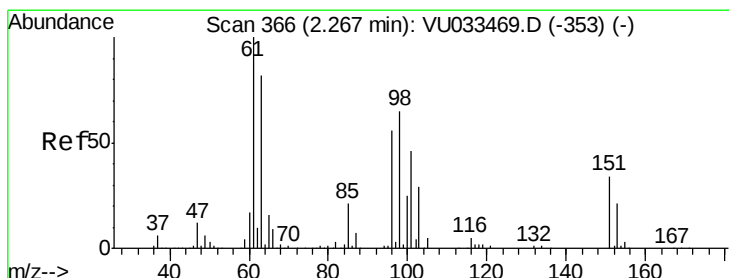
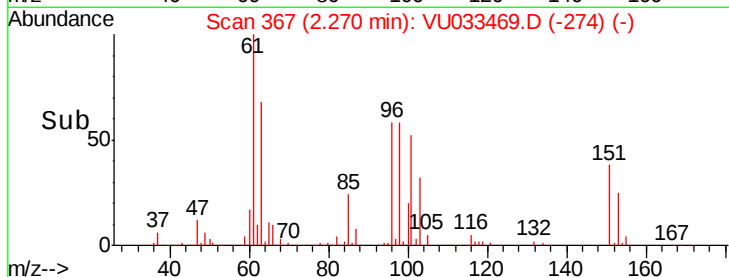
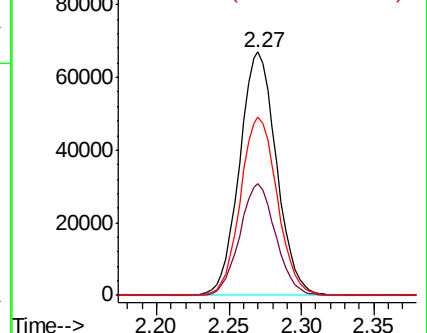
151 73.2 58.6 87.8



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: 50.000 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

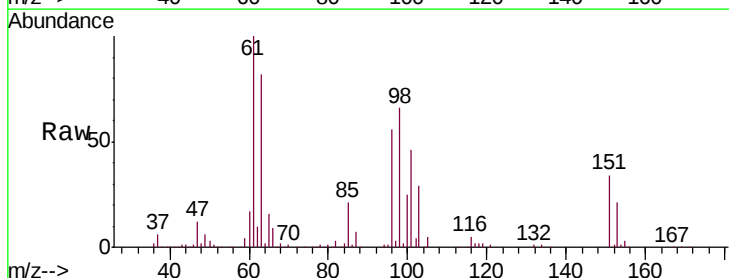
Tgt Ion: 96 Resp: 117037

Ion Ratio Lower Upper

96 100

61 177.3 124.1 230.5

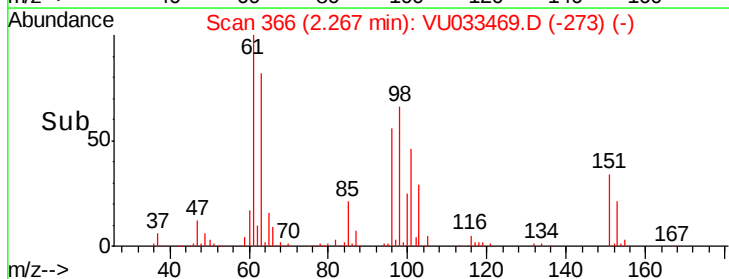
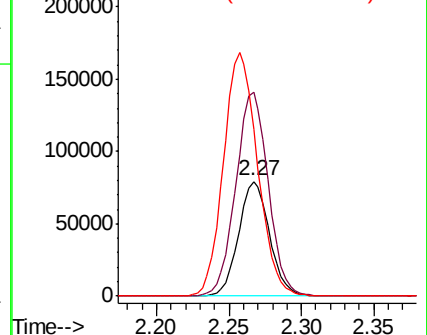
63 145.5 101.8 189.2

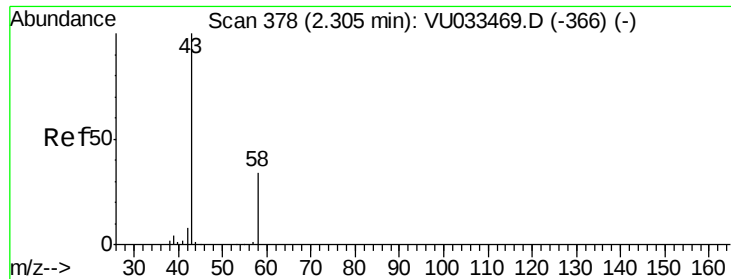


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.000 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

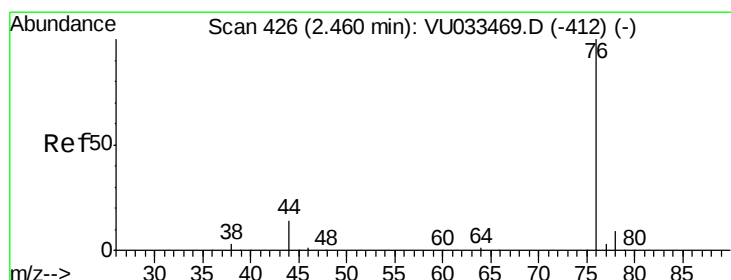
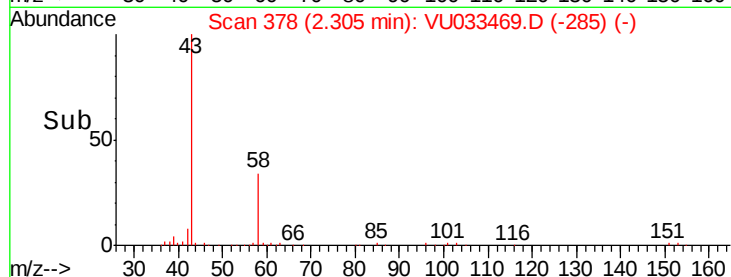
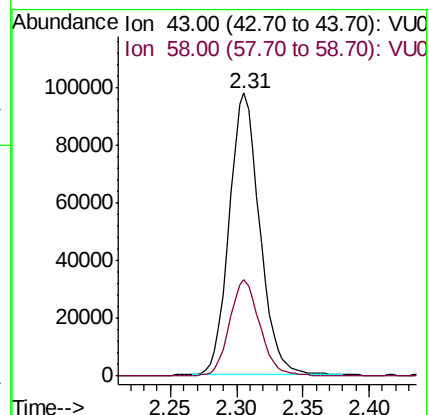
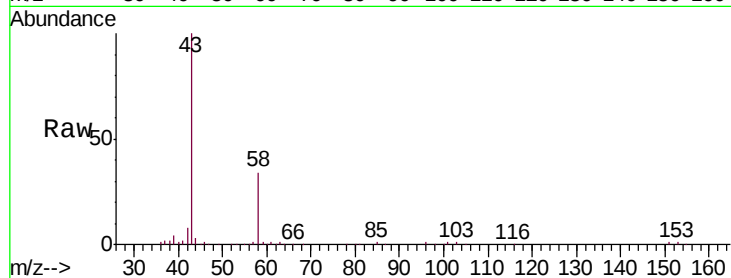
VSTD05035

Tgt Ion: 43 Resp: 155623

Ion Ratio Lower Upper

43 100

58 33.7 0.0 67.4



#14

Carbon disulfide

Concen: 50.000 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033469.D

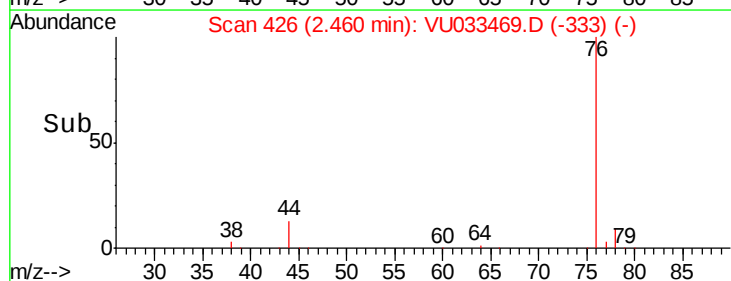
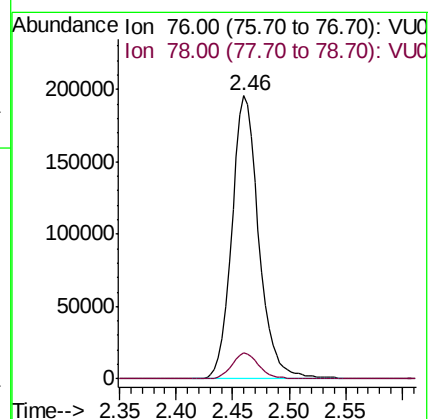
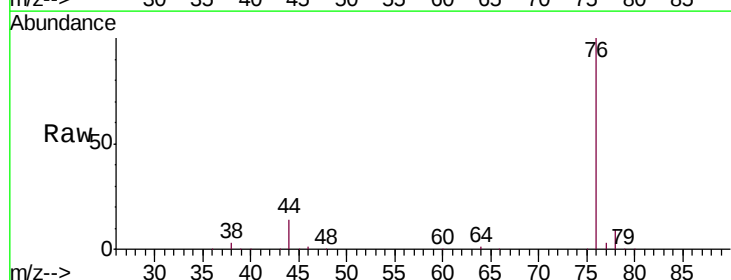
Acq: 29 Jul 2019 12:34

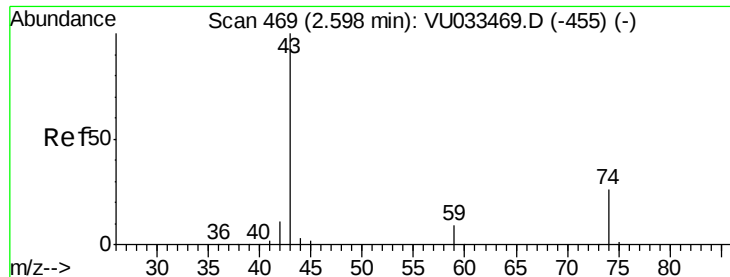
Tgt Ion: 76 Resp: 324689

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8

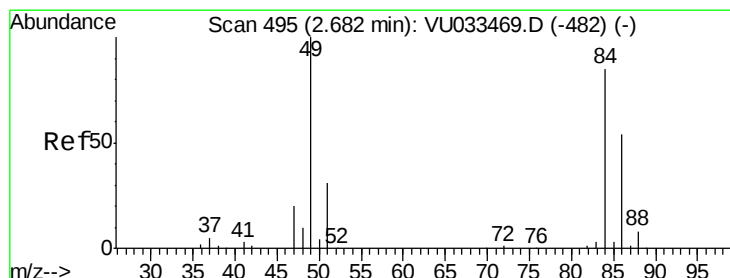
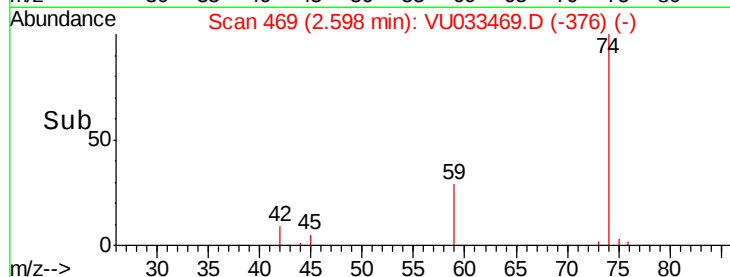
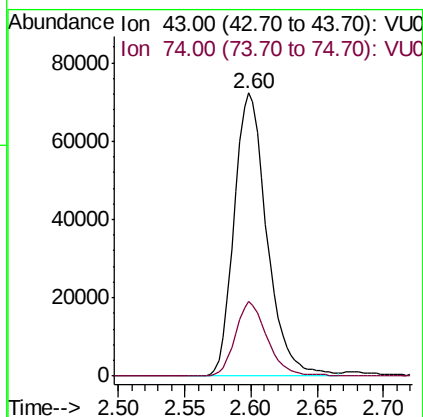
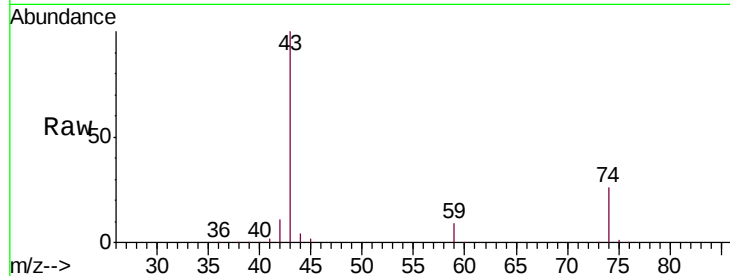




#15
Methyl Acetate
Concen: 50.000 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

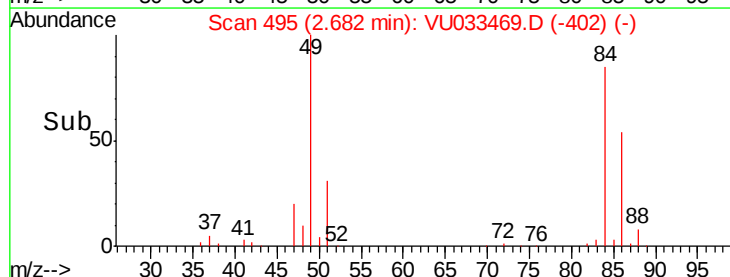
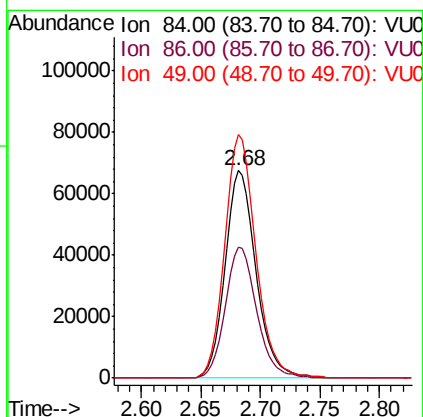
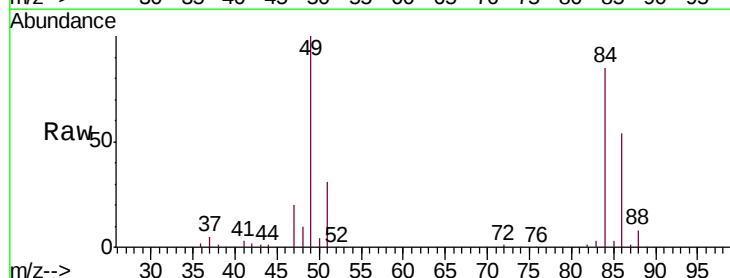
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

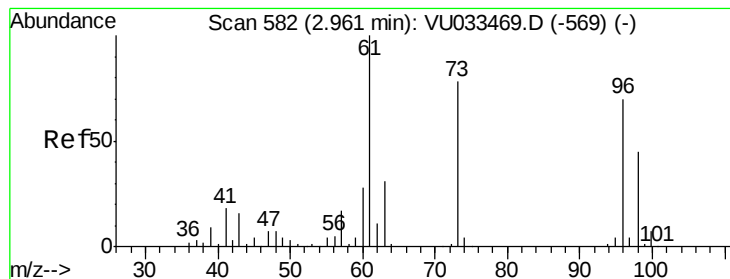
Tgt Ion: 43 Resp: 124031
Ion Ratio Lower Upper
43 100
74 25.6 20.5 30.7



#16
Methylene chloride
Concen: 50.000 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion: 84 Resp: 122026
Ion Ratio Lower Upper
84 100
86 63.1 44.2 82.0
49 117.5 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 50.000 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

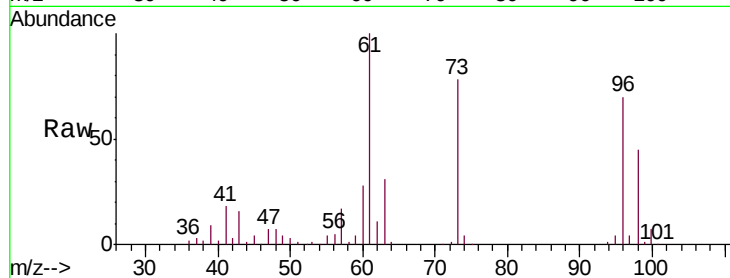
Tgt Ion: 96 Resp: 107609

Ion Ratio Lower Upper

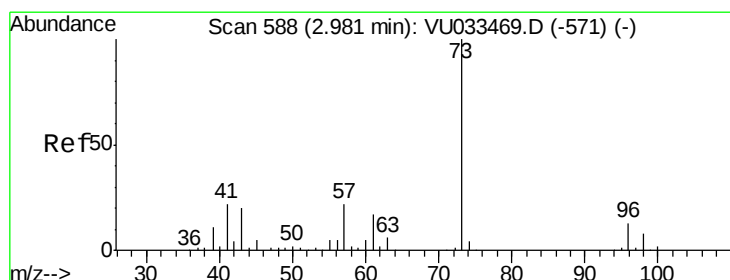
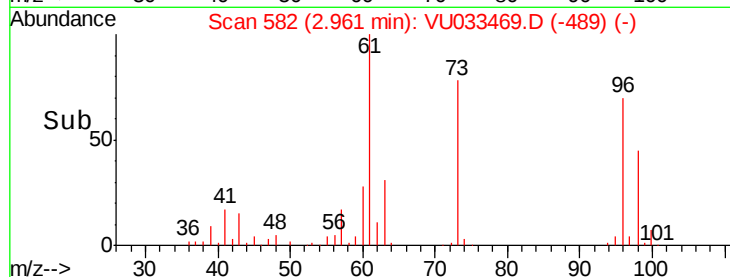
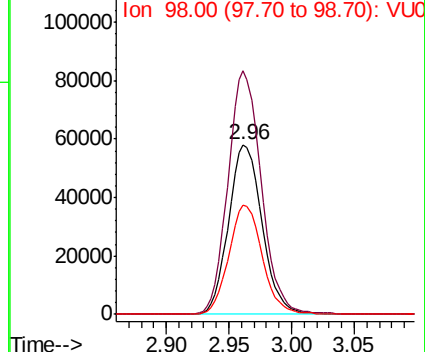
96 100

61 143.3 100.3 186.3

98 64.5 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 50.000 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

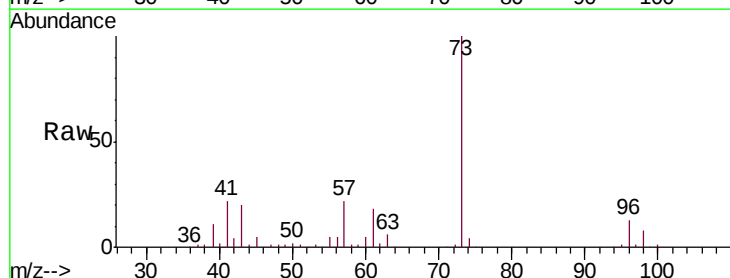
Tgt Ion: 73 Resp: 330789

Ion Ratio Lower Upper

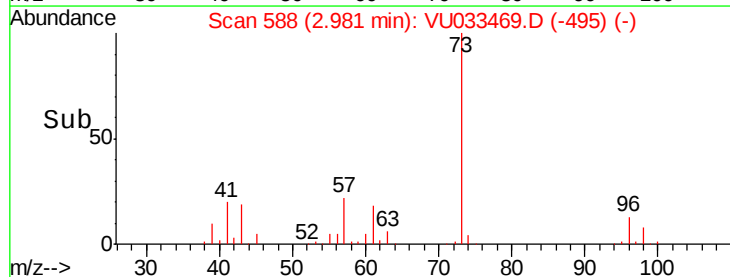
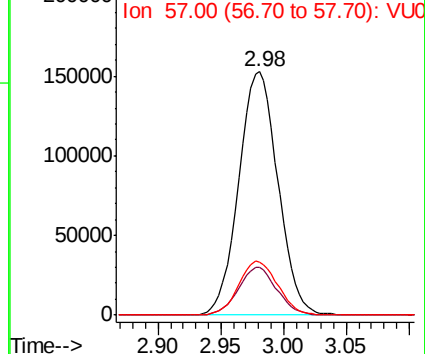
73 100

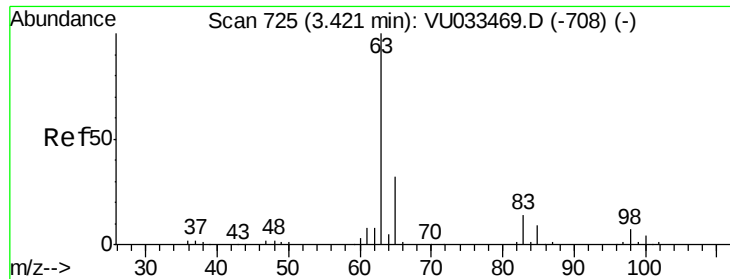
43 19.1 15.3 22.9

57 22.1 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

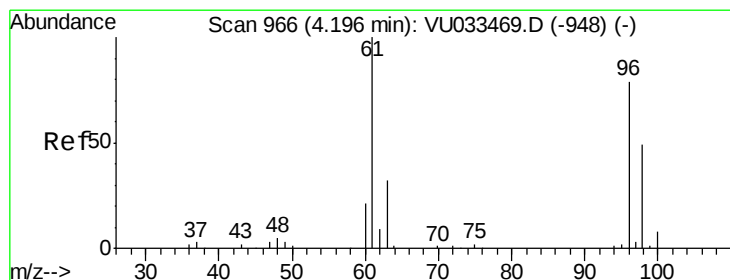
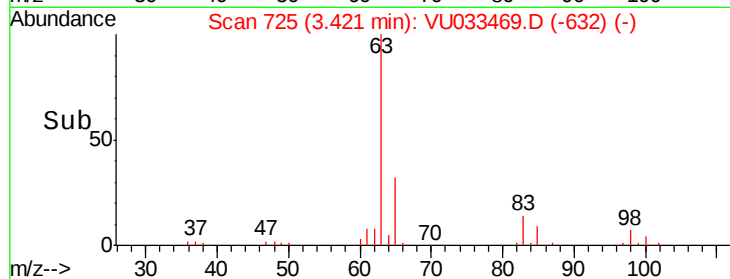
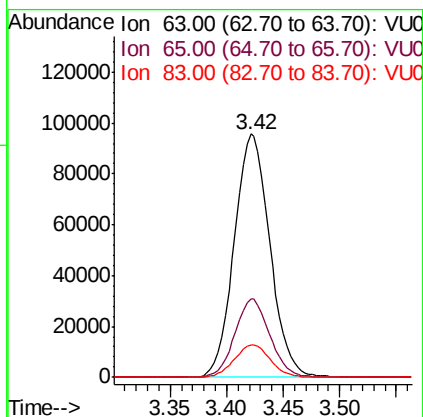
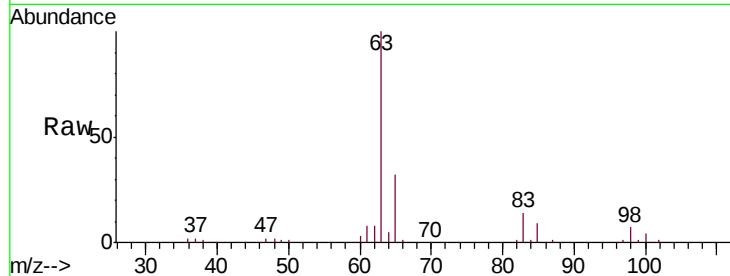




#19
 1,1-Dichloroethane
 Concen: 50.000 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

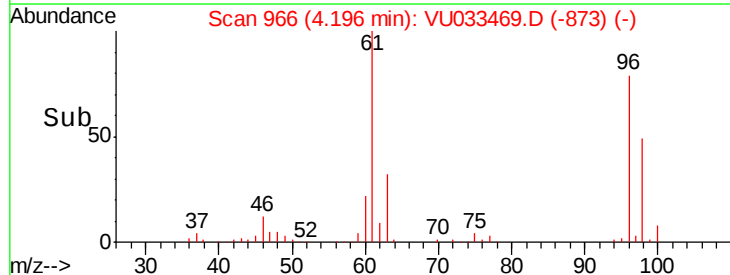
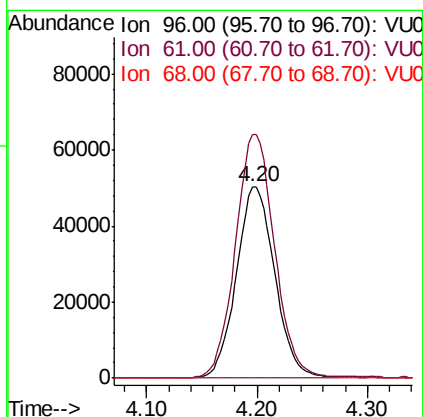
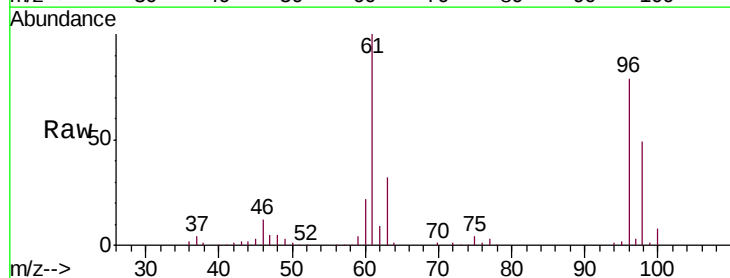
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

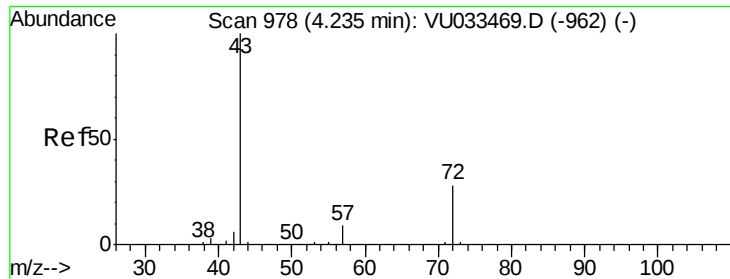
Tgt Ion: 63 Resp: 209985
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.7 42.1
 83 13.5 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 50.000 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Tgt Ion: 96 Resp: 121755
 Ion Ratio Lower Upper
 96 100
 61 127.0 88.9 165.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 100.000 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

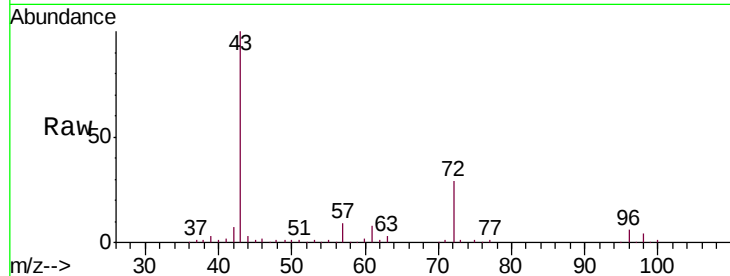
VSTD05035

Tgt Ion: 43 Resp: 191186

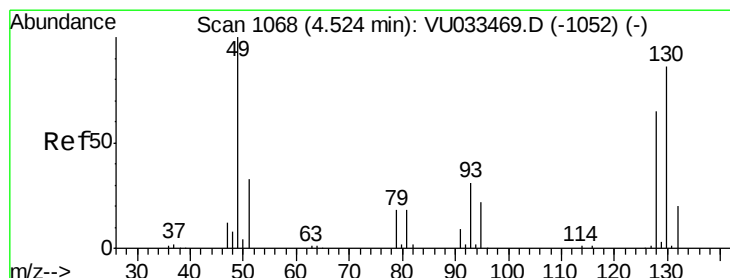
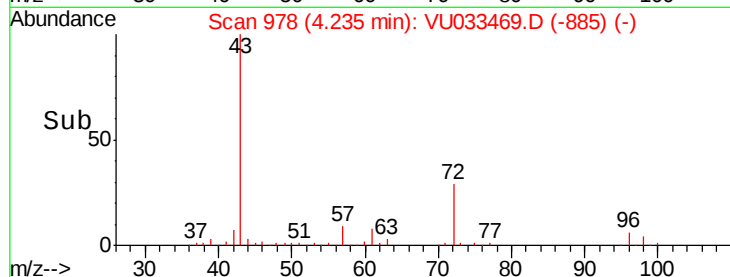
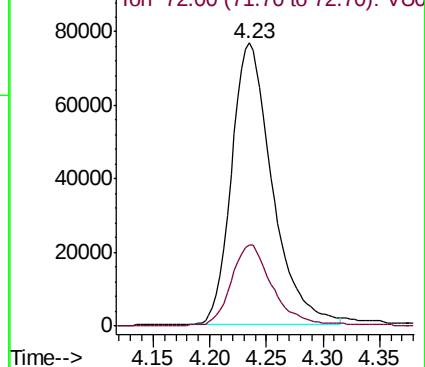
Ion Ratio Lower Upper

43 100

72 28.2 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU033469.D (-962) (-)



#23

Bromochloromethane

Concen: 50.000 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Tgt Ion: 128 Resp: 63447

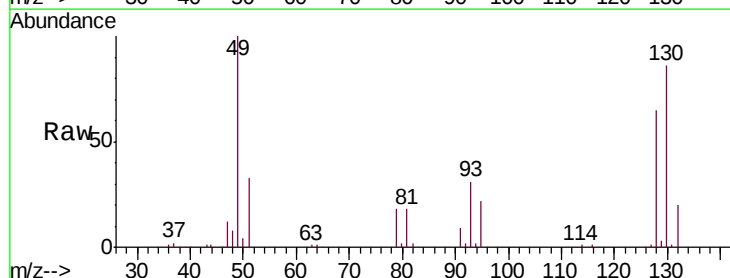
Ion Ratio Lower Upper

128 100

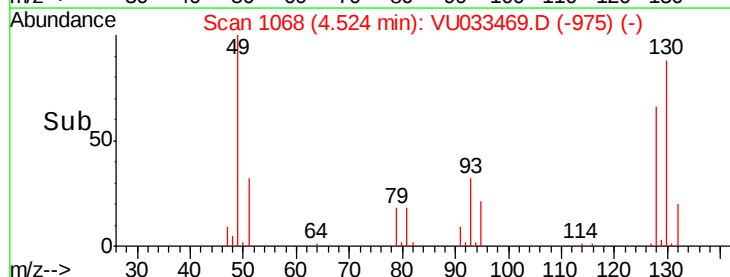
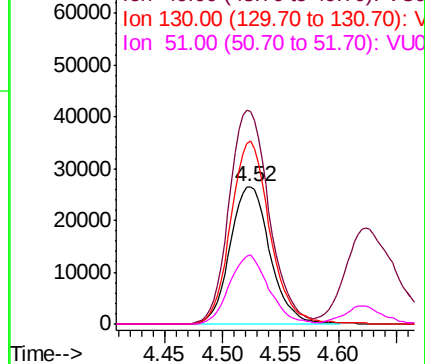
49 154.3 108.0 200.6

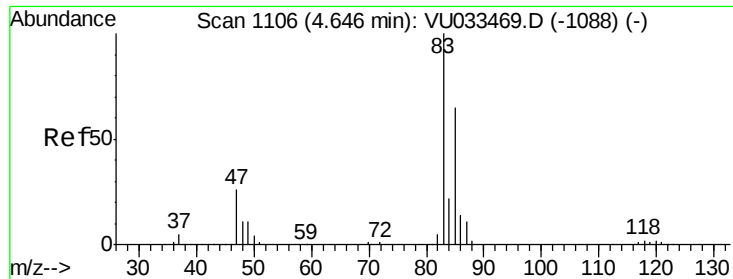
130 132.7 92.9 172.5

51 50.3 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033469.D (-1052) (-)

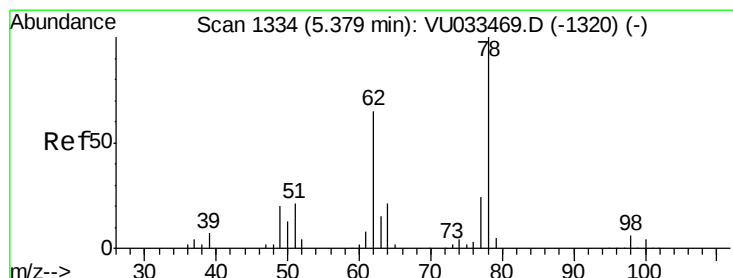
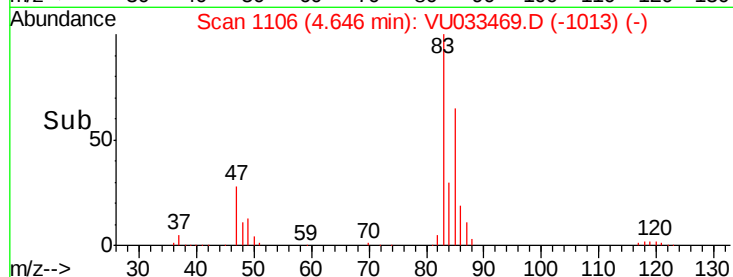
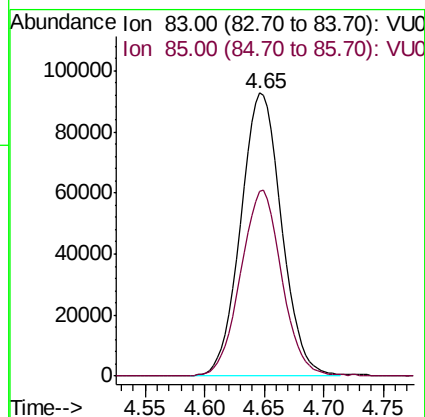
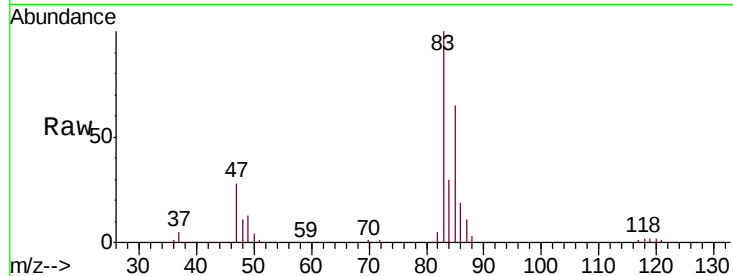




#25
Chloroform
Concen: 50.000 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

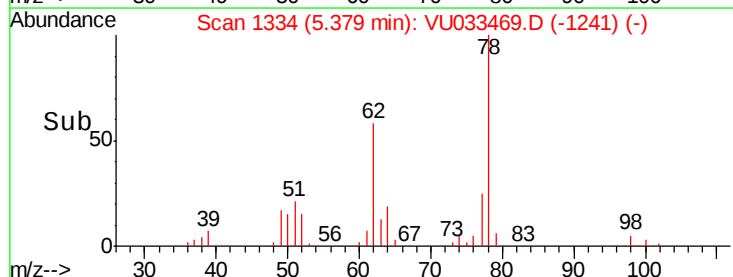
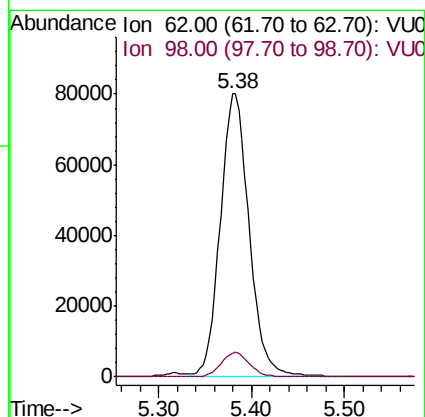
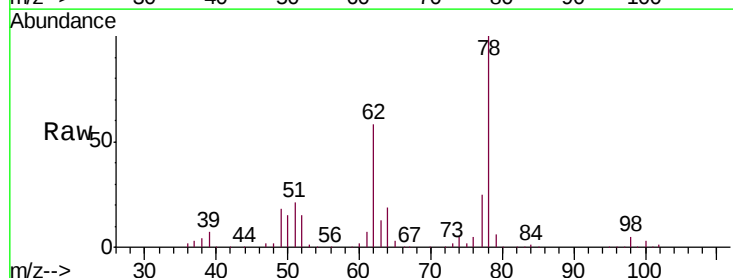
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

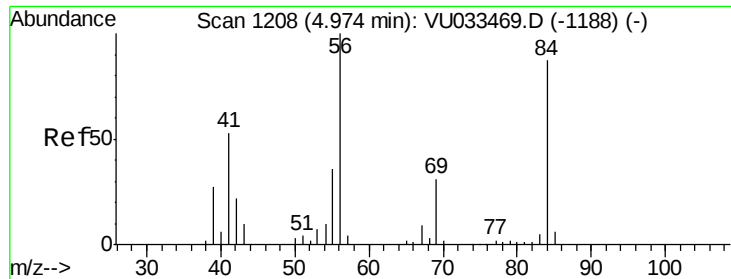
Tgt Ion: 83 Resp: 221092
Ion Ratio Lower Upper
83 100
85 65.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 50.000 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion: 62 Resp: 171682
Ion Ratio Lower Upper
62 100
98 8.4 6.7 10.1

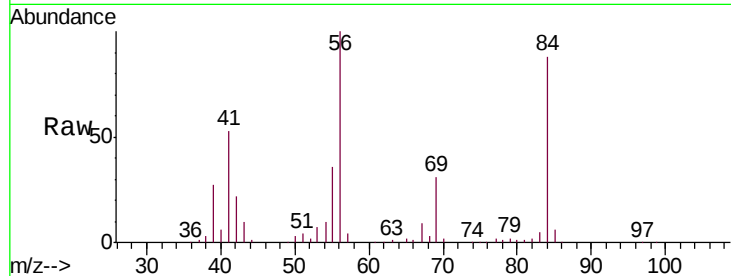




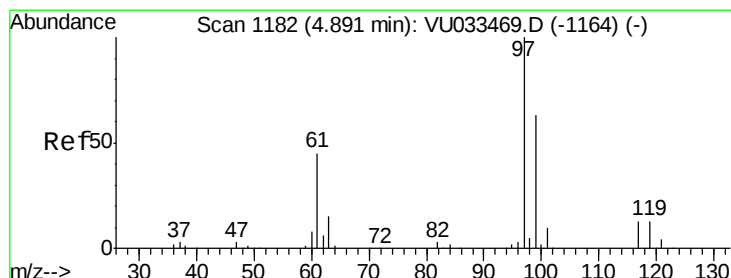
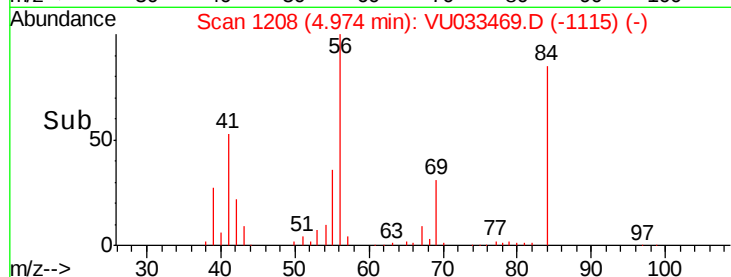
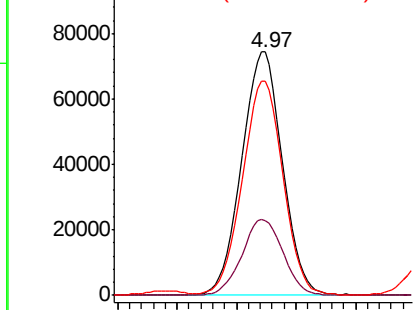
#29
Cyclohexane
Concen: 50.000 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion: 56 Resp: 176256
Ion Ratio Lower Upper
56 100
69 31.6 25.3 37.9
84 87.0 69.6 104.4

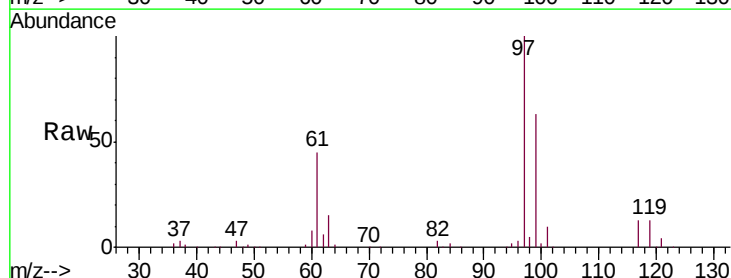


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

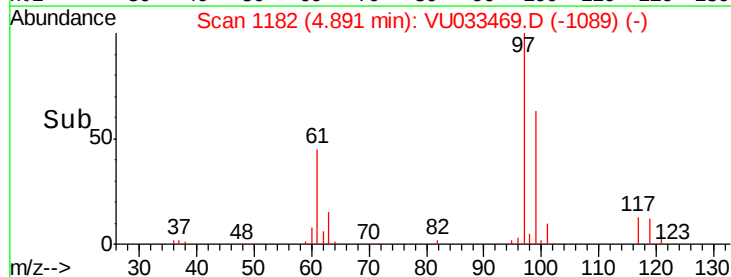
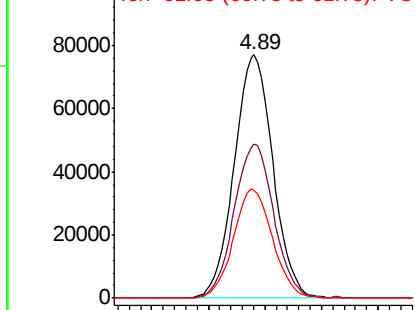


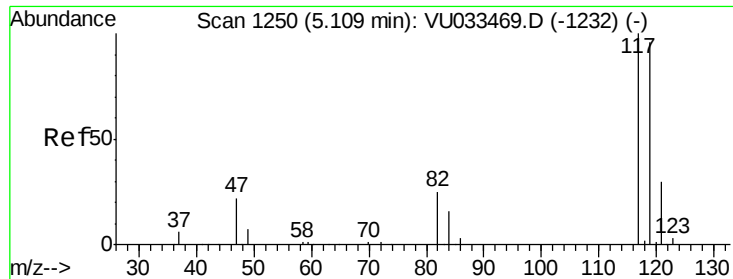
#30
1,1,1-Trichloroethane
Concen: 50.000 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion: 97 Resp: 183706
Ion Ratio Lower Upper
97 100
99 64.7 51.8 77.6
61 45.2 36.2 54.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 50.000 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

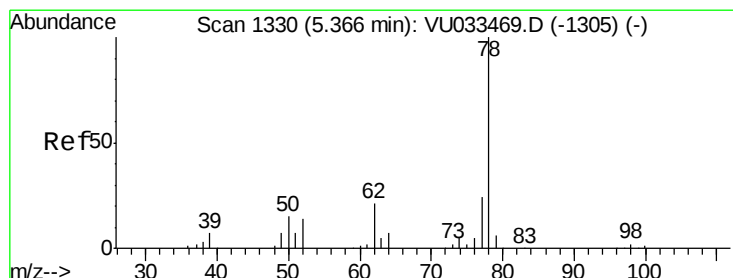
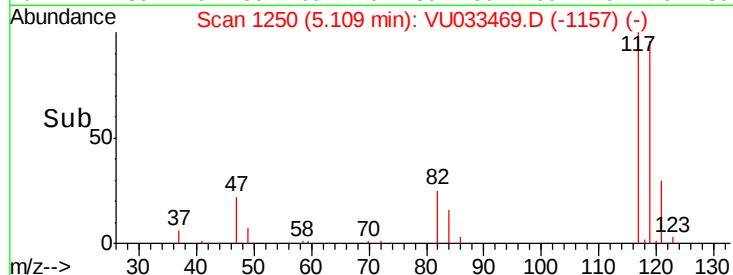
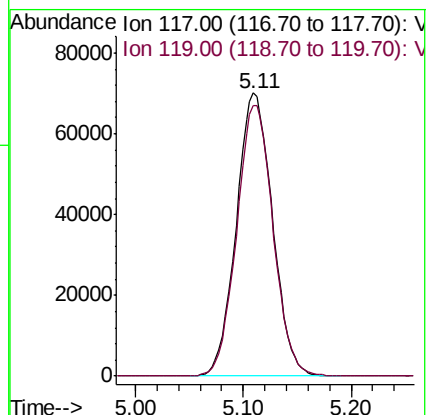
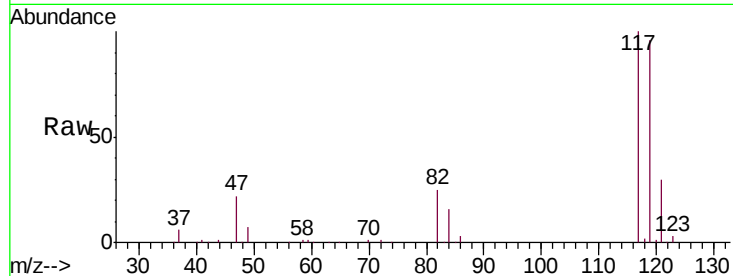
VSTD05035

Tgt Ion:117 Resp: 163753

Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2



#33

Benzene

Concen: 50.000 ug/L

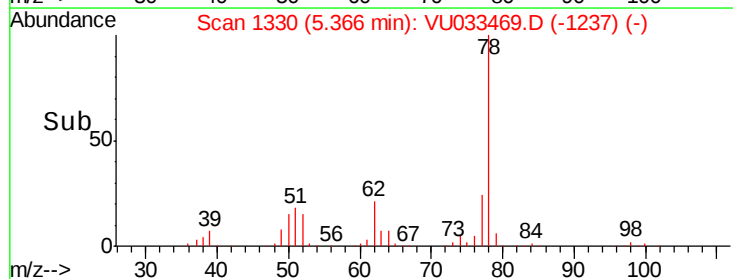
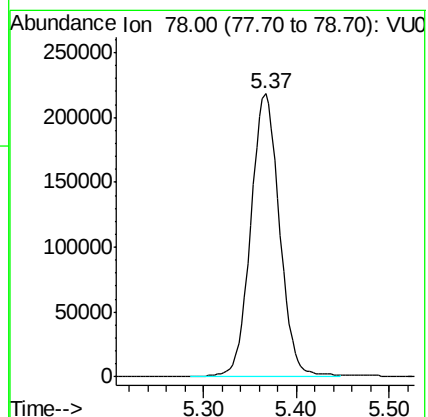
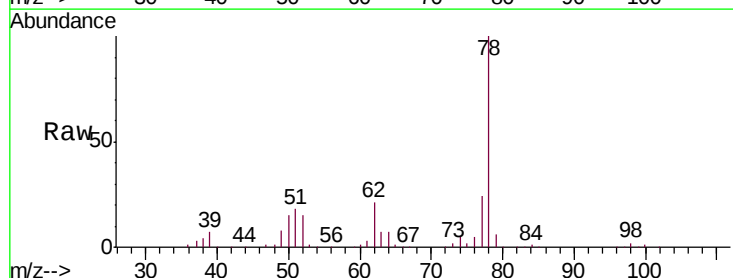
RT: 5.37 min Scan# 1330

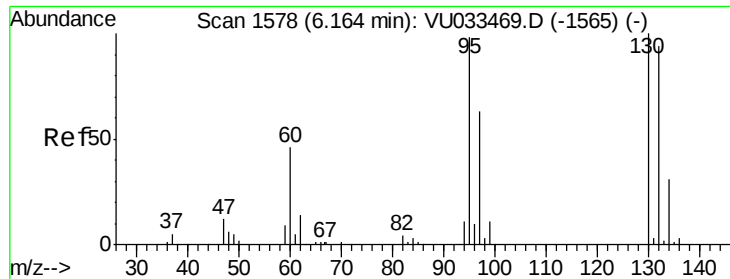
Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Tgt Ion: 78 Resp: 471007





#34

Trichloroethene

Concen: 50.000 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion: 95 Resp: 120096

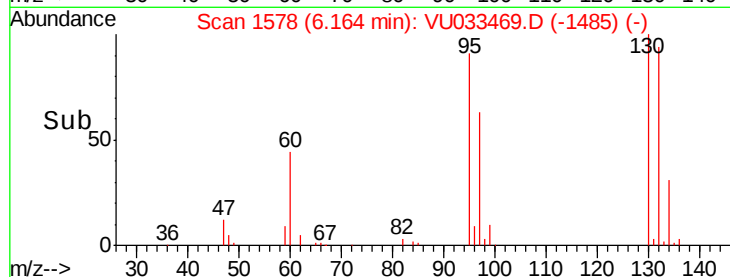
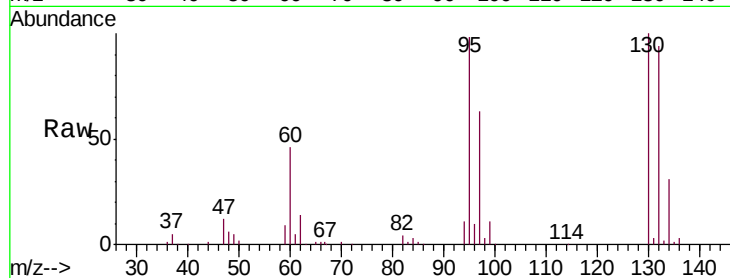
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.2

132 95.8 67.1 124.5

130 102.0 71.4 132.6



Abundance Ion 95.00 (94.70 to 95.70): VU033469.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU033469.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU033469.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU033469.D (-1485) (-)

6.16

80000

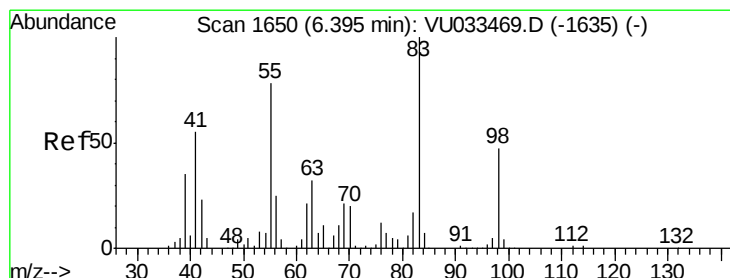
60000

40000

20000

0

Time-->



#35

Methylcyclohexane

Concen: 50.000 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

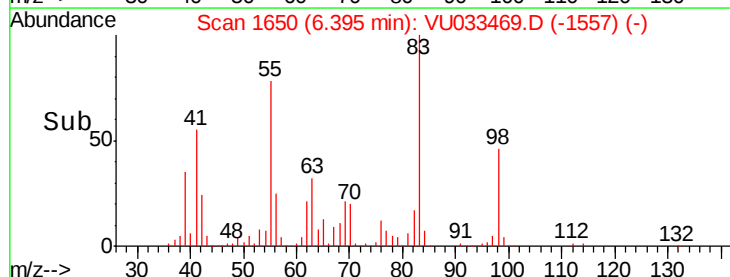
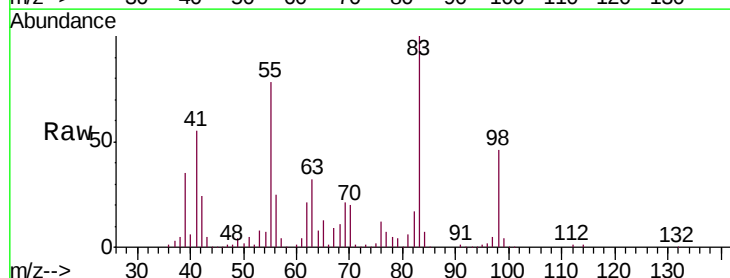
Tgt Ion: 83 Resp: 182528

Ion Ratio Lower Upper

83 100

55 78.0 62.4 93.6

98 46.6 37.3 55.9



Abundance Ion 83.00 (82.70 to 83.70): VU033469.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033469.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033469.D (-1557) (-)

6.40

120000

100000

80000

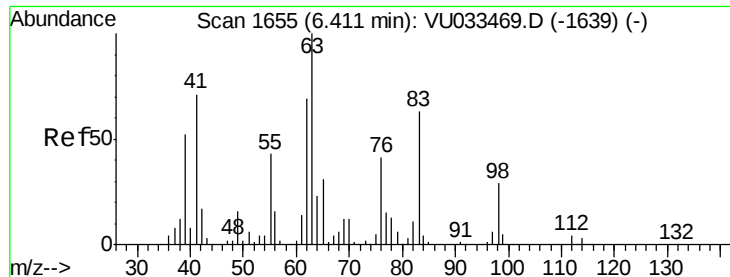
60000

40000

20000

0

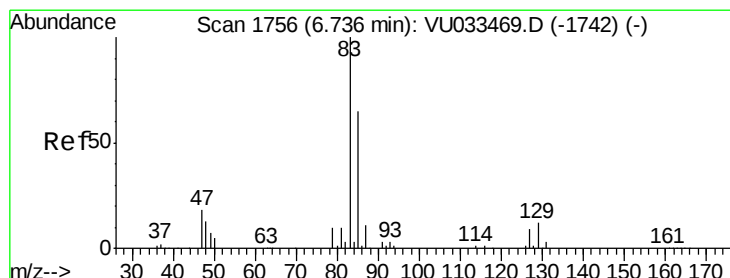
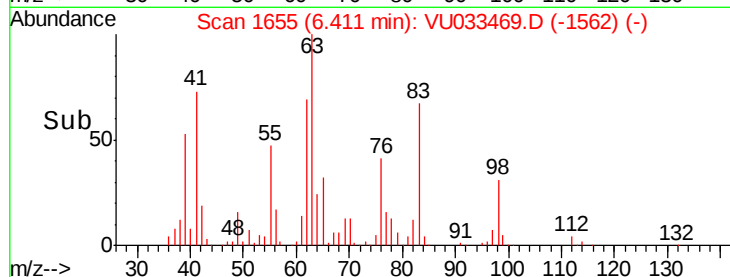
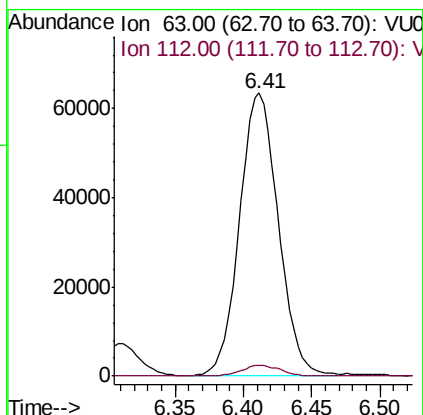
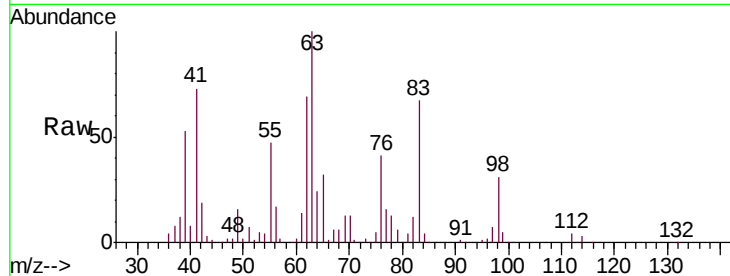
Time-->



#37
 1,2-Dichloropropane
 Concen: 50.000 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

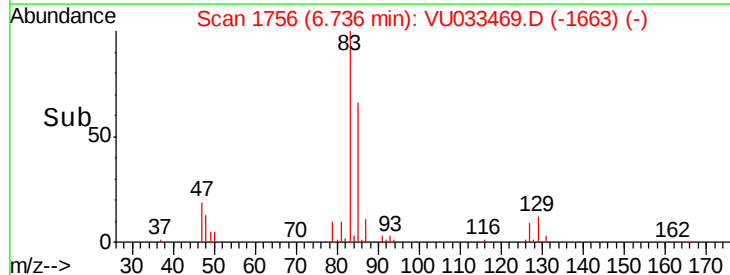
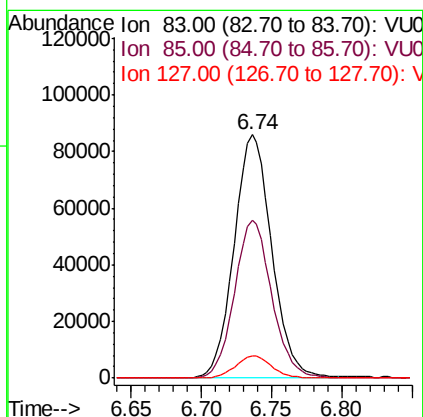
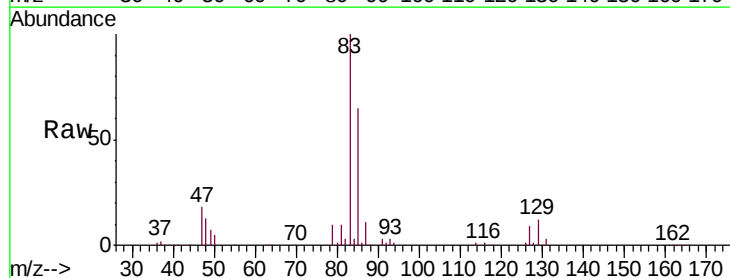
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

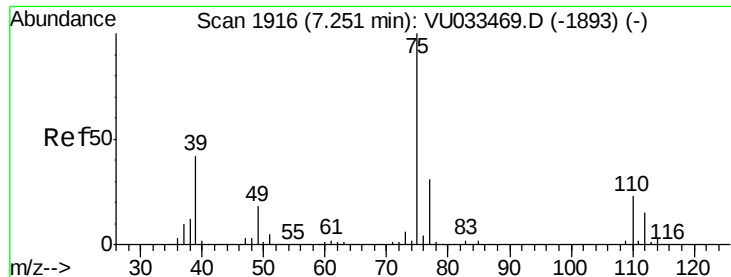
Tgt Ion: 63 Resp: 124574
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#38
 Bromodichloromethane
 Concen: 50.000 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Tgt Ion: 83 Resp: 161296
 Ion Ratio Lower Upper
 83 100
 85 64.9 45.4 84.4
 127 9.1 7.3 10.9

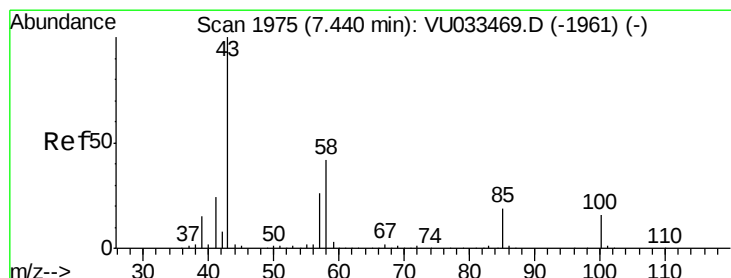
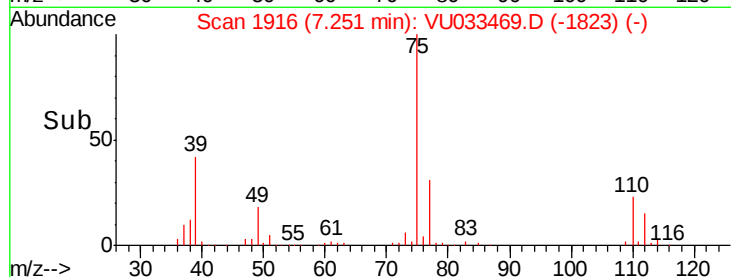
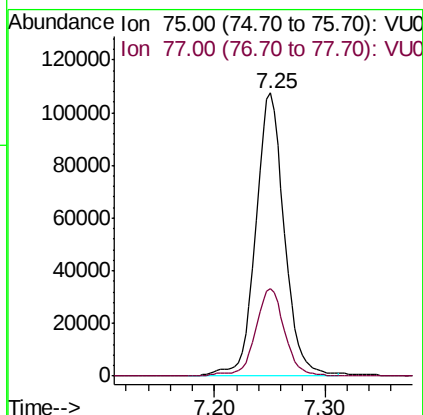
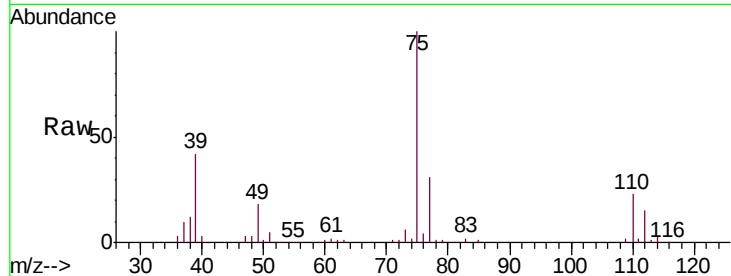




#39
 cis-1,3-Dichloropropene
 Concen: 50.000 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

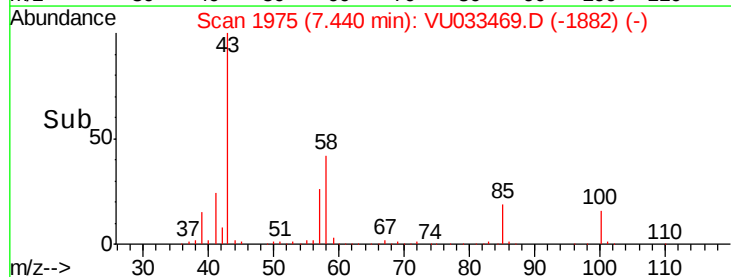
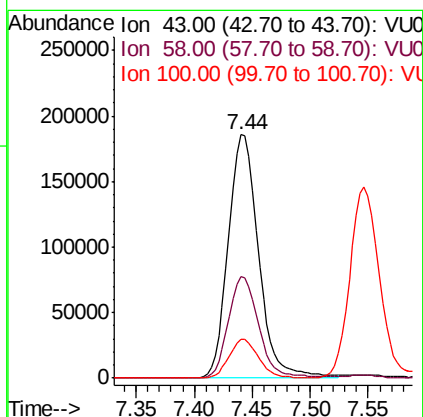
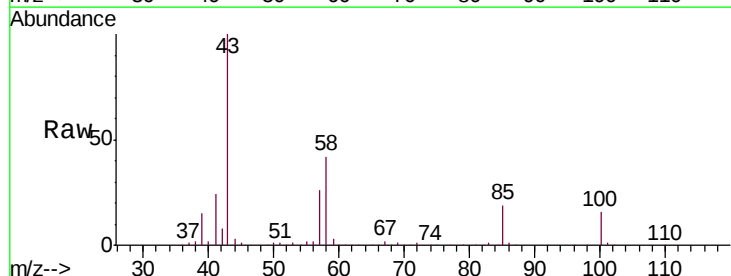
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

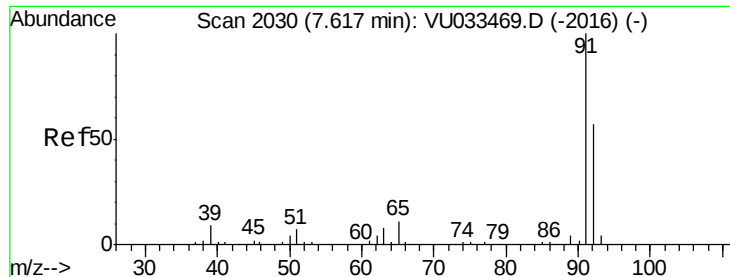
Tgt Ion: 75 Resp: 193895
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 100.000 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Tgt Ion: 43 Resp: 336696
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.4 50.2
 100 15.4 12.3 18.5





#42

Toluene

Concen: 50.000 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

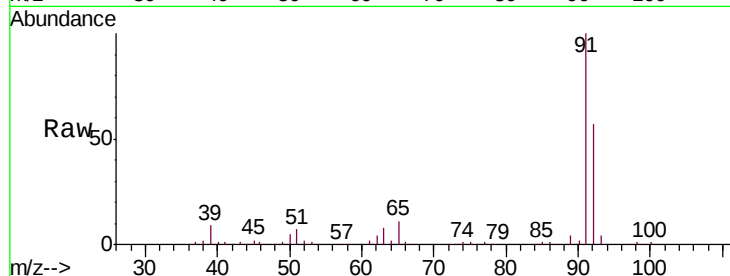
VSTD05035

Tgt Ion: 91 Resp: 517054

Ion Ratio Lower Upper

91 100

92 57.3 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU033469.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033469.D (-2016) (-)

7.62

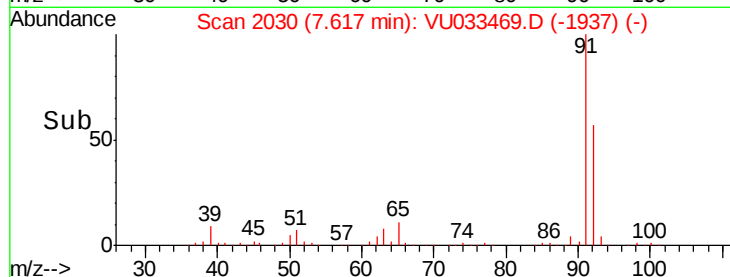
300000

200000

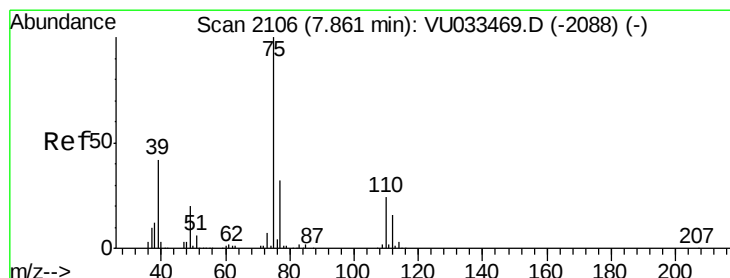
100000

0

Time-->



Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.000 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033469.D

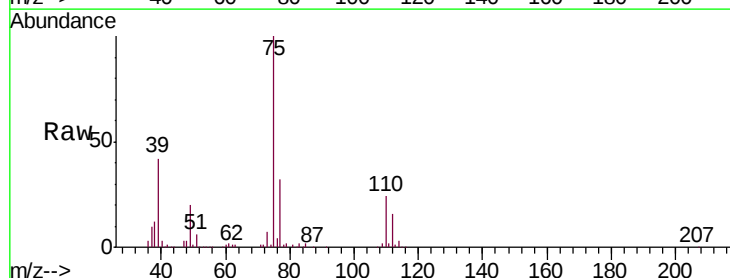
Acq: 29 Jul 2019 12:34

Tgt Ion: 75 Resp: 173218

Ion Ratio Lower Upper

75 100

77 31.9 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033469.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033469.D (-2088) (-)

7.86

100000

80000

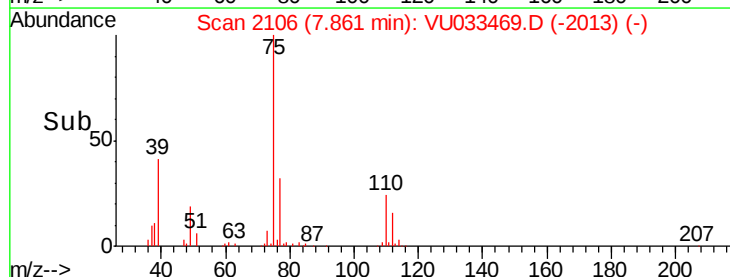
60000

40000

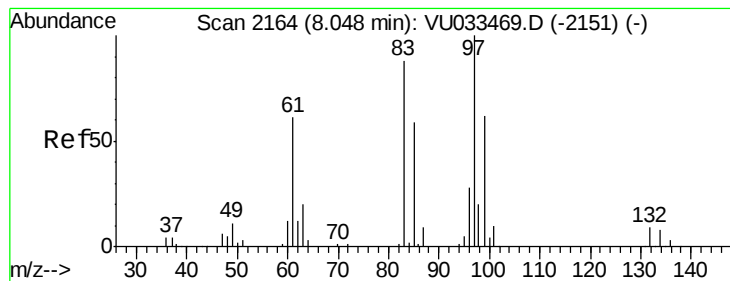
20000

0

Time-->



Time-->



#45

1,1,2-Trichloroethane

Concen: 50.000 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tgt Ion: 97 Resp: 118936

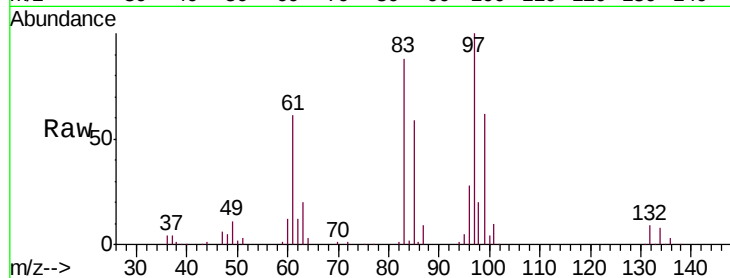
Ion Ratio Lower Upper

97 100

99 61.9 43.3 80.5

83 87.6 61.3 113.9

85 58.6 41.0 76.2

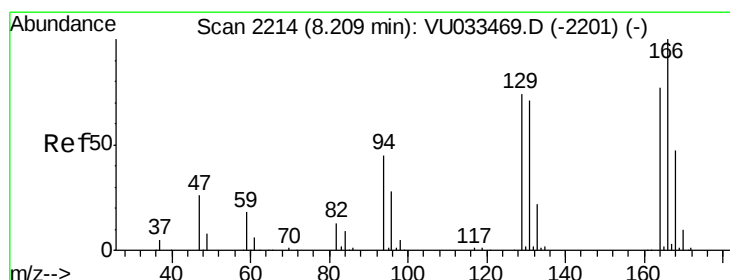
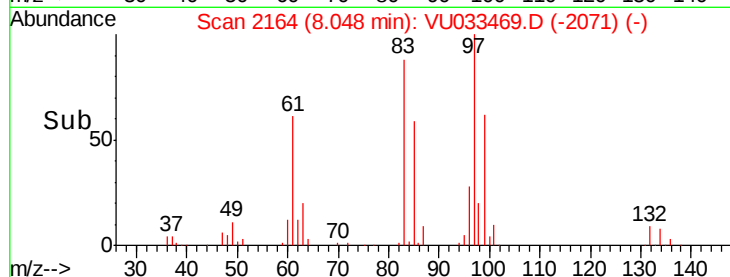
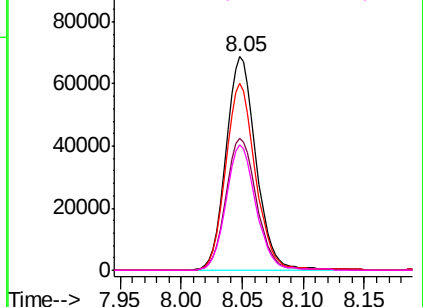


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 50.000 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Tgt Ion:164 Resp: 95571

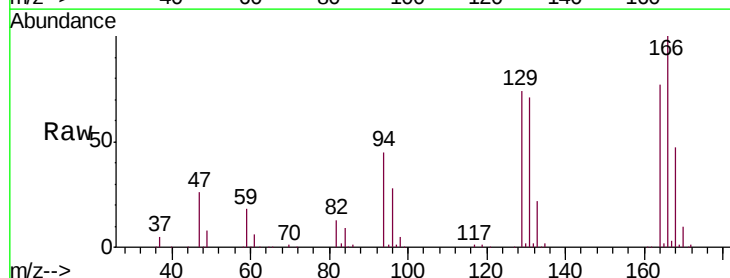
Ion Ratio Lower Upper

164 100

129 95.2 66.6 123.8

131 91.3 63.9 118.7

166 129.3 90.5 168.1

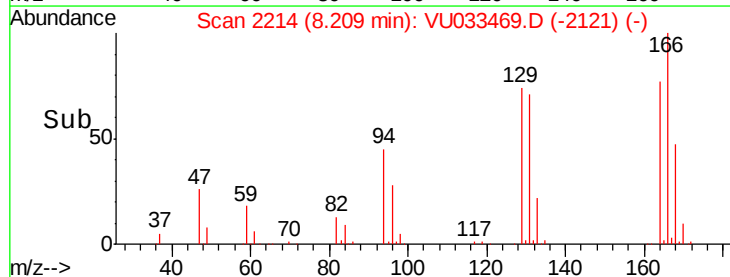
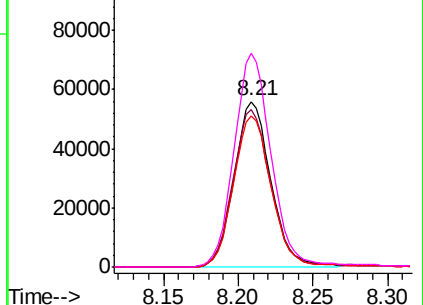


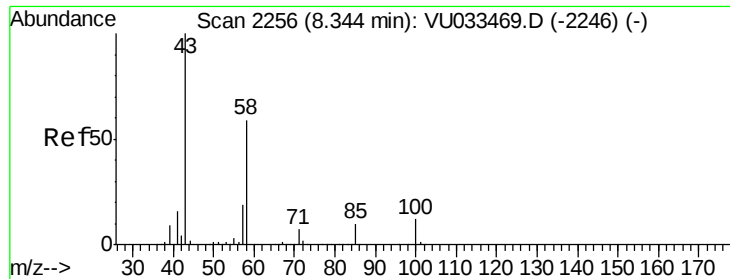
Abundance Ion 164.00 (163.70 to 164.70): V

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

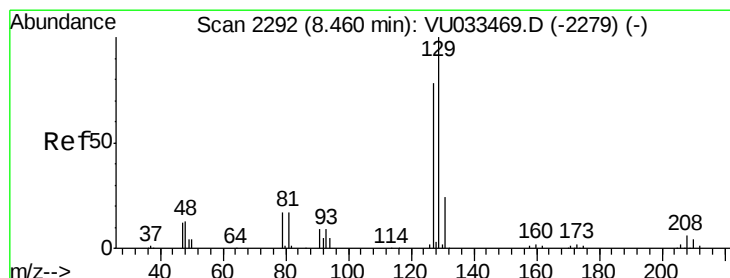
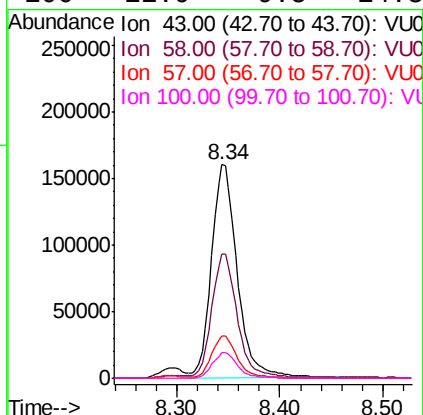
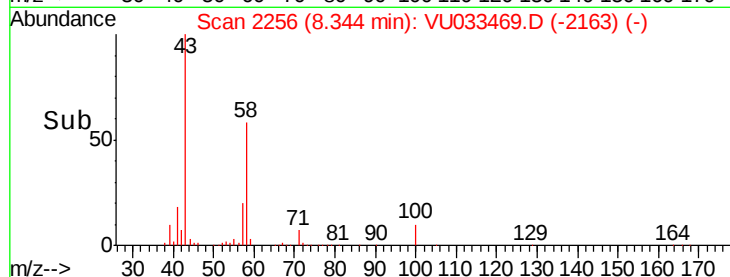
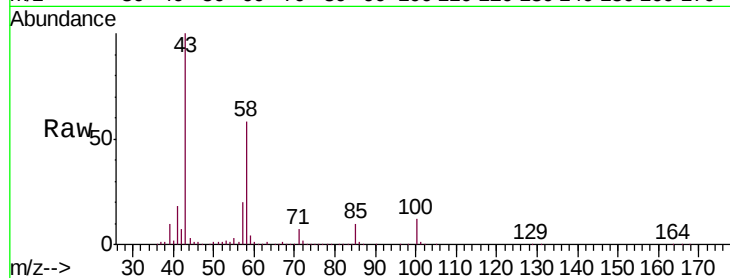




#48
2-Hexanone
Concen: 100.000 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

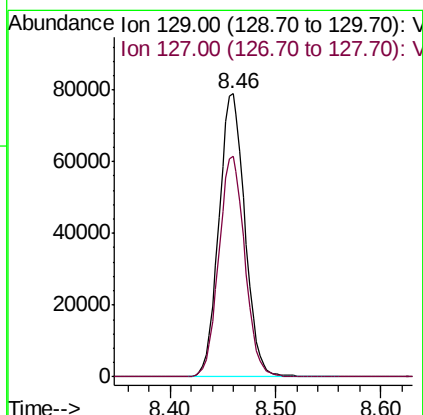
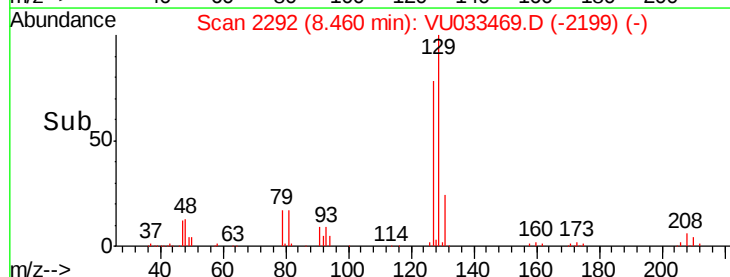
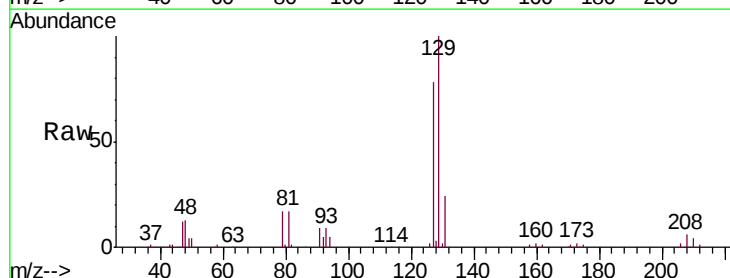
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

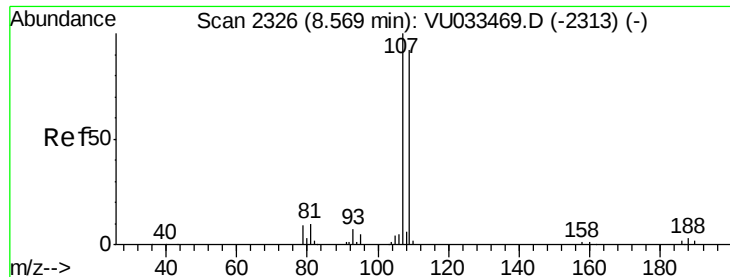
Tgt Ion: 43 Resp: 276480
Ion Ratio Lower Upper
43 100
58 58.2 46.6 69.8
57 20.0 16.0 24.0
100 11.9 9.5 14.3



#49
Dibromochloromethane
Concen: 50.000 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion: 129 Resp: 134636
Ion Ratio Lower Upper
129 100
127 77.8 54.5 101.1

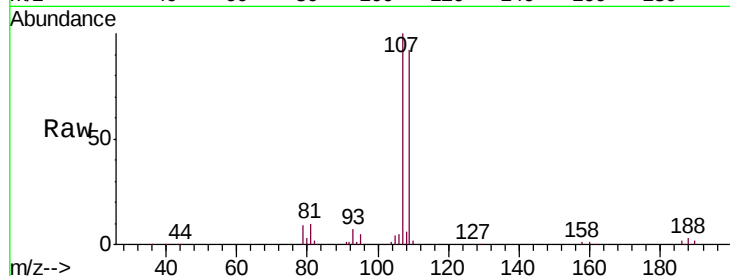




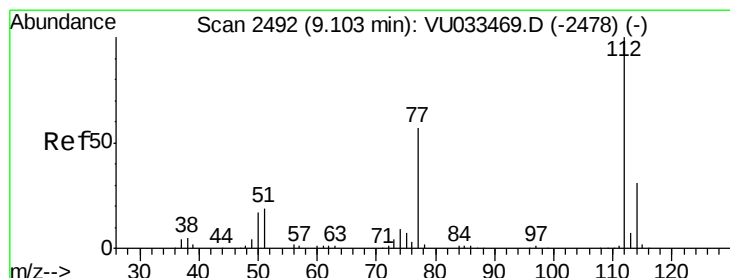
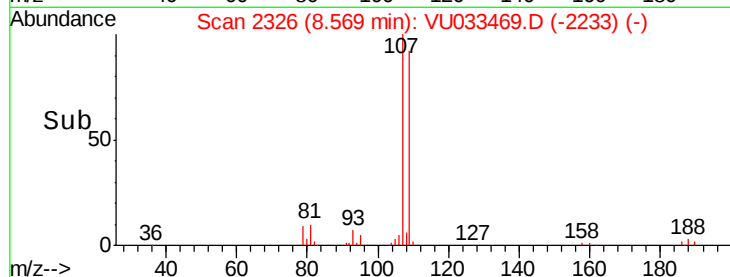
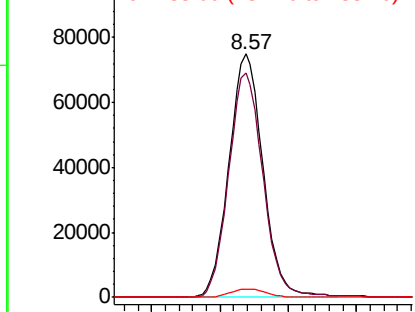
#50
1,2-Dibromoethane
Concen: 50.000 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion:107 Resp: 129812
Ion Ratio Lower Upper
107 100
109 92.4 64.7 120.1
188 3.5 2.8 4.2

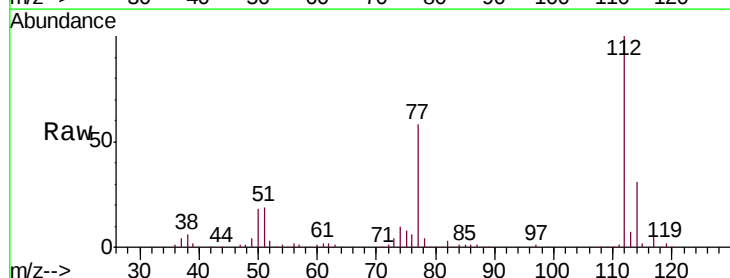


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

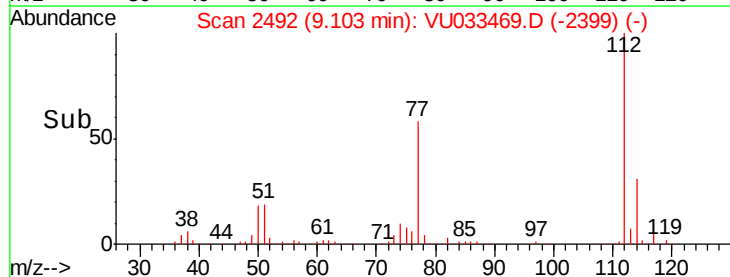
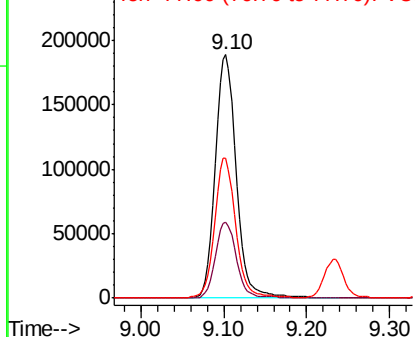


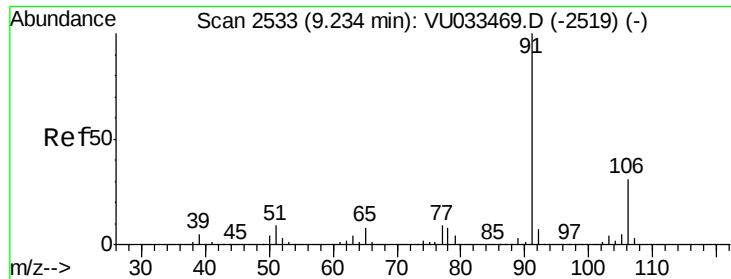
#51
Chlorobenzene
Concen: 50.000 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion:112 Resp: 330534
Ion Ratio Lower Upper
112 100
114 31.3 21.9 40.7
77 57.6 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

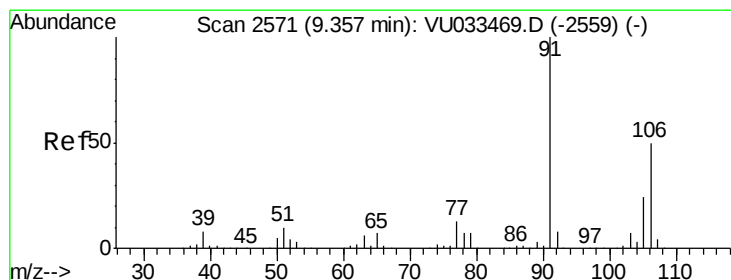
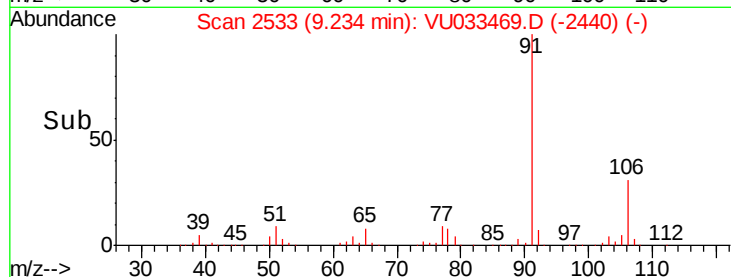
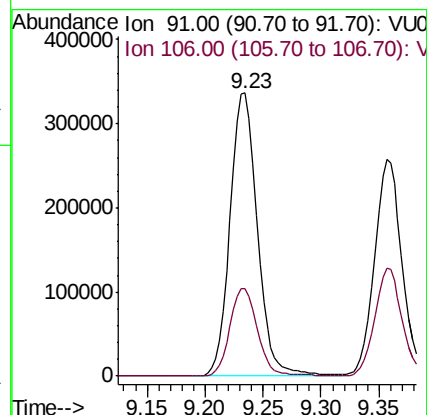
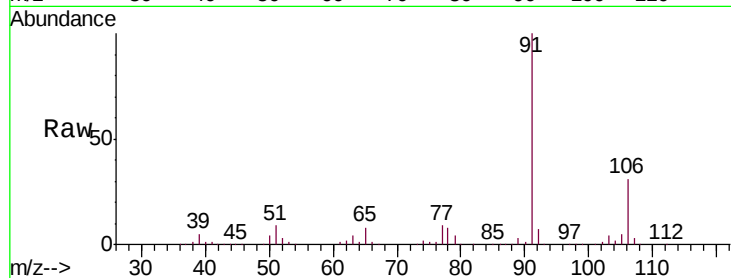




#52
Ethylbenzene
Concen: 50.000 ug/L
RT: 9.23 min Scan# 2533
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

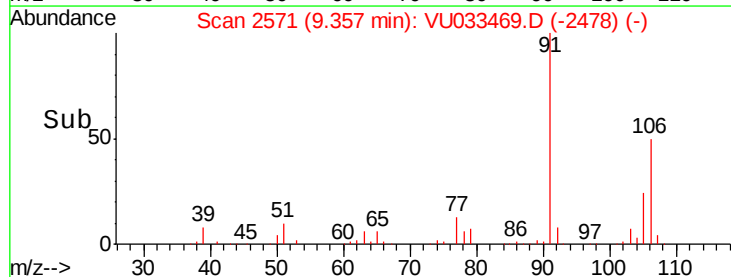
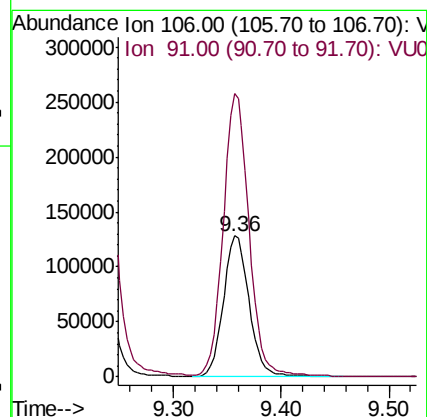
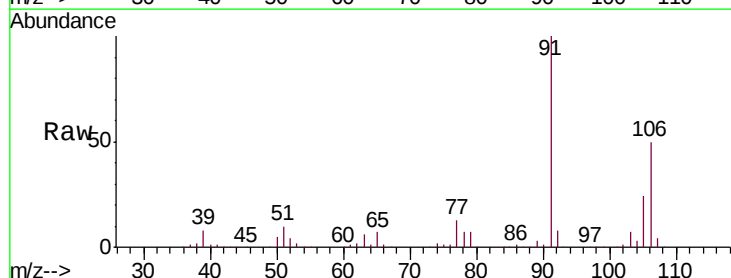
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

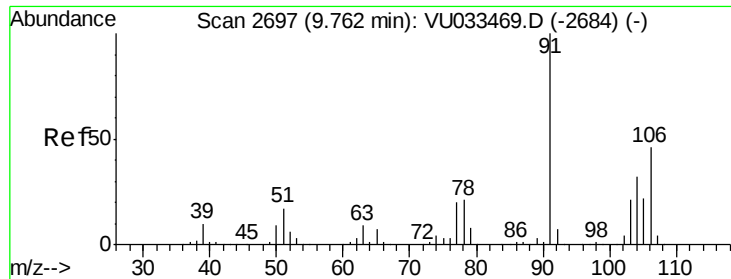
Tgt Ion: 91 Resp: 552584
Ion Ratio Lower Upper
91 100
106 30.9 21.6 40.2



#53
m,p-Xylene
Concen: 50.000 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion: 106 Resp: 213013
Ion Ratio Lower Upper
106 100
91 201.0 140.7 261.3





#54

o-xylene

Concen: 50.000 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

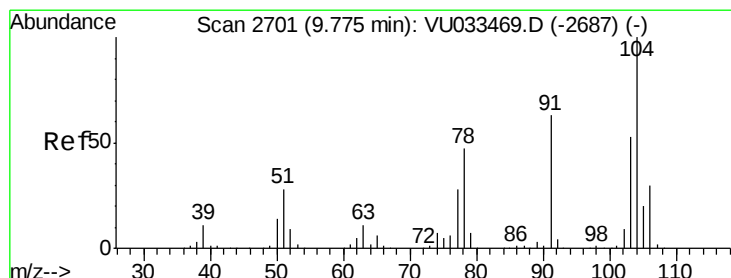
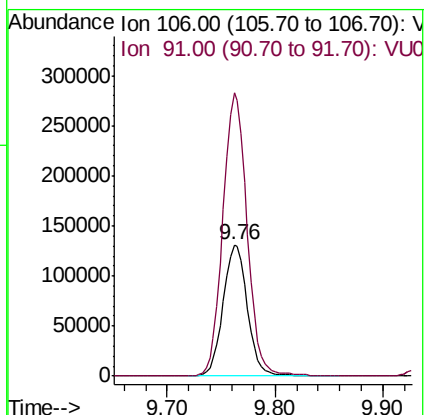
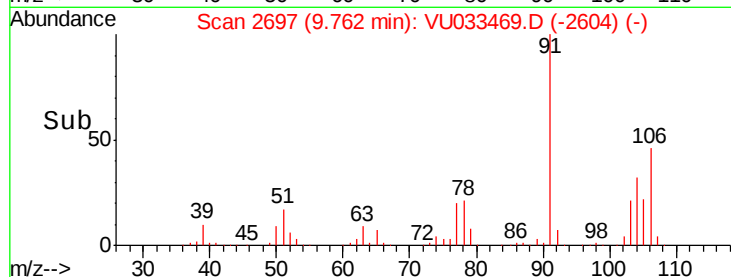
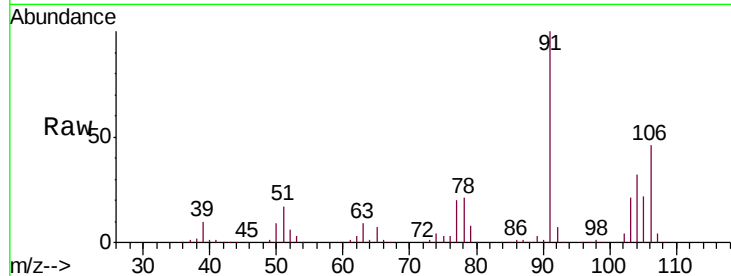
VSTD05035

Tgt Ion:106 Resp: 205896

Ion Ratio Lower Upper

106 100

91 215.9 151.1 280.7



#55

Styrene

Concen: 50.000 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033469.D

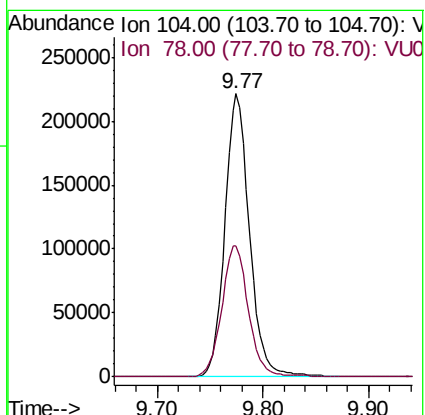
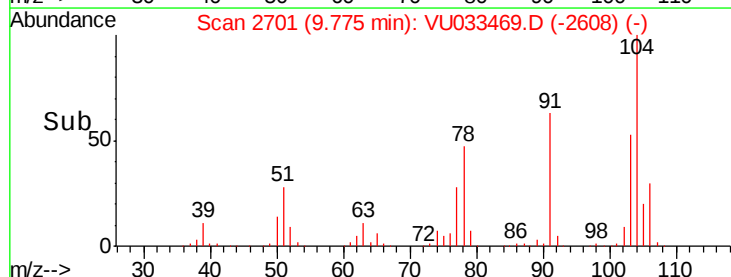
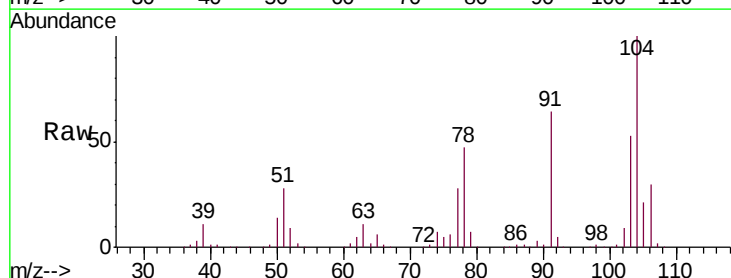
Acq: 29 Jul 2019 12:34

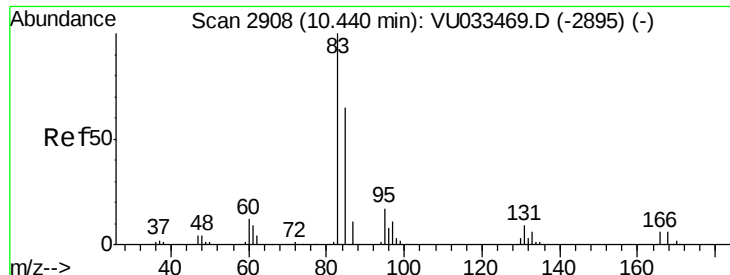
Tgt Ion:104 Resp: 356808

Ion Ratio Lower Upper

104 100

78 46.5 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 50.000 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

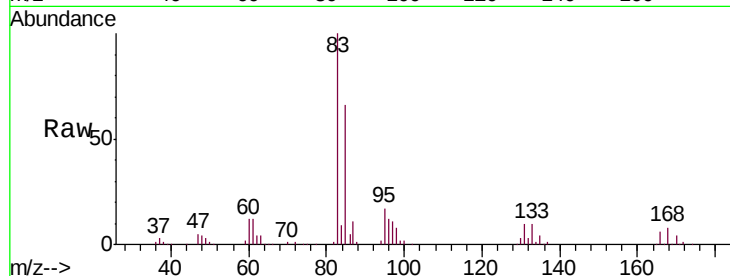
Tgt Ion: 83 Resp: 206312

Ion Ratio Lower Upper

83 100

85 65.6 45.9 85.3

131 9.8 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VU033469.D (-2895) (-)

Ion 85.00 (84.70 to 85.70): VU033469.D (-2895) (-)

Ion 131.00 (130.70 to 131.70): VU033469.D (-2895) (-)

10.44

150000

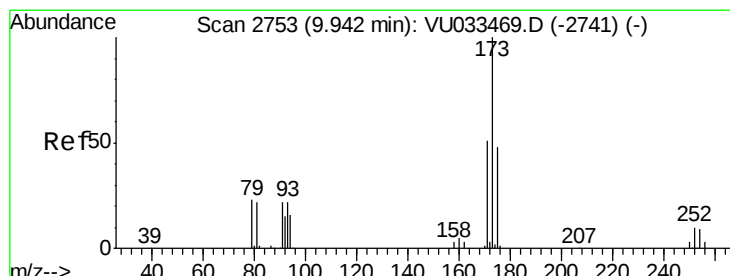
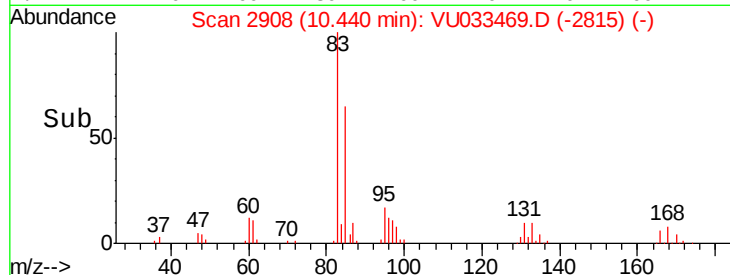
100000

50000

0

Time-->

10.40 10.50



#59

Bromoform

Concen: 50.000 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

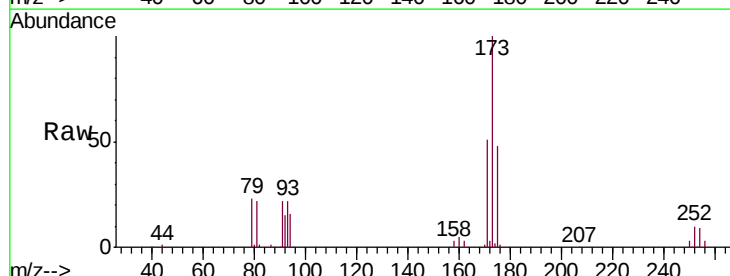
Tgt Ion: 173 Resp: 100050

Ion Ratio Lower Upper

173 100

175 47.6 38.1 57.1

254 9.1 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU033469.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033469.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033469.D (-2741) (-)

9.94

80000

60000

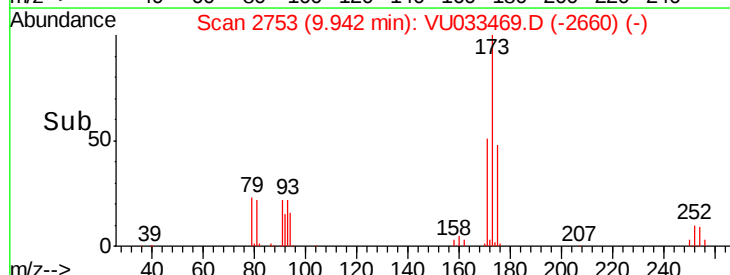
40000

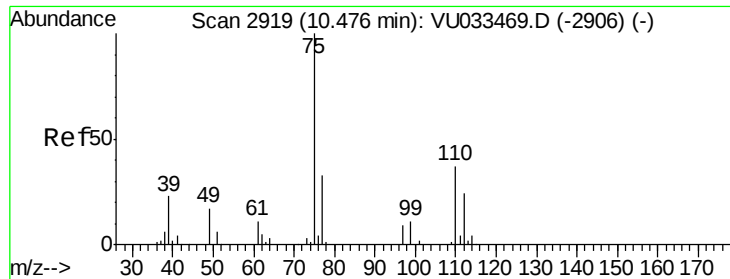
20000

0

Time-->

9.90 10.00





#60

1,2,3-Trichloropropane

Concen: 50.000 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

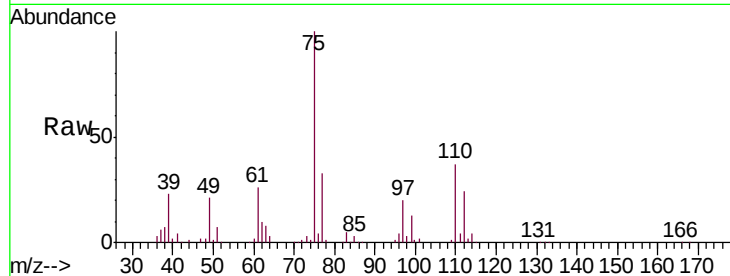
Tgt Ion: 75 Resp: 162004

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9

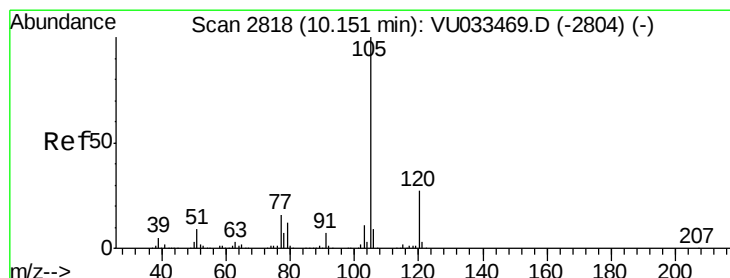
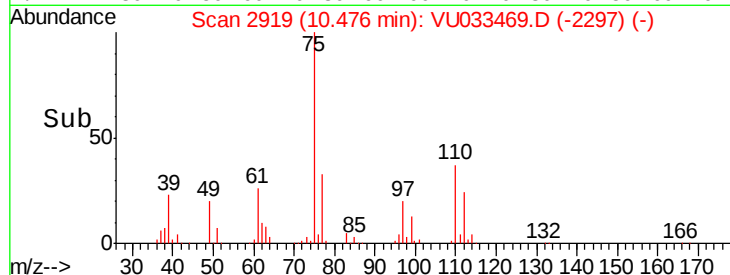
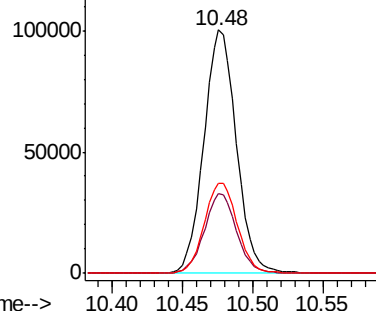
110 37.8 30.2 45.4



Abundance Ion 75.00 (74.70 to 75.70): VU033469.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033469.D (-2906) (-)

Ion 110.00 (109.70 to 110.70): VU033469.D (-2906) (-)



#61

Isopropylbenzene

Concen: 50.000 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

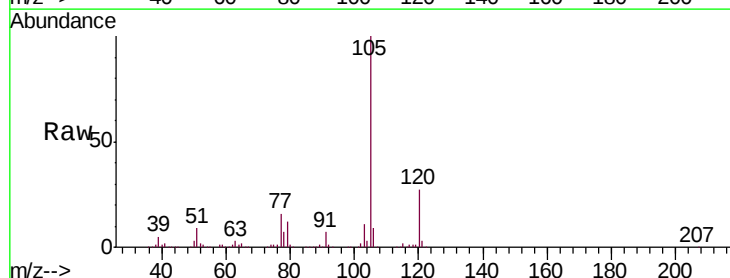
Tgt Ion: 105 Resp: 532804

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

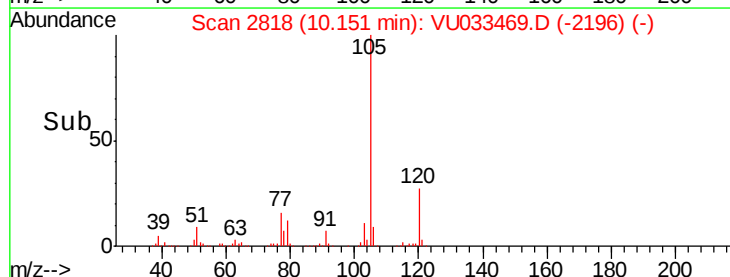
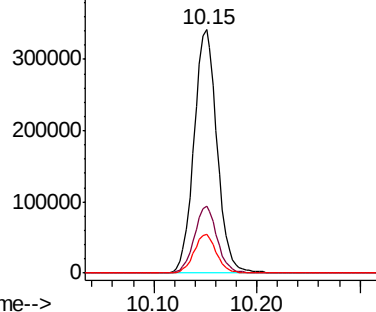
77 15.8 12.6 19.0

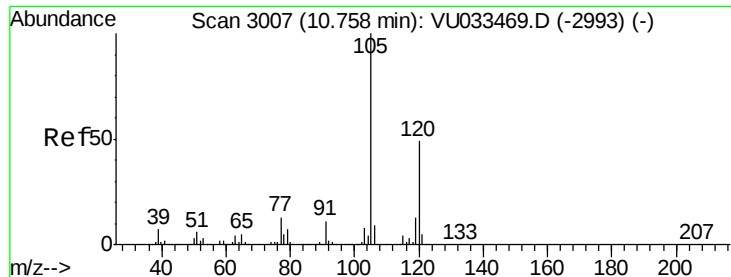


Abundance Ion 105.00 (104.70 to 105.70): VU033469.D (-2804) (-)

Ion 120.00 (119.70 to 120.70): VU033469.D (-2804) (-)

Ion 77.00 (76.70 to 77.70): VU033469.D (-2804) (-)





#62

1,3,5-Trimethylbenzene

Concen: 50.000 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

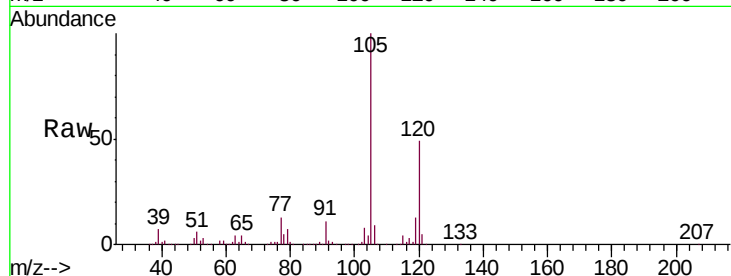
VSTD05035

Tgt Ion:105 Resp: 445792

Ion Ratio Lower Upper

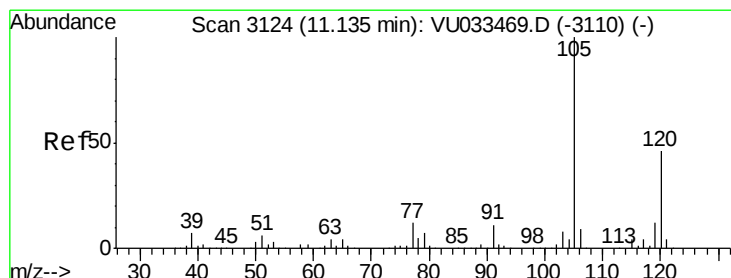
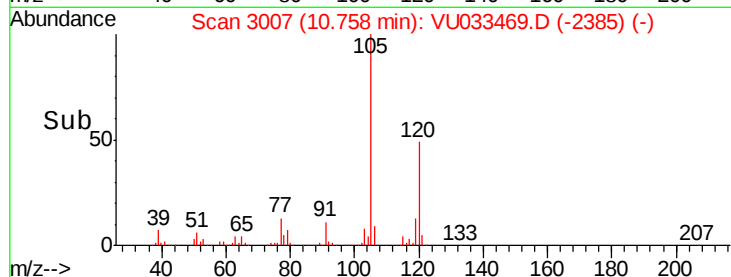
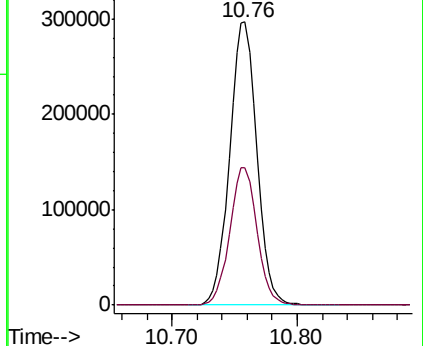
105 100

120 48.8 39.0 58.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 50.000 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033469.D

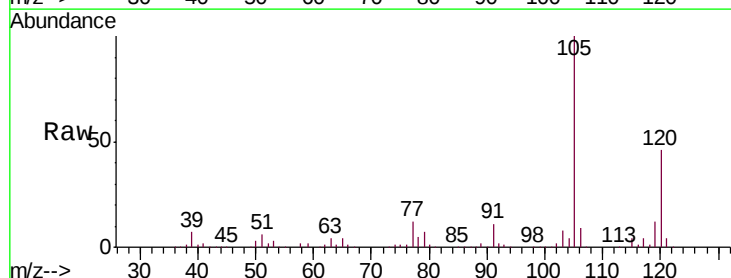
Acq: 29 Jul 2019 12:34

Tgt Ion:105 Resp: 449133

Ion Ratio Lower Upper

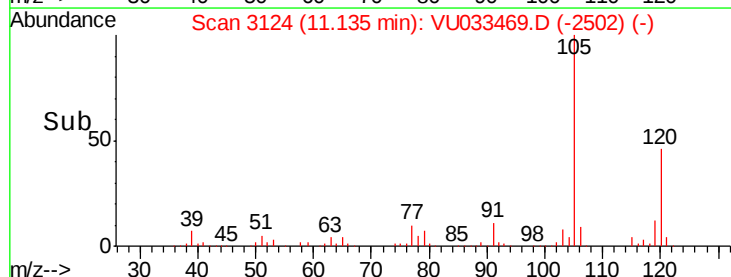
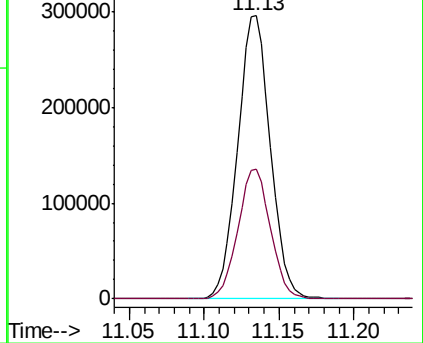
105 100

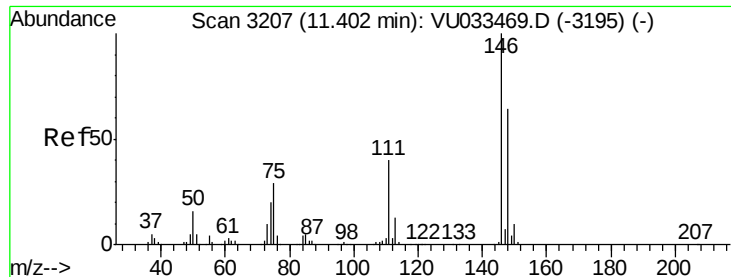
120 45.8 36.6 55.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 50.000 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

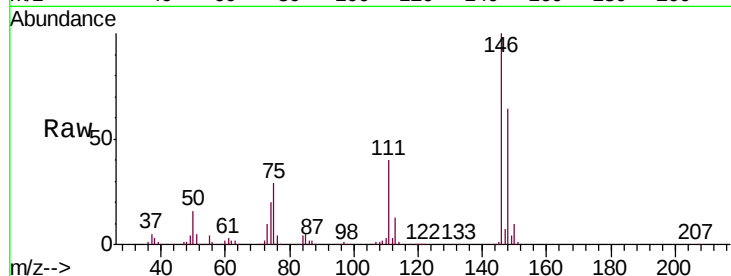
Tgt Ion:146 Resp: 258144

Ion Ratio Lower Upper

146 100

111 40.3 28.2 52.4

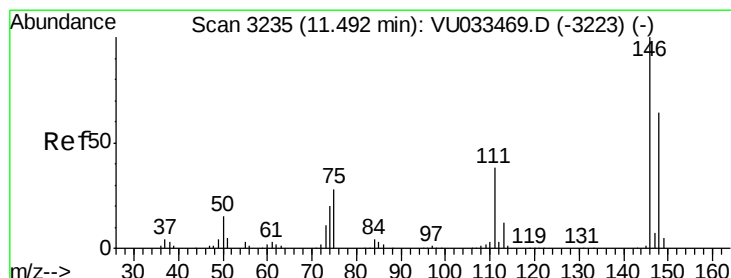
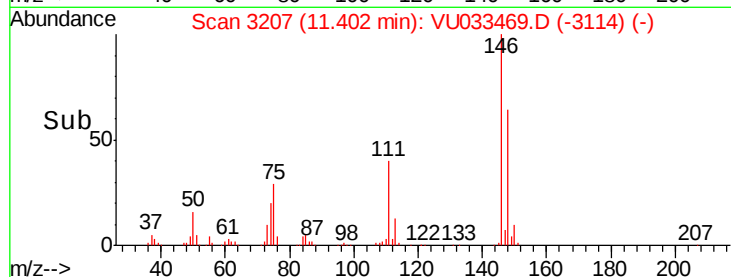
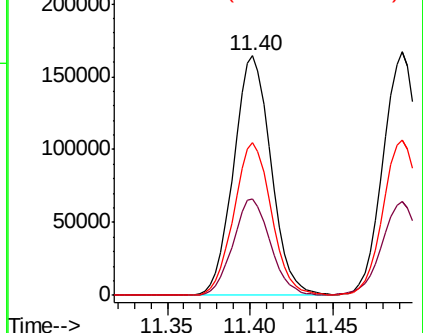
148 63.5 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 50.000 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033469.D

Acq: 29 Jul 2019 12:34

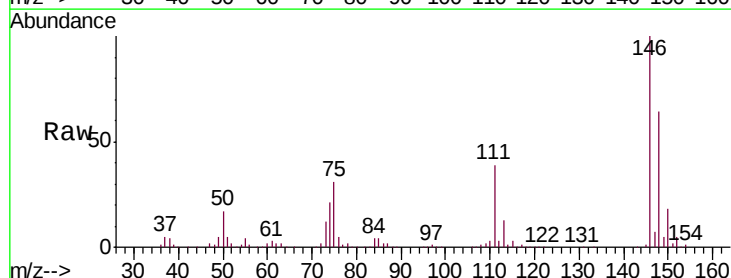
Tgt Ion:146 Resp: 260553

Ion Ratio Lower Upper

146 100

111 38.6 27.0 50.2

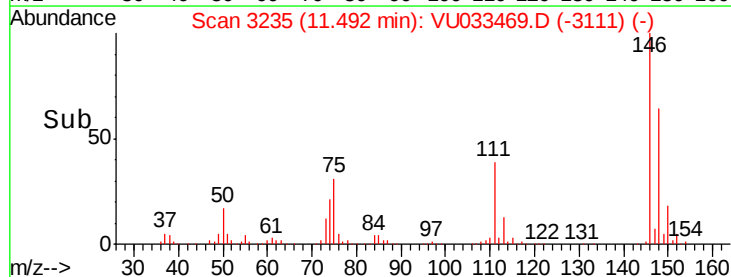
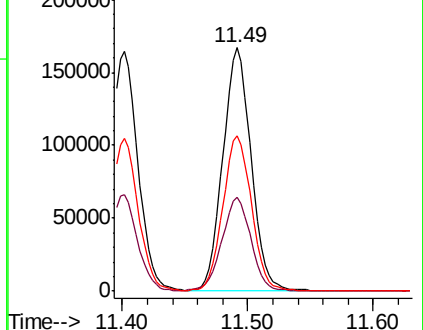
148 63.8 44.7 82.9

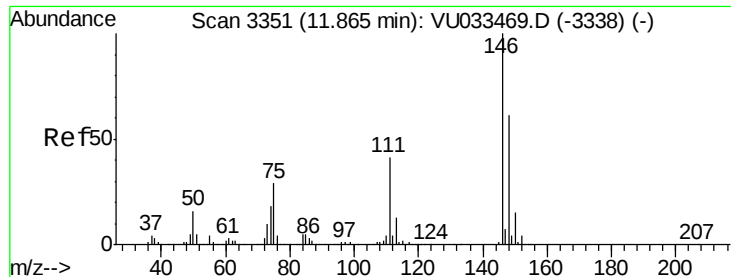


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

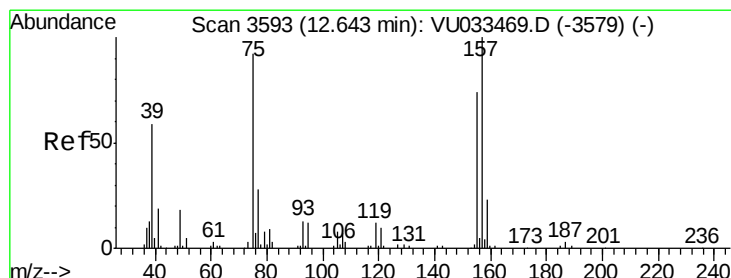
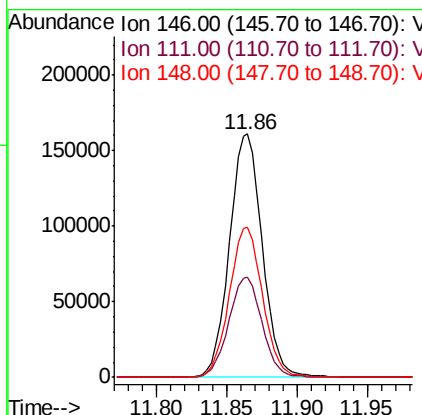
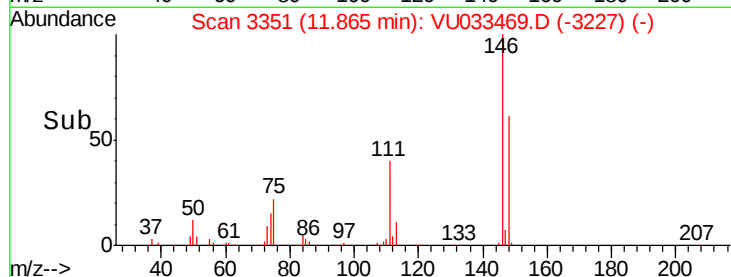
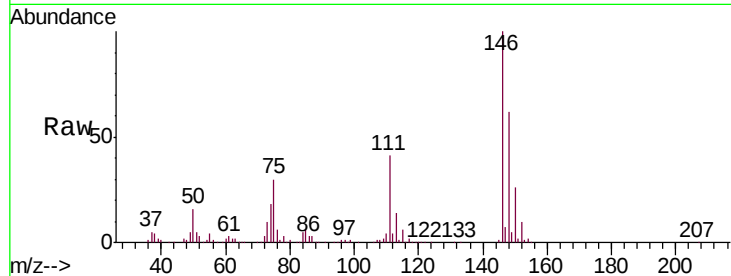




#67
 1,2-Dichlorobenzene
 Concen: 50.000 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

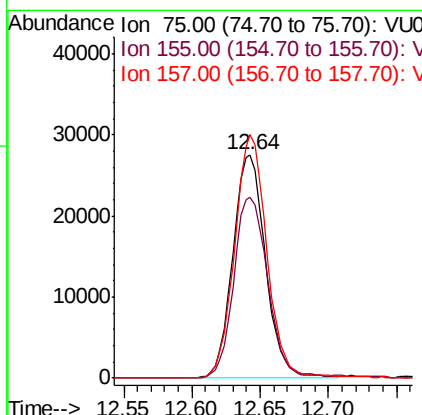
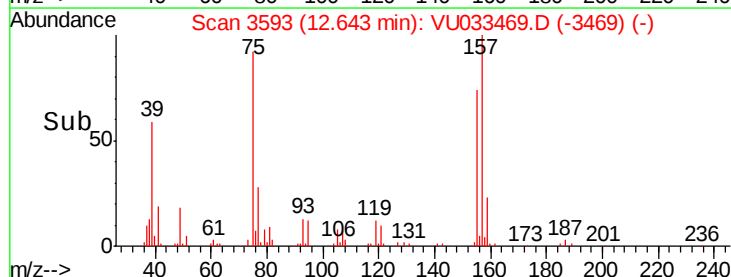
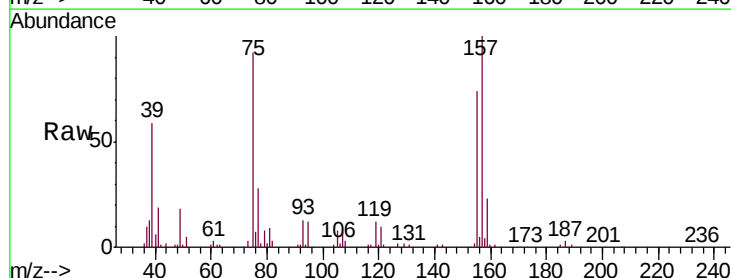
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

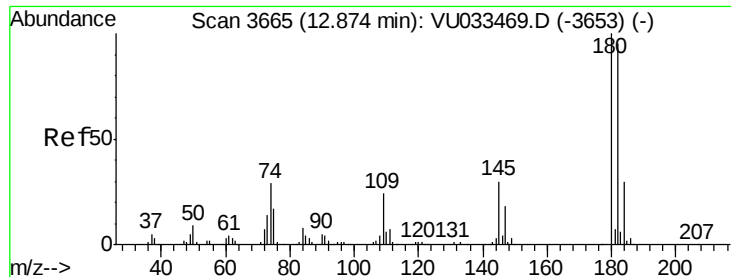
Tgt Ion: 146 Resp: 262842
 Ion Ratio Lower Upper
 146 100
 111 41.0 32.8 49.2
 148 61.5 49.2 73.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 50.000 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Tgt Ion: 75 Resp: 45939
 Ion Ratio Lower Upper
 75 100
 155 81.0 64.8 97.2
 157 108.9 87.1 130.7

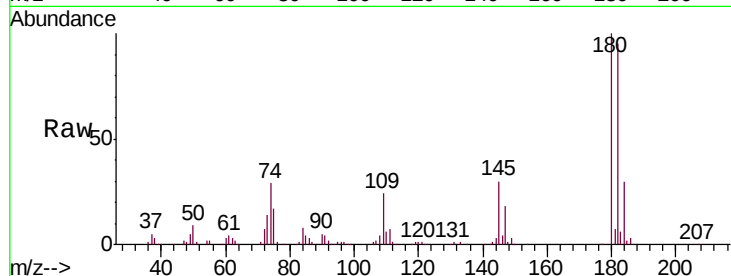




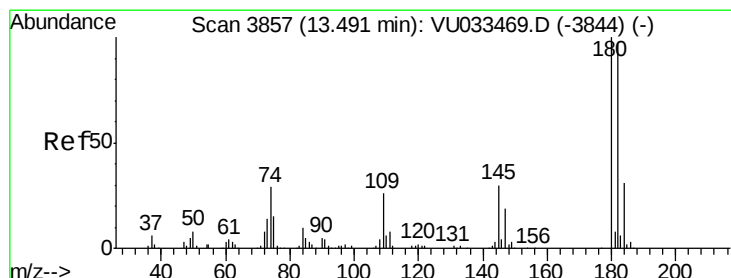
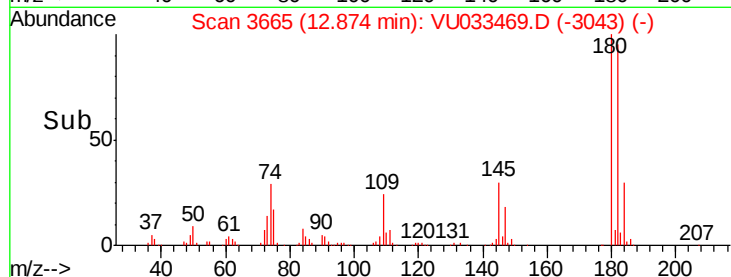
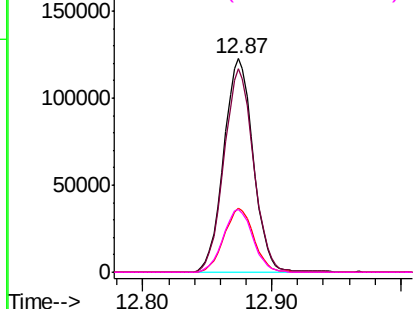
#69
 1,3,5-Trichlorobenzene
 Concen: 50.000 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tgt Ion:	180	Resp:	194909
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
184	30.1	24.1	36.1
145	29.6	23.7	35.5

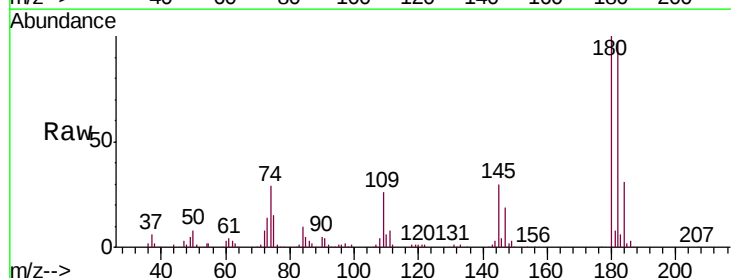


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

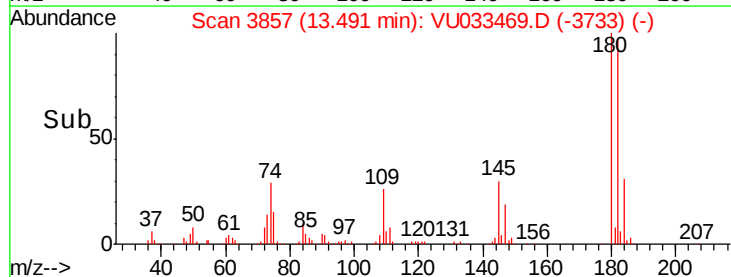
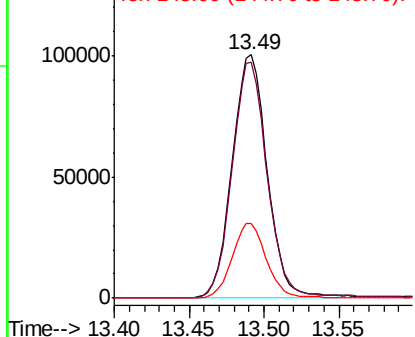


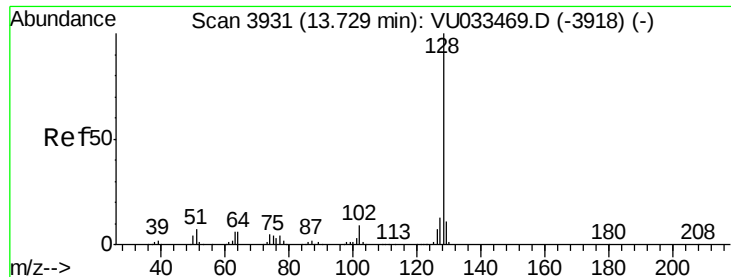
#70
 1,2,4-trichlorobenzene
 Concen: 50.000 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033469.D
 Acq: 29 Jul 2019 12:34

Tgt Ion:	180	Resp:	163959
Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.5	116.3
145	29.9	23.9	35.9



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

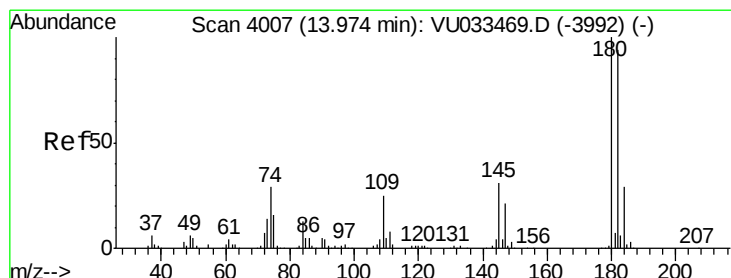
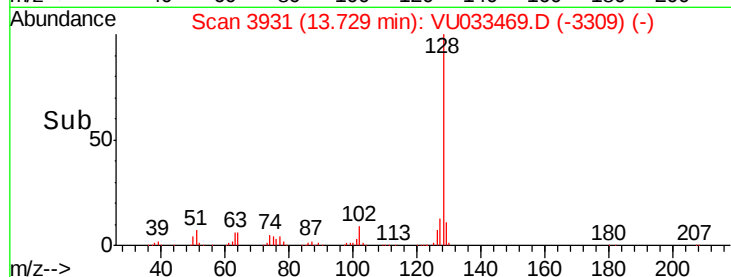
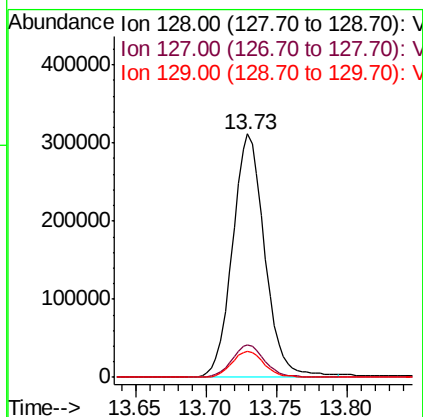
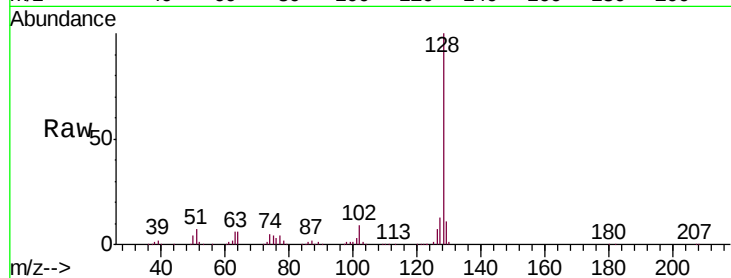




#71
Naphthalene
Concen: 50.000 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tgt Ion:128 Resp: 500082
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 10.9 8.7 13.1



#72
1,2,3-Trichlorobenzene
Concen: 50.000 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033469.D
Acq: 29 Jul 2019 12:34

Tgt Ion:180 Resp: 177699
Ion Ratio Lower Upper
180 100
182 95.5 76.4 114.6
145 31.1 24.9 37.3

