

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019109.D
 Acq On : 24 Oct 2020 05:58
 Operator : JC/SP
 Sample : PB132563ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#08

Quant Time: Oct 26 05:40:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 22 17:51:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	268574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	469060	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	447328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	225741	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	164931	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
35) Dibromofluoromethane	5.46	113	145545	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	8.70	98	577376	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.12	95	204157	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	

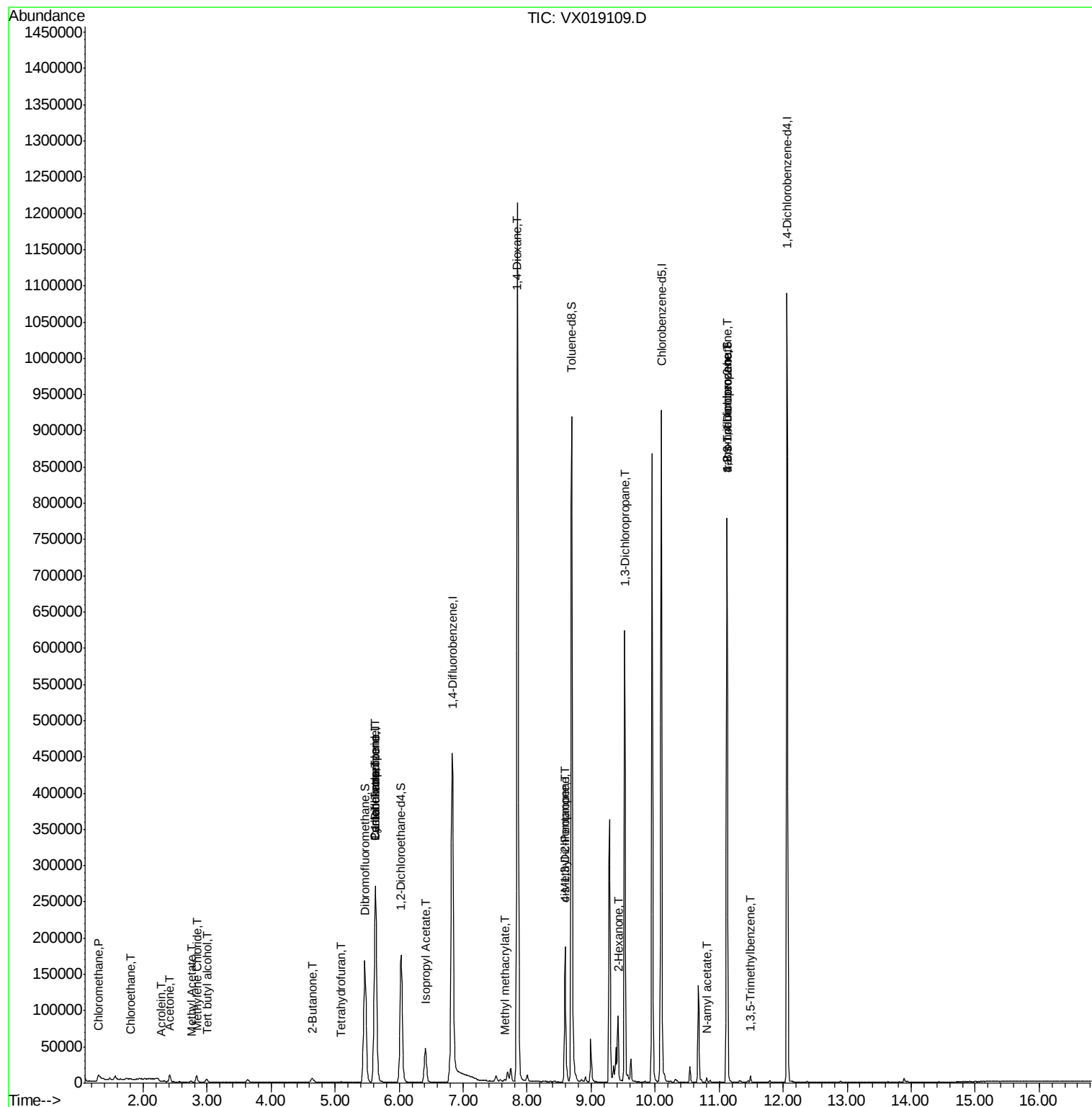
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	624	0.235	ug/l	91
5) Bromomethane	1.64	94	101	Below Cal	#	1
6) Chloroethane	1.81	64	330	1.393	ug/l #	43
11) Tert butyl alcohol	2.99	59	2750	4.221	ug/l #	73
13) Acrolein	2.28	56	89	13.967	ug/l #	1
16) Acetone	2.42	43	9959	9.089	ug/l	96
18) Methyl Acetate	2.75	43	2476	0.911	ug/l	97
20) Methylene Chloride	2.84	84	4543	1.489	ug/l	91
25) 2-Butanone	4.64	43	2540	1.467	ug/l	100
29) Tetrahydrofuran	5.09	42	398	0.385	ug/l #	50
31) Cyclohexane	5.63	56	5300	1.407	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	19806	4.706	ug/l #	49
38) Carbon Tetrachloride	5.63	117	25709	5.820	ug/l #	16
43) Isopropyl Acetate	6.41	43	60900	10.010	ug/l	99
48) Methyl methacrylate	7.65	41	3196	1.066	ug/l #	5
49) 1,4-Dioxane	7.85	88	237	3.499	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	60366	16.838	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	34702	6.554	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	6266	1.183	ug/l #	42
59) 2-Hexanone	9.42	43	54240	20.302	ug/l #	17
74) N-amyl acetate	10.80	43	2522	0.485	ug/l #	41
76) 1,2,3-Trichloropropane	11.12	75	102136	22.637	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	3563	0.266	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	102136	57.674	ug/l #	15

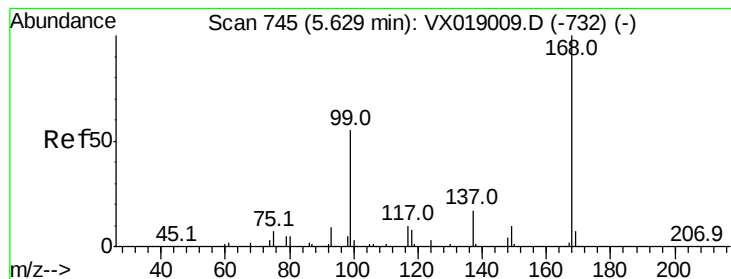
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 26 05:40:13 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 22 17:51:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

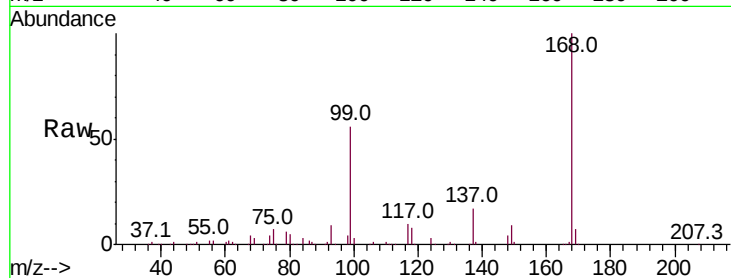
PB132563ZHE#08

Tot Ion:168 Resp: 268574

Ion Ratio Lower Upper

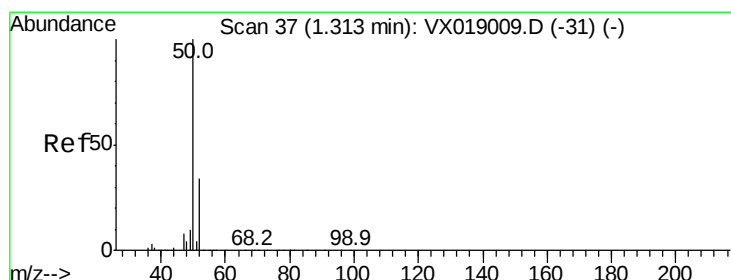
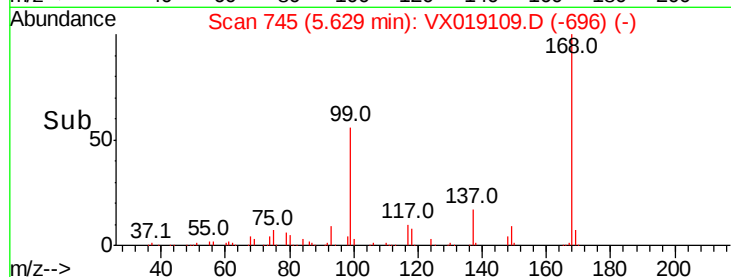
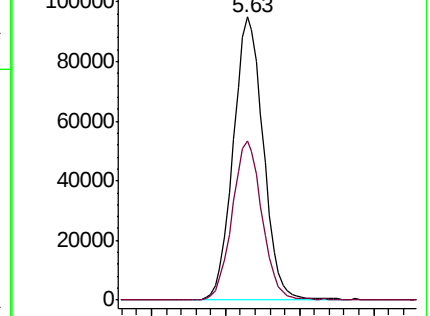
168 100

99 56.4 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019109.D

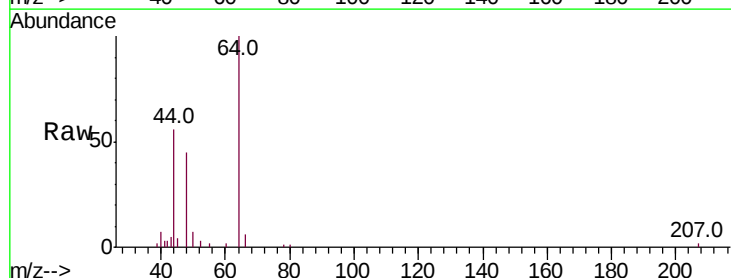
Acq: 24 Oct 2020 05:58

Tgt Ion: 50 Resp: 624

Ion Ratio Lower Upper

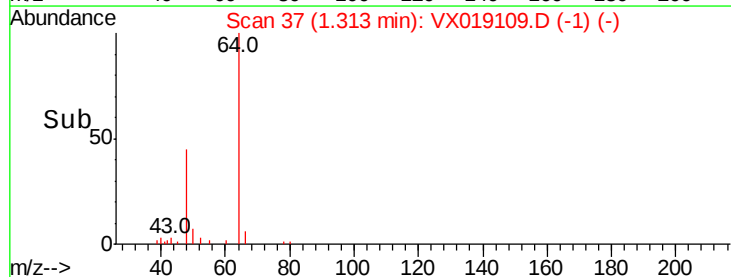
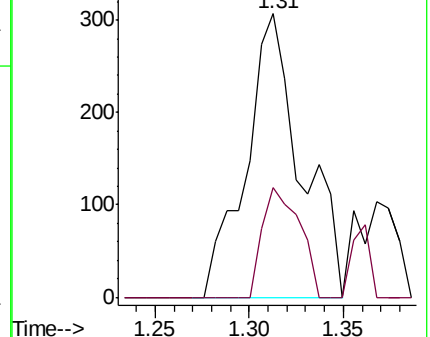
50 100

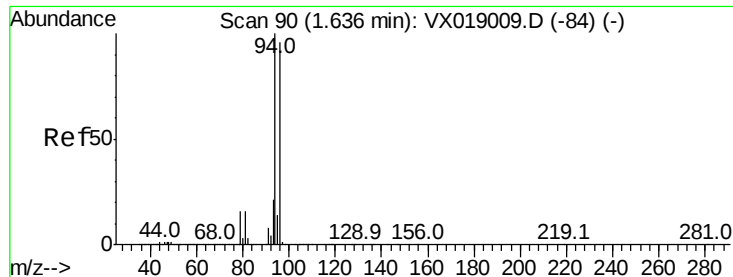
52 38.8 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

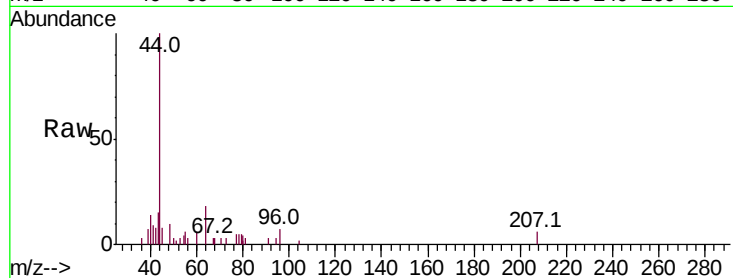
PB132563ZHE#08

Tot Ion: 94 Resp: 101

Ion Ratio Lower Upper

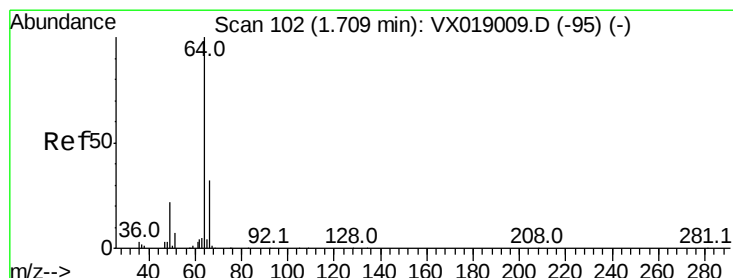
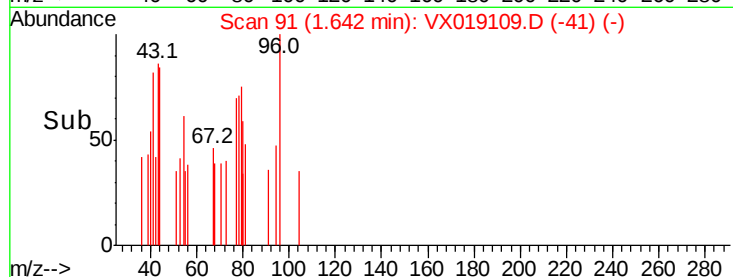
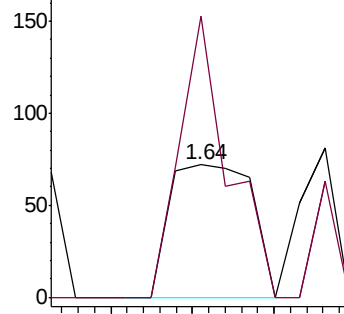
94 100

96 212.5 77.1 115.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.393 ug/l

RT: 1.81 min Scan# 119

Delta R.T. 0.10 min

Lab File: VX019109.D

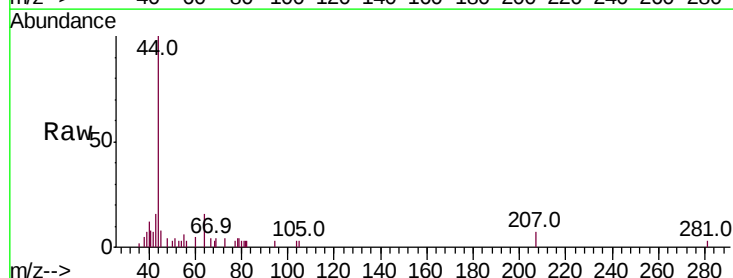
Acq: 24 Oct 2020 05:58

Tgt Ion: 64 Resp: 330

Ion Ratio Lower Upper

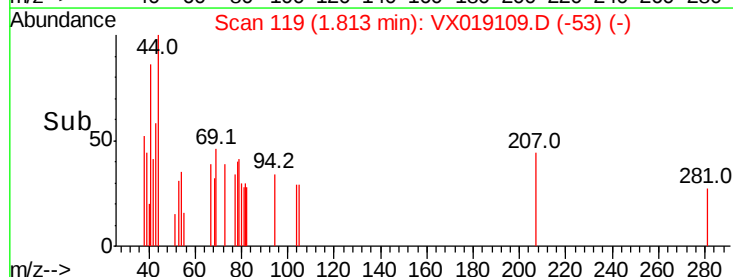
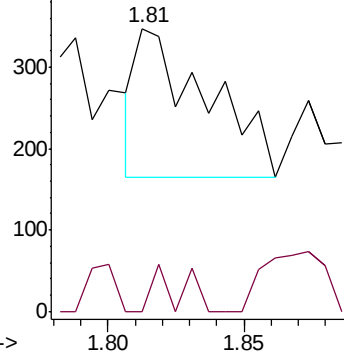
64 100

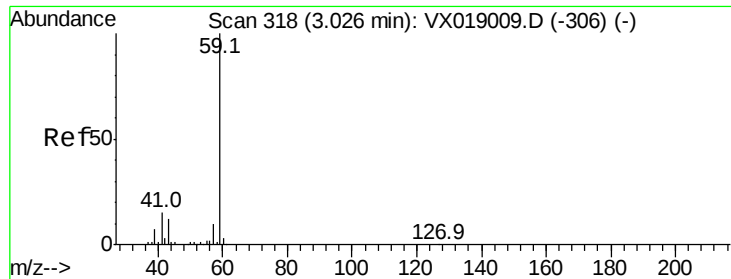
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

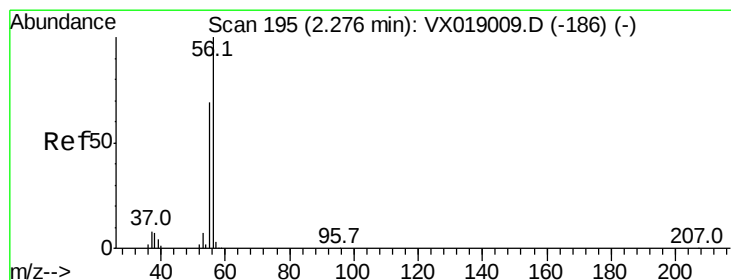
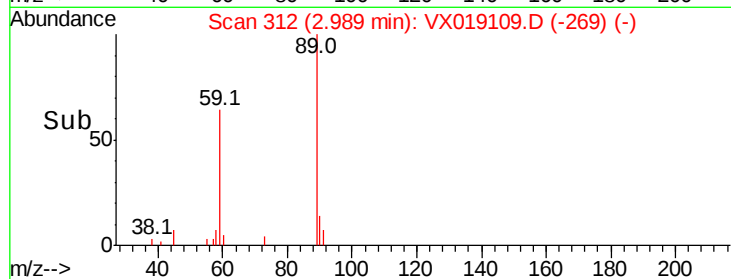
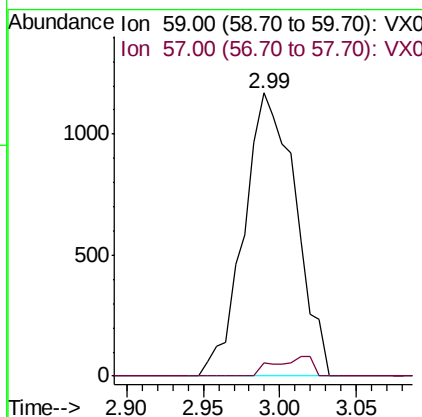
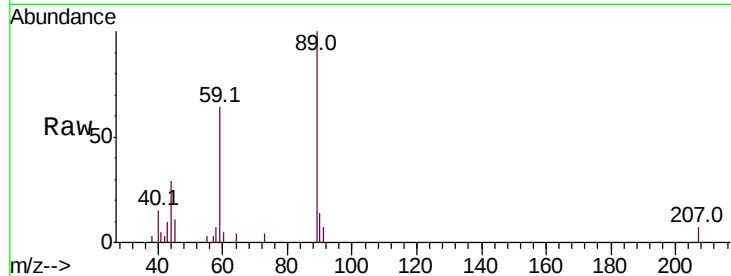




#11
Tert butyl alcohol
Concen: 4.221 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.04 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

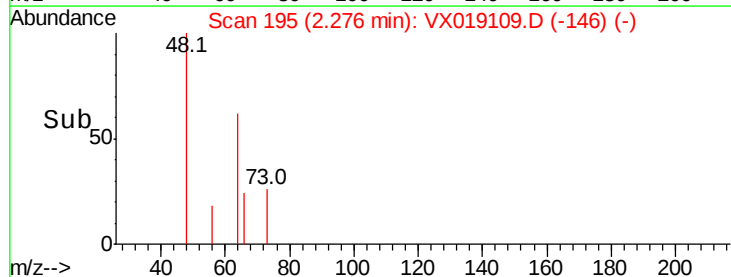
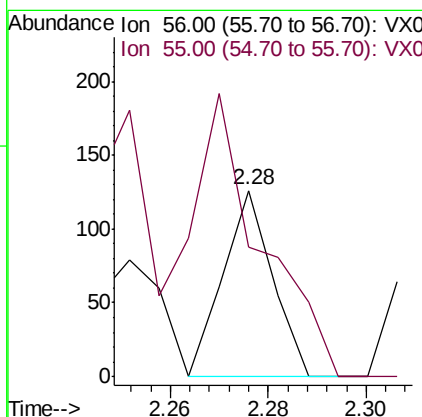
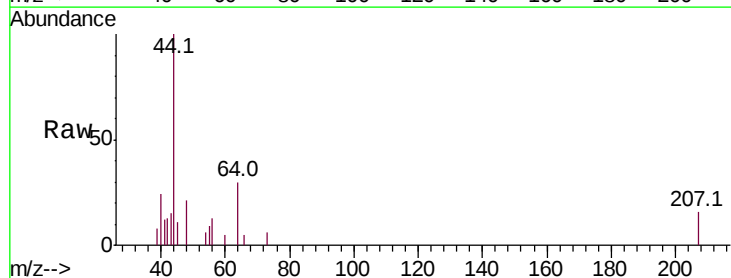
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#08

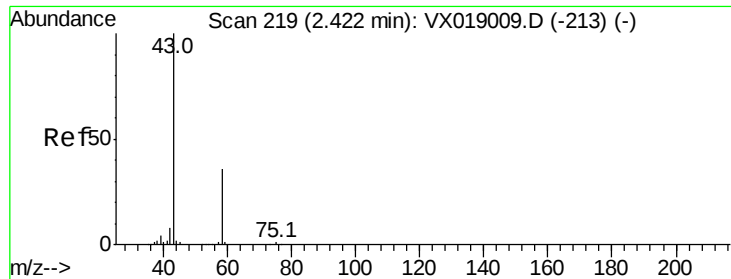
Tot Ion: 59 Resp: 2750
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 13.967 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

Tgt Ion: 56 Resp: 89
Ion Ratio Lower Upper
56 100
55 207.9 54.2 81.4#





#16

Acetone

Concen: 9.089 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

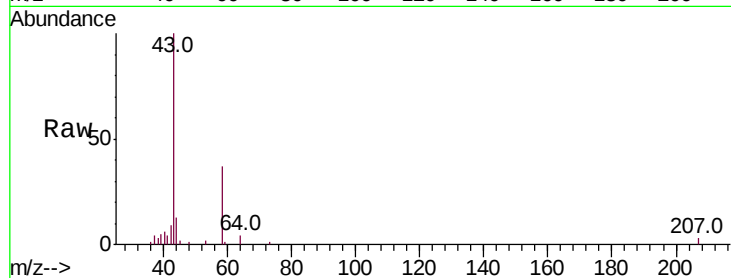
PB132563ZHE#08

Tot Ion: 43 Resp: 9959

Ion Ratio Lower Upper

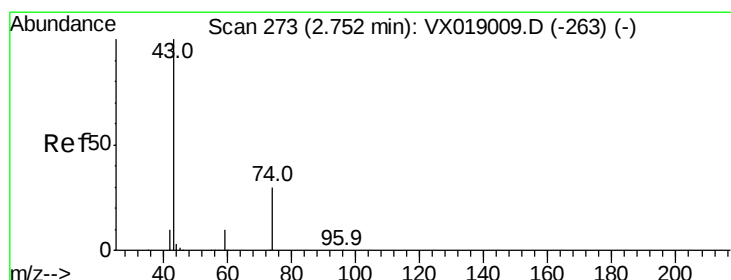
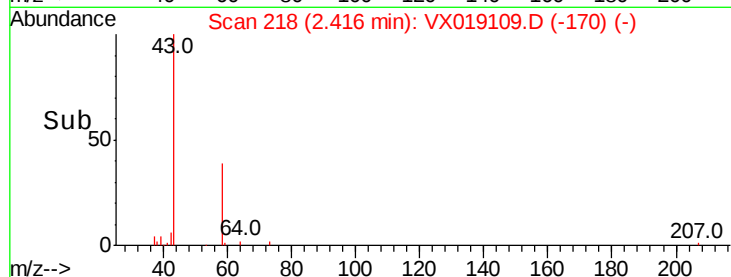
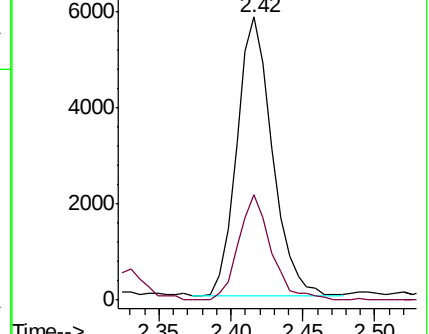
43 100

58 37.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.911 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX019109.D

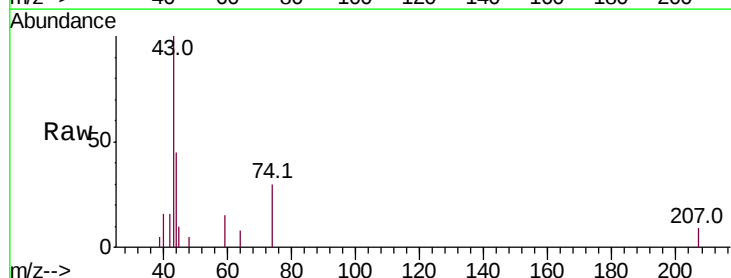
Acq: 24 Oct 2020 05:58

Tgt Ion: 43 Resp: 2476

Ion Ratio Lower Upper

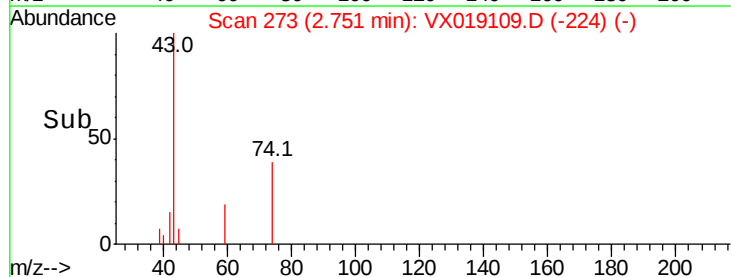
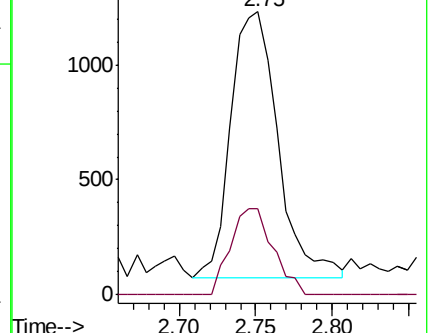
43 100

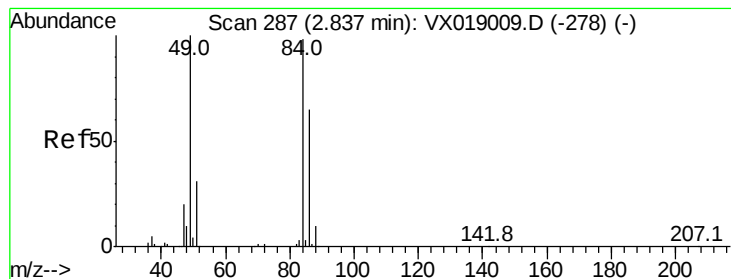
74 29.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 1.489 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#08

Tot Ion: 84 Resp: 4543

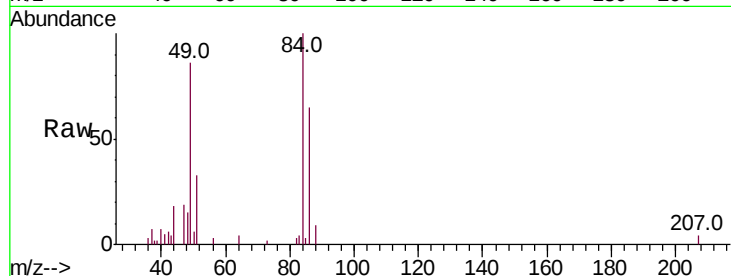
Ion Ratio Lower Upper

84 100

49 85.8 81.6 122.4

51 33.3 25.6 38.4

86 64.8 53.3 79.9

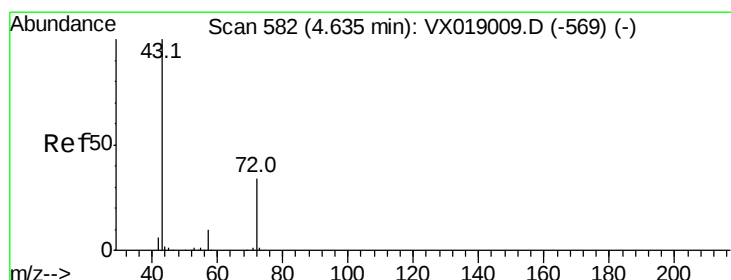
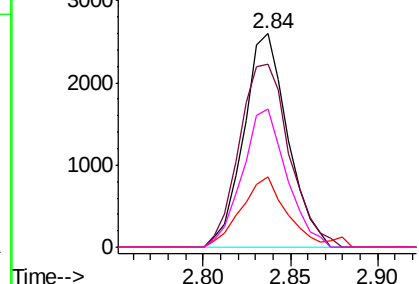
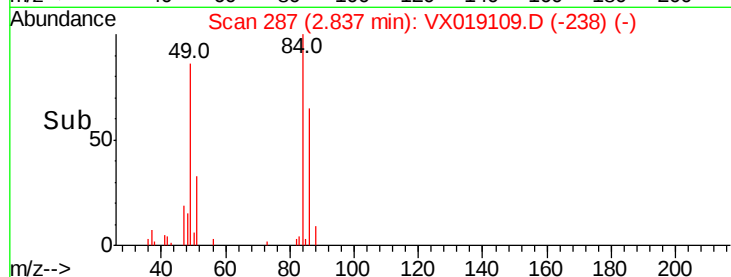


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.467 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX019109.D

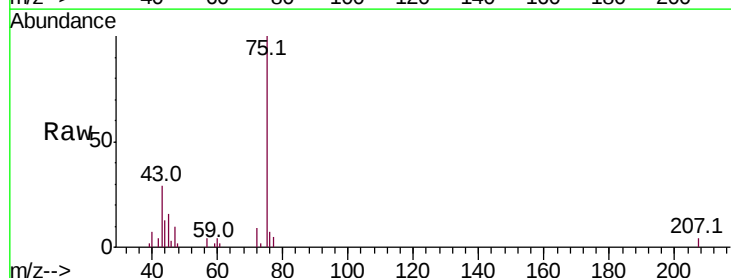
Acq: 24 Oct 2020 05:58

Tgt Ion: 43 Resp: 2540

Ion Ratio Lower Upper

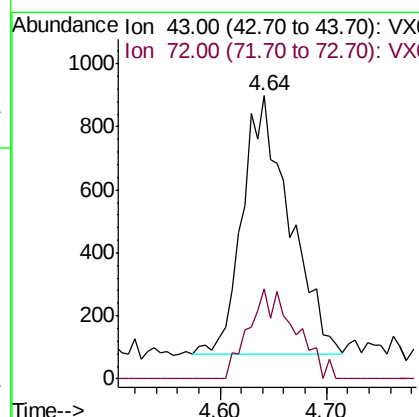
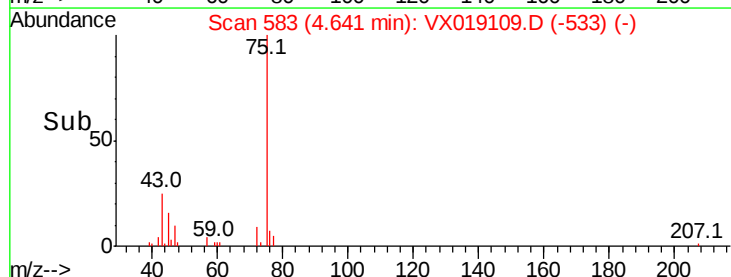
43 100

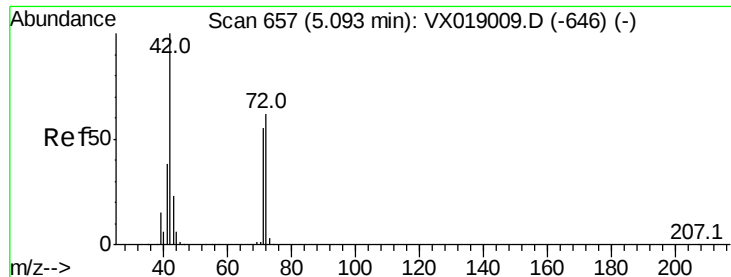
72 34.8 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

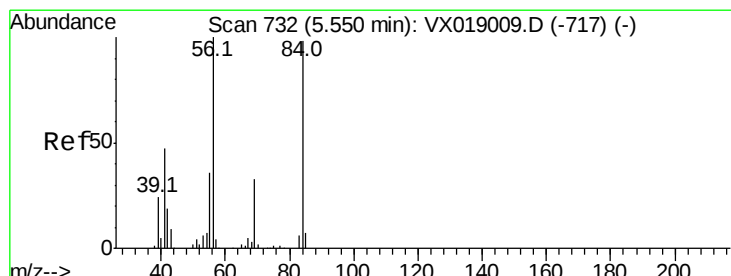
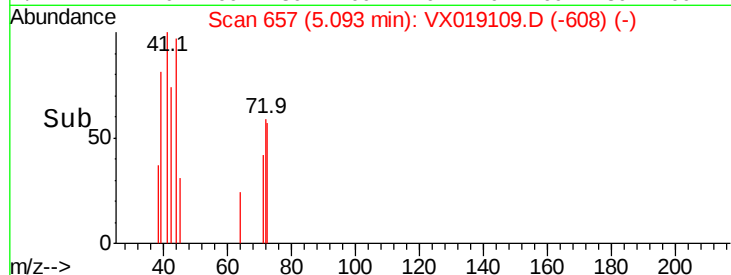
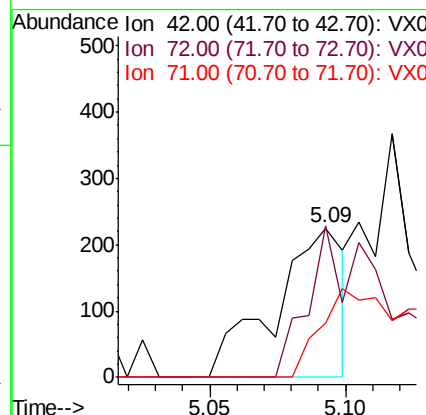
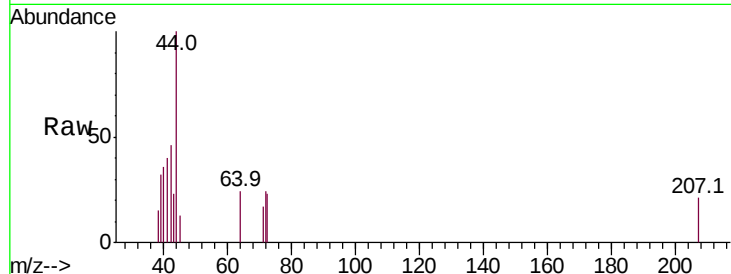




#29
Tetrahydrofuran
Concen: 0.385 ug/l
RT: 5.09 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

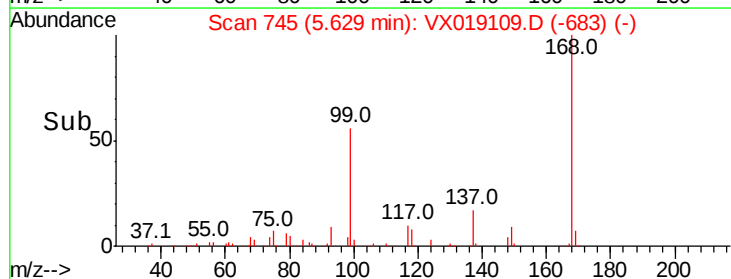
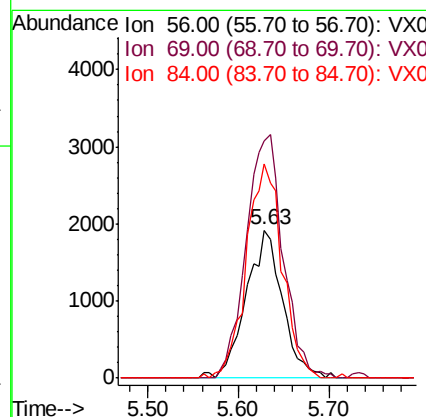
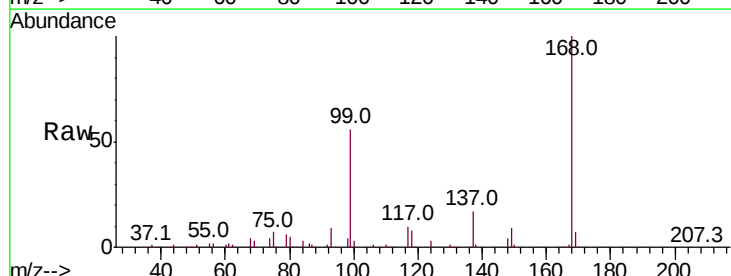
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#08

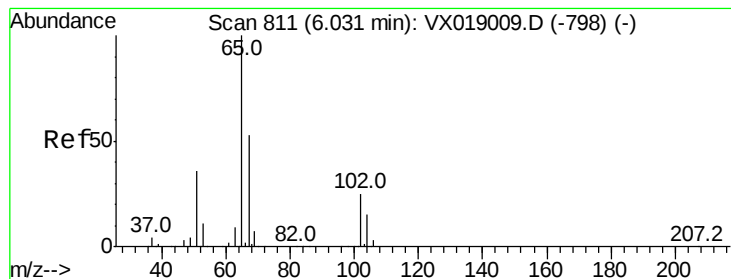
Tot Ion: 42 Resp: 398
Ion Ratio Lower Upper
42 100
72 107.0 49.1 73.7#
71 83.7 44.2 66.4#



#31
Cyclohexane
Concen: 1.407 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

Tgt Ion: 56 Resp: 5300
Ion Ratio Lower Upper
56 100
69 161.0 26.2 39.2#
84 145.1 78.3 117.5#





#33

1,2-Dichloroethane-d4

Concen: 51.267 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

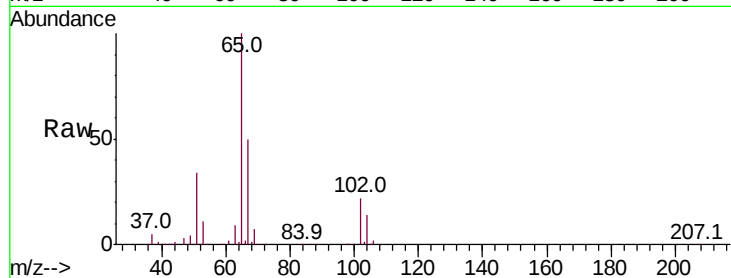
PB132563ZHE#08

Tot Ion: 65 Resp: 164931

Ion Ratio Lower Upper

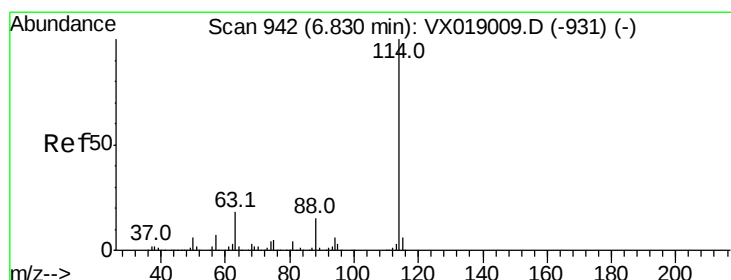
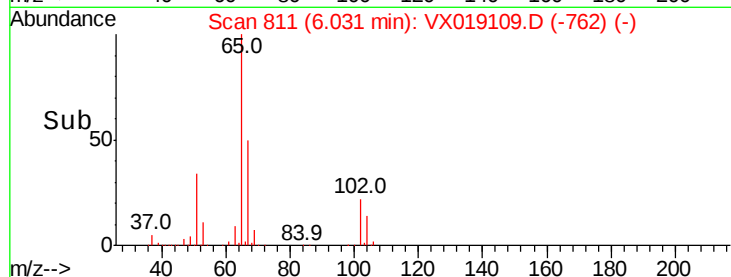
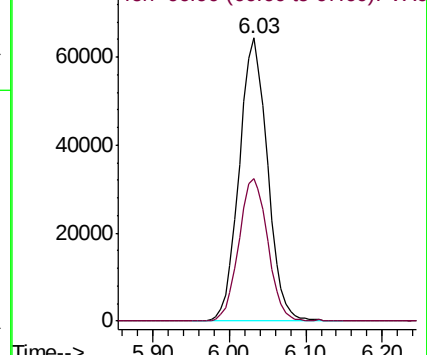
65 100

67 51.7 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

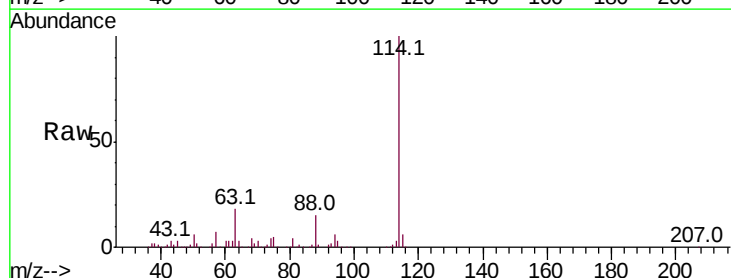
Tgt Ion: 114 Resp: 469060

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.8

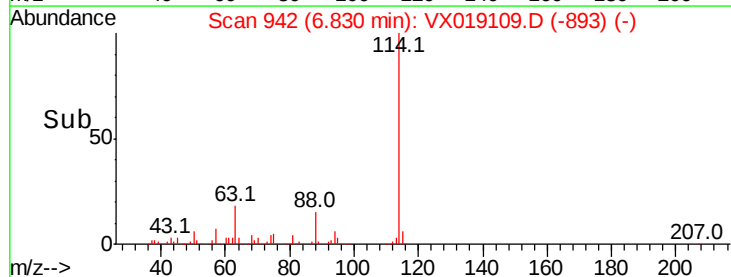
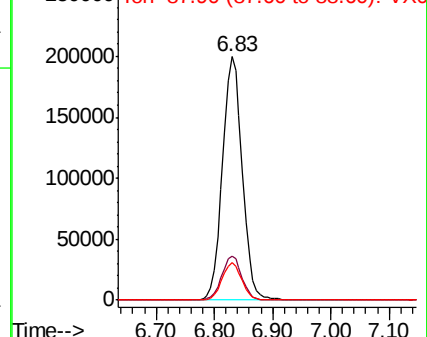
88 15.4 0.0 30.2

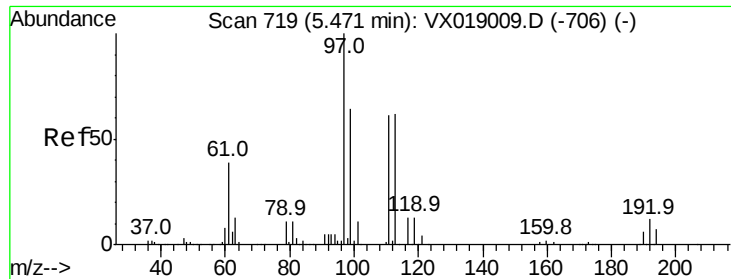


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

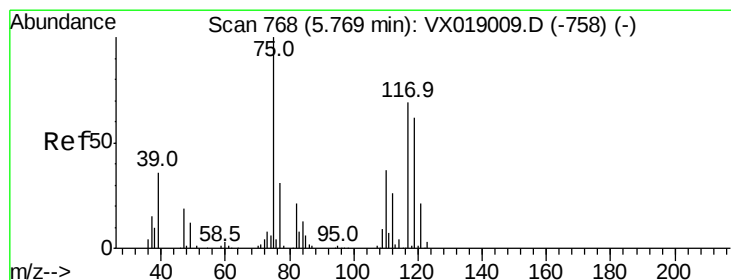
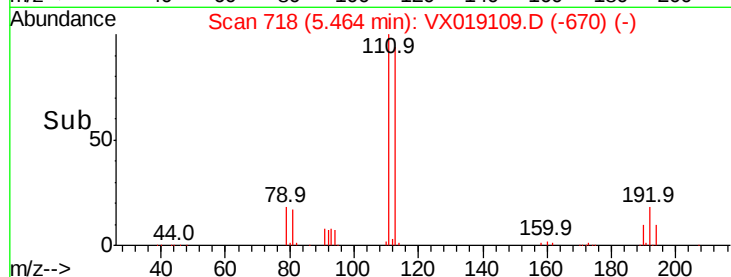
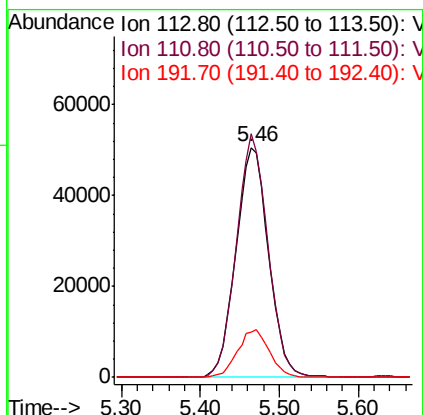
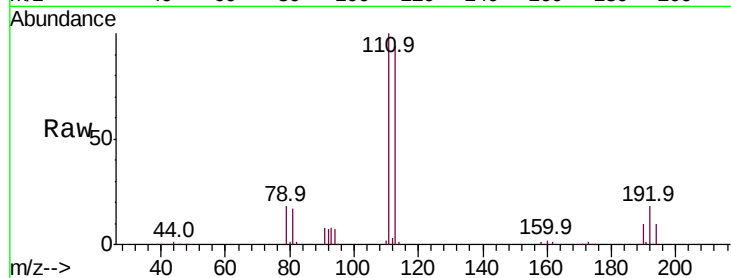




#35
 Dibromofluoromethane
 Concen: 49.009 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX019109.D
 Acq: 24 Oct 2020 05:58

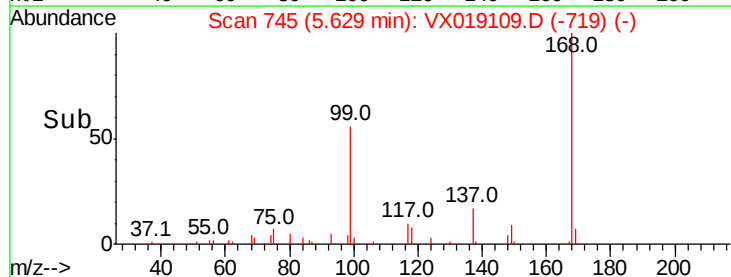
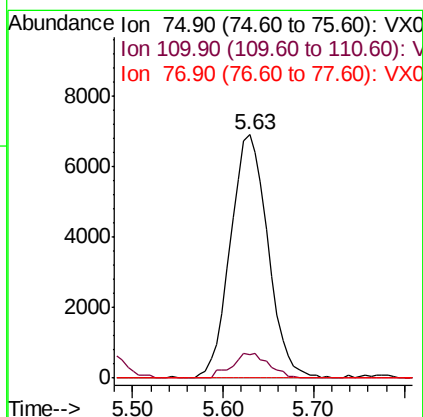
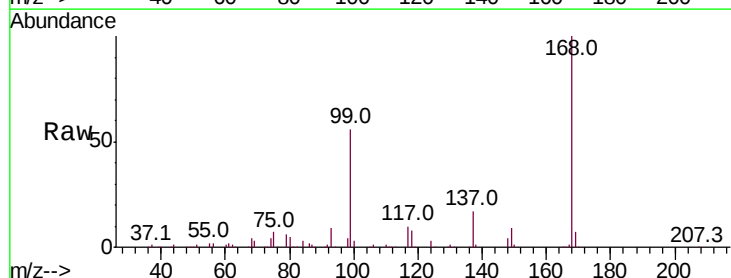
Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#08

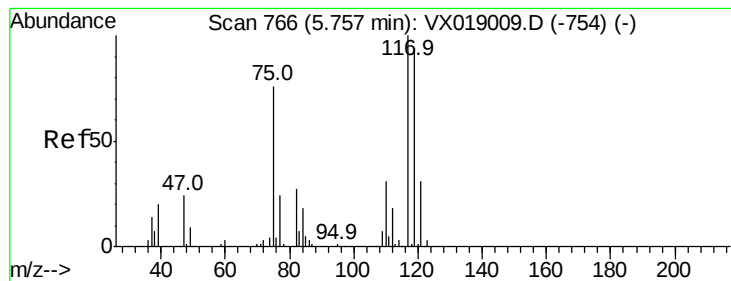
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.5	122.3
192	20.1	16.3	24.5



#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019109.D
 Acq: 24 Oct 2020 05:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.4	58.2#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 5.820 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#08

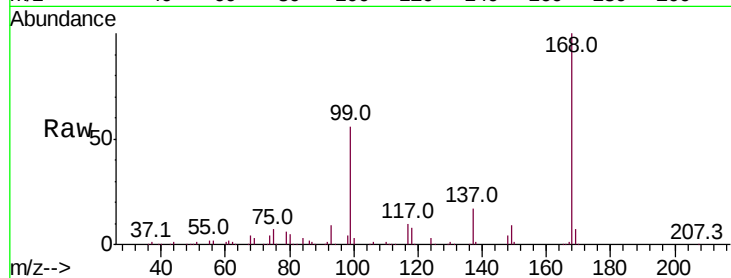
Tot Ion:117 Resp: 25709

Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

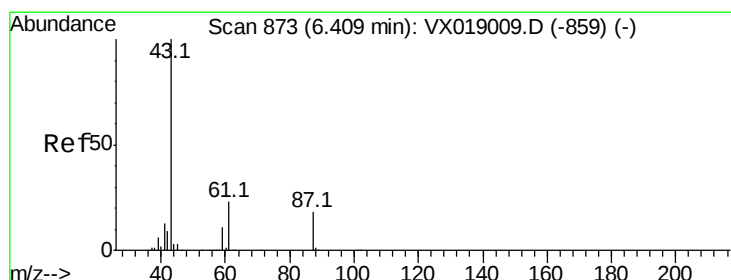
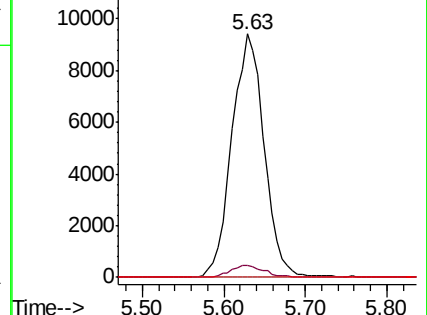
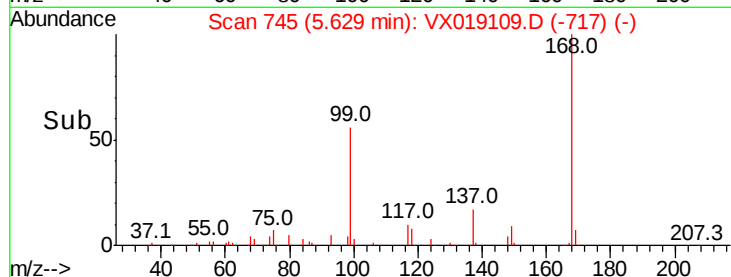
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.010 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

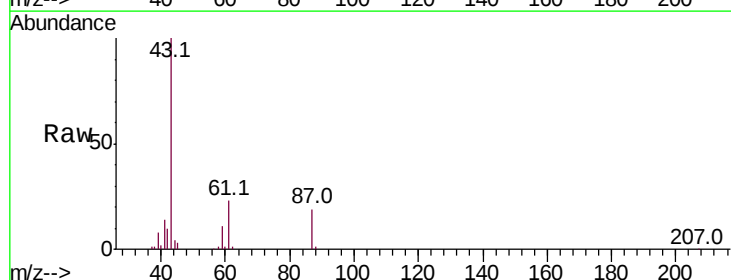
Tgt Ion: 43 Resp: 60900

Ion Ratio Lower Upper

43 100

61 23.5 18.7 28.1

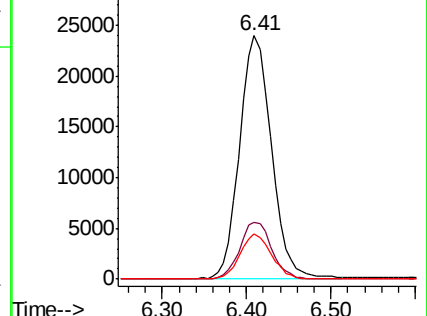
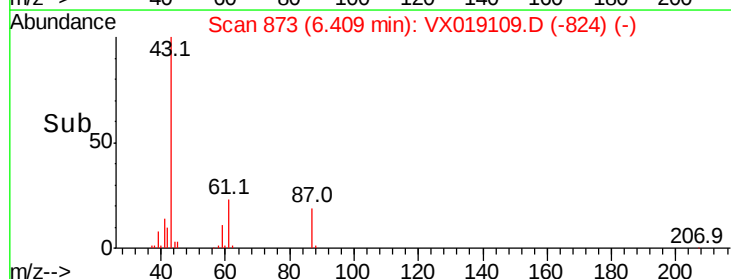
87 18.3 14.2 21.4

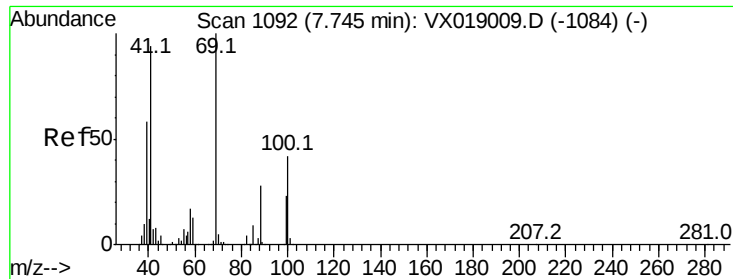


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

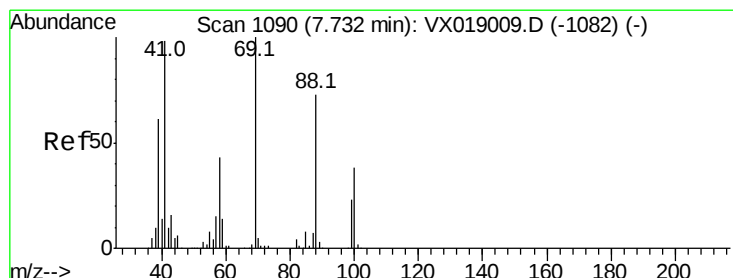
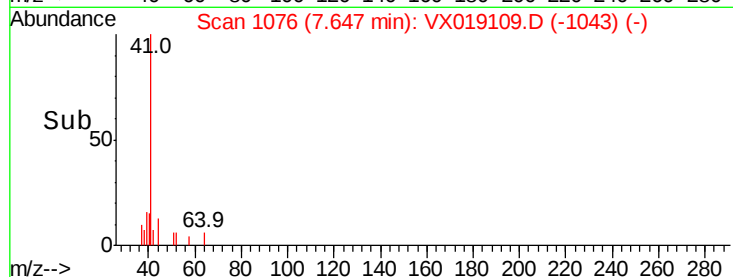
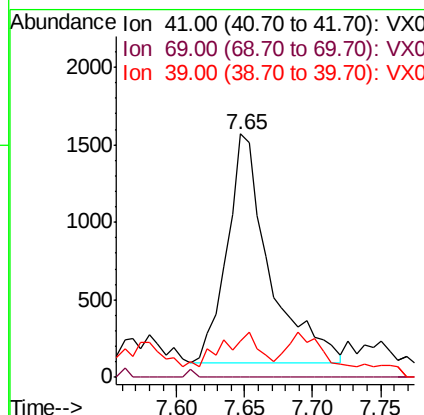
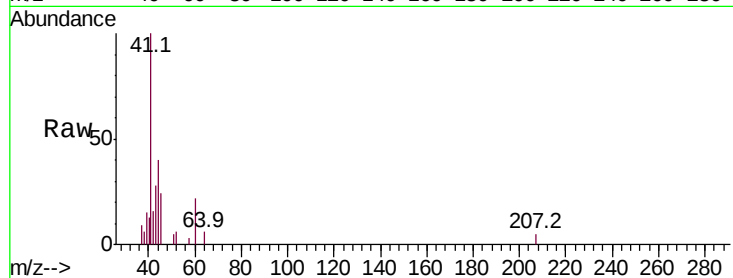




#48
Methvl methacrylate
Concen: 1.066 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

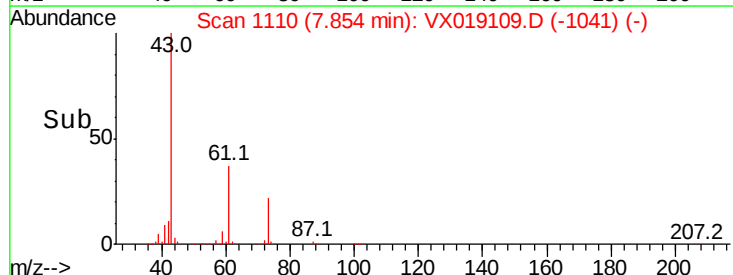
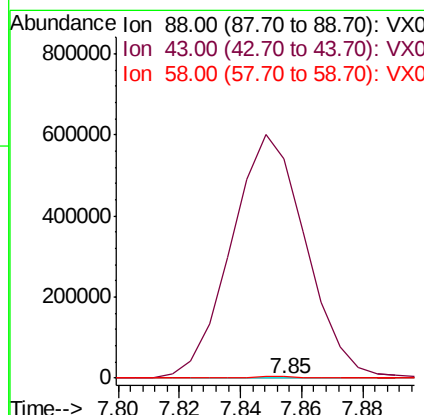
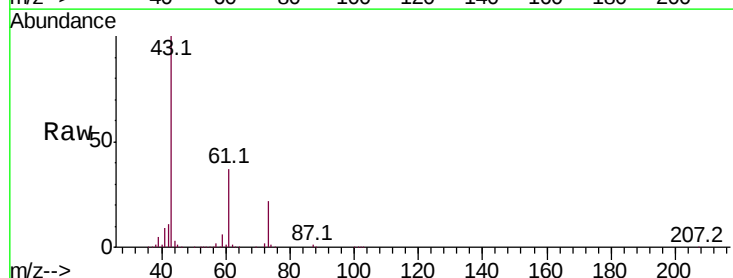
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#08

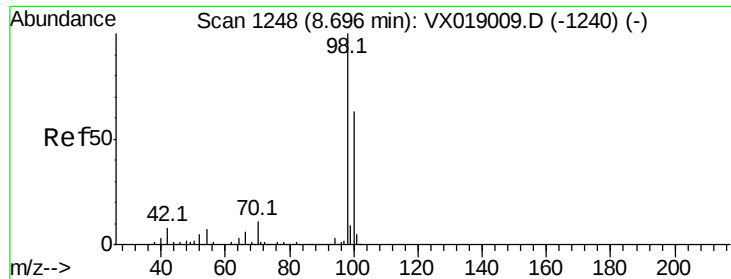
Tot Ion: 41 Resp: 3196
Ion Ratio Lower Upper
41 100
69 0.0 85.5 128.3#
39 0.0 49.3 73.9#



#49
1,4-Dioxane
Concen: 3.499 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.12 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

Tgt Ion: 88 Resp: 237
Ion Ratio Lower Upper
88 100
43 432012.2 20.3 30.5#
58 2281.9 48.4 72.6#

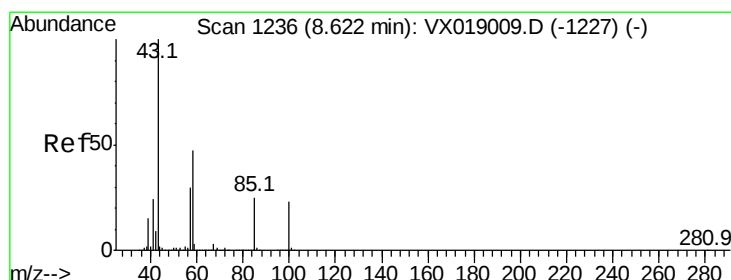
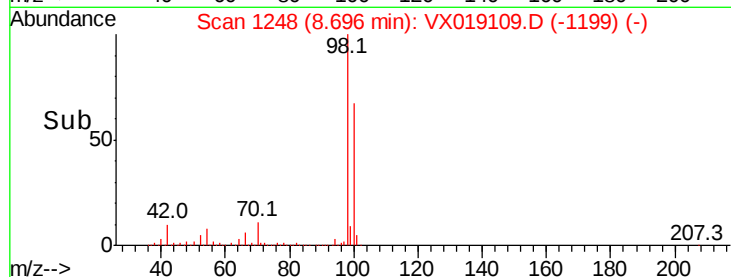
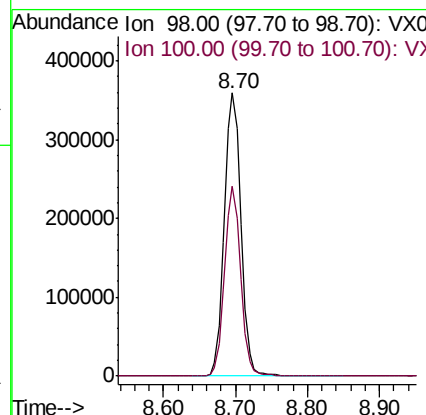
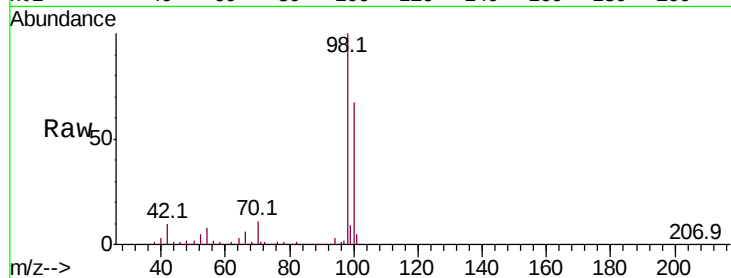




#50
Toluene-d8
Concen: 50.948 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

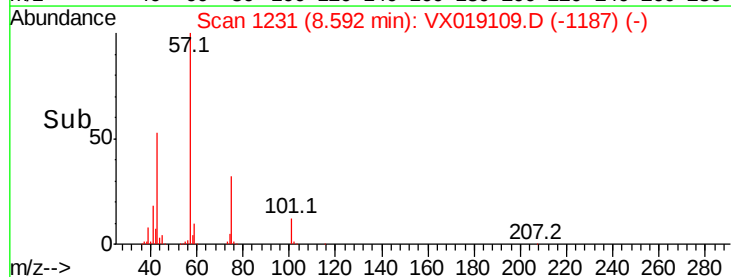
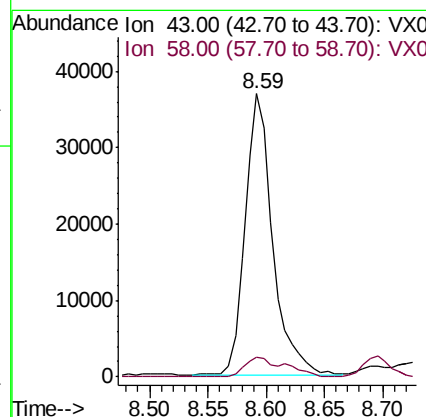
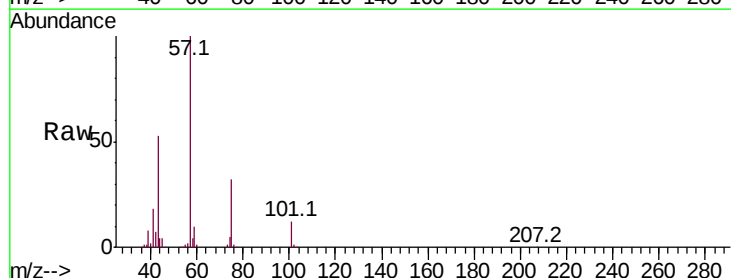
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#08

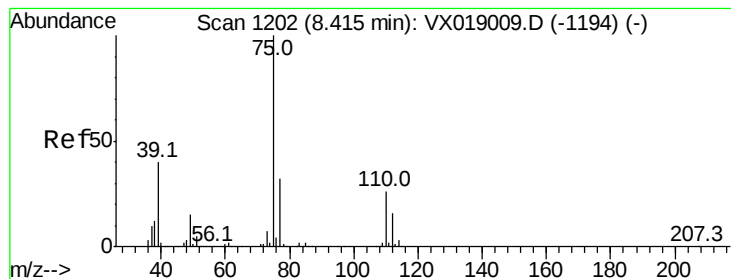
Tot Ion: 98 Resp: 577376
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 16.838 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

Tgt Ion: 43 Resp: 60366
Ion Ratio Lower Upper
43 100
58 10.5 37.4 56.0#



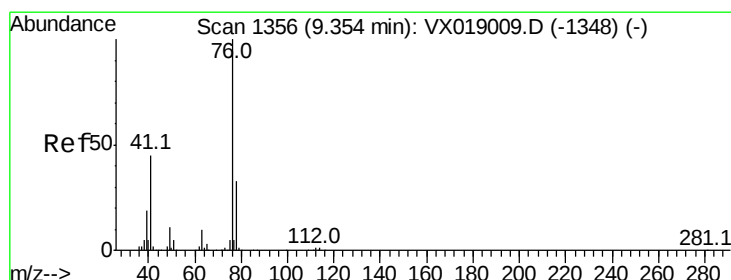
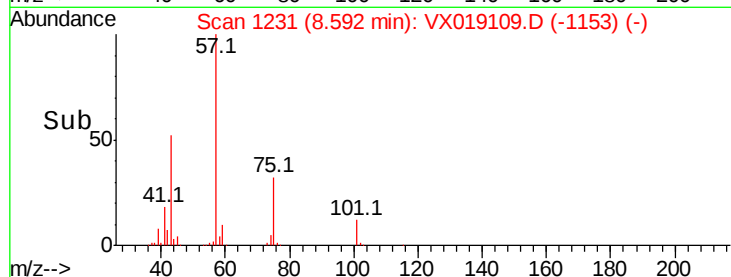
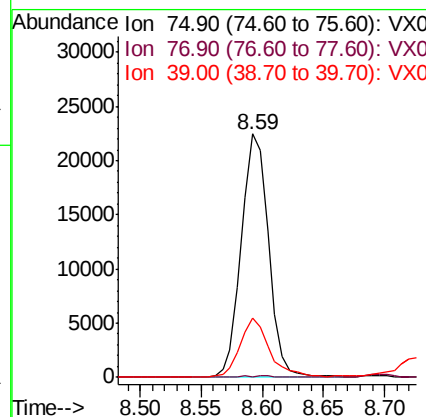
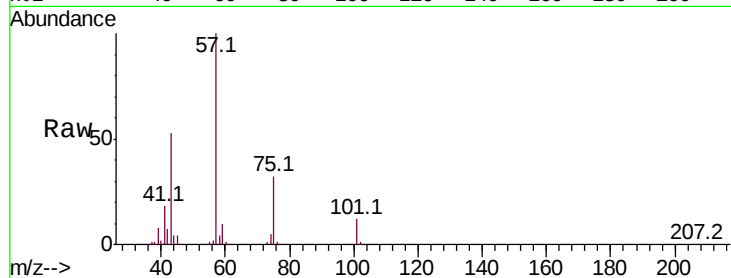


#54

cis-1,3-Dichloropropene
 Concen: 6.554 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019109.D
 Acq: 24 Oct 2020 05:58

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#08

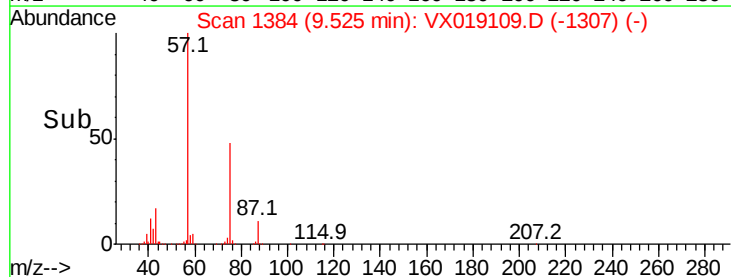
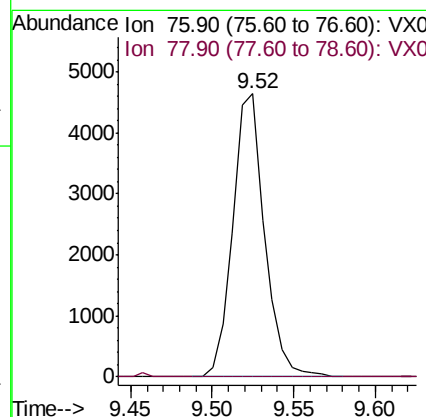
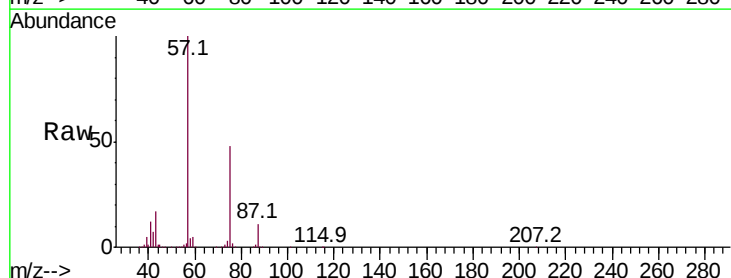
Tot Ion: 75 Resp: 34702
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.9 38.9#
 39 24.4 31.7 47.5#

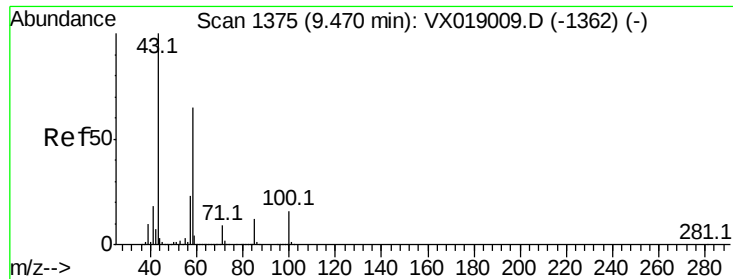


#57

1,3-Dichloropropane
 Concen: 1.183 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019109.D
 Acq: 24 Oct 2020 05:58

Tgt Ion: 76 Resp: 6266
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#





#59

2-Hexanone

Concen: 20.302 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

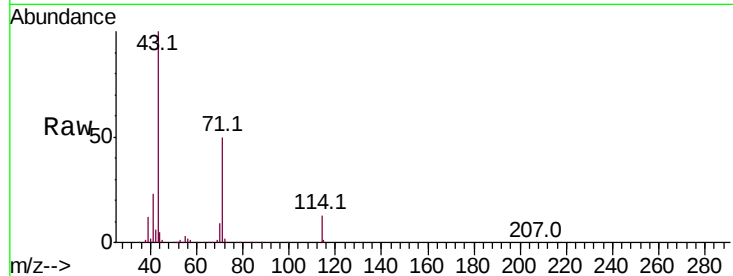
PB132563ZHE#08

Tot Ion: 43 Resp: 54240

Ion Ratio Lower Upper

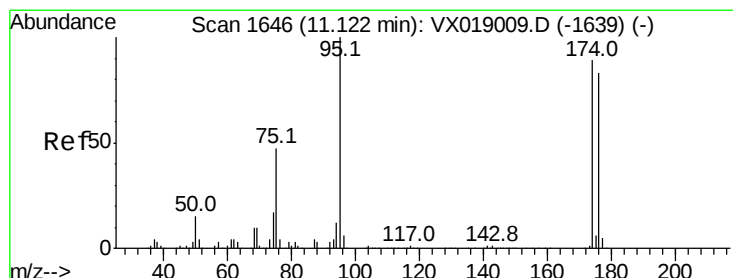
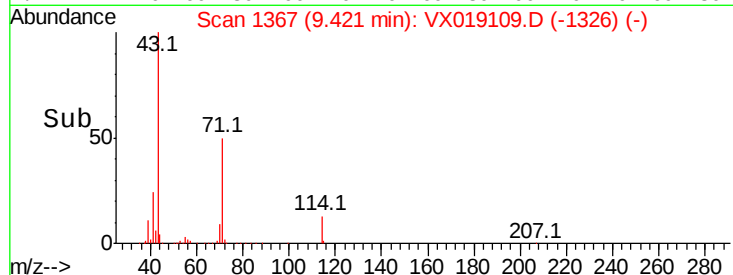
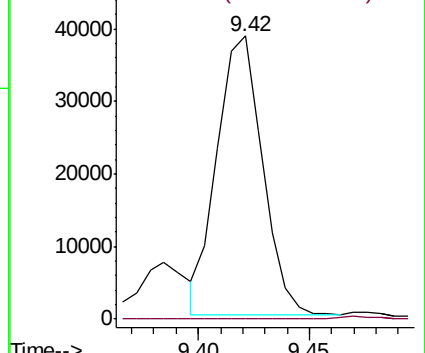
43 100

58 0.0 32.8 98.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 50.645 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

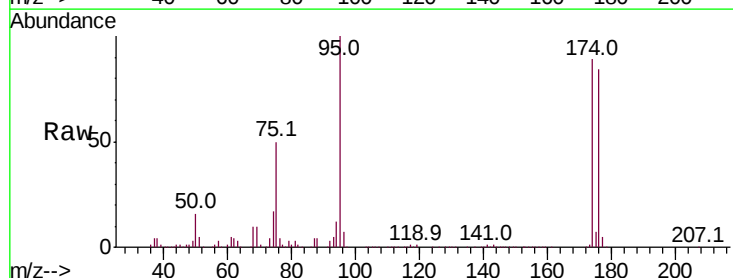
Tgt Ion: 95 Resp: 204157

Ion Ratio Lower Upper

95 100

174 84.6 0.0 167.6

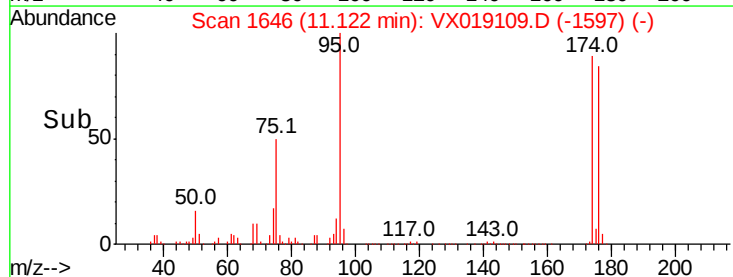
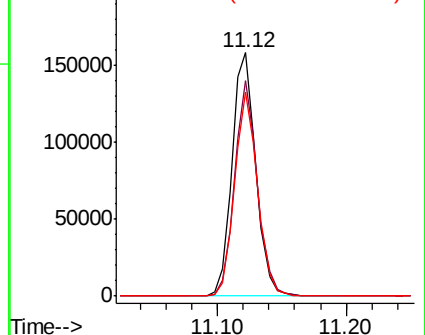
176 80.9 0.0 165.2

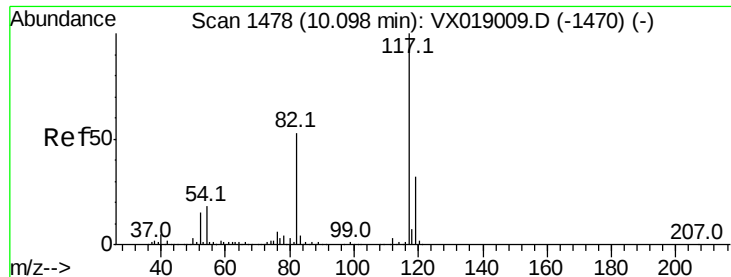


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

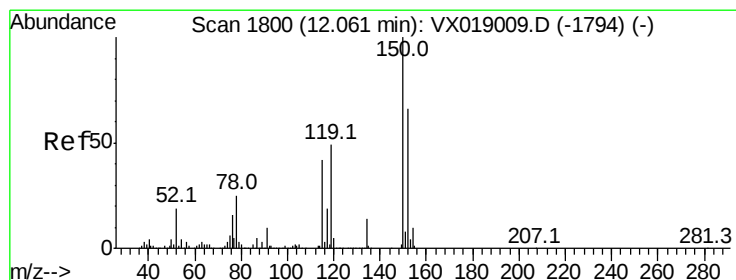
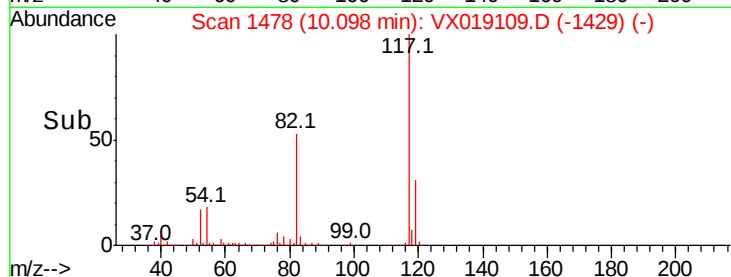
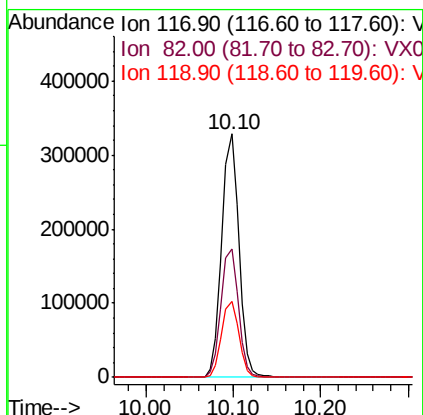
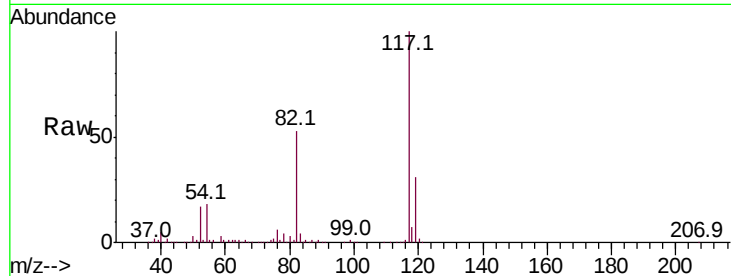




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

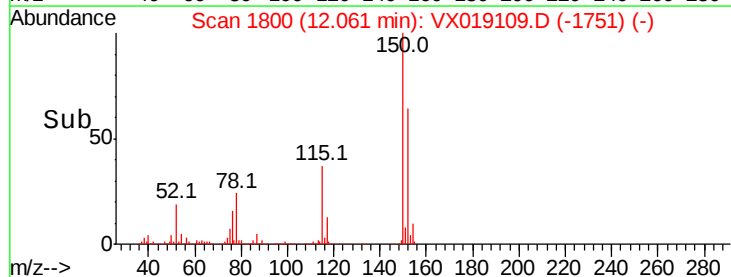
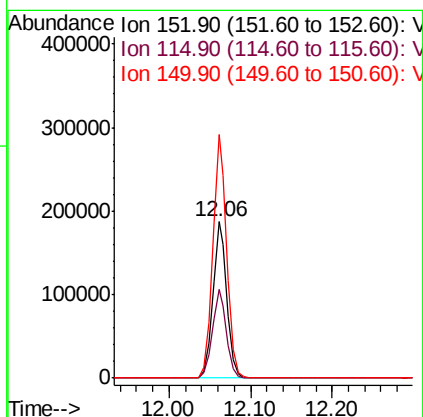
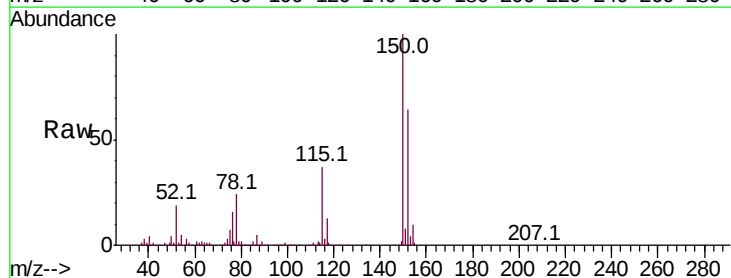
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#08

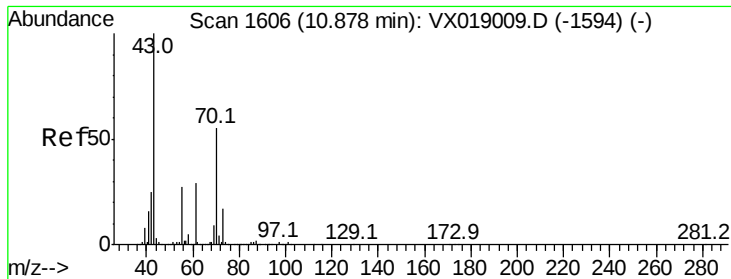
Tot Ion:117 Resp: 447328
Ion Ratio Lower Upper
117 100
82 53.0 42.4 63.6
119 31.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019109.D
Acq: 24 Oct 2020 05:58

Tgt Ion:152 Resp: 225741
Ion Ratio Lower Upper
152 100
115 57.1 40.8 122.5
150 155.9 0.0 345.6





#74

N-amvl acetate

Concen: 0.485 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#08

Tot Ion: 43 Resp: 2522

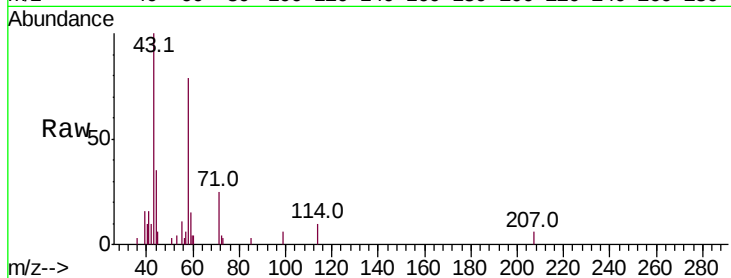
Ion Ratio Lower Upper

43 100

70 0.0 44.5 66.7#

55 12.3 21.9 32.9#

61 0.0 23.9 35.9#

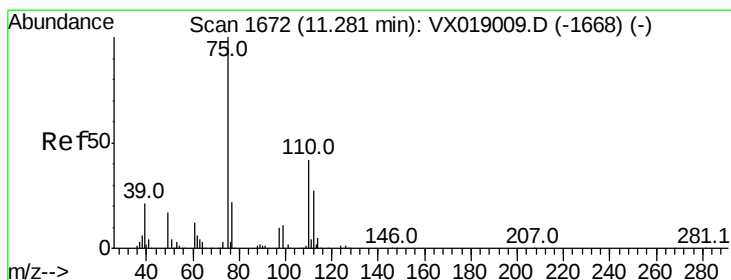
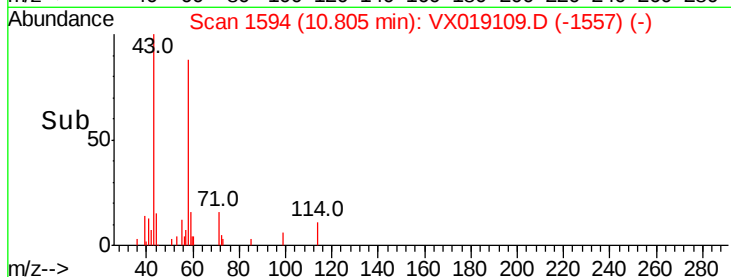
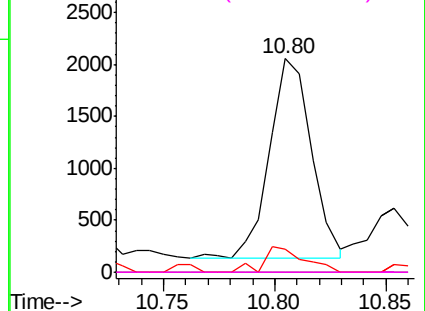


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.637 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019109.D

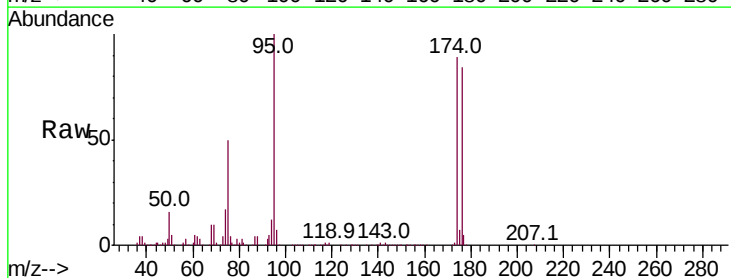
Acq: 24 Oct 2020 05:58

Tgt Ion: 75 Resp: 102136

Ion Ratio Lower Upper

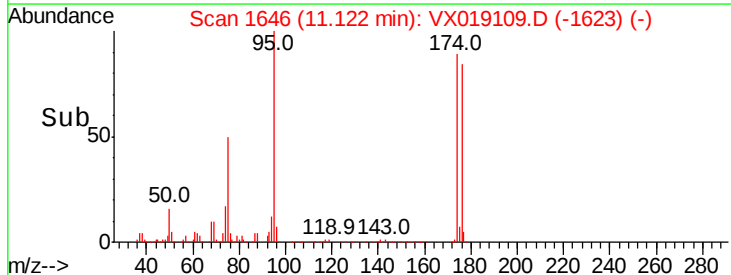
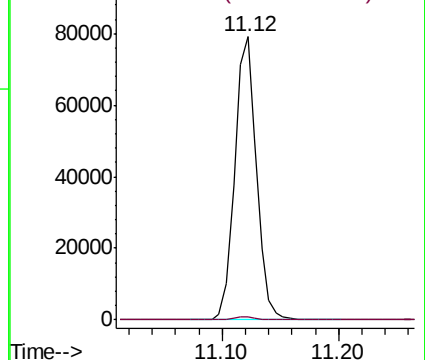
75 100

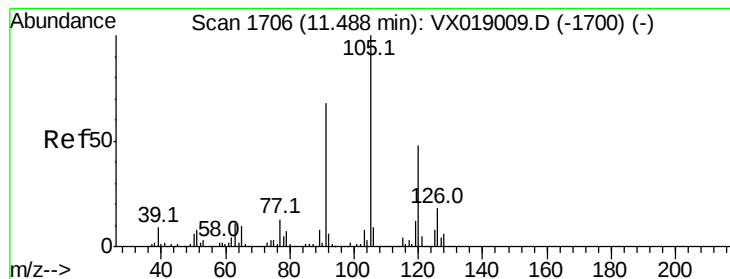
77 1.3 20.7 62.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.266 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

Instrument :

MSVOA_X

ClientSampleId :

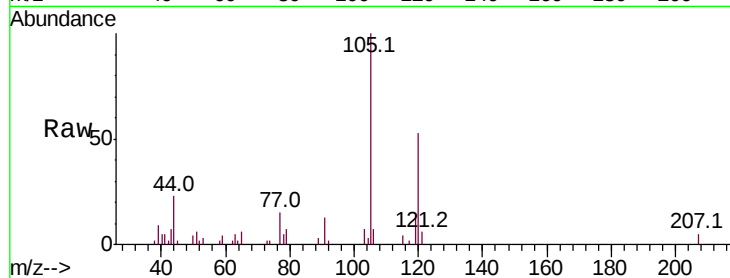
PB132563ZHE#08

Tot Ion:105 Resp: 3563

Ion Ratio Lower Upper

105 100

120 50.1 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

3000

2500

2000

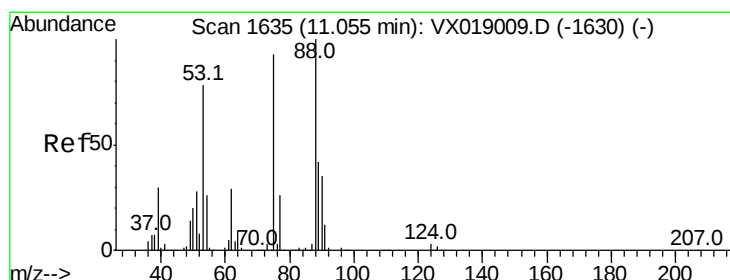
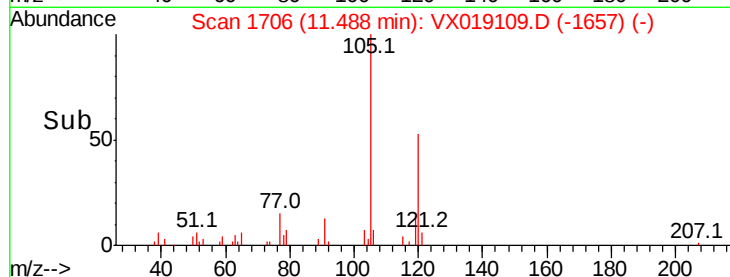
1500

1000

500

0

Time--> 11.45 11.50



#81

trans-1,4-Dichloro-2-butene

Concen: 57.674 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019109.D

Acq: 24 Oct 2020 05:58

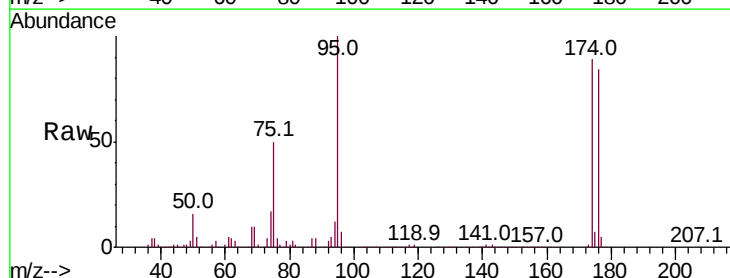
Tgt Ion: 75 Resp: 102136

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

100000

80000

60000

40000

20000

0

Time--> 11.10 11.20

